SCS ENGINEERS

Transmittal

West Des Moines, IA

PROJECT:	Cherokee Co,FY25 Env Comp,IA 27223105.25	DATE:	3/11/2025
SUBJECT:	Cherokee County Sanitary Landfill - 18-SDP-01-75P - 2024 Annual Water Quality Report, Leachate Control System Performance Evaluation Report, and Landfill Gas Annual Report	TRANSMITTAL ID:	00001
PURPOSE:	For your approval	VIA:	Info Exchange

FROM

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

TO

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

REMARKS:

Geoff -

Please find for your download the Cherokee County Sanitary Landfill 2024 Annual Water Quality Report, Leachate Control System Performance Evaluation Review, and Landfill Gas Annual Report . Let us know if you have any questions or comments.

Thanks,

Sean A. Marczewski
Project Professional
SCS Engineers
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DESCRIPTION OF CONTENTS

QTY	DATED	TITLE	NOTES
1	3/11/2025	Cherokee County Sanitary Landfill - 18-SDP-01-75P - 2024 AWQR.LCSPER.MMR 03.11.2025.pdf	

COPIES:

Transmittal

DATE: 3/11/2025
TRANSMITTAL ID: 00001

Becky Jolly	
Tony Agnitsch	(Cherokee County Solid Waste Commission)
Tim Buelow	(SCS Engineers)
Sean Marczewski	(SCS Engineers)

March 11, 2025
File No. 27223105.25

Mr. Geoff Spain
Iowa Department of Natural Resources
Land Quality Bureau
Wallace State Office Building
502 East 9th Street
Des Moines, Iowa 50319-0034

Subject: 2024 Annual Water Quality Report, Leachate Control System Performance Evaluation Report, and Landfill Gas Annual Report
Cherokee County Sanitary Landfill
Closed MSWLF Unit & Open MSWLF Unit
Permit No. 18-SDP-01-75P

Dear Geoff:

SCS Engineers, on behalf of the Cherokee County Solid Waste Commission, has completed the required statistical analyses and reporting for the Closed municipal solid waste landfill (MSWLF) unit and Open MSWLF unit at the Cherokee 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. Please find enclosed a copy of the 2024 Annual Water Quality Report.

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

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

Sincerely,

Sean Marczewski
Project Professional II
SCS Engineers

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

SAM/TCB

Copies: Mr. Tony Agnitsch, Cherokee County Sanitary Landfill

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

Open & Closed MSWLF Units
Cherokee County Sanitary Landfill
Cherokee, Iowa
Solid Waste Permit No. 18-SDP-01-75P

Prepared for:

Cherokee County Solid Waste Commission

SCS ENGINEERS

27223105.25 | March 2025

1690 All-State Ct Ste 100
West Des Moines, IA 50265
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CERTIFICATION

Prepared by: Sean Marczewski Date: 3/11/2025

Typed: Sean Marczewski

Reviewed by: [signature] Date: 3/11/2025

Typed: Timothy C. Buelow, P.E.

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

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

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

[signature] 3/11/2025

Timothy C. Buelow, P.E. (date)

Iowa License No. 14445

My license renewal date is: 12/31/2025

Pages or sheets covered by this seal:
All except **Appendix B-1.**

EXECUTIVE SUMMARY

ES.1 PERIOD OF REPORT COVERAGE

The period of report coverage is from January – December 2024 and includes the sampling events summarized in Table 2, Monitoring Program Implementation Schedule.

ES.2 REPORT PRIORITY

The following summarizes report priorities associated with groundwater compliance at the Cherokee County Sanitary Landfill (Landfill) Open and Closed municipal solid waste landfill (MSWLF) units:

- 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: Active (Open MSWLF unit) and closed (Closed MSWLF unit)
- Types of waste accepted: MSW, C&D, Special Waste
- Applicable IAC rules: 2009 567-113.10

ES.5 COMMENTS

The following summarizes points of special emphasis:

Closed MSWLF Unit

- There were six new and one ongoing well/detected constituents with indicated statistically significant increases (SSIs) above background for monitoring wells in the assessment monitoring program that are summarized in Table 7. The monitoring wells with SSIs are in the assessment monitoring program and do not require a resample; therefore, the SSIs were not confirmed.

- Site impact on groundwater found in the vicinity of monitoring wells MW-14R, MW-15R, and MW-39 is generally defined horizontally and vertically to background for the SSL parameters.

- Over 66 percent of the analyzed trends for Appendix I parameters for monitoring wells MW-14R, MW-15R, and MW-39 were stable or decreasing based on a less than or equal to zero Mann-Kendall statistic.

Open MSWLF Unit

- An SSI was indicated for cobalt in monitoring well MW-42R during the fall 2023 sampling event. Retesting occurred in March 2024 prior to the 1st 2024 semi-annual sampling event and the SSI was not confirmed.

ACRONYMS/ABBREVIATIONS

bgs = below ground surface
CAMP = Corrective Action Groundwater Monitoring Program
C&D = Construction and Demolition
DNR = Iowa Department of Natural Resources
GWPS = Groundwater Protection Standard
HMSP = Hydrologic Monitoring System Plan
IAC = Iowa Administrative Code
MSW = Municipal Solid Waste
MSWLF = Municipal Solid Waste Landfill
MCL = EPA Maximum Contaminant Level
QA = Quality Assurance
QC = Quality Control
SSI = Statistically Significant Increase above background
SSL = Statistically Significant Level above groundwater protection standard
TSS = Total Suspended Solids
VOC = Volatile Organic Compound

1.0 SITE BACKGROUND

1.1 SITE LOCATION

The Landfill property is depicted on **Figure 1**, Approved Monitoring Network. The Landfill is located north of Linden Street, adjacent to the southeastern city limits of the City of Cherokee, Iowa. The legal description is the W ½ of the SW ¼, Section 36, Township 92 North, Range 40 West, in Cherokee County, Iowa.

1.2 GEOLOGY AND HYDROGEOLOGY OF THE SITE

The Landfill is situated in the Northwest Iowa Plains, which is characterized by well-developed drainage and wide valleys due to several episodes of severe water and wind erosion. The overlying, unconsolidated soil consists of wind-deposited loess (3-6 feet thick silt with trace fine sand) and several episodes of Pleistocene glaciation including the youngest being the Wisconsinian. The Pleistocene glaciation period includes weathered till (6-18 feet thick, brown, lean clay with trace fine sand) and unweathered till (5-70 feet thick, gray to dark gray, lean clay with trace sand and gravel).

Bedrock beneath the Landfill is documented as the Cretaceous Dakota Sandstone, consisting of the Woodbury Member (interbedded shale, sandstone, and lignite) at an approximate depth of 110-200 feet below ground surface (bgs) and the Nishnabotna Member (medium to coarse sandstone with interbedded shale) at a depth of approximately 200 feet bgs. Data from the Iowa Geologic Survey indicate the bedrock surface is irregular and slopes to the west/northwest toward the Little Sioux River. Beneath the Dakota Sandstone lies generally Mississippian and Devonian-aged limestone.

Throughout the Landfill area, the glacial till is typically saturated below an approximate depth of 5 to 25 feet bgs. The shallow water table surface generally mimics the topography with groundwater flow in the northwest direction towards the Little Sioux River. Groundwater flow beneath most of the Landfill converges to the northwest, with a small component flowing towards a creek south of the Landfill.

Generally surface water in the southern portion of the site flows toward the road ditch along Linden Street which eventually flows west and south to Coonley Creek, then to the Little Sioux River. In the north portion of the Landfill surface water flows northwest to the ravines where an intermittent, seasonal creek continues to the Little Sioux River.

The 2002 Hydrogeologic Investigation Report by Fox Engineering indicated the glacial sediments are generally mostly clay and exhibit low hydraulic conductivities. Lateral movement is controlled by the predominately clay till although movement within the sand and silt seams is relatively accelerated. Low permeability of the glacial clays also controls the vertical groundwater flow which appears to have the greatest resistance to flow. The glacial till deposits in the area are considered to act as an aquitard.

Throughout the area, residential and commercial water supplies are within the Cretaceous Dakota Sandstone and the Devonian Limestone aquifers.

2.0 FIGURES DISCUSSION

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

2.1 FIGURE 1 – APPROVED MONITORING NETWORK

The Landfill property, hydrologic monitoring system plan (HMSP) monitoring networks, and impact delineation monitoring points are depicted on **Figure 1**. **Figure 1** indicates the respective monitoring programs of the HMSP monitoring points for each MSWLF unit.

2.2 FIGURE 2 – GROUNDWATER CONTOURS

A groundwater contour map based on the groundwater levels measured during the May 2024 sampling event is included as **Figure 2**. Water levels at the Landfill appear to be at the highest level northeast of the active area of the Open MSWLF unit. The groundwater appears to flow generally to the west beneath the undeveloped portions of the Open MSWLF unit, while the flow beneath the active cells is primarily to the southwest with convergence of flow toward the center of the area. Groundwater flow beneath the Closed MSWLF unit area is to the north beneath the Original Landfill Area, while the flow beneath Area A and Area B is generally northwesterly. Groundwater flow in the north central portion of the property in the vicinity of sedimentation pond generally converges and exits to the north.

2.3 FIGURE 3 – REPORTING PERIOD DETECTION SUMMARY

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

2.4 FIGURE 4 – ARSENIC CONCENTRATION MAP

The background concentration for arsenic is 0.0064 mg/L. Former arsenic SSLs at monitoring wells MW-15R and MW-39 are horizontally bracketed to the north by monitoring well MW-14R and downgradient to the southeast by APZOC monitoring well MW-15C. Arsenic is vertically bracketed by monitoring well MW-43.

2.5 FIGURE 5 – BARIUM CONCENTRATION MAP

The background concentration for barium is 0.1017 mg/L. The former barium SSL at monitoring well MW-39 is bracketed to the north by monitoring well MW-14R and northeast by AZPOC monitoring well MW-44. Barium measurements at vertical bracketing monitoring well MW-43 are above background. Barium concentrations at AZPOC monitoring well MW-15C were below background during both 2024 sampling events.

2.6 FIGURE 6 – COBALT CONCENTRATION MAP

The background concentration for cobalt is 0.0074 mg/L. Former cobalt SSL concentrations at monitoring wells MW-14R, MW-15R, and MW-39 are bracketed to the southeast by AZPOC monitoring well MW-15C, AZPOC monitoring well MW-44 to the northeast, and by monitoring well MW-43 vertically. Elevated cobalt concentrations are bracketed to the west by monitoring well MW-40. The cobalt concentrations measured during the May 2024 sampling event for monitoring wells MW-14R and MW-15R and during the October 2024 sampling event for monitoring well MW-39 were below background.

2.7 FIGURE 7 – VINYL CHLORIDE CONCENTRATION MAP

The former vinyl chloride SSL at monitoring well MW-39 is bracketed by non-detect and J flag (estimated) concentrations at AZPOC monitoring well MW-15C to the southeast, monitoring well monitoring well MW-14R to the north, AZPOC monitoring well MW-44 to the northeast, and monitoring well MW-40 to the southwest. These monitoring wells did not have a quantified detection of vinyl chloride during the 2020, 2021, 2022, 2023, and 2024 reporting periods. Vinyl chloride was measured in monitoring wells MW-15R and MW-43 during the May 2024 sampling event and October 2024 sampling event, respectively.

3.0 STANDARDS HISTORY GRAPHS

Standards history graphs for the Appendix I metals in the Closed MSWLF unit are included in Appendix G. The prediction limits were below the GWPSs with the following exceptions:

- For cadmium, cobalt, lead, thallium, and vanadium, the background prediction limits were higher than the MCLs or state-wide standards, so the prediction limits were used as the GWPSs.

- For beryllium there were no quantified detections in the background.

Standard history graphs were not generated for the intrawell background datasets in the Closed and Open MSWLF units in accordance with recent DNR guidance for similar sites: *"Please note that when intrawell statistics are used, DNR has allowed use of tables as an alternative to the standards history graphs in order to reduce the overall report size."* More information on prediction limits and GWPSs can be found in Table 5.

4.0 QA/QC SUMMARY

The quality assurance/quality control (QA/QC) program for the Open and Closed MSWLF units follows similar protocols as included in the HMSP. Data validation procedures were performed on analytical results for laboratory quality control samples and a quality assurance assessment of the data was conducted as the data were generated. The QA review procedure provided documentation of the accuracy and precision of the analytical data and confirmed that the analyses were sufficiently sensitive to detect constituents at levels below regulatory standards when technically feasible with the laboratory method utilized. SCS then conducted QA/QC data validation of the produced data, which included review of sample handling, analytical sensitivity, and blanks, accuracy, and precision. A summary of the laboratory QA/QC and data validation can be found in Appendix B-1, Laboratory Analytical Data Sheets, and Appendix B-2, Data Validation Documentation, respectively.

5.0 DATA EVALUATION AND SUMMARY

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

5.1 DATA EVALUATION

Open MSWLF Unit

Groundwater monitoring for the Open MSWLF unit consists of samples from monitoring wells encompassing the downgradient MSWLF unit perimeters and one groundwater underdrain discharge point. The monitoring wells in the Open MSWLF unit monitoring network are analyzed by intrawell statistics. The ranges of measured concentrations for the detected constituents during this reporting period are shown on **Figure 3**, Reporting Period Detection Summary.

During this reporting period, no volatile organic compounds (VOCs) were detected in the Open MSWLF unit monitoring network. Groundwater underdrain GWD-2 had three site-wide maximum concentrations for the Open MSWLF unit, while monitoring well MW-35 had one maximum concentration. Barium and one low total suspended solids (TSS) concentration were the only detections in monitoring well MW-27 during this reporting period and the 2023 reporting period. Groundwater underdrain GWD-2 was dry during the 2nd 2024 semi-annual sampling event.

Closed MSWLF Unit

Groundwater monitoring for the Closed MSWLF unit consists of samples from monitoring wells encompassing the downgradient MSWLF unit perimeters. The background monitoring well for the Closed MSWLF unit monitoring network is MW-11. Historic data from monitoring wells MW-1 and MW-4 and historic and current data from monitoring well MW-11 is used to calculate background prediction limits. The ranges of measured concentrations for the detected constituents during this reporting period are shown on **Figure 3**, Reporting Period Detection Summary.

During this reporting period, trichloroethene was measured at a J flag concentration in monitoring well MW-7. Trichlororethene has been detected in this monitoring well since 2012. Monitoring wells MW-9R, MW-10R and MW-12 each had one inorganic site-wide maximum concentration. Monitoring well MW-13R had three inorganic site-wide maximum concentrations and chlorobenzene was measured during the May 2024 sampling event. Arsenic exceeded the GWPS in AZPOC monitoring well MW-44, but this was likely due to the elevated TSS concentration of 54 mg/L measured during the October 2024 sampling event.

5.2 CORRECTIVE ACTION

Trending of the Appendix I parameters in the source characterization monitoring wells MW-14R, MW-15R, and MW-39 was evaluated by Mann-Kendall evaluation. The evaluation indicated no statistically significant trends at 99 percent confidence ($\alpha = 0.01$). As shown in **Table 11**, of 30 total trends evaluated, there were 10 increasing trends indicated by a calculated Mann-Kendall statistic greater than zero and 20 stable or decreasing trends indicated by a Mann-Kendall statistic of zero or less, which calculated to over 66 percent of the constituent-monitoring wells trends as stable or decreasing. A summary table and graphs of the Mann-Kendall trending evaluation for the source wells are included in **Appendix H**. A summary of current and historical analytical results for the source wells is included in **Appendix C-1**.

As stated in the approved CAMP, natural attenuation parameters iron, manganese, nitrate, sulfate, and total organic carbon will be analyzed biennially in the source wells. This sampling last occurred during the September 2022 sampling event. Sampling for natural attenuation parameters was inadvertently missed during the 2024 reporting period and is scheduled to be sampled during the 1st 2025 semi-annual sampling event. A discussion of natural attenuation will be included after the next natural attenuation sampling event in the 2025 Annual Water Quality Report.

6.0 RECOMMENDATIONS

6.1 SITE IMPACT ON GROUNDWATER

Site impact on groundwater is measured in the vicinity of monitoring wells MW-14R, MW-15R, and MW-39 between the closed Original Landfill Area of the Closed MSWLF unit and the Open MSWLF unit. The area of impact is generally defined horizontally and vertically to background for the SSL parameters except for barium to the southwest of and vertically below monitoring well MW-39 and vinyl chloride below monitoring wel MW-39.

The corrective action remedy of source control via final cover and monitored natural attenuation is in place and will be monitored through routine monitoring, the concentrations measured from the AZPOC samples, and natural attenuation evaluation.

6.2 PROPOSED MONITORING

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

6.3 PROPOSED MONITORING WELL CHANGES

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

Tables

Table 1
Monitoring Program Summary Table
2024 Annual Water Quality Report
Cherokee County Landfill - Open & Closed MSWLF Units
Permit No. 18-SDP-01-75P

Monitoring Well	Formation[1]	Current Monitoring Program	Change for next sampling event	Constituents with SSIs During the 2024 Reporting Period	Constituents with SSLs	Total # of Samples in each monitoring program		
						Detection	Assessment	Corrective Action or Other
HSMP Monitoring Points - Open MSWLF Unit								
MW-21[2]	Weathered Till	Background	No change	Not applicable	Not applicable	3		
MW-23[2]	Weathered Till	Background	No change	Not applicable	Not applicable	6		
MW-16	Loess	Detection	No change	None	Not applicable	39		
MW-27	Weathered Till/Loess	Detection	No change	None	Not applicable	33		
MW-35	Weathered Till	Detection	No change	None (2024 Fall sample excluded)	Not applicable	31		
MW-42R	Unweathered Till	Detection	No change	None	Not applicable	14		
GWD-2	Not applicable	Detection	No change	None (no 2024 Fall sample)	Not applicable	6		
HSMP Monitoring Wells - Closed MSWLF Unit								
MW-11	Till	Background	No change	Not applicable	Not applicable	30		
MW-7	Till	Assessment	No change	None	None		30	
MW-9R	Unweathered Till	Assessment	No change	Cobalt	None		30	
MW-10R	Unweathered Till/Sand	Assessment	No change	Barium	None		30	
MW-12	Till/Sand	Assessment	No change	Arsenic, Barium, Cobalt	None		30	
MW-13R	Weathered Till	Assessment	No change	Barium, Chlorobenzene	None		30	
Attenuation Zone Point of Compliance (AZPOC) Monitoring Wells								
MW-15C	Not available	AZPOC (Corrective Action)	No change	None	None			18
MW-44	Unweathered Till	AZPOC (Corrective Action)	No change	None	None			9
Source Characterization Monitoring Wells								
MW-14R	Unweathered Till	Source Characterization	No change					34
MW-15R	Weathered/Unweathered Till	Source Characterization	No change					34
MW-39	Unweathered Till	Source Characterization	No change					34
Corrective Action Bracketing Monitoring Wells								
MW-40	Loess	Horizontal impact delineation for SSL constituents.						13
MW-43	Weathered/Unweathered Till	Vertical impact delineation for SSL constituents.						6
Water Level Monitoring Points								
GWD-1 E	Not applicable	Water Level						
GWD-1 W	Not applicable	Water Level						
MW-1	Not available	Water Level						
MW-3	Weathered Till	Water Level						
MW-4	Not available	Water Level						
MW-15A	Not available	Water Level						
MW-15B	Not available	Water Level						
MW-32	Weathered/Unweathered Till	Water Level						
MW-34	Unweathered Till	Water Level						
MW-40A	Sand, Sandy Clay	Water Level						

Notes:
(1) Obtained from screened interval on boring logs or cross sections.
(2) Temporary suspension of HMSP groundwater monitoring as wells are not monitoring an active cell and intrawell statistics are used.
SSI = Statistically Significant Increase above background.
SSL = Statistically Significant Level above groundwater protection standard.
Indicated SSIs during this reporting period occurred in monitoring wells in the assessment monitoring program and do not require a resample.

Table 2
Monitoring Program Implementation Schedule
2024 Annual Water Quality Report
Cherokee County Landfill - Open & Closed MSWLF Units
Permit No. 18-SDP-01-75P

Monitoring Well	Recent Sampling Events and Constituents			Upcoming Sampling Event and Constituents		Full Appendix II Sample Dates	
	March 2024 Retest	May 2024	October 2024	1st 2025 Semi-Annual	2nd 2025 Semi-Annual	Previously Collected	Next Event
Open MSWLF Unit							
MW-16		Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	3/22/2017, 5/10/2022	Not applicable
MW-27		Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Not applicable	Not applicable
MW-35		Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	9/26/2016	Not applicable
MW-42R	Cobalt, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Not applicable	Not applicable
GWD-2		Appendix I, TSS	No Sample (Dry)	Appendix I, TSS	Appendix I, TSS	Not applicable	Not applicable
Closed MSWLF Unit							
MW-11		Metals List, TSS, Sulfide			Metals List, TSS, Sulfide	Not applicable	Not applicable
MW-7		Metals List, TSS, Appendix I VOCs			Appendix II, TSS	4/15/2015, 3/12/2020	2025
MW-9R		Metals List, TSS, Sulfide			Metals List, TSS, Sulfide	9/26/2016, 3/24/2021	2026
MW-10R		Metals List, TSS, Appendix I VOCs			Appendix II, TSS	4/15/2015, 3/12/2020	2025
MW-12		Appendix II, TSS			Metals List, TSS	9/30/2014, 5/29/2019, 5/30/2024	2029
MW-13R		Appendix II, TSS			Metals List, TSS, Appendix I VOCs	9/30/2014, 5/29/2019, 5/30/2024	2029
AZPOC							
MW-15C		Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Not applicable	Not applicable
MW-44		Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Not applicable	Not applicable
Source Characterization							
MW-14R		Appendix I, TSS	Appendix I, TSS	Appendix I, Natural Attenuation, TSS	Appendix I, TSS	4/15/2015, 3/11/2020	Not applicable
MW-15R		Appendix I, TSS	Appendix I, TSS	Appendix I, Natural Attenuation, TSS	Appendix I, TSS	4/15/2015, 3/11/2020	Not applicable
MW-39		Appendix I, TSS	Appendix I, TSS	Appendix I, Natural Attenuation, TSS	Appendix I, TSS	8/22/2018	Not applicable
Corrective Action - Bracketing							
MW-40			Arsenic, Barium, Cobalt, TSS, Vinyl Chloride		Arsenic, Barium, Cobalt, TSS, Vinyl Chloride	Not applicable	Not applicable
MW-43			Arsenic, Barium, Cobalt, TSS, Vinyl Chloride		Arsenic, Barium, Cobalt, TSS, Vinyl Chloride	Not applicable	Not applicable

Comments:
"Metals List" includes arsenic, barium, cobalt, lead, and nickel.
"Natural Attenuation" includes iron, manganese, nitrate, sulfate, and total organic carbon.
TSS: Total Suspended Solids.

Table 3
Monitoring Well Maintenance and Performance Re-Evaluation Schedule
2024 Annual Water Quality Report
Cherokee County Landfill - Open & Closed MSWLF Units
Permit No. 18-SDP-01-75P

Compliance with:	2022	2023	2024	2025	2026
567 IAC 113.10(2)"f"(1) high and low water levels (biennial)	Completed	Completed	Included	Scheduled	Scheduled
567 IAC 113.10(2)"f"(2) changes in the hydrologic setting and flow paths (biennial)	Completed	Completed	Included	Scheduled	Scheduled
567 IAC 113.10(2)"f"(3) well depths (annual or every 5 years for wells with dedicated sampling pumps)	Completed	Completed	Included	Scheduled	Scheduled
567 IAC 113.10(2)"f"(4) well recharge rates and chemistry (biennial)	Completed		Included		Scheduled
Waste separation from ground water 113.6(2)"I"	Completed	Completed	Included	Scheduled	Scheduled

Notes:
* Verification of waste separation from groundwater is not required for cells A-1, A-2, A-3, and A-6 (Permit Amendment #13 (Doc #89223), 2016 AWQR (Doc #88165), Permit Revision dated January 20,201 (Doc #99582)). Separation data for Cells A-4 and A-5 is included in Table 4.

Table 4
Monitoring Well Performance and Maintenance Summary
2024 Annual Water Quality Report
Cherokee County Landfill - Open MSWLF Unit
Permit No. 18-SDP-01-75P

Well	Top of Casing	Top of Screen	Total Depth		Date of Measurements		Maximum Depth Discrepancy (ft)	Initial Flow Rate (L/min) Date	Recent Flow Rate (L/min) Date	% Change
					5/2024	10/2024				
Open MSWLF Unit										
MW-16	162.29	155.2	20.3	Groundwater Level (ft)	6.31	9.15	1.8	0.26 9/22/2016	0.18 10/23/2024	-33%
				Groundwater Elevation (Ft MSL)	155.98	153.14				
				Measured Well Depth (ft)	18.5	18.5				
				Submerged screen	Y	N				
MW-27	167.66	147.0	30.7	Groundwater Level (ft)	8.45	13.45	0.0	0.12 3/20/2017	0.18 10/24/2024	46%
				Groundwater Elevation (Ft MSL)	159.21	154.21				
				Measured Well Depth (ft)	30.7	30.8				
				Submerged screen	Y	Y				
MW-35	166.90	150.1	28.0	Groundwater Level (ft)	6.95	9.75	0.1	0.37 9/22/2016	0.17 10/24/2024	-55%
				Groundwater Elevation (Ft MSL)	159.95	157.15				
				Measured Well Depth (ft)	28.0	27.9				
				Submerged screen	Y	Y				
MW-42R	158.89	135.7	33.3	Groundwater Level (ft)	18.10	15.77	0.7	0.08 9/22/2016	0.17 10/24/2024	109%
				Groundwater Elevation (Ft MSL)	140.79	143.12				
				Measured Well Depth (ft)	32.6	32.6				
				Submerged screen	Y	Y				

Measured well depths were within one foot of the installed depths with the exception of monitoring well MW-16. The measured well depth for MW-16 has been consistent for several years. As the monitoring well produced samples, it appears siltation is not affecting the functionality of the wells.

The groundwater levels at groundwater piezometers GWPZ-A4 and GWPZ-A5 and monitoring well MW-16 were used to gauge separation in Cells A-4 and A-5. A groundwater underdrain was not required for Cell A-6 (Doc #99582).

Well		Date of Measurements	
		5/2024	10/2024
GWPZ-A4	Bottom of waste (feet above site datum)	171	
	Groundwater Elevation (feet above site datum)	<165.6 (dry)	<165.6 (dry)
	Separation distance (feet)	>5.39	>5.39
GWPZ-A5	Bottom of waste (feet above site datum)	171	
	Groundwater Elevation (feet above site datum)	<167.2 (dry)	<167.2 (dry)
	Separation distance (feet)	>3.75	>3.75
MW-16	Bottom of waste (feet above site datum)	166	
	Groundwater Elevation (feet above site datum)	155.98	153.14
	Separation distance (feet)	10.02	12.86

Table 4
Monitoring Well Performance and Maintenance Summary
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Cherokee County Landfill - Closed MSWLF Unit
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Well	Top of Casing	Top of Screen	Total Depth		Date of Measurements 5/2024	Date of Measurements 10/2024	Maximum Depth Discrepancy (ft)	Initial Flow Rate (L/min) Date	Recent Flow Rate (L/min) Date	% Change
Closed MSWLF Unit										
MW-11	173.93	138.9	42.1	Groundwater Level (ft)	15.63	NM	0.9	0.90 9/22/2016	0.21 5/30/2024	-77%
				Groundwater Elevation (Ft MSL)	158.30	NA				
				Measured Well Depth (ft)	41.2	NM				
				Submerged screen	Y	NA				
MW-7	101.86	86.9	50.4	Groundwater Level (ft)	11.69	NM	-0.3	0.10 3/20/2017	0.18 5/30/2024	75%
				Groundwater Elevation (Ft MSL)	90.17	NA				
				Measured Well Depth (ft)	50.7	NM				
				Submerged screen	Y	NA				
MW-9R	76.00	33.9	52.1	Groundwater Level (ft)	27.10	NM	4.3	0.15 9/22/2016	0.17 5/30/2024	15%
				Groundwater Elevation (Ft MSL)	48.90	NA				
				Measured Well Depth (ft)	47.8	NM				
				Submerged screen	Y	NA				
MW-10R	97.58	81.9	20.7	Groundwater Level (ft)	10.00	NM	1.6	0.07 9/22/2016	0.17 5/30/2024	-100%
				Groundwater Elevation (Ft MSL)	87.58	NA				
				Measured Well Depth (ft)	19.1	NM				
				Submerged screen	Y	NA				
MW-12	143.15	135.2	22.7	Groundwater Level (ft)	7.42	NM	0.4	0.06 9/22/2016	0.18 5/30/2024	205%
				Groundwater Elevation (Ft MSL)	135.73	NA				
				Measured Well Depth (ft)	22.3	NM				
				Submerged screen	Y	NA				
MW-13R	172.96	161.6	26.3	Groundwater Level (ft)	15.16	NM	-0.1	0.08 9/22/2016	0.14 5/30/2024	76%
				Groundwater Elevation (Ft MSL)	157.80	NA				
				Measured Well Depth (ft)	26.4	NM				
				Submerged screen	N	NA				
MW-14R	184.50	168.3	27.8	Groundwater Level (ft)	15.33	18.00	0.4	0.32 9/22/2016	0.23 5/29/2024	-29%
				Groundwater Elevation (Ft MSL)	169.17	166.50				
				Measured Well Depth (ft)	27.4	27.4				
				Submerged screen	Y	N				
MW-15R	180.22	171.9	23.3	Groundwater Level (ft)	7.74	12.97	0.0	0.10 9/22/2016	0.20 5/29/2024	100%
				Groundwater Elevation (Ft MSL)	172.48	167.25				
				Measured Well Depth (ft)	23.3	23.4				
				Submerged screen	Y	N				
MW-39	189.40	172.4	27.0	Groundwater Level (ft)	14.91	19.89	-0.6	0.50 9/22/2016	0.19 5/29/2024	-62%
				Groundwater Elevation (Ft MSL)	174.49	169.51				
				Measured Well Depth (ft)	27.6	27.6				
				Submerged screen	Y	N				
MW-15C	172.66	NA	27.0	Groundwater Level (ft)	5.78	9.30	0.0	0.16 9/16/2021	0.14 5/29/2024	-13%
				Groundwater Elevation (Ft MSL)	166.88	163.36				
				Measured Well Depth (ft)	27.0	27.0				
				Submerged screen	NA	NA				
MW-44	166.38	144.3	42.1	Groundwater Level (ft)	5.28	4.72	4.1	0.18 9/15/2021	0.19 5/29/2024	10%
				Groundwater Elevation (Ft MSL)	161.10	161.66				
				Measured Well Depth (ft)	38.0	38.2				
				Submerged screen	Y	Y				

Measured well depths were within 2.1 of the installed depths with the following exceptions:
Monitoring well MW-44 is a newer well, and it is unknown why the measured depth is significantly shallower than the installed depth.
Monitoring well MW-39 had a measured depth 4.3 feet shallower than the installed depth. A verification measurement will be made during the 1st 2025 semi-annual sampling event.
As the monitoring wells produced samples during the 2024 sampling events, it appears siltation is not affecting the functionality of the monitoring wells.

Table 5
Background and GWPS Summary Tables
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Cherokee County Landfill - Open & Closed MSWLF Units
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Interwell Background/GWPS Closed MSWLF Unit (MW-1, MW-4, and MW-11)

Constituent	Units	Samples	Detections	Min	Max	Mean	Background Level	Statistical Test	GWPS	Source
Antimony (Sb)	mg/L	80	5	0.000194*	0.005 (1/2 RL)	0.00120	0.005	PL (NP)	0.006	MCL
Arsenic (As)	mg/L	81	7	0.000337*	0.0064	0.00175	0.0064	PL (NP)	0.01	MCL
Barium (Ba)	mg/L	82	68	0.0122	0.143	0.03684	0.1017	PL (P)	2	MCL
Beryllium (Be)	mg/L	80	0	0.0005 (1/2 RL)	0.01 (1/2 RL)	0.00139	< 0.02	DQR	< 0.02	SSS
Cadmium (Cd)	mg/L	80	39	0.000048*	0.0494	0.00173	0.0494	PL (NP)	0.0494	SSS
Chromium (Cr)	mg/L	80	9	0.000391*	0.014	0.00396	0.014	PL (NP)	0.1	MCL
Cobalt (Co)	mg/L	63	27	0.00003*	0.0074	0.00080	0.0074	PL (NP)	0.0074	SSS
Copper (Cu)	mg/L	80	21	0.000491*	0.0227	0.00376	0.0227	PL (NP)	1.3	MCL
Lead (Pb)	mg/L	82	32	0.000111*	0.0222	0.00258	0.0222	PL (NP)	0.0222	SSS
Nickel (Ni)	mg/L	82	48	0.0005 (1/2 RL)	0.044	0.00680	0.02815	PL (P)	0.1	SWS
Selenium (Se)	mg/L	80	24	0.001*	0.0188	0.00499	0.0188	PL (NP)	0.05	MCL
Silver (Ag)	mg/L	80	5	0.000043*	0.01 (1/2 RL)	0.00137	0.01	PL (NP)	0.1	SWS
Thallium (Tl)	mg/L	80	15	0.000026*	0.01 (1/2 RL)	0.00087	0.01	PL (NP)	0.01	SSS
Vanadium (V)	mg/L	80	15	0.000453*	0.05 (1/2 RL)	0.00890	0.05	PL (NP)	0.05	SSS
Zinc (Zn)	mg/L	80	37	0.004 (1/2 RL)	1.3	0.03498	1.3	PL (NP)	2	SWS

Intrawell Background/GWPS Closed MSWLF Unit (MW-15C)

Constituent	Units	Samples	Detections	Min	Max	Mean	Background Level	Statistical Test	GWPS	Source
Antimony (Sb)	mg/L	8	0	0.001 (1/2 RL)	0.001 (1/2 RL)	0.00100	< 0.002	DQR	0.006	MCL
Arsenic (As)	mg/L	16	0	0.001 (1/2 RL)	0.002 (1/2 RL)	0.00119	< 0.004	DQR	0.01	MCL
Barium (Ba)	mg/L	14	14	0.0774	0.711	0.15498	0.711	PL (NP)	2	MCL
Beryllium (Be)	mg/L	8	0	0.0005 (1/2 RL)	0.002 (1/2 RL)	0.00106	< 0.004	DQR	0.004	MCL
Cadmium (Cd)	mg/L	8	6	0.00005 (1/2 RL)	0.007	0.00184	0.01272	PL (P)	0.01272	SSS
Chromium (Cr)	mg/L	8	0	0.0025 (1/2 RL)	0.004 (1/2 RL)	0.00306	< 0.008	DQR	0.1	MCL
Cobalt (Co)	mg/L	17	15	0.000056*	0.002 (1/2 RL)	0.00054	0.002712	PL (P)	0.002712	SSS
Copper (Cu)	mg/L	8	0	0.002 (1/2 RL)	0.0025 (1/2 RL)	0.00231	< 0.005	DQR	1.3	MCL
Lead (Pb)	mg/L	8	0	0.00025 (1/2 RL)	0.002 (1/2 RL)	0.00091	< 0.004	DQR	0.015	MCL
Nickel (Ni)	mg/L	11	11	0.00449*	0.0145	0.00784	0.01417	PL (P)	0.1	SWS
Selenium (Se)	mg/L	8	0	0.002 (1/2 RL)	0.0025 (1/2 RL)	0.00231	< 0.005	DQR	0.05	MCL
Silver (Ag)	mg/L	8	0	0.0005 (1/2 RL)	0.002 (1/2 RL)	0.00106	< 0.004	DQR	0.1	SWS
Thallium (Tl)	mg/L	8	0	0.0005 (1/2 RL)	0.002 (1/2 RL)	0.00106	< 0.004	DQR	0.002	MCL
Vanadium (V)	mg/L	8	0	0.0025 (1/2 RL)	0.01 (1/2 RL)	0.00531	< 0.02	DQR	0.035	SWS
Zinc (Zn)	mg/L	8	2	0.004 (1/2 RL)	0.0426	0.01343	0.0426	PL (NP)	2	SWS

Intrawell Background/GWPS Closed MSWLF Unit (MW-44)

Constituent	Units	Samples	Detections	Min	Max	Mean	Background Level	Statistical Test	GWPS	Source
Antimony (Sb)	mg/L	5	0	0.001 (1/2 RL)	0.001 (1/2 RL)	0.00100	< 0.002	DQR	0.006	MCL
Arsenic (As)	mg/L	7	6	0.001 (1/2 RL)	0.0132	0.00704	0.02119	PL (P)	0.02119	SSS
Barium (Ba)	mg/L	7	7	0.0185	0.0393	0.02500	0.04824	PL (P)	2	MCL
Beryllium (Be)	mg/L	5	0	0.0005 (1/2 RL)	0.0005 (1/2 RL)	0.00050	< 0.001	DQR	0.004	MCL
Cadmium (Cd)	mg/L	5	0	0.00005 (1/2 RL)	0.0001 (1/2 RL)	0.00006	< 2e-04	DQR	0.005	MCL
Chromium (Cr)	mg/L	5	0	0.0025 (1/2 RL)	0.0025 (1/2 RL)	0.00250	< 0.005	DQR	0.1	MCL
Cobalt (Co)	mg/L	7	7	0.000345*	0.00442	0.00156	0.005843	PL (P)	0.005843	SSS
Copper (Cu)	mg/L	5	0	0.0025 (1/2 RL)	0.0025 (1/2 RL)	0.00250	< 0.005	DQR	1.3	MCL
Lead (Pb)	mg/L	5	0	0.00025 (1/2 RL)	0.00025 (1/2 RL)	0.00025	< 5e-04	DQR	0.015	MCL
Nickel (Ni)	mg/L	5	1	0.00201*	0.0025 (1/2 RL)	0.00240	0.0025	PL (NP)	0.1	SWS
Selenium (Se)	mg/L	5	0	0.0025 (1/2 RL)	0.0025 (1/2 RL)	0.00250	< 0.005	DQR	0.05	MCL
Silver (Ag)	mg/L	5	0	0.0005 (1/2 RL)	0.0005 (1/2 RL)	0.00050	< 0.001	DQR	0.1	SWS
Thallium (Tl)	mg/L	5	0	0.0005 (1/2 RL)	0.0005 (1/2 RL)	0.00050	< 0.001	DQR	0.002	MCL
Vanadium (V)	mg/L	5	0	0.0025 (1/2 RL)	0.0025 (1/2 RL)	0.00250	< 0.005	DQR	0.035	SWS
Zinc (Zn)	mg/L	5	0	0.01 (1/2 RL)	0.01 (1/2 RL)	0.01000	< 0.02	DQR	2	SWS

Table 5
Background and GWPS Summary Tables
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Intrawell Background/GWPS Open MSWLF Unit (GWD-2)

Constituent	Units	Samples	Detections	Min	Max	Mean	Background Level	Statistical Test	GWPS	Source
Antimony (Sb)	mg/L	5	0	0.0005 (1/2 RL)	0.001 (1/2 RL)	0.00060	< 0.002	DQR	0.006	MCL
Arsenic (As)	mg/L	5	4	0.001 (1/2 RL)	0.0334	0.01097	0.07409	PL (P)	0.07409	SSS
Barium (Ba)	mg/L	5	5	0.216	2.04	0.91400	5.524	PL (P)	5.524	SSS
Beryllium (Be)	mg/L	5	1	0.000076*	0.0005 (1/2 RL)	0.00042	0.0005	PL (NP)	0.004	MCL
Cadmium (Cd)	mg/L	5	3	0.00005 (1/2 RL)	0.00145	0.00060	0.003115	PL (P)	0.005	MCL
Chromium (Cr)	mg/L	5	1	0.000809*	0.0025 (1/2 RL)	0.00216	0.0025	PL (NP)	0.1	MCL
Cobalt (Co)	mg/L	5	5	0.000068*	0.015	0.00581	0.03518	PL (P)	0.03518	SSS
Copper (Cu)	mg/L	5	4	0.000706*	0.00455*	0.00262	0.01047	PL (P)	1.3	MCL
Lead (Pb)	mg/L	5	3	0.00025 (1/2 RL)	0.00168	0.00074	0.003501	PL (P)	0.015	MCL
Nickel (Ni)	mg/L	5	5	0.00157*	0.0276	0.01751	0.06688	PL (P)	0.1	SWS
Selenium (Se)	mg/L	5	2	0.000661*	0.0025 (1/2 RL)	0.00187	0.0025	PL (NP)	0.05	MCL
Silver (Ag)	mg/L	5	0	0.0005 (1/2 RL)	0.0005 (1/2 RL)	0.00050	< 0.001	DQR	0.1	SWS
Thallium (Tl)	mg/L	5	0	0.0005 (1/2 RL)	0.0005 (1/2 RL)	0.00050	< 0.001	DQR	0.002	MCL
Vanadium (V)	mg/L	5	4	0.000575*	0.00303*	0.00215	0.006855	PL (P)	0.035	SWS
Zinc (Zn)	mg/L	5	2	0.005 (1/2 RL)	0.0108*	0.00765	0.0108	PL (NP)	2	SWS

Intrawell Background/GWPS Open MSWLF Unit (MW-16)

Constituent	Units	Samples	Detections	Min	Max	Mean	Background Level	Statistical Test	GWPS	Source
Antimony (Sb)	mg/L	19	0	0.0005 (1/2 RL)	0.0015 (1/2 RL)	0.00076	< 0.003	DQR	0.006	MCL
Arsenic (As)	mg/L	19	1	0.000415*	0.001 (1/2 RL)	0.00094	0.001	PL (NP)	0.01	MCL
Barium (Ba)	mg/L	19	19	0.245	0.377	0.30826	0.3962	PL (P)	2	MCL
Beryllium (Be)	mg/L	19	1	0.0002735*	0.0005 (1/2 RL)	0.00049	0.0005	PL (NP)	0.004	MCL
Cadmium (Cd)	mg/L	19	7	0.00005 (1/2 RL)	0.0002835	0.00015	0.0002835	PL (NP)	0.005	MCL
Chromium (Cr)	mg/L	19	0	0.0025 (1/2 RL)	0.0025 (1/2 RL)	0.00250	< 0.005	DQR	0.1	MCL
Cobalt (Co)	mg/L	19	15	0.000099*	0.0005 (1/2 RL)	0.00025	0.0004544	PL (P)	0.0021	SWS
Copper (Cu)	mg/L	18	3	0.000517*	0.0025 (1/2 RL)	0.00213	0.0025	PL (NP)	1.3	MCL
Lead (Pb)	mg/L	19	6	0.000135*	0.000478*	0.00027	0.000478	PL (NP)	0.015	MCL
Nickel (Ni)	mg/L	19	19	0.00348*	0.01275	0.00790	0.01394	PL (P)	0.1	SWS
Selenium (Se)	mg/L	19	0	0.00125 (1/2 RL)	0.0025 (1/2 RL)	0.00237	< 0.005	DQR	0.05	MCL
Silver (Ag)	mg/L	19	1	0.00025 (1/2 RL)	0.000752*	0.00049	0.000752	PL (NP)	0.1	SWS
Thallium (Tl)	mg/L	19	1	0.000029*	0.001 (1/2 RL)	0.00053	0.001	PL (NP)	0.002	MCL
Vanadium (V)	mg/L	19	2	0.0002975*	0.0025 (1/2 RL)	0.00235	0.0025	PL (NP)	0.035	SWS
Zinc (Zn)	mg/L	19	1	0.005 (1/2 RL)	0.01 (1/2 RL)	0.00879	0.01	PL (NP)	2	SWS

Intrawell Background/GWPS Open MSWLF Unit (MW-27)

Constituent	Units	Samples	Detections	Min	Max	Mean	Background Level	Statistical Test	GWPS	Source
Antimony (Sb)	mg/L	14	1	0.000388*	0.0015 (1/2 RL)	0.00078	0.0015	PL (NP)	0.006	MCL
Arsenic (As)	mg/L	14	1	0.000425*	0.001 (1/2 RL)	0.00096	0.001	PL (NP)	0.01	MCL
Barium (Ba)	mg/L	14	14	0.0323	0.0379	0.03420	0.03802	PL (P)	2	MCL
Beryllium (Be)	mg/L	14	0	0.0005 (1/2 RL)	0.0005 (1/2 RL)	0.00050	< 0.001	DQR	0.004	MCL
Cadmium (Cd)	mg/L	14	0	0.00005 (1/2 RL)	0.00025 (1/2 RL)	0.00013	< 5e-04	DQR	0.005	MCL
Chromium (Cr)	mg/L	14	2	0.000737*	0.0025 (1/2 RL)	0.00225	0.0025	PL (NP)	0.1	MCL
Cobalt (Co)	mg/L	14	4	0.000046*	0.0005 (1/2 RL)	0.00024	0.0005	PL (NP)	0.0021	SWS
Copper (Cu)	mg/L	14	1	0.00102*	0.0025 (1/2 RL)	0.00239	0.0025	PL (NP)	1.3	MCL
Lead (Pb)	mg/L	14	1	0.000239*	0.00025 (1/2 RL)	0.00025	0.00025	PL (NP)	0.015	MCL
Nickel (Ni)	mg/L	14	0	0.001 (1/2 RL)	0.0025 (1/2 RL)	0.00239	< 0.005	DQR	0.1	SWS
Selenium (Se)	mg/L	14	0	0.00125 (1/2 RL)	0.0025 (1/2 RL)	0.00241	< 0.005	DQR	0.05	MCL
Silver (Ag)	mg/L	14	0	0.00025 (1/2 RL)	0.0005 (1/2 RL)	0.00048	< 0.001	DQR	0.1	SWS
Thallium (Tl)	mg/L	14	0	0.0005 (1/2 RL)	0.001 (1/2 RL)	0.00054	< 0.002	DQR	0.002	MCL
Vanadium (V)	mg/L	14	6	0.000674*	0.0025 (1/2 RL)	0.00188	0.0025	PL (NP)	0.035	SWS
Zinc (Zn)	mg/L	14	0	0.01 (1/2 RL)	0.01 (1/2 RL)	0.01000	< 0.02	DQR	2	SWS

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Intrawell Background/GWPS Open MSWLF Unit (MW-35)

Constituent	Units	Samples	Detections	Min	Max	Mean	Background Level	Statistical Test	GWPS	Source
Antimony (Sb)	mg/L	25	7	0.0004655*	0.0034	0.00108	0.004	PL (NP)	0.006	MCL
Arsenic (As)	mg/L	28	16	0.0006945*	0.0116	0.00298	0.0116	PL (NP)	0.0116	SSS
Barium (Ba)	mg/L	28	27	0.01685	0.1	0.03024	0.1	PL (NP)	2	MCL
Beryllium (Be)	mg/L	28	0	0.0005 (1/2 RL)	0.002 (1/2 RL)	0.00090	< 0.004	DQR	0.004	MCL
Cadmium (Cd)	mg/L	28	7	0.00005 (1/2 RL)	0.0004 (1/2 RL)	0.00020	0.0004	PL (NP)	0.005	MCL
Chromium (Cr)	mg/L	28	2	0.000441*	0.005 (1/2 RL)	0.00302	0.005	PL (NP)	0.1	MCL
Cobalt (Co)	mg/L	25	25	0.000683	0.0505	0.01373	0.05224	PL (P)	0.05224	SSS
Copper (Cu)	mg/L	29	4	0.00131*	0.0212	0.00342	0.0212	PL (NP)	1.3	MCL
Lead (Pb)	mg/L	28	4	0.000126*	0.002 (1/2 RL)	0.00067	0.002	PL (NP)	0.015	MCL
Nickel (Ni)	mg/L	28	26	0.0005 (1/2 RL)	0.227	0.05247	0.1929	PL (P)	0.1929	SSS
Selenium (Se)	mg/L	28	1	0.00125 (1/2 RL)	0.00288*	0.00236	0.00288	PL (NP)	0.05	MCL
Silver (Ag)	mg/L	28	0	0.00025 (1/2 RL)	0.004 (1/2 RL)	0.00091	< 0.008	DQR	0.1	SWS
Thallium (Tl)	mg/L	28	3	0.000045*	0.002 (1/2 RL)	0.00068	0.002	PL (NP)	0.002	MCL
Vanadium (V)	mg/L	28	6	0.00107*	0.01 (1/2 RL)	0.00513	0.01	PL (NP)	0.035	SWS
Zinc (Zn)	mg/L	29	7	0.004 (1/2 RL)	0.147	0.01584	0.147	PL (NP)	2	SWS

Intrawell Background/GWPS Open MSWLF Unit (MW-42R)

Constituent	Units	Samples	Detections	Min	Max	Mean	Background Level	Statistical Test	GWPS	Source
Antimony (Sb)	mg/L	11	5	0.001 (1/2 RL)	0.00423	0.00160	0.00423	PL (NP)	0.006	MCL
Arsenic (As)	mg/L	11	8	0.0008455*	0.00129	0.00102	0.001429	PL (P)	0.01	MCL
Barium (Ba)	mg/L	11	11	0.01905	0.0315	0.02443	0.03738	PL (P)	2	MCL
Beryllium (Be)	mg/L	11	1	0.000474*	0.0005 (1/2 RL)	0.00050	0.0005	PL (NP)	0.004	MCL
Cadmium (Cd)	mg/L	11	9	0.000058*	0.000389	0.00020	0.0004256	PL (P)	0.005	MCL
Chromium (Cr)	mg/L	11	1	0.00138*	0.0025 (1/2 RL)	0.00240	0.0025	PL (NP)	0.1	MCL
Cobalt (Co)	mg/L	12	12	0.003425	0.00819	0.00474	0.0081	PL (P)	0.0081	SSS
Copper (Cu)	mg/L	11	6	0.00219*	0.00905	0.00337	0.00905	PL (NP)	1.3	MCL
Lead (Pb)	mg/L	11	2	0.00025 (1/2 RL)	0.000635	0.00029	0.000635	PL (NP)	0.015	MCL
Nickel (Ni)	mg/L	11	11	0.0143	0.0469	0.02061	0.05051	PL (P)	0.1	SWS
Selenium (Se)	mg/L	11	8	0.00112*	0.0114	0.00393	0.01389	PL (P)	0.05	MCL
Silver (Ag)	mg/L	11	0	0.00025 (1/2 RL)	0.0005 (1/2 RL)	0.00048	< 0.001	DQR	0.1	SWS
Thallium (Tl)	mg/L	11	1	0.0005 (1/2 RL)	0.001 (1/2 RL)	0.00056	0.001	PL (NP)	0.002	MCL
Vanadium (V)	mg/L	11	7	0.00111*	0.0025 (1/2 RL)	0.00185	0.002226	PL (P)	0.035	SWS
Zinc (Zn)	mg/L	11	5	0.00651*	0.0191*	0.01111	0.0191	PL (NP)	2	SWS

Notes:
Background levels are the calculated prediction limits or one-half of the reporting limit, as applicable.
*- J flag; concentration is 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

1) Water quality results and effectiveness of the statistical data evaluation criteria: Statistical evaluations consist of prediction limits, double quantification rule, and confidence intervals/confidence bands, as appropriate. Data from the background wells is not used for development of the confidence intervals or confidence bands.
2) Changes to the previous statistical method during reporting period: There were no changes to the statistical method during the 2024 reporting period.
3) Re-sampling strategy: Retesting is performed using a 1-of-2 scheme.

Table 6
Summary of Well/Detected Constituent Pairs With No Previous SSIs
2024 Annual Water Quality Report
Cherokee County Landfill - Open and Closed MSWLF Units
Permit No. 18-SDP-01-75P

Well	Constituent	Units	Most recent result	Background Standard
Open MSWLF Unit				
None				
Closed MSWLF Unit				
MW-9R	Cobalt	mg/L	0.00741	0.0074
MW-10R	Barium	mg/L	0.121	0.1017
MW-12	Arsenic	mg/L	0.0217	0.0064
	Barium	mg/L	0.678	0.1017
	Cobalt	mg/L	0.00975	0.0074
MW-13R	Barium	mg/L	0.37795*	0.1017
	Chlorobenzene	µg/L	1.58*	<1

Comments:
This table represents constituent/well pairs with indicated SSIs during the 2024 reporting period that did not have indicated SSIs during the 2023 reporting period.

* - Duplicate sample monitoring well during this reporting period, the most recent result concentrations shown are an average of both samples obtained from the monitoring well.

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: None.

5) Resampling strategy: Retesting is performed on a 1-of-2 retesting scheme.

Table 7
Summary Table of Ongoing and Newly Identified SSIs
2024 Annual Water Quality Report
Cherokee County Landfill - Open & Closed MSWLF Units
Permit No. 18-SDP-01-75P

Well	Constituent	Units	Most recent result	Background Standard	Lower Confidence Limit	GWPS	Sample Dates		
							Initial Exceedance	Resample(s)	5th background sample
Open MSWLF Unit									
MW-16	None								
MW-27	None								
MW-35	None								
MW-42R	None								
GWD-2	None								
Closed MSWLF Unit									
MW-7	None								
MW-9R	Cobalt	mg/L	0.00741	0.0074	0.002998	0.0074	5/29/2024	NA	3/25/2014
MW-10R	Barium	mg/L	0.121	0.1017	0.0887	2	5/29/2024	NA	10/1/2010
MW-12	Arsenic	mg/L	0.0217	0.0064	0.0008915	0.01	5/29/2024	NA	10/1/2010
	Barium	mg/L	0.678	0.1017	0.0545	2	5/29/2024	NA	10/1/2010
	Cobalt	mg/L	0.00975	0.0074	0.000247	0.0074	5/29/2024	NA	9/30/2014
MW-13R	Barium	mg/L	0.37795*	0.1017	0.06761	2	5/29/2024	NA	10/1/2024
	Chlorobenzene	µg/L	1.58*	<1	0.6498	100	5/29/2024	NA	10/1/2024
MW-15C	None								
MW-44	None								

Comments:

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

* - Duplicate sample monitoring well during this reporting period, the most recent result concentrations shown are an average of both samples obtained from the monitoring well.

TS - Theil-Sen. Due to a statistically significant trend, Thiel-Sen confidence band analysis was performed in lieu of confidence intervals; therefore, a lower confidence limit is unavailable.

NA - Not Applicable; Monitoring well is in assessment monitoring and does not require a resample.

1) Problems with the current assessment network: None.

2) Proposed remedies: Not applicable.

3) Alternative constituent or sample frequency changes: None.

4) Plume delineation strategies: Not applicable.

5) Property owner notifications: Not applicable.

Table 8
Summary Table of Ongoing and Newly Identified SSLs
2024 Annual Water Quality Report
Cherokee County Landfill - Open and Closed MSWLF Units
Permit No. 18-SDP-01-75P

Well	Constituent	Units	Most recent result	Upper Confidence Limit	GWPS	Initial Exceedance	Upper Confidence Limit Below GWPS[1]					
							1st Year		2nd Year		3rd Year	
Open MSWLF Unit												
None												
Closed MSWLF Unit												
None												

Table 9
Summary of Groundwater Chemistry
2024 Annual Water Quality Report
Cherokee County Landfill - Open and Closed MSWLF Units
Permit No. 18-SDP-01-75P

The Summary of Groundwater Chemistry for the Closed MSWLF unit is located in Appendix C-1.
The Summary of Groundwater Chemistry for the Open MSWLF unit is located in Appendix C-2.

Table 10
Historical SSI and SSL
2024 Annual Water Quality Report
Cherokee County Landfill - Open and Closed MSWLF Units
Permit No. 18-SDP-01-75P

Key

SSI - Statistically Significant Increase above background

SSL - Statistically Significant Level above groundwater protection standard

Well	Constituent	Spring 2018	Fall 2018	Spring 2019	Fall 2019	Spring 2020	Fall 2020	Spring 2021	Fall 2021	Spring 2022	Fall 2022	Spring 2023	Fall 2023	Spring 2024	Fall 2024
Open MSWLF Unit															
MW-16	None														
MW-27	None														
MW-35	None														
MW-42R	Toluene														
GWD-2	None														
Closed MSWLF Unit															
MW-7	Trichloroethene										NS		NS		NS
	cis-1,2-Dichloroethene										NS		NS		NS
MW-9R	Cobalt														NS
	Acrylonitrile									NS			NS		NS
	Carbon Disulfide									NS			NS		NS
	Styrene									NS			NS		NS
	Sulfide									NS			NS		NS
MW-10R	Barium														NS
	cis-1,2-Dichloroethene										NS		NS		NS
MW-12	Arsenic														NS
	Barium														NS
	Cobalt														NS
MW-13R	Barium														NS
	1,1-Dichloroethane										NS		NS		NS
	Acetone										NS		NS		NS
	Chlorobenzene										NS		NS		NS
MW-14R*	Cobalt														
MW-15R*	Arsenic														
	Cobalt														
MW-39*	Arsenic														
	Barium														
	Cobalt														
	Nickel														
	Vinyl Chloride														
MW-15C	None														
MW-44	None														

Comments:

Indicated SSIs during this reporting period occurred in monitoring wells in the assessment monitoring program and do not require a resample.

NS - Not Sampled. The monitoring well is sampled on an annual frequency beginning with the 2022 reporting period.

A detection of a VOC is considered an SSI for the purposes of this table.

* - Monitoring well was converted to a source characterization monitoring well on May 16, 2022 (Doc #103224).

Table 11
Corrective Action Trend Analysis
2024 Annual Water Quality Report
Cherokee County Landfill - Open and Closed MSWLF Units
Permit No. 18-SDP-01-75P

Statistically Significant Trends in Source Wells
None

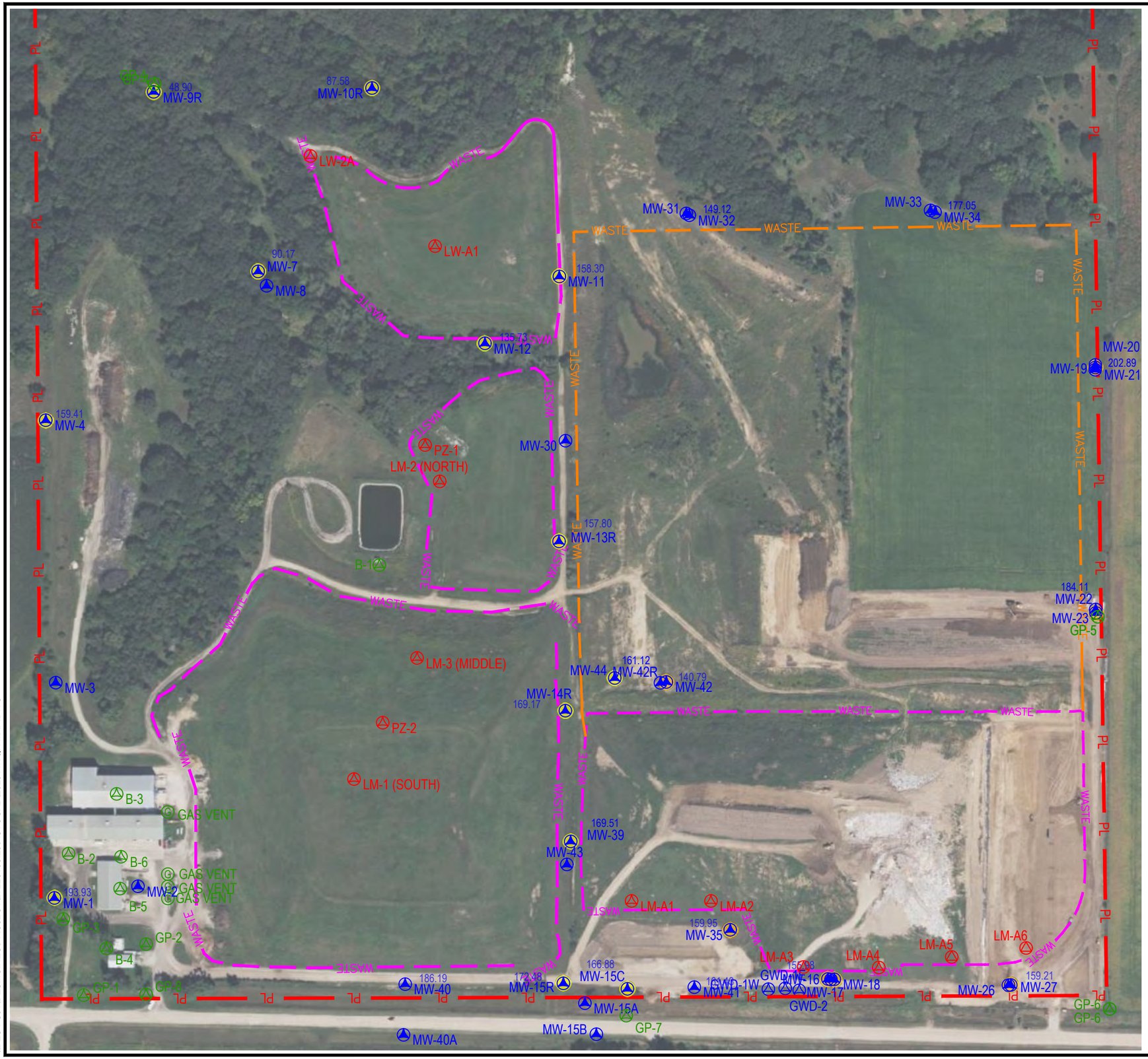
Overall Trends of Detected Appendix I Constituents in Source Wells

	MW-14R	**MW-15R**	**MW-39**	**Total**
Increasing (S = >0):	3	4	3	10
Decreasing (S = ≤0):	5	6	9	20

Over two-thirds of the trends are stable or decreasing.
A summary table and graphs are included in Appendix H.

Notes:
S - Mann-Kendall Statistic

Figures



LEGEND

- MW-4C — HMSP MONITORING WELL - CLOSED UNIT
- MW-4C — HMSP MONITORING WELL - OPEN UNIT
- MW-4C — MONITORING WELL
- LFGW-1 — LANDFILL GAS WELL
- LPZ-1 — LEACHATE PIEZOMETER
- GV — GAS VENT
- CURRENT WASTE BOUNDARY
- FUTURE WASTE BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY

250 0 250

SCALE FEET

REV.	DATE	CK BY
	-	-
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	-	-
	-	-
	-	-

SHEET TITLE
APPROVED MONITORING NETWORK

PROJECT TITLE
CHEROKEE COUNTY SANITARY LANDFILL
2024 ANNUAL WATER QUALITY REPORT

CLIENT
CHEROKEE COUNTY SOLID WASTE COMMISSION
1805 LINDEN ST
CHEROKEE, IOWA

SCS ENGINEERS
1690 ALL STATE COURT, SUITE 100
WEST DES MOINES, IOWA 50265
(515) 631-6160

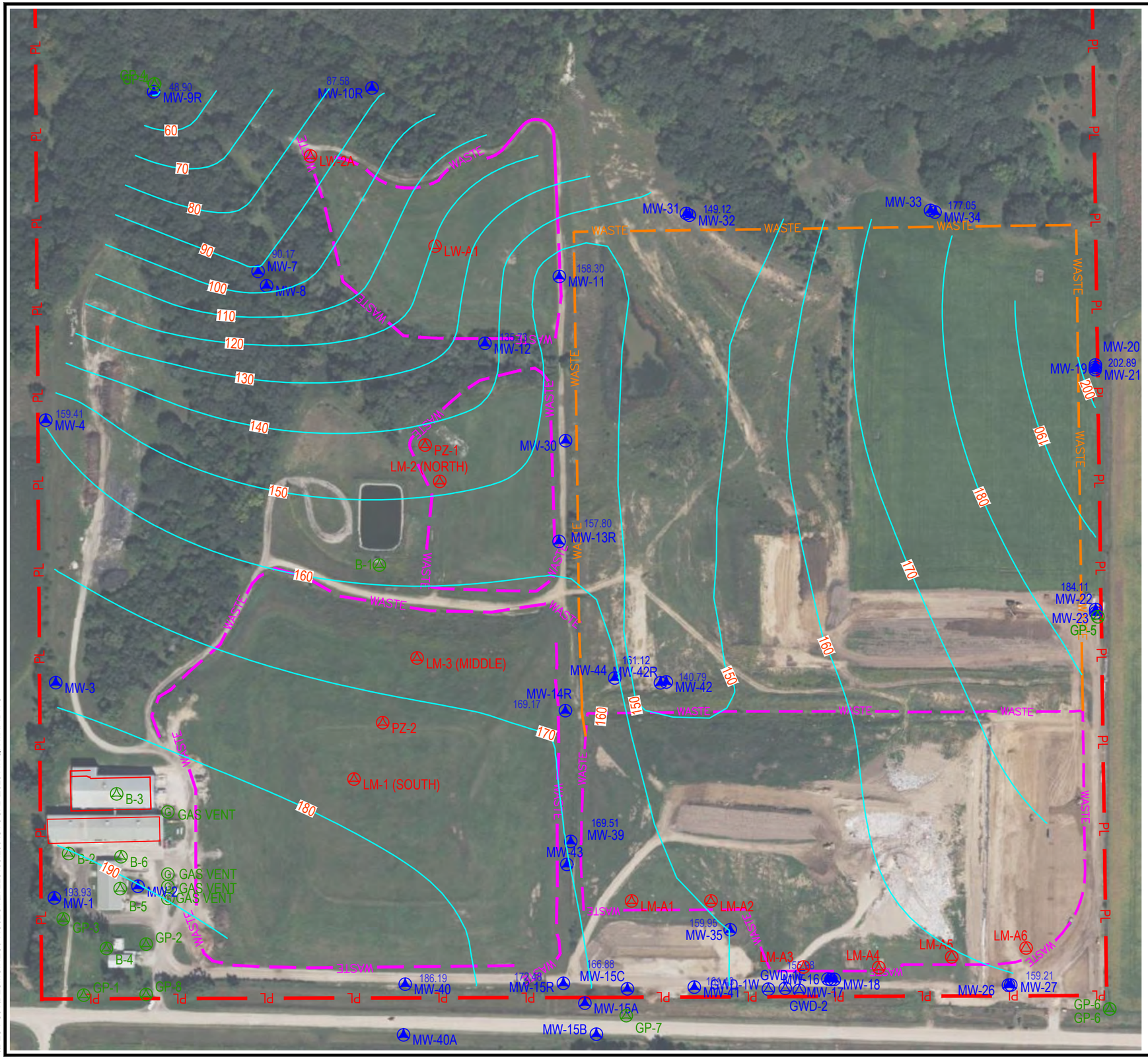
PROJ. NO. 27223105.25
DSN. BY: CJD
DWN. BY: CJD
CHK. BY: SAM
PROJ. MGR: NO

CADD FILE: 2025 AWQR MAP.DWG

DATE: 3/7/25

FIGURE NO. **1**

\\DES-FS01\DESMOINES\PROJECT\27223105.25\AUTOCAD\2025 AWQR MAP.DWG



LEGEND

- APPROXIMATE GROUNDWATER CONTOURS BASED ON FIELD MEASUREMENTS TAKEN MAY 2024
- MW-4C MONITORING WELL
- LFGW-1 LANDFILL GAS WELL
- LPZ-1 LEACHATE PIEZOMETER
- GV GAS VENT
- CURRENT WASTE BOUNDARY
- FUTURE WASTE BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY

250 0 250

SCALE FEET

REV.	DATE	CK BY
	-	-
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SHEET TITLE
GROUNDWATER CONTOURS

PROJECT TITLE
CHEROKEE COUNTY SANITARY LANDFILL
2024 ANNUAL WATER QUALITY REPORT

CLIENT
CHEROKEE COUNTY SOLID WASTE COMMISSION
1805 LINDEN ST
CHEROKEE, IOWA

SCS ENGINEERS
1690 ALL STATE COURT, SUITE 100
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(515) 631-6160

PROJ. NO.	DSN. BY:	CJD
27223105.25	DWN. BY:	SAM
	CHK. BY:	CJD
	PROJ. MGR.	NO

CADD FILE: 2025 AWQR MAP DWG

DATE: 3/7/25

FIGURE NO. **2**

\\DES-FS01\DESMOINES\PROJECT\27223105.25\AUTOCAD\2025 AWQR MAP.DWG

MW-10R	
Constituent (units)	Concentration
Arsenic (mg/L)	0.00399 (1/1)
Barium (mg/L)	0.121 (1/1)
Cobalt (mg/L)	0.00235 (1/1)
Lead (mg/L)	**0.000892 (1/1)**
Nickel (mg/L)	0.00777 (1/1)
Total Suspended Solids (mg/L)	**78 (1/1)**

MW-9R	
Constituent (units)	Concentration
Barium (mg/L)	0.0694 (1/1)
Cobalt (mg/L)	0.00741 (1/1)
Nickel (mg/L)	**0.0252 (1/1)**
Total Suspended Solids (mg/L)	6.75 (1/1)

MW-7	
Constituent (units)	Concentration
Barium (mg/L)	0.014 (1/1)
Total Suspended Solids (mg/L)	8.37 (1/1)

MW-11	
Constituent (units)	Concentration
Barium (mg/L)	0.0132 (1/1)
Total Suspended Solids (mg/L)	2.88 (1/1)

MW-12	
Constituent (units)	Concentration
Arsenic (mg/L)	0.0217 (1/1)
Barium (mg/L)	**0.678 (1/1)**
Cobalt (mg/L)	0.00975 (1/1)
Lead (mg/L)	0.000573 (1/1)
Nickel (mg/L)	0.0157 (1/1)
Total Suspended Solids (mg/L)	<1.88 (0/1)

MW-44	
Constituent (units)	Concentration
Arsenic (mg/L)	0.00971 - 0.0118 (2/2)
Barium (mg/L)	0.019 - 0.0193 (2/2)
Total Suspended Solids (mg/L)	48 - 54 (2/2)

MW-13R	
Constituent (units)	Concentration
Arsenic (mg/L)	**0.0547 (1/2)**
Barium (mg/L)	0.0839 - 0.672 (2/2)
Cobalt (mg/L)	**0.00232 - 0.0123 (2/2)**
Nickel (mg/L)	0.0104 - 0.0183 (2/2)
Chlorobenzene (ug/L)	**1.53 - 1.63 (2/2)**
Total Suspended Solids (mg/L)	2.63 - 3.5 (2/2)

MW-42R	
Constituent (units)	Concentration
Barium (mg/L)	0.0158 - 0.0177 (2/2)
Cobalt (mg/L)	0.00365 - 0.00535 (3/3)
Nickel (mg/L)	0.01 - 0.0136 (2/2)
Total Suspended Solids (mg/L)	2.25 (1/3)

GWD-2	
Constituent (units)	Concentration
Arsenic (mg/L)	**0.00698 (1/1)**
Barium (mg/L)	**0.336 (1/1)**
Cobalt (mg/L)	**0.00636 (1/1)**
Nickel (mg/L)	0.0216 (1/1)
Total Suspended Solids (mg/L)	11 (1/1)

MW-16	
Constituent (units)	Concentration
Barium (mg/L)	0.171 - 0.221 (2/2)
Nickel (mg/L)	0.00716 - 0.00784 (2/2)
Total Suspended Solids (mg/L)	5.75 (1/2)

MW-35	
Constituent (units)	Concentration
Barium (mg/L)	0.017 (1/1)
Cobalt (mg/L)	0.00329 (1/1)
Nickel (mg/L)	**0.0243 (1/1)**
Total Suspended Solids (mg/L)	5.63 (1/1)

MW-27	
Constituent (units)	Concentration
Barium (mg/L)	0.0315 - 0.0323 (4/4)
Total Suspended Solids (mg/L)	1.88 (1/4)

MW-15C	
Constituent (units)	Concentration
Barium (mg/L)	0.0842 - 0.0902 (2/2)
Nickel (mg/L)	0.00664 - 0.00705 (2/2)
Total Suspended Solids (mg/L)	2.88 (1/2)

LEGEND

- MW-4C MONITORING WELL
- LFGW-1 LANDFILL GAS WELL
- LPZ-1 LEACHATE PIEZOMETER
- GV GAS VENT
- CURRENT WASTE BOUNDARY
- FUTURE WASTE BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY

Maximum Concentration Summary		
Constituent	Monitoring Point	Maximum Concentration
Arsenic (mg/L)	MW-13R	0.0547
Barium (mg/L)	MW-12	0.678
Cobalt (mg/L)	MW-13R	0.0123
Lead (mg/L)	MW-10R	0.000892
Nickel (mg/L)	MW-9R	0.0252
Chlorobenzene (ug/L)	MW-13R	1.63

Maximum Concentration Summary		
Constituent	Monitoring Point	Maximum Concentration
Arsenic (mg/L)	GWD-2	0.00698
Barium (mg/L)	GWD-2	0.336
Cobalt (mg/L)	GWD-2	0.00636
Nickel (mg/L)	MW-35	0.0243

300 0 300

SCALE FEET

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SHEET TITLE
REPORTING PERIOD DECTECTION SUMMARY

PROJECT TITLE
CHEROKEE COUNTY SANITARY LANDFILL
2024 ANNUAL WATER QUALITY REPORT

CLIENT
CHEROKEE COUNTY SOLID WASTE COMMISSION
1805 LINDEN ST
CHEROKEE, IOWA

SCS ENGINEERS
1690 ALL STATE COURT, SUITE 100
WEST DES MOINES, IOWA 50265
(515) 631-6160

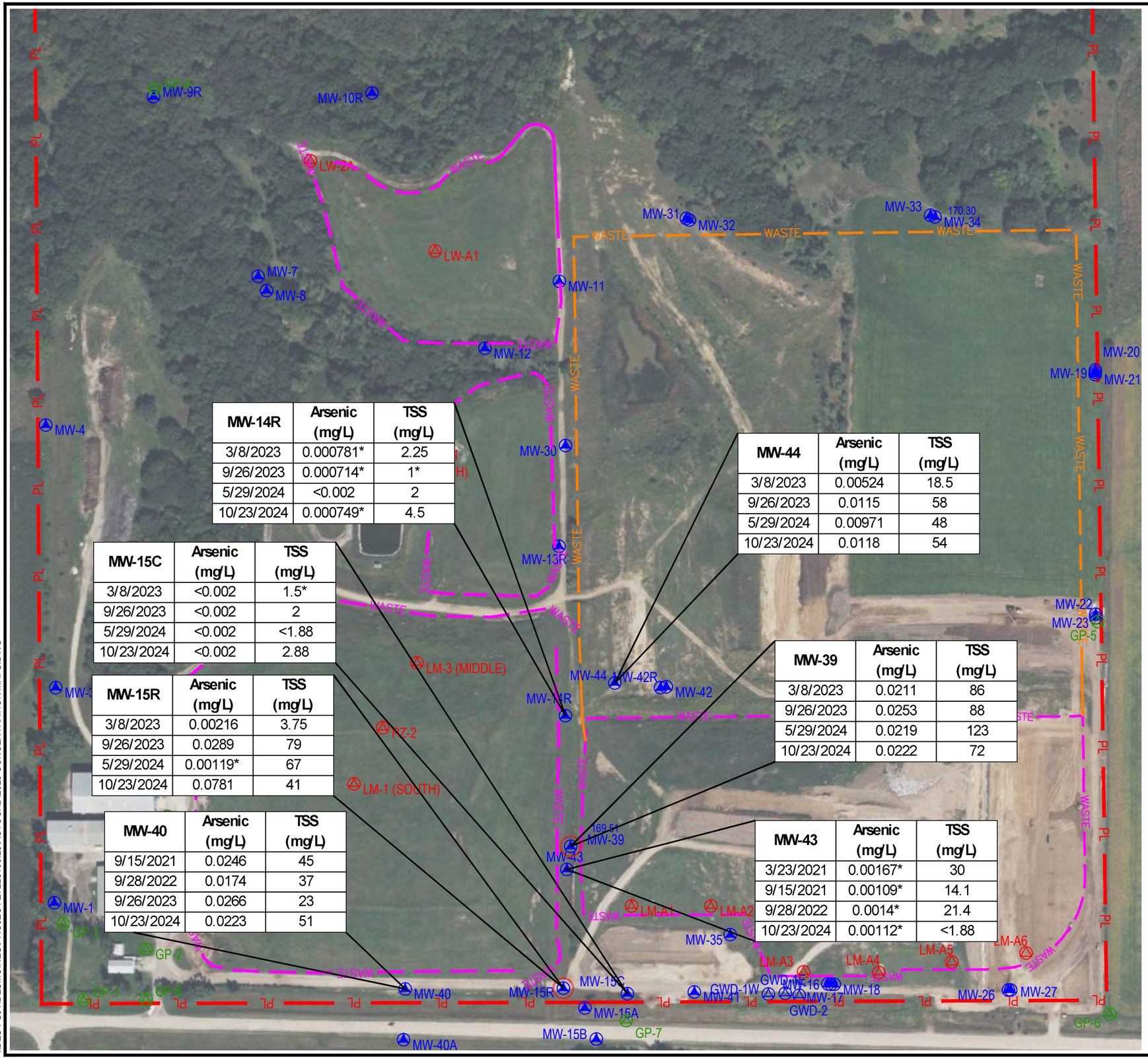
PROJ. NO. 27223105.25
DSN. BY: CJD
DWN. BY: CJD
CHK. BY: SAM
PROJ. MGR NO

CADD FILE: 2025 CONCENTRATION MAPS.DWG

DATE: 3/7/25

FIGURE NO. **3**

\\DES-FS01\DESMOINES\PROJECT\27223105.25\AUTOCAD\2025 CONCENTRATION MAPS.DWG



MW-14R	Arsenic (mg/L)	TSS (mg/L)
3/8/2023	0.000781*	2.25
9/26/2023	0.000714*	1*
5/29/2024	<0.002	2
10/23/2024	0.000749*	4.5

MW-44	Arsenic (mg/L)	TSS (mg/L)
3/8/2023	0.00524	18.5
9/26/2023	0.0115	58
5/29/2024	0.00971	48
10/23/2024	0.0118	54

MW-15C	Arsenic (mg/L)	TSS (mg/L)
3/8/2023	<0.002	1.5*
9/26/2023	<0.002	2
5/29/2024	<0.002	<1.88
10/23/2024	<0.002	2.88

MW-15R	Arsenic (mg/L)	TSS (mg/L)
3/8/2023	0.00216	3.75
9/26/2023	0.0289	79
5/29/2024	0.00119*	67
10/23/2024	0.0781	41

MW-39	Arsenic (mg/L)	TSS (mg/L)
3/8/2023	0.0211	86
9/26/2023	0.0253	88
5/29/2024	0.0219	123
10/23/2024	0.0222	72

MW-40	Arsenic (mg/L)	TSS (mg/L)
9/15/2021	0.0246	45
9/28/2022	0.0174	37
9/26/2023	0.0266	23
10/23/2024	0.0223	51

MW-43	Arsenic (mg/L)	TSS (mg/L)
3/23/2021	0.00167*	30
9/15/2021	0.00109*	14.1
9/28/2022	0.0014*	21.4
10/23/2024	0.00112*	<1.88

LEGEND

- MW-4C MONITORING WELL
- LFGW-1 LANDFILL GAS WELL
- LPZ-1 LEACHATE PIEZOMETER
- GV GAS VENT
- CURRENT WASTE BOUNDARY
- FUTURE WASTE BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- SSL WELL

ARSENIC PREDICTION LIMIT = 0.0064 mg/L

300 0 300

SCALE FEET

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	-	-
	-	-
	-	-
	-	-

SHEET TITLE: ARSENIC CONCENTRATION MAP

PROJECT TITLE: CHEROKEE COUNTY SANITARY LANDFILL 2024 ANNUAL WATER QUALITY REPORT

CLIENT: CHEROKEE COUNTY SOLID WASTE COMMISSION
1805 LINDEN ST
CHEROKEE, IOWA

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1690 ALL STATE COURT, SUITE 100
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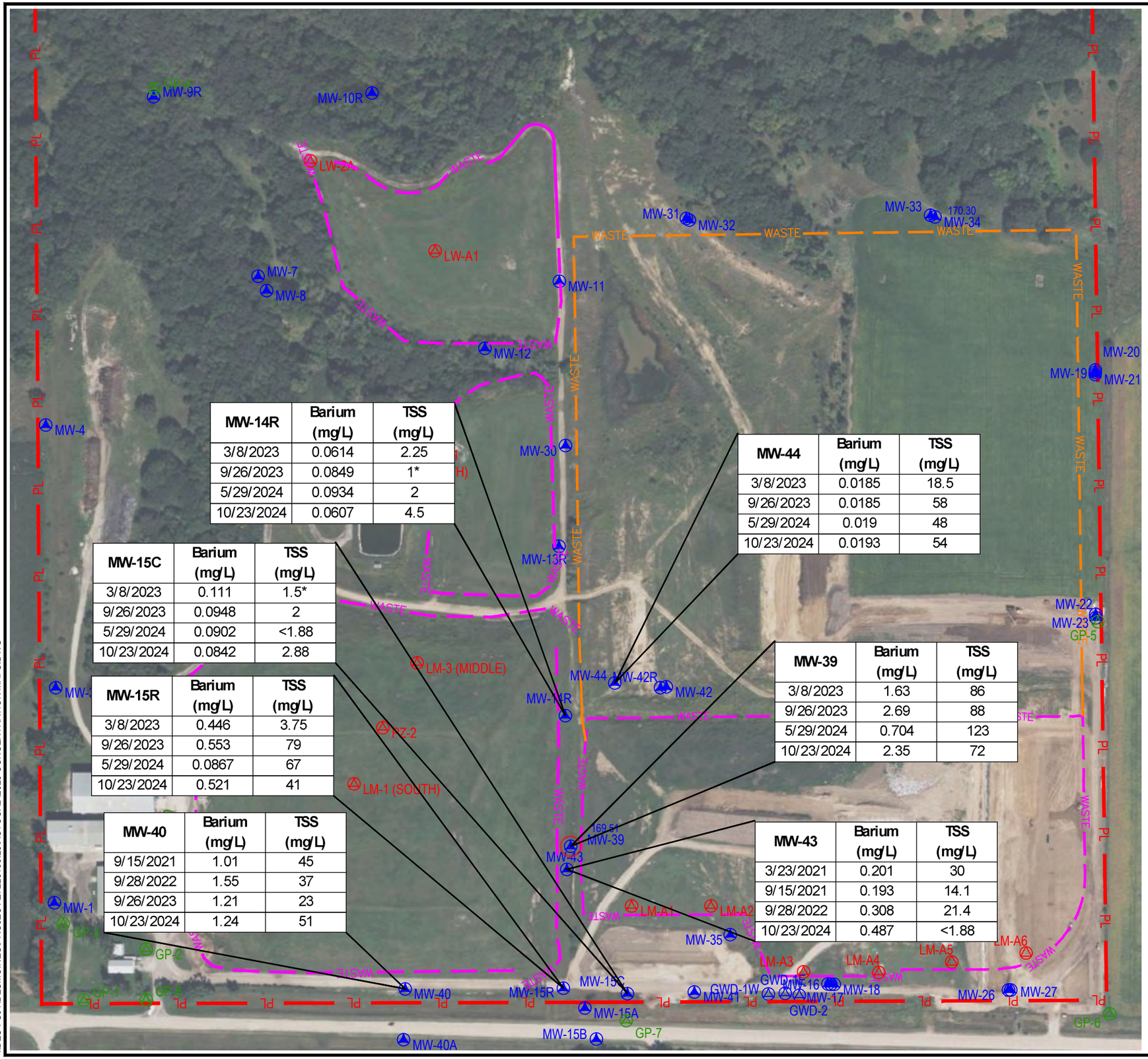
DWN. BY: CJD
CHK. BY: SAM
PROJ. MGR: NO
PROJ. NO: 27223105.25
DSN. BY: CJD

CADD FILE: 2025 CONCENTRATION MAPS.DWG

DATE: 3/7/25

FIGURE NO. 4

\\DES-FS01\DESMOINES\PROJECT\27223105.25\AUTOCAD\2025 CONCENTRATION MAPS.DWG



MW-14R	Barium (mg/L)	TSS (mg/L)
3/8/2023	0.0614	2.25
9/26/2023	0.0849	1*
5/29/2024	0.0934	2
10/23/2024	0.0607	4.5

MW-44	Barium (mg/L)	TSS (mg/L)
3/8/2023	0.0185	18.5
9/26/2023	0.0185	58
5/29/2024	0.019	48
10/23/2024	0.0193	54

MW-15C	Barium (mg/L)	TSS (mg/L)
3/8/2023	0.111	1.5*
9/26/2023	0.0948	2
5/29/2024	0.0902	<1.88
10/23/2024	0.0842	2.88

MW-39	Barium (mg/L)	TSS (mg/L)
3/8/2023	1.63	86
9/26/2023	2.69	88
5/29/2024	0.704	123
10/23/2024	2.35	72

MW-15R	Barium (mg/L)	TSS (mg/L)
3/8/2023	0.446	3.75
9/26/2023	0.553	79
5/29/2024	0.0867	67
10/23/2024	0.521	41

MW-40	Barium (mg/L)	TSS (mg/L)
9/15/2021	1.01	45
9/28/2022	1.55	37
9/26/2023	1.21	23
10/23/2024	1.24	51

MW-43	Barium (mg/L)	TSS (mg/L)
3/23/2021	0.201	30
9/15/2021	0.193	14.1
9/28/2022	0.308	21.4
10/23/2024	0.487	<1.88

LEGEND

- MW-4C MONITORING WELL
- LFGW-1 LANDFILL GAS WELL
- LPZ-1 LEACHATE PIEZOMETER
- GV GAS VENT
- CURRENT WASTE BOUNDARY
- FUTURE WASTE BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- SSL WELL

BARIUM PREDICTION LIMIT = 0.1017 mg/L

300 0 300

SCALE FEET

REV.	DATE	CK BY
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	-	-
	-	-
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	-	-
	-	-

SHEET TITLE
BARIUM CONCENTRATION MAP

PROJECT TITLE
CHEROKEE COUNTY SANITARY LANDFILL
2024 ANNUAL WATER QUALITY REPORT

CLIENT
CHEROKEE COUNTY SOLID WASTE COMMISSION
1805 LINDEN ST
CHEROKEE, IOWA

SCS ENGINEERS
1690 ALL STATE COURT, SUITE 100
WEST DES MOINES, IOWA 50265
(515) 631-6160

PROJ. NO.	DSN. BY:	DWN. BY:	CHK. BY:	PROJ. MGR
27223105.25	CJD	CJD	SAM	NO

CADD FILE: 2025 CONCENTRATION MAPS.DWG

DATE: 3/7/25

FIGURE NO. **5**

\\DES-FS01\DESMOINES\PROJECT\27223105.25\AUTOCAD\2025 CONCENTRATION MAPS.DWG

MW-14R	Cobalt (mg/L)	TSS (mg/L)
3/8/2023	0.0119	2.25
9/26/2023	0.00257	1*
5/29/2024	0.0009	2
10/23/2024	0.0146	4.5

MW-15C	Cobalt (mg/L)	TSS (mg/L)
3/8/2023	0.000397*	1.5*
9/26/2023	0.000711	2
5/29/2024	0.000172*	<1.88
10/23/2024	0.000301*	2.88

MW-15R	Cobalt (mg/L)	TSS (mg/L)
3/8/2023	0.00368	3.75
9/26/2023	0.0105	79
5/29/2024	0.0025	67
10/23/2024	0.0114	41

MW-40	Cobalt (mg/L)	TSS (mg/L)
9/15/2021	0.00166	45
9/28/2022	0.003	37
9/26/2023	0.00198	23
10/23/2024	0.00165	51

MW-44	Cobalt (mg/L)	TSS (mg/L)
3/8/2023	0.000584	18.5
9/26/2023	0.000345*	58
5/29/2024	0.000362*	48
10/23/2024	0.000294*	54

MW-39	Cobalt (mg/L)	TSS (mg/L)
3/8/2023	0.0411	86
9/26/2023	0.0152	88
5/29/2024	0.00978	123
10/23/2024	0.00637	72

MW-43	Cobalt (mg/L)	TSS (mg/L)
3/23/2021	0.000433*	30
9/15/2021	<0.0005	14.1
9/28/2022	0.000784	21.4
10/23/2024	0.000763	<1.88

LEGEND

- MW-4C MONITORING WELL
- LFGW-1 LANDFILL GAS WELL
- LPZ-1 LEACHATE PIEZOMETER
- GV GAS VENT
- CURRENT WASTE BOUNDARY
- FUTURE WASTE BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- SSL WELL

COBALT PREDICTION LIMIT = 0.0074 mg/L

300 0 300

SCALE FEET

REV.	DATE	CK BY
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-

SHEET TITLE
COBALT CONCENTRATION MAP

PROJECT TITLE
CHEROKEE COUNTY SANITARY LANDFILL
2024 ANNUAL WATER QUALITY REPORT

CLIENT
CHEROKEE COUNTY SOLID WASTE COMMISSION
1805 LINDEN ST
CHEROKEE, IOWA

SCS ENGINEERS
1690 ALL STATE COURT, SUITE 100
WEST DES MOINES, IOWA 50265
(515) 631-6160

DSN BY:	DWN BY:	PROJ. MGR
CJD	CJD	SAM	NO

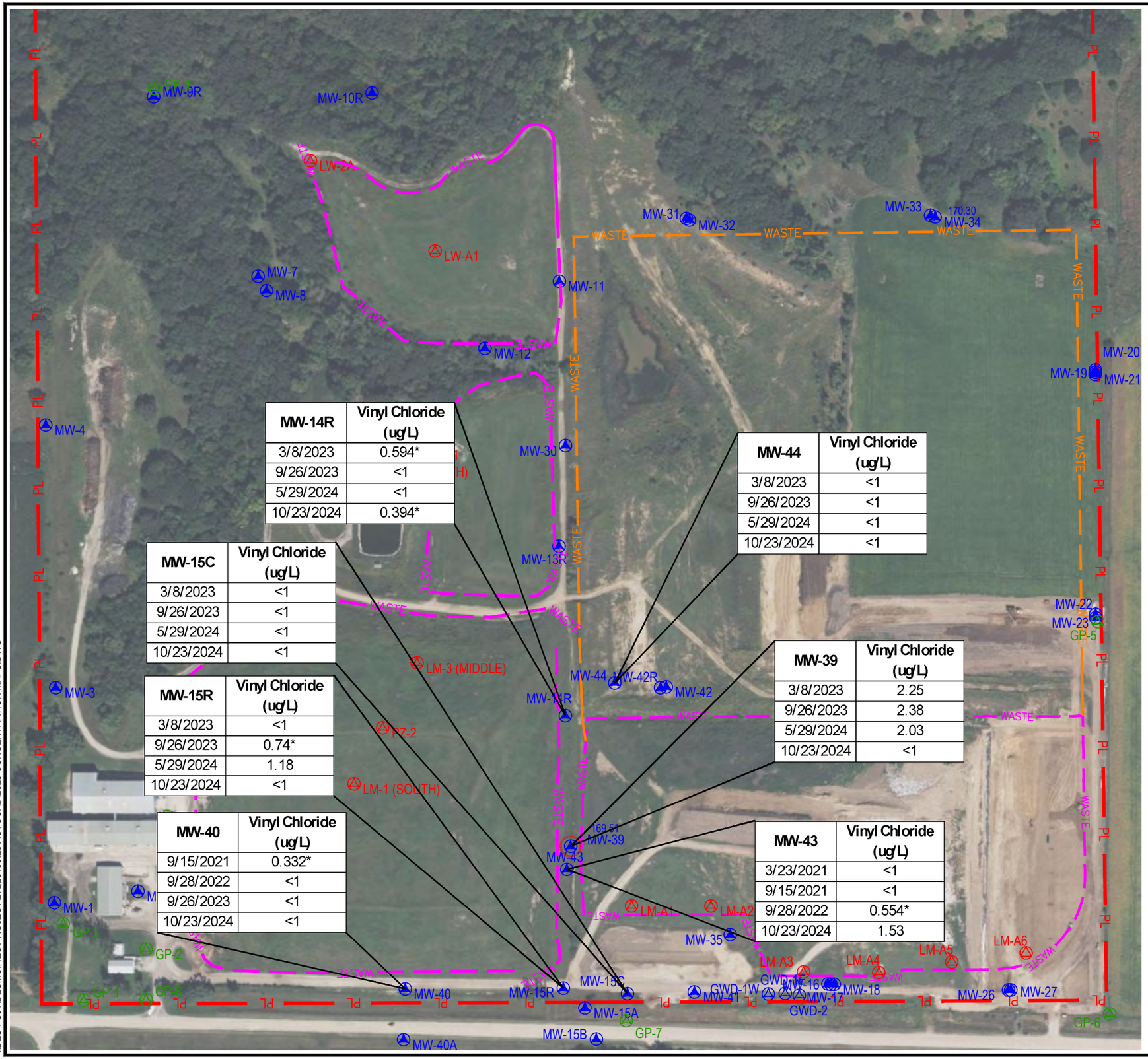
PROJ. NO. 27223105.25

CADD FILE: 2025 CONCENTRATION MAPS.DWG

DATE: 3/7/25

FIGURE NO. **6**

\\DES-FS01\DESMOINES\PROJECT\27223105.25\AUTOCAD\2025 CONCENTRATION MAPS.DWG



MW-14R	Vinyl Chloride (ug/L)
3/8/2023	0.594*
9/26/2023	<1
5/29/2024	<1
10/23/2024	0.394*

MW-44	Vinyl Chloride (ug/L)
3/8/2023	<1
9/26/2023	<1
5/29/2024	<1
10/23/2024	<1

MW-15C	Vinyl Chloride (ug/L)
3/8/2023	<1
9/26/2023	<1
5/29/2024	<1
10/23/2024	<1

MW-39	Vinyl Chloride (ug/L)
3/8/2023	2.25
9/26/2023	2.38
5/29/2024	2.03
10/23/2024	<1

MW-15R	Vinyl Chloride (ug/L)
3/8/2023	<1
9/26/2023	0.74*
5/29/2024	1.18
10/23/2024	<1

MW-40	Vinyl Chloride (ug/L)
9/15/2021	0.332*
9/28/2022	<1
9/26/2023	<1
10/23/2024	<1

MW-43	Vinyl Chloride (ug/L)
3/23/2021	<1
9/15/2021	<1
9/28/2022	0.554*
10/23/2024	1.53

LEGEND

- MW-4C MONITORING WELL
- LFGW-1 LANDFILL GAS WELL
- LPZ-1 LEACHATE PIEZOMETER
- GV GAS VENT
- CURRENT WASTE BOUNDARY
- FUTURE WASTE BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- SSL WELL

VINYL CHLORIDE
PREDICTION LIMIT = <1 µg/L

300 0 300
SCALE FEET

REV:	DATE	CK BY
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-

SHEET TITLE
VINYL CHLORIDE CONCENTRATION MAP

PROJECT TITLE
CHEROKEE COUNTY SANITARY LANDFILL
2024 ANNUAL WATER QUALITY REPORT

CLIENT
CHEROKEE COUNTY SOLID WASTE COMMISSION
1805 LINDEN ST
CHEROKEE, IOWA

SCS ENGINEERS
1690 ALL STATE COURT, SUITE 100
WEST DES MOINES, IOWA 50265
(515) 631-6160

DWN. BY: CJD
CHK. BY: SAM
PROJ. MGR: NO
PROJ. NO: 27223105.25
DSN. BY: CJD

CADD FILE: 2025 CONCENTRATION MAPS.DWG
DATE: 3/7/25
FIGURE NO. **7**

\\DES-FS01\DESMOINES\PROJECT\27223105.25\AUTOCAD\2025 CONCENTRATION MAPS.DWG

Appendix A

Field Sampling Forms

FORM FOR GROUNDWATER SAMPLING

Project:	**Cherokee County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-42R**	Date:	**3/5/2024**
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):	32.6
Initial Static Water Level (feet):	16.61
Initial Groundwater Elevation (ft-amsl):	142.28
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	**Temperature (°C) 10%**	Dissolved Oxygen (mg/L)	**Specific Conductivity (µS/cm) +/- 10%**	**pH (S.U.) +/- 0.1**	ORP (mV)	Turbidity (FNU)	
2:01 PM	Purging start time.						
2:04 PM	11.1	0.8	3362.1	6.28	232.4	NM	
2:07 PM	11.0	0.2	3386.5	6.43	218.8	NM	
2:10 PM	10.9	<0.1	3393.5	6.48	212.9	NM	
2:13 PM	11.0	<0.1	3391.5	6.49	209.0	NM	
	Parameters stabilized, sample collected.						

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

D. WELL MAINTENANCE

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

Additional Comments:	Retest Event Color-Clear Odor-None Equipment malfunction - turbidity not measured.

FORM FOR GROUNDWATER SAMPLING

Project:	**Cherokee County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-16**	Date:	**5/29/2024**
Gradient:	Down	Sampler:	Michael Morgan

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

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	18.5
Initial Static Water Level (feet):	6.31
Initial Groundwater Elevation (ft-amsl):	148.78
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)	
11:25 AM	Purging start time.						
11:28 AM	12.6	13.1	1431.8	NM	NM	12.4	
11:31 AM	12.4	11.5	1431.8	NM	NM	2.8	
11:34 AM	12.7	11.2	1427.7	NM	NM	1.0	
11:37 AM	12.8	11.1	1440.8	NM	NM	0.4	
	Parameters stabilized, sample collected.						

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

D. WELL MAINTENANCE

Does the well require any future maintenance?	Yes	
If yes, explain:	New lock.	

Additional Comments:	Color-Clear Odor-None Equipment malfunction - pH and ORP not measured.

FORM FOR GROUNDWATER SAMPLING

Project:	**Cherokee County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-27**	Date:	**5/29/2024**
Gradient:	Down	Sampler:	Michael Morgan

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	Yes	
Litter/Standing Water?	Yes	Litter

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	30.7
Initial Static Water Level (feet):	8.45
Initial Groundwater Elevation (ft-amsl):	146.64
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)	
12:48 PM	Purging start time.						
12:51 PM	12.8	3.2	1015.1	7.17	57.0	4.4	
12:54 PM	12.4	3.1	1007.5	7.16	61.8	5.3	
12:57 PM	12.7	3.0	1008.5	7.14	64.2	7.0	
1:00 PM	12.9	3.0	1008.7	7.13	66.0	6.3	
	Parameters stabilized, sample collected.						

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

D. WELL MAINTENANCE		
Does the well require any future maintenance?	Yes	
If yes, explain:	Lock needed.	

Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Cherokee County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-35**	Date:	**5/29/2024**
Gradient:	Down	Sampler:	Michael Morgan

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):	6.95
Initial Groundwater Elevation (ft-amsl):	143.15
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)	
5:51 PM	Purging start time.						
5:54 PM	17.0	6.8	2938.7	6.75	-12.5	17.6	
5:57 PM	16.0	7.3	2954.9	6.79	-11.6	10.5	
6:00 PM	15.3	7.5	2940.1	6.81	-11.5	9.0	
6:03 PM	14.6	7.4	2912.5	6.80	-8.8	7.9	
	Parameters stabilized, sample collected.						

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

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

Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Cherokee County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-42R**	Date:	**5/29/2024**
Gradient:	Down	Sampler:	Michael Morgan

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):	32.6
Initial Static Water Level (feet):	18.10
Initial Groundwater Elevation (ft-amsl):	140.79
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
4:33 PM	Purging start time.						
4:36 PM	13.6	0.8	3057.5	6.60	21.5	11.1	
4:39 PM	12.8	0.1	3019.4	6.62	44.6	16.2	
4:42 PM	13.1	<0.1	3020.5	6.62	56.6	16.9	
4:45 PM	12.8	<0.1	3036.5	6.62	64.7	40.2	
	Parameters stabilized, sample collected.						

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

D. WELL MAINTENANCE

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

Additional Comments:	Color-Clear Odor-None

FORM FOR SURFACE WATER SAMPLING

Project:
Underdrain/Surface Water ID: GW D-2 | Date: 5/29/24
Gradient (circle one): Up / (Down) Sampler: Michael Mazzeo

A. TYPE OF MONITORING POINT (circle one)

☐ Drainage Ditch ☐ Road Ditch ☐ Stream ☐ Open Tile ☐ Tile with Riser ☒ Other: Underdrain

B. PURPOSE OF MONITORING POINT (circle one)

☐ Upstream (☐ Downstream) ☐ Within Landfill ☐ Other: _____

C. MONITORING POINT CONDITIONS

Approximate location:

Was monitoring point dry? Yes / (No) Too little water to sample? Yes / (No)
Was water flowing? (Yes) / No
If yes, estimate quantity (gpm, depth x width x flow rate) and depth (inches): w = 2.5 ft D = 20 cm
16 sec to fill 1 L

Was water discolored? Yes / (No)
Does water have oder? Yes / (No)
Was ground discolored? Yes / (No)
Litter present? Yes / (No)

Comments Red algae - pre tubers iron particles present

D. FIELD MEASUREMENTS

Weather Conditions 21°C sunny
Equipment Used: YSI - Pro DSS

Time	Temperature (°C)	pH (S.U.)	Conductivity (µS/cm)
12:23	17.7	6.80	1446

Comments

FORM FOR GROUNDWATER SAMPLING

Project:	**Cherokee County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-7**	Date:	**5/30/2024**
Gradient:	Down	Sampler:	Michael Morgan

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):	50.7
Initial Static Water Level (feet):	11.69
Initial Groundwater Elevation (ft-amsl):	49.29
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)	
1:09 PM	Purging start time.						
1:12 PM	11.8	1.0	1919.2	6.99	-186.5	18.3	
1:15 PM	12.3	0.3	1932.6	6.93	-178.2	48.2	
1:18 PM	12.7	0.1	1943.2	6.90	-172.4	10.7	
1:21 PM	13.1	<0.1	1943.6	6.87	-165.1	10.7	
	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?	Yes	
If yes, explain:	Lock needed.	

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

FORM FOR GROUNDWATER SAMPLING

Project:	**Cherokee County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-9R**	Date:	**5/30/2024**
Gradient:	Down	Sampler:	Michael Morgan

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):	47.8
Initial Static Water Level (feet):	27.10
Initial Groundwater Elevation (ft-amsl):	7.30
Equipment Used:	Dedicated Submersible

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)	
11:24 AM	Purging start time.						
11:27 AM	12.9	1.3	2272.9	7.28	-207.8	31.1	
11:30 AM	11.9	0.3	2346.9	7.23	-206.0	19.9	
11:33 AM	11.2	0.1	2300.9	7.18	-194.3	41.8	
11:36 AM	12.2	<0.1	2291.5	7.15	-183.8	46.8	
11:39 AM	12.3	<0.1	2316.9	7.13	-178.5	66.2	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.6
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	15:00
Average Purge Rate (mL/min):	173.33

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

Additional Comments:	Color-Gray Odor-Sulfur

FORM FOR GROUNDWATER SAMPLING

Project:	**Cherokee County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-10R**	Date:	**5/30/2024**
Gradient:	Down	Sampler:	Michael Morgan

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

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	19.1
Initial Static Water Level (feet):	10.00
Initial Groundwater Elevation (ft-amsl):	71.90
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
12:10 PM	Purging start time.						
12:13 PM	10.6	0.7	1615.9	6.77	-95.7	117.8	
12:16 PM	11.2	0.2	1612.2	6.77	-99.9	83.5	
12:19 PM	11.2	0.1	1612.4	6.77	-101.8	79.4	
12:22 PM	11.0	<0.1	1596.7	6.78	-102.8	88.9	
	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-Light orange tint Odor-Slight sulfur

FORM FOR GROUNDWATER SAMPLING

Project:	**Cherokee County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-11**	Date:	**5/30/2024**
Gradient:	Up	Sampler:	Michael Morgan

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):	41.2
Initial Static Water Level (feet):	15.63
Initial Groundwater Elevation (ft-amsl):	126.17
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
8:50 AM	Purging start time.						
8:56 AM	15.5	8.7	18.9	7.06	127.4	15.9	
8:59 AM	11.0	0.6	2306.4	6.51	129.3	5.3	
9:02 AM	11.1	0.2	2361.8	6.54	126.3	6.6	
9:05 AM	11.1	0.1	2386.6	6.56	124.8	6.8	
9:08 AM	11.1	<0.1	2400.6	6.56	123.8	6.3	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.5
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	208.33

D. WELL MAINTENANCE

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

Additional Comments:	Color-Clear Odor-None Some particulates.

FORM FOR GROUNDWATER SAMPLING

Project:	**Cherokee County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-12**	Date:	**5/30/2024**
Gradient:	Down	Sampler:	Michael Morgan

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

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	22.3
Initial Static Water Level (feet):	7.42
Initial Groundwater Elevation (ft-amsl):	127.68
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
10:15 AM	Purging start time.						
10:18 AM	10.6	0.9	2014.1	6.72	126.5	5.2	
10:21 AM	11.0	0.7	2009.9	6.72	121.2	5.3	
10:24 AM	11.1	0.5	2011.6	6.72	113.9	5.9	
10:27 AM	11.0	0.5	2006.5	6.71	106.6	6.9	
	Parameters stabilized, sample collected.						

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

D. WELL MAINTENANCE

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

Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Cherokee County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-13R**	Date:	**5/30/2024**
Gradient:	Down	Sampler:	Michael Morgan

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

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	26.4
Initial Static Water Level (feet):	15.16
Initial Groundwater Elevation (ft-amsl):	146.44
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)	
7:36 AM	Purging start time.						
7:39 AM	11.8	0.5	1049.3	6.20	31.0	7.8	
7:42 AM	12.3	0.1	1059.3	6.24	41.5	7.7	
7:45 AM	12.3	0.1	1066.3	6.28	45.3	7.7	
7:48 AM	12.3	<0.1	1066.2	6.31	46.9	7.5	
	Parameters stabilized, sample collected.						

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

D. WELL MAINTENANCE

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

Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Cherokee County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-14R**	Date:	**5/29/2024**
Gradient:	Down	Sampler:	Michael Morgan

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

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	27.4
Initial Static Water Level (feet):	15.33
Initial Groundwater Elevation (ft-amsl):	152.97
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)	
2:48 PM	Purging start time.						
2:51 PM	12.2	0.3	1849.0	6.35	4.6	26.6	
2:54 PM	12.3	<0.1	1772.6	6.33	17.8	12.6	
2:57 PM	12.1	<0.1	1675.2	6.33	9.8	11.8	
3:00 PM	12.3	<0.1	1584.3	6.35	22.2	9.9	
3:03 PM	12.4	<0.1	1521.3	6.40	34.8	19.3	
3:06 PM	12.8	<0.1	1464.2	6.45	40.2	36.7	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	4.1
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	18:00
Average Purge Rate (mL/min):	227.78

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:	**Cherokee County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-15C**	Date:	**5/29/2024**
Gradient:	Down	Sampler:	Michael Morgan

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

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	27.0
Initial Static Water Level (feet):	5.78
Initial Groundwater Elevation (ft-amsl):	166.88
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
9:24 AM	Purging start time.						
9:27 AM	11.2	0.7	1825.3	6.64	21.2	16.8	
9:30 AM	11.8	0.2	1696.4	6.68	30.5	52.4	
9:33 AM	11.6	0.2	1499.2	6.70	34.1	10.1	
9:36 AM	11.3	0.5	1394.3	6.70	39.2	17.5	
9:39 AM	11.8	0.7	1411.3	6.67	44.3	8.7	
	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):	15:00
Average Purge Rate (mL/min):	140.00

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

Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Cherokee County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-15R**	Date:	**5/29/2024**
Gradient:	Down	Sampler:	Michael Morgan

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

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	23.3
Initial Static Water Level (feet):	7.74
Initial Groundwater Elevation (ft-amsl):	164.16
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
8:38 AM	Purging start time.						
8:41 AM	10.6	1.3	959.4	6.20	-54.0	14.2	
8:44 AM	10.7	0.9	997.8	6.23	-65.0	13.6	
8:47 AM	10.6	0.8	1014.8	6.26	-69.1	13.9	
8:50 AM	10.7	0.8	1021.9	6.28	-71.5	12.0	
	Parameters stabilized, sample collected.						

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

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

Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Cherokee County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-39**	Date:	**5/29/2024**
Gradient:	Down	Sampler:	Michael Morgan

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

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	27.6
Initial Static Water Level (feet):	14.91
Initial Groundwater Elevation (ft-amsl):	157.49
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
6:43 PM	Purging start time.						
6:46 PM	12.7	0.4	2152.1	6.35	-83.4	8.8	
6:49 PM	12.8	0.1	2147.2	6.36	-89.0	14.6	
6:52 PM	13.1	<0.1	2145.3	6.37	-93.0	24.4	
6:55 PM	12.9	<0.1	2146.8	6.37	-95.1	14.3	
	Parameters stabilized, sample collected.						

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

D. WELL MAINTENANCE

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

Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Cherokee County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-44**	Date:	**5/29/2024**
Gradient:	Down	Sampler:	Michael Morgan

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

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	38.0
Initial Static Water Level (feet):	5.28
Initial Groundwater Elevation (ft-amsl):	161.12
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
3:47 PM	Purging start time.						
3:50 PM	12.9	0.5	2800.4	6.76	-78.8	113.2	
3:53 PM	13.1	0.1	2808.0	6.78	-80.2	133.4	
3:56 PM	14.2	<0.1	2850.8	6.78	-82.7	156.9	
3:59 PM	14.5	<0.1	2892.1	6.78	-84.2	174.9	
4:02 PM	14.4	<0.1	2895.2	6.78	-85.1	131.0	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.9
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	15:00
Average Purge Rate (mL/min):	193.33

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

Additional Comments:	Color-Light orange tint Odor-None Fine orange particulates.

FORM FOR GROUNDWATER SAMPLING

Project:	**Cherokee County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-16**	Date:	**10/24/2024**
Gradient:	Down	Sampler:	Cole Tesar

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

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	18.5
Initial Static Water Level (feet):	9.15
Initial Groundwater Elevation (ft-amsl):	145.94
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
10:59 AM	Purging start time.						
11:02 AM	14.2	1.3	1585.6	6.55	11.4	2.2	
11:05 AM	14.3	0.7	1591.7	6.54	12.0	1.8	
11:08 AM	14.3	0.5	1593.1	6.54	13.6	2.1	
11:11 AM	14.3	0.4	1594.4	6.54	15.0	1.9	
	Parameters stabilized, sample collected.						

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

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

Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Cherokee County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-27**	Date:	**10/24/2024**
Gradient:	Down	Sampler:	Cole Tesar

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

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	30.8
Initial Static Water Level (feet):	13.45
Initial Groundwater Elevation (ft-amsl):	141.64
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)	
9:52 AM	Purging start time.						
9:55 AM	11.7	2.2	1167.6	7.16	-76.6	2.1	
9:58 AM	11.7	1.5	1142.9	7.12	-64.9	2.7	
10:01 AM	11.6	1.3	1132.6	7.10	-57.5	3.1	
10:04 AM	11.6	1.2	1121.1	7.10	-51.7	3.9	
	Parameters stabilized, sample collected.						

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

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

Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Cherokee County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-35**	Date:	**10/24/2024**
Gradient:	Down	Sampler:	Cole Tesar

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

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	27.9
Initial Static Water Level (feet):	9.75
Initial Groundwater Elevation (ft-amsl):	140.35
Equipment Used:	Non-Dedicated Submersible

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
12:29 PM	Purging start time.						
12:32 PM	15.2	1.1	3246.5	6.56	-54.6	265.2	
12:35 PM	15.0	0.7	3247.2	6.55	-45.6	249.2	
12:38 PM	14.9	0.5	3215.0	6.56	-42.1	207.7	
12:41 PM	15.4	0.4	3168.5	6.56	-37.3	183.3	
	Parameters stabilized, sample collected.						

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

D. WELL MAINTENANCE

Does the well require any future maintenance?	Yes	
If yes, explain:	Well needs dug out.	

Additional Comments:	Color-Cloudy/gray Odor-Sulfur Inconsistent flow during sampling.

FORM FOR GROUNDWATER SAMPLING

Project:	**Cherokee County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-42R**	Date:	**10/23/2024**
Gradient:	Down	Sampler:	Cole Tesar

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

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	32.6
Initial Static Water Level (feet):	15.77
Initial Groundwater Elevation (ft-amsl):	143.12
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)	
6:00 PM	Purging start time.						
6:03 PM	11.9	1.3	3414.5	6.69	-41.9	2.2	
6:06 PM	11.9	0.6	3418.0	6.66	-21.6	2.1	
6:09 PM	11.9	0.4	3419.2	6.65	-8.6	2.0	
6:12 PM	11.9	0.4	3418.8	6.64	-0.2	2.4	
	Parameters stabilized, sample collected.						

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

D. WELL MAINTENANCE

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

Additional Comments:	Color-Clear Odor-None

FORM FOR SURFACE WATER SAMPLING

Site Name: Cherokee County Sanitary Landfill
Permit No.: 18-SDP-01-75P
Surface Monitoring Point No.: GWD-2
Date: 10/24/24

Name of Person Sampling: Cole Tesar

A. TYPE OF MOINITORING POINT

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

B. PURPOSE OF MONITORING POINT

Upstream		Downstream	
Within Landfill	X	Other	

C. MONITORING POINT CONDITIONS/LOCATION

Located east of GWD-1E

Was monitoring point dry?	Yes
Was water flowing?	NO
Standing Water?	NO
Was water discolored?	no
Does water have odor?	no
Was ground discolored?	no
Litter present?	no

D. FIELD MEASUREMENTS

Weather Conditions:

Time:

Field Measurements:

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

COMMENTS: No sample taken. Point was dry.

FORM FOR GROUNDWATER SAMPLING

Project:	**Cherokee County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-14R**	Date:	**10/23/2024**
Gradient:	Down	Sampler:	Cole Tesar

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

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	27.4
Initial Static Water Level (feet):	18.00
Initial Groundwater Elevation (ft-amsl):	150.30
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
2:16 PM	Purging start time.						
2:19 PM	14.4	1.4	2132.8	6.38	22.3	7.6	
2:22 PM	14.3	0.6	2127.9	6.38	-7.7	4.9	
2:25 PM	14.3	0.5	2085.9	6.38	-12.2	5.2	
2:28 PM	14.4	0.4	2028.6	6.39	-11.3	4.6	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	1.5
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	125.00

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

Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Cherokee County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-15C**	Date:	**10/23/2024**
Gradient:	Down	Sampler:	Cole Tesar

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

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	27.0
Initial Static Water Level (feet):	9.30
Initial Groundwater Elevation (ft-amsl):	163.36
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
4:35 PM	Purging start time.						
4:38 PM	14.3	1.4	2784.2	6.75	-33.1	77.8	
4:41 PM	14.4	0.8	2427.3	6.76	-25.3	18.1	
4:44 PM	14.7	0.5	2058.1	6.78	-21.1	17.2	
4:47 PM	14.8	0.4	1910.7	6.79	-19.4	17.4	
4:50 PM	14.7	0.3	1794.6	6.79	-18.5	10.4	
4:53 PM	14.8	0.3	1751.2	6.79	-17.6	7.7	
	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):	18:00
Average Purge Rate (mL/min):	122.22

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:	**Cherokee County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-15R**	Date:	**10/23/2024**
Gradient:	Down	Sampler:	Cole Tesar

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

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	23.4
Initial Static Water Level (feet):	12.97
Initial Groundwater Elevation (ft-amsl):	158.93
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
4:01 PM	Purging start time.						
4:04 PM	14.2	1.0	1316.9	6.54	-125.4	2.3	
4:07 PM	14.6	0.6	1314.8	6.52	-127.6	1.6	
4:10 PM	14.7	0.4	1318.0	6.50	-129.4	1.3	
4:13 PM	14.7	0.3	1318.6	6.49	-131.2	1.3	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	1.6
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	133.33

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:	**Cherokee County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-39**	Date:	**10/23/2024**
Gradient:	Down	Sampler:	Cole Tesar

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

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	27.6
Initial Static Water Level (feet):	19.89
Initial Groundwater Elevation (ft-amsl):	152.51
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
2:53 PM	Purging start time.						
2:56 PM	14.5	0.9	2317.8	6.41	-144.6	4.3	
2:59 PM	14.4	0.5	2290.2	6.43	-152.0	3.2	
3:02 PM	14.5	0.4	2239.1	6.43	-157.7	3.4	
3:05 PM	14.5	0.4	2211.0	6.43	-160.7	3.8	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	1.6
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	133.33

D. WELL MAINTENANCE

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

Additional Comments:	Color-Clear Odor-Sulfur

FORM FOR GROUNDWATER SAMPLING

Project:	**Cherokee County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-40**	Date:	**10/24/2024**
Gradient:	Down	Sampler:	Cole Tesar

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

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	24.9
Initial Static Water Level (feet):	15.78
Initial Groundwater Elevation (ft-amsl):	180.99
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
8:32 AM	Purging start time.						
8:35 AM	13.5	1.2	1256.0	6.48	-137.4	6.5	
8:38 AM	13.4	0.6	1235.2	6.46	-138.6	10.1	
8:41 AM	13.3	0.5	1236.4	6.45	-138.8	10.5	
8:44 AM	13.4	0.6	1237.9	6.45	-138.0	13.0	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	1.3
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	108.33

D. WELL MAINTENANCE

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

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

FORM FOR GROUNDWATER SAMPLING

Project:	**Cherokee County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-43**	Date:	**10/23/2024**
Gradient:	Down	Sampler:	Cole Tesar

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

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	46.5
Initial Static Water Level (feet):	22.28
Initial Groundwater Elevation (ft-amsl):	168.45
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)	
3:26 PM	Purging start time.						
3:29 PM	14.5	1.5	2611.3	6.45	-68.6	3.0	
3:32 PM	14.6	0.7	2641.5	6.44	-69.9	2.2	
3:35 PM	14.5	0.5	2640.3	6.45	-73.1	2.1	
3:38 PM	14.5	0.5	2492.3	6.49	-77.7	2.4	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	1.5
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	125.00

D. WELL MAINTENANCE

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

Additional Comments:	Color-Clear Odor-Sulfur

FORM FOR GROUNDWATER SAMPLING

Project:	**Cherokee County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-44**	Date:	**10/23/2024**
Gradient:	Down	Sampler:	Cole Tesar

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

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	38.2
Initial Static Water Level (feet):	4.72
Initial Groundwater Elevation (ft-amsl):	161.68
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
5:31 PM	Purging start time.						
5:34 PM	13.6	1.1	3246.3	6.88	-146.4	110.1	
5:37 PM	13.4	0.5	3260.1	6.87	-146.8	80.7	
5:40 PM	13.3	0.4	3259.6	6.86	-147.8	59.2	
5:43 PM	13.1	0.3	3258.2	6.87	-148.9	59.4	
	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-Orange tint Odor-None

Appendix B-1

Laboratory Analytical Data Sheets

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/15/2024 2:33:26 PM

JOB DESCRIPTION

Cherokee Landfill - Winter 2024 Retest

JOB NUMBER

310-276347-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

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Job Notes

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

Authorization

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

Table of Contents

Job ID: 310-276347-1 Eurofins Cedar Falls

Job Narrative
310-276347-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

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

Receipt
The samples were received on 3/8/2024 4:45 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 1.8°C.

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

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

Sample Summary

Client: SCS Engineers
Job ID: 310-276347-1
Project/Site: Cherokee Landfill - Winter 2024 Retest

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-276347-1	MW-42R	Ground Water	03/04/24 14:22	03/08/24 16:45

Detection Summary

Client: SCS Engineers
Job ID: 310-276347-1
Project/Site: Cherokee Landfill - Winter 2024 Retest

Client Sample ID: MW-42R
Lab Sample ID: 310-276347-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.00535		0.000500		mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: SCS Engineers
Job ID: 310-276347-1
Project/Site: Cherokee Landfill - Winter 2024 Retest

Client Sample ID: MW-42R
Lab Sample ID: 310-276347-1
Date Collected: 03/04/24 14:22
Matrix: Ground Water
Date Received: 03/08/24 16:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	**0.00535**		0.000500		mg/L		03/12/24 08:45	03/14/24 15:55	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		mg/L			03/08/24 13:08	1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client: SCS Engineers
Job ID: 310-276347-1
Project/Site: Cherokee Landfill - Winter 2024 Retest

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

Lab Sample ID: MB 310-415576/1
Matrix: Water
Analysis Batch: 415576

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00		mg/L			03/08/24 13:08	1

Lab Sample ID: LCS 310-415576/2
Matrix: Water
Analysis Batch: 415576

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	109.0		mg/L		109	75 - 116		

QC Association Summary

Client: SCS Engineers
Job ID: 310-276347-1
Project/Site: Cherokee Landfill - Winter 2024 Retest

Metals

Prep Batch: 415698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-276347-1	MW-42R	Total/NA	Ground Water	3005A	

Analysis Batch: 416036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-276347-1	MW-42R	Total/NA	Ground Water	6020B	415698

General Chemistry

Analysis Batch: 415576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-276347-1	MW-42R	Total/NA	Ground Water	I-3765-85	
MB 310-415576/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-415576/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Lab Chronicle

Client: SCS Engineers
Job ID: 310-276347-1
Project/Site: Cherokee Landfill - Winter 2024 Retest

Client Sample ID: MW-42R
Lab Sample ID: 310-276347-1
Date Collected: 03/04/24 14:22
Matrix: Ground Water
Date Received: 03/08/24 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			415698	QTZ5	EET CF	03/12/24 08:45
Total/NA	Analysis	6020B		1	416036	A6US	EET CF	03/14/24 15:55
Total/NA	Analysis	I-3765-85		1	415576	ENB7	EET CF	03/08/24 13:08

Laboratory References:

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

Accreditation/Certification Summary

Client: SCS Engineers
Job ID: 310-276347-1
Project/Site: Cherokee Landfill - Winter 2024 Retest

Laboratory: Eurofins Cedar Falls

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

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	IA100001	09-29-24

Method Summary

Client: SCS Engineers
Job ID: 310-276347-1
Project/Site: Cherokee Landfill - Winter 2024 Retest

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

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

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

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310-276347 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS Engineers

City/State: CITY | STATE | Project:

Receipt Information

Date/Time Received: DATE 3/7/24 | TIME 1645 | Received By: AM

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler?	☒ Yes	☐ No	*If yes:* Cooler ID:
Multiple Coolers?	☐ Yes	☒ No	*If yes:* Cooler # _____ of _____
Cooler Custody Seals Present? No	☐ Yes	☒ No	*If yes:* Cooler custody seals intact? ☐ Yes ☐
Sample Custody Seals Present? No	☐ Yes	☒ No	*If yes:* Sample custody seals intact? ☐ Yes ☐
Trip Blank Present?	☒ Yes	☐ No	*If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: X | Correction Factor (°C): 0

• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 1.8 | Corrected Temp (°C): 1.8

• Sample Container Temperature

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

Eurofins TestAmerica, Cedar Falls
3019 Venture Way

Cedar Falls IA 50613-6907
phone 319 277 2401 fax 319 277 2425

Chain of Custody Record

eurofins

Regulatory Program ☐ DW ☐ NPDES ☑ RCRA ☐ Other

TestAmerica Laboratories Inc d/b/a Eurofins TestAmerica

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

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Cobalt	Total Suspended Solids	1,2	Sample Specific Notes
MW-42R	3-4-24	14:22	G	GW	2	X		X	X	X	

Preservation Used 1= Ice, 2= HCl, 3= H_2SO_4, 4=HNO_3, 5=NaOH, 6= Other _____

Possible Hazard Identification
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments
re-test

Custody Seals Intact. ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ | Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Konner Ruth	SCS	3-7-24 / 1400			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time
			[illegible]	Eurofins	3/7/24 1645

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-276347-1
SDG Number:

Login Number: 276347
List Number: 1
Creator: Homolar, Dana J

List Source: Eurofins Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/17/2024 8:54:34 AM

JOB DESCRIPTION

Cherokee Landfill Closed 1st 2024 HMSP
1st 2024 HMSP

JOB NUMBER

310-282518-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

myEOL

Job Notes

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Authorization

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

Table of Contents

Job ID: 310-282518-1 Eurofins Cedar Falls

Job Narrative
310-282518-1

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 5/31/2024 4:00 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 0.2°C and 2.6°C.

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

GC/MS Semi VOA
Method 8270E: The continuing calibration verification (CCV) associated with batch 310-423965 recovered above the upper control limit for 1,4-Naphthoquinone (22.6%D), Di-n-butyl phthalate (20.7%D), Dimethyl phthalate (25.5%D), 3-Nitroaniline (24.7%D), Safrole (23.4%D), 1,3-Dinitrobenzene (31.0%D), o,o',o''-Triethylphosphorothioate (23.7%D),Hexachloropropene (122.8%D) and Dinoseb (33.9%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 310-423508 and analytical batch 310-423965 recovered outside control limits for the following analytes: Famphur and Kepone These analytes .were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270E: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 310-423508 and analytical batch 310-423965 recovered outside control limits for the following analyte(s): p-Phenylene diamine. p-Phenylene diamine has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

Method 8270E: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 310-423508 and analytical batch 310-423965 recovered outside control limits for the following analytes: Methapyrilene.

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

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

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

PCBs
Method 8082A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 310-423348. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8082A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 310-423348. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

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

Job ID: 310-282518-1 (Continued) Eurofins Cedar Falls

Pesticides
Method 8081B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 310-423348. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8081B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 310-423348. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

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

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

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

Sample Summary

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-282518-1	MW-11	Groundwater	05/30/24 09:20	05/31/24 16:00
310-282518-2	MW-7	Groundwater	05/30/24 13:34	05/31/24 16:00
310-282518-3	MW-9R	Groundwater	05/30/24 11:46	05/31/24 16:00
310-282518-4	MW-10R	Groundwater	05/30/24 12:34	05/31/24 16:00
310-282518-5	MW-12	Groundwater	05/30/24 10:57	05/31/24 16:00
310-282518-6	MW-13R	Groundwater	05/30/24 08:40	05/31/24 16:00
310-282518-7	MW-14R	Groundwater	05/29/24 15:27	05/31/24 16:00
310-282518-8	MW-15R	Groundwater	05/29/24 09:06	05/31/24 16:00
310-282518-9	MW-39	Groundwater	05/29/24 19:08	05/31/24 16:00
310-282518-10	MW-15C	Groundwater	05/29/24 09:58	05/31/24 16:00
310-282518-11	MW-44	Groundwater	05/29/24 16:13	05/31/24 16:00
310-282518-12	MW-DC	Groundwater	05/30/24 08:40	05/31/24 16:00
310-282518-13	Trip Blank	Groundwater	05/30/24 00:00	05/31/24 16:00

Detection Summary

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Client Sample ID: MW-11 — Lab Sample ID: 310-282518-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0132		0.00200	0.000660	mg/L	1		6020B	Total/NA
Nickel	0.00331	J	0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	2.88		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-7 — Lab Sample ID: 310-282518-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.551	J	1.00	0.210	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	0.313	J	1.00	0.220	ug/L	1		8260D	Total/NA
Trichloroethene	0.946	J	1.00	0.430	ug/L	1		8260D	Total/NA
Barium	0.0140		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000294	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Total Suspended Solids	8.37		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-9R — Lab Sample ID: 310-282518-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.000805	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0694		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00741		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0252		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	6.75		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-10R — Lab Sample ID: 310-282518-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.479	J	1.00	0.210	ug/L	1		8260D	Total/NA
Arsenic	0.00399		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.121		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00235		0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.000892		0.000500	0.000260	mg/L	1		6020B	Total/NA
Nickel	0.00777		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	78.0		15.0	11.1	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-12 — Lab Sample ID: 310-282518-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0217		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.678		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00975		0.00200	0.000680	mg/L	4		6020B	Total/NA
Copper	0.00185	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Lead	0.000573		0.000500	0.000260	mg/L	1		6020B	Total/NA
Nickel	0.0157		0.00500	0.00210	mg/L	1		6020B	Total/NA

Client Sample ID: MW-13R — Lab Sample ID: 310-282518-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.93	J	10.0	3.10	ug/L	1		8260D	Total/NA
Benzene	0.237	J	0.500	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	1.53		1.00	0.400	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	0.378	J	1.00	0.230	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	0.545	J	1.00	0.220	ug/L	1		8260D	Total/NA
Arsenic	0.0547		0.00200	0.000530	mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-13R (Continued) — Lab Sample ID: 310-282518-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.672		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.0123		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0183		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	3.50		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-14R — Lab Sample ID: 310-282518-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.227	J	1.00	0.220	ug/L	1		8260D	Total/NA
Barium	0.0934		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000110	J	0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.000900		0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00189	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Nickel	0.0126		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	2.00		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-15R — Lab Sample ID: 310-282518-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.08		0.500	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	1.96		1.00	0.400	ug/L	1		8260D	Total/NA
Chloroethane	1.47	J	4.00	0.790	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.360	J	1.00	0.210	ug/L	1		8260D	Total/NA
1,2-Dichlorobenzene	0.424	J	1.00	0.370	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	2.01		1.00	0.230	ug/L	1		8260D	Total/NA
Vinyl chloride	1.18		1.00	0.180	ug/L	1		8260D	Total/NA
Arsenic	0.00119	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0867		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000164	J	0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.00250		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0107		0.00500	0.00210	mg/L	1		6020B	Total/NA
Zinc	0.0106	J	0.0200	0.00970	mg/L	1		6020B	Total/NA
Total Suspended Solids	67.0		15.0	11.1	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-39 — Lab Sample ID: 310-282518-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.61	J	10.0	3.10	ug/L	1		8260D	Total/NA
Benzene	1.63		0.500	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	10.4		1.00	0.400	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.472	J	1.00	0.210	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	10.7		1.00	0.230	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	0.319	J	1.00	0.220	ug/L	1		8260D	Total/NA
Toluene	0.635	J	1.00	0.430	ug/L	1		8260D	Total/NA
Vinyl chloride	2.03		1.00	0.180	ug/L	1		8260D	Total/NA
Arsenic	0.0219		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.704		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00978		0.00200	0.000680	mg/L	4		6020B	Total/NA
Copper	0.00187	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Lead	0.000583		0.000500	0.000260	mg/L	1		6020B	Total/NA
Nickel	0.0157		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	123		15.0	11.1	mg/L	1		I-3765-85	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Client Sample ID: MW-15C — Lab Sample ID: 310-282518-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0902		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000172	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00664		0.00500	0.00210	mg/L	1		6020B	Total/NA

Client Sample ID: MW-44 — Lab Sample ID: 310-282518-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00971		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0190		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000362	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Total Suspended Solids	48.0		7.50	5.55	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-DC — Lab Sample ID: 310-282518-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.30	J	10.0	3.10	ug/L	1		8260D	Total/NA
Benzene	0.238	J	0.500	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	1.63		1.00	0.400	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.223	J	1.00	0.210	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	0.363	J	1.00	0.230	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	0.410	J	1.00	0.220	ug/L	1		8260D	Total/NA
Arsenic	0.00110	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0839		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000164	J	0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.00232		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0104		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	2.63		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 310-282518-13

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Client Sample ID: MW-11
Lab Sample ID: 310-282518-1
Date Collected: 05/30/24 09:20
Matrix: Groundwater
Date Received: 05/31/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		06/04/24 09:15	06/07/24 15:06	1
Barium	**0.0132**		0.00200	0.000660	mg/L		06/04/24 09:15	06/07/24 15:06	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		06/04/24 09:15	06/14/24 15:55	1
Lead	<0.000500		0.000500	0.000260	mg/L		06/04/24 09:15	06/07/24 15:06	1
Nickel	**0.00331**	**J**	0.00500	0.00210	mg/L		06/04/24 09:15	06/07/24 15:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 9034)	<1.00		1.00	0.231	mg/L		06/04/24 18:10	06/04/24 22:05	1
Total Suspended Solids (USGS I-3765-85)	**2.88**		1.88	1.39	mg/L			06/04/24 07:45	1

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Client Sample ID: MW-7
Lab Sample ID: 310-282518-2
Date Collected: 05/30/24 13:34
Matrix: Groundwater
Date Received: 05/31/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			06/03/24 19:53	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/03/24 19:53	1
Benzene	<0.500		0.500	0.220	ug/L			06/03/24 19:53	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/03/24 19:53	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/03/24 19:53	1
Bromoform	<5.00		5.00	0.780	ug/L			06/03/24 19:53	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/03/24 19:53	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/03/24 19:53	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/03/24 19:53	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/03/24 19:53	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/03/24 19:53	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/03/24 19:53	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/03/24 19:53	1
Chloroform	<3.00		3.00	1.30	ug/L			06/03/24 19:53	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/03/24 19:53	1
cis-1,2-Dichloroethene	**0.551**	**J**	1.00	0.210	ug/L			06/03/24 19:53	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/03/24 19:53	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/03/24 19:53	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/03/24 19:53	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/03/24 19:53	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/03/24 19:53	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/03/24 19:53	1
1,1-Dichloroethane	**0.313**	**J**	1.00	0.220	ug/L			06/03/24 19:53	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/03/24 19:53	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/03/24 19:53	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/03/24 19:53	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/03/24 19:53	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/03/24 19:53	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/03/24 19:53	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/03/24 19:53	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/03/24 19:53	1
Styrene	<1.00		1.00	0.370	ug/L			06/03/24 19:53	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			06/03/24 19:53	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/03/24 19:53	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/03/24 19:53	1
Toluene	<1.00		1.00	0.430	ug/L			06/03/24 19:53	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/03/24 19:53	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/03/24 19:53	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/03/24 19:53	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/03/24 19:53	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/03/24 19:53	1
Trichloroethene	**0.946**	**J**	1.00	0.430	ug/L			06/03/24 19:53	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/03/24 19:53	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/03/24 19:53	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/03/24 19:53	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/03/24 19:53	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/03/24 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*06/03/24 19:53*	*1*

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Client Sample ID: MW-7
Lab Sample ID: 310-282518-2
Date Collected: 05/30/24 13:34
Matrix: Groundwater
Date Received: 05/31/24 16:00

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*73 - 130*		*06/03/24 19:53*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/03/24 19:53*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		06/04/24 09:15	06/07/24 15:08	1
Barium	**0.0140**		0.00200	0.000660	mg/L		06/04/24 09:15	06/07/24 15:08	1
Cobalt	**0.000294**	**J**	0.000500	0.000170	mg/L		06/04/24 09:15	06/14/24 15:59	1
Lead	<0.000500		0.000500	0.000260	mg/L		06/04/24 09:15	06/07/24 15:08	1
Nickel	<0.00500		0.00500	0.00210	mg/L		06/04/24 09:15	06/07/24 15:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**8.37**		1.88	1.39	mg/L			06/04/24 07:45	1

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Client Sample ID: MW-9R
Lab Sample ID: 310-282518-3
Date Collected: 05/30/24 11:46
Matrix: Groundwater
Date Received: 05/31/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.000805**	**J**	0.00200	0.000530	mg/L		06/04/24 09:15	06/07/24 15:19	1
Barium	**0.0694**		0.00200	0.000660	mg/L		06/04/24 09:15	06/07/24 15:19	1
Cobalt	**0.00741**		0.000500	0.000170	mg/L		06/04/24 09:15	06/14/24 16:02	1
Lead	<0.000500		0.000500	0.000260	mg/L		06/04/24 09:15	06/07/24 15:19	1
Nickel	**0.0252**		0.00500	0.00210	mg/L		06/04/24 09:15	06/07/24 15:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 9034)	<1.00		1.00	0.231	mg/L		06/04/24 18:17	06/04/24 22:23	1
Total Suspended Solids (USGS I-3765-85)	**6.75**		1.88	1.39	mg/L			06/04/24 07:45	1

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Client Sample ID: MW-10R
Lab Sample ID: 310-282518-4
Date Collected: 05/30/24 12:34
Matrix: Groundwater
Date Received: 05/31/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			06/03/24 20:15	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/03/24 20:15	1
Benzene	<0.500		0.500	0.220	ug/L			06/03/24 20:15	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/03/24 20:15	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/03/24 20:15	1
Bromoform	<5.00		5.00	0.780	ug/L			06/03/24 20:15	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/03/24 20:15	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/03/24 20:15	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/03/24 20:15	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/03/24 20:15	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/03/24 20:15	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/03/24 20:15	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/03/24 20:15	1
Chloroform	<3.00		3.00	1.30	ug/L			06/03/24 20:15	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/03/24 20:15	1
cis-1,2-Dichloroethene	**0.479**	**J**	1.00	0.210	ug/L			06/03/24 20:15	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/03/24 20:15	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/03/24 20:15	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/03/24 20:15	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/03/24 20:15	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/03/24 20:15	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/03/24 20:15	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/03/24 20:15	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/03/24 20:15	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/03/24 20:15	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/03/24 20:15	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/03/24 20:15	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/03/24 20:15	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/03/24 20:15	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/03/24 20:15	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/03/24 20:15	1
Styrene	<1.00		1.00	0.370	ug/L			06/03/24 20:15	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			06/03/24 20:15	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/03/24 20:15	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/03/24 20:15	1
Toluene	<1.00		1.00	0.430	ug/L			06/03/24 20:15	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/03/24 20:15	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/03/24 20:15	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/03/24 20:15	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/03/24 20:15	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/03/24 20:15	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/03/24 20:15	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/03/24 20:15	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/03/24 20:15	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/03/24 20:15	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/03/24 20:15	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/03/24 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*06/03/24 20:15*	*1*

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Client Sample ID: MW-10R
Lab Sample ID: 310-282518-4
Date Collected: 05/30/24 12:34
Matrix: Groundwater
Date Received: 05/31/24 16:00

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*73 - 130*		*06/03/24 20:15*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/03/24 20:15*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00399		0.00200	0.000530	mg/L		06/04/24 09:15	06/07/24 15:21	1
Barium	0.121		0.00200	0.000660	mg/L		06/04/24 09:15	06/07/24 15:21	1
Cobalt	0.00235		0.000500	0.000170	mg/L		06/04/24 09:15	06/14/24 16:06	1
Lead	0.000892		0.000500	0.000260	mg/L		06/04/24 09:15	06/07/24 15:21	1
Nickel	0.00777		0.00500	0.00210	mg/L		06/04/24 09:15	06/07/24 15:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	78.0		15.0	11.1	mg/L			06/04/24 07:45	1

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Client Sample ID: MW-12
Lab Sample ID: 310-282518-5
Date Collected: 05/30/24 10:57
Matrix: Groundwater
Date Received: 05/31/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			06/03/24 20:38	1
Acrolein	<10.0		10.0	3.60	ug/L			06/03/24 20:38	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/03/24 20:38	1
Allyl chloride	<2.00		2.00	0.700	ug/L			06/03/24 20:38	1
Benzene	<0.500		0.500	0.220	ug/L			06/03/24 20:38	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/03/24 20:38	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/03/24 20:38	1
Bromoform	<5.00		5.00	0.780	ug/L			06/03/24 20:38	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/03/24 20:38	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/03/24 20:38	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/03/24 20:38	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/03/24 20:38	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/03/24 20:38	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/03/24 20:38	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/03/24 20:38	1
Chloroform	<3.00		3.00	1.30	ug/L			06/03/24 20:38	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/03/24 20:38	1
Chloroprene	<1.00		1.00	0.230	ug/L			06/03/24 20:38	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/03/24 20:38	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/03/24 20:38	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/03/24 20:38	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/03/24 20:38	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/03/24 20:38	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/03/24 20:38	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			06/03/24 20:38	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/03/24 20:38	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			06/03/24 20:38	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/03/24 20:38	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/03/24 20:38	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/03/24 20:38	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/03/24 20:38	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			06/03/24 20:38	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			06/03/24 20:38	1
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			06/03/24 20:38	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/03/24 20:38	1
Ethyl methacrylate	<2.00		2.00	0.680	ug/L			06/03/24 20:38	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/03/24 20:38	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/03/24 20:38	1
Methacrylonitrile	<10.0		10.0	3.30	ug/L			06/03/24 20:38	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/03/24 20:38	1
Methyl methacrylate	<2.00		2.00	0.760	ug/L			06/03/24 20:38	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/03/24 20:38	1
Naphthalene	<5.00		5.00	3.00	ug/L			06/03/24 20:38	1
Propionitrile	<10.0		10.0	3.40	ug/L			06/03/24 20:38	1
Styrene	<1.00		1.00	0.370	ug/L			06/03/24 20:38	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			06/03/24 20:38	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/03/24 20:38	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/03/24 20:38	1
Toluene	<1.00		1.00	0.430	ug/L			06/03/24 20:38	1

Client Sample ID: MW-12
Lab Sample ID: 310-282518-5
Date Collected: 05/30/24 10:57
Matrix: Groundwater
Date Received: 05/31/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/03/24 20:38	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/03/24 20:38	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/03/24 20:38	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			06/03/24 20:38	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/03/24 20:38	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/03/24 20:38	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/03/24 20:38	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/03/24 20:38	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/03/24 20:38	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/03/24 20:38	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/03/24 20:38	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/03/24 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*06/03/24 20:38*	*1*
Dibromofluoromethane (Surr)	*104*		*73 - 130*		*06/03/24 20:38*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/03/24 20:38*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<10.0		10.0	0.540	ug/L		06/04/24 13:08	06/07/24 18:01	1
1,3,5-Trinitrobenzene	<10.0		10.0	2.30	ug/L		06/04/24 13:08	06/07/24 18:01	1
1,3-Dinitrobenzene	<10.0		10.0	3.20	ug/L		06/04/24 13:08	06/07/24 18:01	1
1,4-Naphthoquinone	<10.0		10.0	3.60	ug/L		06/04/24 13:08	06/07/24 18:01	1
1,4-Phenylenediamine	<10.0	*-	10.0	1.90	ug/L		06/04/24 13:08	06/07/24 18:01	1
1-Naphthylamine	<10.0		10.0	2.50	ug/L		06/04/24 13:08	06/07/24 18:01	1
2,3,4,6-Tetrachlorophenol	<10.0		10.0	5.30	ug/L		06/04/24 13:08	06/07/24 18:01	1
2,4,5-Trichlorophenol	<10.0		10.0	5.30	ug/L		06/04/24 13:08	06/07/24 18:01	1
2,4,6-Trichlorophenol	<10.0		10.0	5.00	ug/L		06/04/24 13:08	06/07/24 18:01	1
2,4-Dichlorophenol	<10.0		10.0	0.850	ug/L		06/04/24 13:08	06/07/24 18:01	1
2,4-Dimethylphenol	<10.0		10.0	0.580	ug/L		06/04/24 13:08	06/07/24 18:01	1
2,4-Dinitrophenol	<20.0		20.0	13.0	ug/L		06/04/24 13:08	06/07/24 18:01	1
2,4-Dinitrotoluene	<10.0		10.0	6.40	ug/L		06/04/24 13:08	06/07/24 18:01	1
2,6-Dichlorophenol	<10.0		10.0	0.690	ug/L		06/04/24 13:08	06/07/24 18:01	1
2,6-Dinitrotoluene	<10.0		10.0	0.520	ug/L		06/04/24 13:08	06/07/24 18:01	1
2-Acetylaminofluorene	<10.0		10.0	2.70	ug/L		06/04/24 13:08	06/07/24 18:01	1
2-Chloronaphthalene	<10.0		10.0	0.640	ug/L		06/04/24 13:08	06/07/24 18:01	1
2-Chlorophenol	<10.0		10.0	0.540	ug/L		06/04/24 13:08	06/07/24 18:01	1
2-Methylnaphthalene	<10.0		10.0	0.590	ug/L		06/04/24 13:08	06/07/24 18:01	1
2-Methylphenol	<10.0		10.0	0.650	ug/L		06/04/24 13:08	06/07/24 18:01	1
2-Naphthylamine	<10.0		10.0	2.10	ug/L		06/04/24 13:08	06/07/24 18:01	1
2-Nitroaniline	<10.0		10.0	5.90	ug/L		06/04/24 13:08	06/07/24 18:01	1
2-Nitrophenol	<10.0		10.0	6.80	ug/L		06/04/24 13:08	06/07/24 18:01	1
3,3'-Dichlorobenzidine	<10.0		10.0	1.40	ug/L		06/04/24 13:08	06/07/24 18:01	1
3,3'-Dimethylbenzidine	<10.0		10.0	1.50	ug/L		06/04/24 13:08	06/07/24 18:01	1
3-Methylcholanthrene	<10.0		10.0	0.320	ug/L		06/04/24 13:08	06/07/24 18:01	1
3-Nitroaniline	<10.0		10.0	2.70	ug/L		06/04/24 13:08	06/07/24 18:01	1
4,6-Dinitro-2-methylphenol	<10.0		10.0	6.90	ug/L		06/04/24 13:08	06/07/24 18:01	1
4-Aminobiphenyl	<10.0		10.0	2.20	ug/L		06/04/24 13:08	06/07/24 18:01	1
4-Bromophenyl phenyl ether	<10.0		10.0	0.700	ug/L		06/04/24 13:08	06/07/24 18:01	1

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Client Sample ID: MW-12
Lab Sample ID: 310-282518-5
Date Collected: 05/30/24 10:57
Matrix: Groundwater
Date Received: 05/31/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	<10.0		10.0	0.840	ug/L		06/04/24 13:08	06/07/24 18:01	1
4-Chloroaniline	<10.0		10.0	0.620	ug/L		06/04/24 13:08	06/07/24 18:01	1
4-Chlorophenyl phenyl ether	<10.0		10.0	0.690	ug/L		06/04/24 13:08	06/07/24 18:01	1
4-Methylphenol (and/or 3-Methylphenol)	<10.0		10.0	0.700	ug/L		06/04/24 13:08	06/07/24 18:01	1
4-Nitroaniline	<10.0		10.0	1.30	ug/L		06/04/24 13:08	06/07/24 18:01	1
4-Nitrophenol	<10.0		10.0	7.60	ug/L		06/04/24 13:08	06/07/24 18:01	1
5-Nitro-o-toluidine	<10.0		10.0	2.80	ug/L		06/04/24 13:08	06/07/24 18:01	1
7,12-Dimethylbenz(a)anthracene	<10.0		10.0	1.90	ug/L		06/04/24 13:08	06/07/24 18:01	1
Acenaphthene	<10.0		10.0	0.640	ug/L		06/04/24 13:08	06/07/24 18:01	1
Acenaphthylene	<10.0		10.0	0.720	ug/L		06/04/24 13:08	06/07/24 18:01	1
Acetophenone	<10.0		10.0	0.690	ug/L		06/04/24 13:08	06/07/24 18:01	1
Anthracene	<10.0		10.0	0.870	ug/L		06/04/24 13:08	06/07/24 18:01	1
Benzo(a)anthracene	<10.0		10.0	0.850	ug/L		06/04/24 13:08	06/07/24 18:01	1
Benzo(a)pyrene	<10.0		10.0	8.10	ug/L		06/04/24 13:08	06/07/24 18:01	1
Benzo(b)fluoranthene	<10.0		10.0	4.90	ug/L		06/04/24 13:08	06/07/24 18:01	1
Benzo(g,h,i)perylene	<10.0		10.0	6.30	ug/L		06/04/24 13:08	06/07/24 18:01	1
Benzo(k)fluoranthene	<10.0		10.0	2.20	ug/L		06/04/24 13:08	06/07/24 18:01	1
Benzyl alcohol	<10.0		10.0	1.30	ug/L		06/04/24 13:08	06/07/24 18:01	1
Bis(2-chloroethoxy)methane	<10.0		10.0	0.760	ug/L		06/04/24 13:08	06/07/24 18:01	1
Bis(2-chloroethyl)ether	<10.0		10.0	0.820	ug/L		06/04/24 13:08	06/07/24 18:01	1
bis(2-chloroisopropyl) ether	<10.0		10.0	0.540	ug/L		06/04/24 13:08	06/07/24 18:01	1
Bis(2-ethylhexyl) phthalate	<10.0		10.0	5.50	ug/L		06/04/24 13:08	06/07/24 18:01	1
Butyl benzyl phthalate	<10.0		10.0	5.40	ug/L		06/04/24 13:08	06/07/24 18:01	1
Chlorobenzilate	<10.0		10.0	3.60	ug/L		06/04/24 13:08	06/07/24 18:01	1
Chrysene	<10.0		10.0	0.870	ug/L		06/04/24 13:08	06/07/24 18:01	1
Diallate	<10.0		10.0	4.00	ug/L		06/04/24 13:08	06/07/24 18:01	1
Dibenz(a,h)anthracene	<10.0		10.0	3.90	ug/L		06/04/24 13:08	06/07/24 18:01	1
Dibenzofuran	<10.0		10.0	0.740	ug/L		06/04/24 13:08	06/07/24 18:01	1
Diethyl phthalate	<10.0		10.0	1.70	ug/L		06/04/24 13:08	06/07/24 18:01	1
Dimethoate	<10.0		10.0	3.60	ug/L		06/04/24 13:08	06/07/24 18:01	1
Dimethyl phthalate	<10.0		10.0	1.00	ug/L		06/04/24 13:08	06/07/24 18:01	1
Di-n-butyl phthalate	<10.0		10.0	5.60	ug/L		06/04/24 13:08	06/07/24 18:01	1
Di-n-octyl phthalate	<20.0		20.0	7.00	ug/L		06/04/24 13:08	06/07/24 18:01	1
Dinoseb	<10.0		10.0	2.40	ug/L		06/04/24 13:08	06/07/24 18:01	1
Diphenylamine	<10.0		10.0	6.00	ug/L		06/04/24 13:08	06/07/24 18:01	1
Disulfoton	<10.0		10.0	2.40	ug/L		06/04/24 13:08	06/07/24 18:01	1
Ethyl methanesulfonate	<10.0		10.0	3.60	ug/L		06/04/24 13:08	06/07/24 18:01	1
Ethyl parathion	<10.0		10.0	2.20	ug/L		06/04/24 13:08	06/07/24 18:01	1
Famphur	<10.0	*+	10.0	3.80	ug/L		06/04/24 13:08	06/07/24 18:01	1
Fluoranthene	<10.0		10.0	1.70	ug/L		06/04/24 13:08	06/07/24 18:01	1
Fluorene	<10.0		10.0	0.790	ug/L		06/04/24 13:08	06/07/24 18:01	1
Hexachlorobenzene	<10.0		10.0	0.700	ug/L		06/04/24 13:08	06/07/24 18:01	1
Hexachlorobutadiene	<10.0		10.0	0.860	ug/L		06/04/24 13:08	06/07/24 18:01	1
Hexachlorocyclopentadiene	<10.0		10.0	5.10	ug/L		06/04/24 13:08	06/07/24 18:01	1
Hexachloroethane	<10.0		10.0	0.970	ug/L		06/04/24 13:08	06/07/24 18:01	1
Hexachloropropene	<10.0		10.0	2.60	ug/L		06/04/24 13:08	06/07/24 18:01	1
Indeno(1,2,3-cd)pyrene	<10.0		10.0	4.20	ug/L		06/04/24 13:08	06/07/24 18:01	1
Isodrin	<10.0		10.0	4.70	ug/L		06/04/24 13:08	06/07/24 18:01	1
Isophorone	<10.0		10.0	0.930	ug/L		06/04/24 13:08	06/07/24 18:01	1

Client Sample ID: MW-12
Lab Sample ID: 310-282518-5
Date Collected: 05/30/24 10:57
Matrix: Groundwater
Date Received: 05/31/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isosafrole	<10.0		10.0	2.30	ug/L		06/04/24 13:08	06/07/24 18:01	1
Kepone	<10.0		10.0	1.00	ug/L		06/04/24 13:08	06/07/24 18:01	1
Methapyrilene	<10.0	*1	10.0	0.760	ug/L		06/04/24 13:08	06/07/24 18:01	1
Methyl methanesulfonate	<10.0		10.0	3.30	ug/L		06/04/24 13:08	06/07/24 18:01	1
Methyl parathion	<10.0		10.0	2.30	ug/L		06/04/24 13:08	06/07/24 18:01	1
Nitrobenzene	<10.0		10.0	0.800	ug/L		06/04/24 13:08	06/07/24 18:01	1
N-Nitrosodiethylamine	<10.0		10.0	3.40	ug/L		06/04/24 13:08	06/07/24 18:01	1
N-Nitrosodimethylamine	<10.0		10.0	0.720	ug/L		06/04/24 13:08	06/07/24 18:01	1
N-Nitrosodi-n-butylamine	<10.0		10.0	3.90	ug/L		06/04/24 13:08	06/07/24 18:01	1
N-Nitrosodi-n-propylamine	<10.0		10.0	0.920	ug/L		06/04/24 13:08	06/07/24 18:01	1
N-Nitrosodiphenylamine	<10.0		10.0	0.750	ug/L		06/04/24 13:08	06/07/24 18:01	1
N-Nitrosomethylethylamine	<10.0		10.0	4.90	ug/L		06/04/24 13:08	06/07/24 18:01	1
N-Nitrosopiperidine	<10.0		10.0	2.70	ug/L		06/04/24 13:08	06/07/24 18:01	1
N-Nitrosopyrrolidine	<10.0		10.0	3.60	ug/L		06/04/24 13:08	06/07/24 18:01	1
o,o',o''-Triethylphosphorothioate	<10.0		10.0	3.20	ug/L		06/04/24 13:08	06/07/24 18:01	1
o-Toluidine	<10.0		10.0	2.90	ug/L		06/04/24 13:08	06/07/24 18:01	1
p-Dimethylamino azobenzene	<10.0		10.0	2.20	ug/L		06/04/24 13:08	06/07/24 18:01	1
Pentachlorobenzene	<10.0		10.0	2.80	ug/L		06/04/24 13:08	06/07/24 18:01	1
Pentachloronitrobenzene	<10.0		10.0	5.80	ug/L		06/04/24 13:08	06/07/24 18:01	1
Pentachlorophenol	<10.0		10.0	9.60	ug/L		06/04/24 13:08	06/07/24 18:01	1
Phenacetin	<10.0		10.0	1.90	ug/L		06/04/24 13:08	06/07/24 18:01	1
Phenanthrene	<10.0		10.0	0.790	ug/L		06/04/24 13:08	06/07/24 18:01	1
Phenol	<10.0		10.0	1.10	ug/L		06/04/24 13:08	06/07/24 18:01	1
Phorate	<10.0		10.0	3.20	ug/L		06/04/24 13:08	06/07/24 18:01	1
Pronamide	<10.0		10.0	2.70	ug/L		06/04/24 13:08	06/07/24 18:01	1
Pyrene	<10.0		10.0	0.790	ug/L		06/04/24 13:08	06/07/24 18:01	1
Safrole	<10.0		10.0	2.80	ug/L		06/04/24 13:08	06/07/24 18:01	1
Thionazin	<10.0		10.0	3.50	ug/L		06/04/24 13:08	06/07/24 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*74*		*25 - 110*	*06/04/24 13:08*	*06/07/24 18:01*	*1*
Phenol-d5 (Surr)	*73*		*21 - 110*	*06/04/24 13:08*	*06/07/24 18:01*	*1*
Nitrobenzene-d5 (Surr)	*108*		*45 - 129*	*06/04/24 13:08*	*06/07/24 18:01*	*1*
2-Fluorobiphenyl (Surr)	*97*		*39 - 118*	*06/04/24 13:08*	*06/07/24 18:01*	*1*
2,4,6-Tribromophenol (Surr)	*100*		*27 - 136*	*06/04/24 13:08*	*06/07/24 18:01*	*1*
Terphenyl-d14 (Surr)	*120*		*12 - 144*	*06/04/24 13:08*	*06/07/24 18:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetonitrile	<10.0		10.0	2.60	mg/L			06/05/24 15:23	1
Isobutanol	<10.0		10.0	2.40	mg/L			06/05/24 15:23	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0640		0.0640	0.0270	ug/L		06/03/24 09:59	06/10/24 21:40	1
4,4'-DDE	<0.0640		0.0640	0.0270	ug/L		06/03/24 09:59	06/10/24 21:40	1
4,4'-DDT	<0.0640		0.0640	0.0420	ug/L		06/03/24 09:59	06/10/24 21:40	1
Aldrin	<0.0640		0.0640	0.0320	ug/L		06/03/24 09:59	06/10/24 21:40	1
alpha-BHC	<0.0640		0.0640	0.0290	ug/L		06/03/24 09:59	06/10/24 21:40	1
beta-BHC	<0.0640		0.0640	0.0370	ug/L		06/03/24 09:59	06/10/24 21:40	1

Client Sample ID: MW-12
Lab Sample ID: 310-282518-5
Date Collected: 05/30/24 10:57
Matrix: Groundwater
Date Received: 05/31/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	<2.00		2.00	0.810	ug/L		06/03/24 09:59	06/10/24 21:40	1
delta-BHC	<0.0640		0.0640	0.0270	ug/L		06/03/24 09:59	06/10/24 21:40	1
Dieldrin	<0.0640		0.0640	0.0260	ug/L		06/03/24 09:59	06/10/24 21:40	1
Endosulfan I	<0.0640		0.0640	0.0330	ug/L		06/03/24 09:59	06/10/24 21:40	1
Endosulfan II	<0.0640		0.0640	0.0290	ug/L		06/03/24 09:59	06/10/24 21:40	1
Endosulfan sulfate	<0.0640		0.0640	0.0300	ug/L		06/03/24 09:59	06/10/24 21:40	1
Endrin	<0.0640		0.0640	0.0260	ug/L		06/03/24 09:59	06/10/24 21:40	1
Endrin aldehyde	<0.0640		0.0640	0.0290	ug/L		06/03/24 09:59	06/10/24 21:40	1
gamma-BHC (Lindane)	<0.0640		0.0640	0.0360	ug/L		06/03/24 09:59	06/10/24 21:40	1
Heptachlor	<0.0640		0.0640	0.0330	ug/L		06/03/24 09:59	06/10/24 21:40	1
Heptachlor epoxide	<0.0640		0.0640	0.0290	ug/L		06/03/24 09:59	06/10/24 21:40	1
Methoxychlor	<0.0640		0.0640	0.0410	ug/L		06/03/24 09:59	06/10/24 21:40	1
Toxaphene	<2.00		2.00	0.690	ug/L		06/03/24 09:59	06/10/24 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*78*		*10 - 136*	*06/03/24 09:59*	*06/10/24 21:40*	*1*
Tetrachloro-m-xylene	*74*		*10 - 130*	*06/03/24 09:59*	*06/10/24 21:40*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.800		0.800	0.170	ug/L		06/03/24 09:59	06/10/24 21:40	1
PCB-1221	<0.800		0.800	0.170	ug/L		06/03/24 09:59	06/10/24 21:40	1
PCB-1232	<0.800		0.800	0.170	ug/L		06/03/24 09:59	06/10/24 21:40	1
PCB-1242	<0.800		0.800	0.170	ug/L		06/03/24 09:59	06/10/24 21:40	1
PCB-1248	<0.800		0.800	0.110	ug/L		06/03/24 09:59	06/10/24 21:40	1
PCB-1254	<0.800		0.800	0.110	ug/L		06/03/24 09:59	06/10/24 21:40	1
PCB-1260	<0.800		0.800	0.110	ug/L		06/03/24 09:59	06/10/24 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*78*		*10 - 136*	*06/03/24 09:59*	*06/10/24 21:40*	*1*
Tetrachloro-m-xylene	*74*		*10 - 130*	*06/03/24 09:59*	*06/10/24 21:40*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	<0.156		0.156	0.0678	ug/L		06/05/24 15:12	06/06/24 09:45	1
Silvex (2,4,5-TP)	<0.0522		0.0522	0.0229	ug/L		06/05/24 15:12	06/06/24 09:45	1
2,4-D	<0.626		0.626	0.261	ug/L		06/05/24 15:12	06/06/24 09:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr)	*51*		*34 - 142*	*06/05/24 15:12*	*06/06/24 09:45*	*1*
2,4-Dichlorophenylacetic acid (Surr)	*51*		*34 - 142*	*06/05/24 15:12*	*06/06/24 09:45*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		06/04/24 09:15	06/07/24 15:23	1
Arsenic	**0.0217**		0.00200	0.000530	mg/L		06/04/24 09:15	06/07/24 15:23	1
Barium	**0.678**		0.00200	0.000660	mg/L		06/04/24 09:15	06/14/24 15:07	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/04/24 09:15	06/07/24 15:23	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		06/04/24 09:15	06/07/24 15:23	1
Chromium	<0.00500		0.00500	0.00120	mg/L		06/04/24 09:15	06/07/24 15:23	1
Cobalt	**0.00975**		0.00200	0.000680	mg/L		06/04/24 09:15	06/14/24 16:09	4

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Client Sample ID: MW-12
Lab Sample ID: 310-282518-5
Date Collected: 05/30/24 10:57
Matrix: Groundwater
Date Received: 05/31/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	**0.00185**	**J**	0.00500	0.00180	mg/L		06/04/24 09:15	06/07/24 15:23	1
Lead	**0.000573**		0.000500	0.000260	mg/L		06/04/24 09:15	06/07/24 15:23	1
Nickel	**0.0157**		0.00500	0.00210	mg/L		06/04/24 09:15	06/07/24 15:23	1
Selenium	<0.00500		0.00500	0.00140	mg/L		06/04/24 09:15	06/07/24 15:23	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/04/24 09:15	06/14/24 15:07	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/04/24 09:15	06/07/24 15:23	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		06/04/24 09:15	06/07/24 15:23	1
Zinc	<0.0200		0.0200	0.00970	mg/L		06/04/24 09:15	06/07/24 15:23	1
Tin	<20.0		20.0	9.20	ug/L		06/04/24 09:15	06/14/24 16:09	4

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200	0.000110	mg/L		06/04/24 10:22	06/06/24 11:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.0100		0.0100	0.00350	mg/L		06/05/24 12:26	06/06/24 17:15	1
Sulfide (SW846 9034)	<1.00		1.00	0.231	mg/L		06/04/24 18:19	06/04/24 22:29	1
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.39	mg/L			06/04/24 07:45	1

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Client Sample ID: MW-13R
Lab Sample ID: 310-282518-6
Date Collected: 05/30/24 08:40
Matrix: Groundwater
Date Received: 05/31/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**8.93**	**J**	10.0	3.10	ug/L			06/04/24 03:28	1
Acrolein	<10.0		10.0	3.60	ug/L			06/04/24 03:28	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/04/24 03:28	1
Allyl chloride	<2.00		2.00	0.700	ug/L			06/04/24 03:28	1
Benzene	**0.237**	**J**	0.500	0.220	ug/L			06/04/24 03:28	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/04/24 03:28	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/04/24 03:28	1
Bromoform	<5.00		5.00	0.780	ug/L			06/04/24 03:28	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/04/24 03:28	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/04/24 03:28	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/04/24 03:28	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/04/24 03:28	1
Chlorobenzene	**1.53**		1.00	0.400	ug/L			06/04/24 03:28	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/04/24 03:28	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/04/24 03:28	1
Chloroform	<3.00	F2	3.00	1.30	ug/L			06/04/24 03:28	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/04/24 03:28	1
Chloroprene	<1.00		1.00	0.230	ug/L			06/04/24 03:28	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/04/24 03:28	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/04/24 03:28	1
1,2-Dibromo-3-chloropropane	<5.00	F2	5.00	1.20	ug/L			06/04/24 03:28	1
1,2-Dibromoethane (EDB)	<1.00	F2	1.00	0.340	ug/L			06/04/24 03:28	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/04/24 03:28	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/04/24 03:28	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			06/04/24 03:28	1
1,4-Dichlorobenzene	**0.378**	**J**	1.00	0.230	ug/L			06/04/24 03:28	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			06/04/24 03:28	1
1,1-Dichloroethane	**0.545**	**J**	1.00	0.220	ug/L			06/04/24 03:28	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/04/24 03:28	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/04/24 03:28	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/04/24 03:28	1
1,3-Dichloropropane	<1.00	F2	1.00	0.400	ug/L			06/04/24 03:28	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			06/04/24 03:28	1
1,1-Dichloropropene	<1.00	F2	1.00	0.430	ug/L			06/04/24 03:28	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/04/24 03:28	1
Ethyl methacrylate	<2.00	F2	2.00	0.680	ug/L			06/04/24 03:28	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/04/24 03:28	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/04/24 03:28	1
Methacrylonitrile	<10.0		10.0	3.30	ug/L			06/04/24 03:28	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/04/24 03:28	1
Methyl methacrylate	<2.00		2.00	0.760	ug/L			06/04/24 03:28	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/04/24 03:28	1
Naphthalene	<5.00		5.00	3.00	ug/L			06/04/24 03:28	1
Propionitrile	<10.0		10.0	3.40	ug/L			06/04/24 03:28	1
Styrene	<1.00		1.00	0.370	ug/L			06/04/24 03:28	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			06/04/24 03:28	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/04/24 03:28	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/04/24 03:28	1
Toluene	<1.00	F2	1.00	0.430	ug/L			06/04/24 03:28	1

Client Sample ID: MW-13R
Lab Sample ID: 310-282518-6
Date Collected: 05/30/24 08:40
Matrix: Groundwater
Date Received: 05/31/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/04/24 03:28	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/04/24 03:28	1
trans-1,3-Dichloropropene	<5.00	F2	5.00	0.560	ug/L			06/04/24 03:28	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			06/04/24 03:28	1
1,1,1-Trichloroethane	<1.00	F2	1.00	0.190	ug/L			06/04/24 03:28	1
1,1,2-Trichloroethane	<1.00	F2	1.00	0.450	ug/L			06/04/24 03:28	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/04/24 03:28	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/04/24 03:28	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/04/24 03:28	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/04/24 03:28	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/04/24 03:28	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/04/24 03:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*		*06/04/24 03:28*	*1*
Dibromofluoromethane (Surr)	*104*		*73 - 130*		*06/04/24 03:28*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*06/04/24 03:28*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<10.0		10.0	0.540	ug/L		06/04/24 13:08	06/07/24 18:26	1
1,3,5-Trinitrobenzene	<10.0		10.0	2.30	ug/L		06/04/24 13:08	06/07/24 18:26	1
1,3-Dinitrobenzene	<10.0		10.0	3.20	ug/L		06/04/24 13:08	06/07/24 18:26	1
1,4-Naphthoquinone	<10.0		10.0	3.60	ug/L		06/04/24 13:08	06/07/24 18:26	1
1,4-Phenylenediamine	<10.0	*-	10.0	1.90	ug/L		06/04/24 13:08	06/07/24 18:26	1
1-Naphthylamine	<10.0		10.0	2.50	ug/L		06/04/24 13:08	06/07/24 18:26	1
2,3,4,6-Tetrachlorophenol	<10.0		10.0	5.30	ug/L		06/04/24 13:08	06/07/24 18:26	1
2,4,5-Trichlorophenol	<10.0		10.0	5.30	ug/L		06/04/24 13:08	06/07/24 18:26	1
2,4,6-Trichlorophenol	<10.0		10.0	5.00	ug/L		06/04/24 13:08	06/07/24 18:26	1
2,4-Dichlorophenol	<10.0		10.0	0.850	ug/L		06/04/24 13:08	06/07/24 18:26	1
2,4-Dimethylphenol	<10.0		10.0	0.580	ug/L		06/04/24 13:08	06/07/24 18:26	1
2,4-Dinitrophenol	<20.0		20.0	13.0	ug/L		06/04/24 13:08	06/07/24 18:26	1
2,4-Dinitrotoluene	<10.0		10.0	6.40	ug/L		06/04/24 13:08	06/07/24 18:26	1
2,6-Dichlorophenol	<10.0		10.0	0.690	ug/L		06/04/24 13:08	06/07/24 18:26	1
2,6-Dinitrotoluene	<10.0		10.0	0.520	ug/L		06/04/24 13:08	06/07/24 18:26	1
2-Acetylaminofluorene	<10.0		10.0	2.70	ug/L		06/04/24 13:08	06/07/24 18:26	1
2-Chloronaphthalene	<10.0		10.0	0.640	ug/L		06/04/24 13:08	06/07/24 18:26	1
2-Chlorophenol	<10.0		10.0	0.540	ug/L		06/04/24 13:08	06/07/24 18:26	1
2-Methylnaphthalene	<10.0		10.0	0.590	ug/L		06/04/24 13:08	06/07/24 18:26	1
2-Methylphenol	<10.0		10.0	0.650	ug/L		06/04/24 13:08	06/07/24 18:26	1
2-Naphthylamine	<10.0		10.0	2.10	ug/L		06/04/24 13:08	06/07/24 18:26	1
2-Nitroaniline	<10.0		10.0	5.90	ug/L		06/04/24 13:08	06/07/24 18:26	1
2-Nitrophenol	<10.0		10.0	6.80	ug/L		06/04/24 13:08	06/07/24 18:26	1
3,3'-Dichlorobenzidine	<10.0		10.0	1.40	ug/L		06/04/24 13:08	06/07/24 18:26	1
3,3'-Dimethylbenzidine	<10.0		10.0	1.50	ug/L		06/04/24 13:08	06/07/24 18:26	1
3-Methylcholanthrene	<10.0		10.0	0.320	ug/L		06/04/24 13:08	06/07/24 18:26	1
3-Nitroaniline	<10.0		10.0	2.70	ug/L		06/04/24 13:08	06/07/24 18:26	1
4,6-Dinitro-2-methylphenol	<10.0		10.0	6.90	ug/L		06/04/24 13:08	06/07/24 18:26	1
4-Aminobiphenyl	<10.0		10.0	2.20	ug/L		06/04/24 13:08	06/07/24 18:26	1
4-Bromophenyl phenyl ether	<10.0		10.0	0.700	ug/L		06/04/24 13:08	06/07/24 18:26	1

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Client Sample ID: MW-13R
Lab Sample ID: 310-282518-6
Date Collected: 05/30/24 08:40
Matrix: Groundwater
Date Received: 05/31/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	<10.0		10.0	0.840	ug/L		06/04/24 13:08	06/07/24 18:26	1
4-Chloroaniline	<10.0		10.0	0.620	ug/L		06/04/24 13:08	06/07/24 18:26	1
4-Chlorophenyl phenyl ether	<10.0		10.0	0.690	ug/L		06/04/24 13:08	06/07/24 18:26	1
4-Methylphenol (and/or 3-Methylphenol)	<10.0		10.0	0.700	ug/L		06/04/24 13:08	06/07/24 18:26	1
4-Nitroaniline	<10.0		10.0	1.30	ug/L		06/04/24 13:08	06/07/24 18:26	1
4-Nitrophenol	<10.0		10.0	7.60	ug/L		06/04/24 13:08	06/07/24 18:26	1
5-Nitro-o-toluidine	<10.0		10.0	2.80	ug/L		06/04/24 13:08	06/07/24 18:26	1
7,12-Dimethylbenz(a)anthracene	<10.0		10.0	1.90	ug/L		06/04/24 13:08	06/07/24 18:26	1
Acenaphthene	<10.0		10.0	0.640	ug/L		06/04/24 13:08	06/07/24 18:26	1
Acenaphthylene	<10.0		10.0	0.720	ug/L		06/04/24 13:08	06/07/24 18:26	1
Acetophenone	<10.0		10.0	0.690	ug/L		06/04/24 13:08	06/07/24 18:26	1
Anthracene	<10.0		10.0	0.870	ug/L		06/04/24 13:08	06/07/24 18:26	1
Benzo(a)anthracene	<10.0		10.0	0.850	ug/L		06/04/24 13:08	06/07/24 18:26	1
Benzo(a)pyrene	<10.0		10.0	8.10	ug/L		06/04/24 13:08	06/07/24 18:26	1
Benzo(b)fluoranthene	<10.0		10.0	4.90	ug/L		06/04/24 13:08	06/07/24 18:26	1
Benzo(g,h,i)perylene	<10.0		10.0	6.30	ug/L		06/04/24 13:08	06/07/24 18:26	1
Benzo(k)fluoranthene	<10.0		10.0	2.20	ug/L		06/04/24 13:08	06/07/24 18:26	1
Benzyl alcohol	<10.0		10.0	1.30	ug/L		06/04/24 13:08	06/07/24 18:26	1
Bis(2-chloroethoxy)methane	<10.0		10.0	0.760	ug/L		06/04/24 13:08	06/07/24 18:26	1
Bis(2-chloroethyl)ether	<10.0		10.0	0.820	ug/L		06/04/24 13:08	06/07/24 18:26	1
bis(2-chloroisopropyl) ether	<10.0		10.0	0.540	ug/L		06/04/24 13:08	06/07/24 18:26	1
Bis(2-ethylhexyl) phthalate	<10.0		10.0	5.50	ug/L		06/04/24 13:08	06/07/24 18:26	1
Butyl benzyl phthalate	<10.0		10.0	5.40	ug/L		06/04/24 13:08	06/07/24 18:26	1
Chlorobenzilate	<10.0		10.0	3.60	ug/L		06/04/24 13:08	06/07/24 18:26	1
Chrysene	<10.0		10.0	0.870	ug/L		06/04/24 13:08	06/07/24 18:26	1
Diallate	<10.0		10.0	4.00	ug/L		06/04/24 13:08	06/07/24 18:26	1
Dibenz(a,h)anthracene	<10.0		10.0	3.90	ug/L		06/04/24 13:08	06/07/24 18:26	1
Dibenzofuran	<10.0		10.0	0.740	ug/L		06/04/24 13:08	06/07/24 18:26	1
Diethyl phthalate	<10.0		10.0	1.70	ug/L		06/04/24 13:08	06/07/24 18:26	1
Dimethoate	<10.0		10.0	3.60	ug/L		06/04/24 13:08	06/07/24 18:26	1
Dimethyl phthalate	<10.0		10.0	1.00	ug/L		06/04/24 13:08	06/07/24 18:26	1
Di-n-butyl phthalate	<10.0		10.0	5.60	ug/L		06/04/24 13:08	06/07/24 18:26	1
Di-n-octyl phthalate	<20.0		20.0	7.00	ug/L		06/04/24 13:08	06/07/24 18:26	1
Dinoseb	<10.0		10.0	2.40	ug/L		06/04/24 13:08	06/07/24 18:26	1
Diphenylamine	<10.0		10.0	6.00	ug/L		06/04/24 13:08	06/07/24 18:26	1
Disulfoton	<10.0		10.0	2.40	ug/L		06/04/24 13:08	06/07/24 18:26	1
Ethyl methanesulfonate	<10.0		10.0	3.60	ug/L		06/04/24 13:08	06/07/24 18:26	1
Ethyl parathion	<10.0		10.0	2.20	ug/L		06/04/24 13:08	06/07/24 18:26	1
Famphur	<10.0	*+	10.0	3.80	ug/L		06/04/24 13:08	06/07/24 18:26	1
Fluoranthene	<10.0		10.0	1.70	ug/L		06/04/24 13:08	06/07/24 18:26	1
Fluorene	<10.0		10.0	0.790	ug/L		06/04/24 13:08	06/07/24 18:26	1
Hexachlorobenzene	<10.0		10.0	0.700	ug/L		06/04/24 13:08	06/07/24 18:26	1
Hexachlorobutadiene	<10.0		10.0	0.860	ug/L		06/04/24 13:08	06/07/24 18:26	1
Hexachlorocyclopentadiene	<10.0		10.0	5.10	ug/L		06/04/24 13:08	06/07/24 18:26	1
Hexachloroethane	<10.0		10.0	0.970	ug/L		06/04/24 13:08	06/07/24 18:26	1
Hexachloropropene	<10.0		10.0	2.60	ug/L		06/04/24 13:08	06/07/24 18:26	1
Indeno(1,2,3-cd)pyrene	<10.0		10.0	4.20	ug/L		06/04/24 13:08	06/07/24 18:26	1
Isodrin	<10.0		10.0	4.70	ug/L		06/04/24 13:08	06/07/24 18:26	1
Isophorone	<10.0		10.0	0.930	ug/L		06/04/24 13:08	06/07/24 18:26	1

Client Sample ID: MW-13R
Lab Sample ID: 310-282518-6
Date Collected: 05/30/24 08:40
Matrix: Groundwater
Date Received: 05/31/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isosafrole	<10.0		10.0	2.30	ug/L		06/04/24 13:08	06/07/24 18:26	1
Kepone	<10.0		10.0	1.00	ug/L		06/04/24 13:08	06/07/24 18:26	1
Methapyrilene	<10.0	*1	10.0	0.760	ug/L		06/04/24 13:08	06/07/24 18:26	1
Methyl methanesulfonate	<10.0		10.0	3.30	ug/L		06/04/24 13:08	06/07/24 18:26	1
Methyl parathion	<10.0		10.0	2.30	ug/L		06/04/24 13:08	06/07/24 18:26	1
Nitrobenzene	<10.0		10.0	0.800	ug/L		06/04/24 13:08	06/07/24 18:26	1
N-Nitrosodiethylamine	<10.0		10.0	3.40	ug/L		06/04/24 13:08	06/07/24 18:26	1
N-Nitrosodimethylamine	<10.0		10.0	0.720	ug/L		06/04/24 13:08	06/07/24 18:26	1
N-Nitrosodi-n-butylamine	<10.0		10.0	3.90	ug/L		06/04/24 13:08	06/07/24 18:26	1
N-Nitrosodi-n-propylamine	<10.0		10.0	0.920	ug/L		06/04/24 13:08	06/07/24 18:26	1
N-Nitrosodiphenylamine	<10.0		10.0	0.750	ug/L		06/04/24 13:08	06/07/24 18:26	1
N-Nitrosomethylethylamine	<10.0		10.0	4.90	ug/L		06/04/24 13:08	06/07/24 18:26	1
N-Nitrosopiperidine	<10.0		10.0	2.70	ug/L		06/04/24 13:08	06/07/24 18:26	1
N-Nitrosopyrrolidine	<10.0		10.0	3.60	ug/L		06/04/24 13:08	06/07/24 18:26	1
o,o',o''-Triethylphosphorothioate	<10.0		10.0	3.20	ug/L		06/04/24 13:08	06/07/24 18:26	1
o-Toluidine	<10.0		10.0	2.90	ug/L		06/04/24 13:08	06/07/24 18:26	1
p-Dimethylamino azobenzene	<10.0		10.0	2.20	ug/L		06/04/24 13:08	06/07/24 18:26	1
Pentachlorobenzene	<10.0		10.0	2.80	ug/L		06/04/24 13:08	06/07/24 18:26	1
Pentachloronitrobenzene	<10.0		10.0	5.80	ug/L		06/04/24 13:08	06/07/24 18:26	1
Pentachlorophenol	<10.0		10.0	9.60	ug/L		06/04/24 13:08	06/07/24 18:26	1
Phenacetin	<10.0		10.0	1.90	ug/L		06/04/24 13:08	06/07/24 18:26	1
Phenanthrene	<10.0		10.0	0.790	ug/L		06/04/24 13:08	06/07/24 18:26	1
Phenol	<10.0		10.0	1.10	ug/L		06/04/24 13:08	06/07/24 18:26	1
Phorate	<10.0		10.0	3.20	ug/L		06/04/24 13:08	06/07/24 18:26	1
Pronamide	<10.0		10.0	2.70	ug/L		06/04/24 13:08	06/07/24 18:26	1
Pyrene	<10.0		10.0	0.790	ug/L		06/04/24 13:08	06/07/24 18:26	1
Safrole	<10.0		10.0	2.80	ug/L		06/04/24 13:08	06/07/24 18:26	1
Thionazin	<10.0		10.0	3.50	ug/L		06/04/24 13:08	06/07/24 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*68*		*25 - 110*	*06/04/24 13:08*	*06/07/24 18:26*	*1*
Phenol-d5 (Surr)	*67*		*21 - 110*	*06/04/24 13:08*	*06/07/24 18:26*	*1*
Nitrobenzene-d5 (Surr)	*101*		*45 - 129*	*06/04/24 13:08*	*06/07/24 18:26*	*1*
2-Fluorobiphenyl (Surr)	*93*		*39 - 118*	*06/04/24 13:08*	*06/07/24 18:26*	*1*
2,4,6-Tribromophenol (Surr)	*92*		*27 - 136*	*06/04/24 13:08*	*06/07/24 18:26*	*1*
Terphenyl-d14 (Surr)	*115*		*12 - 144*	*06/04/24 13:08*	*06/07/24 18:26*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetonitrile	<10.0		10.0	2.60	mg/L			06/05/24 15:41	1
Isobutanol	<10.0		10.0	2.40	mg/L			06/05/24 15:41	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0627		0.0627	0.0265	ug/L		06/03/24 09:59	06/10/24 22:00	1
4,4'-DDE	<0.0627		0.0627	0.0265	ug/L		06/03/24 09:59	06/10/24 22:00	1
4,4'-DDT	<0.0627		0.0627	0.0412	ug/L		06/03/24 09:59	06/10/24 22:00	1
Aldrin	<0.0627		0.0627	0.0314	ug/L		06/03/24 09:59	06/10/24 22:00	1
alpha-BHC	<0.0627		0.0627	0.0284	ug/L		06/03/24 09:59	06/10/24 22:00	1
beta-BHC	<0.0627		0.0627	0.0363	ug/L		06/03/24 09:59	06/10/24 22:00	1

Client Sample ID: MW-13R
Lab Sample ID: 310-282518-6
Date Collected: 05/30/24 08:40
Matrix: Groundwater
Date Received: 05/31/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	<1.96		1.96	0.794	ug/L		06/03/24 09:59	06/10/24 22:00	1
delta-BHC	<0.0627		0.0627	0.0265	ug/L		06/03/24 09:59	06/10/24 22:00	1
Dieldrin	<0.0627		0.0627	0.0255	ug/L		06/03/24 09:59	06/10/24 22:00	1
Endosulfan I	<0.0627		0.0627	0.0324	ug/L		06/03/24 09:59	06/10/24 22:00	1
Endosulfan II	<0.0627		0.0627	0.0284	ug/L		06/03/24 09:59	06/10/24 22:00	1
Endosulfan sulfate	<0.0627		0.0627	0.0294	ug/L		06/03/24 09:59	06/10/24 22:00	1
Endrin	<0.0627		0.0627	0.0255	ug/L		06/03/24 09:59	06/10/24 22:00	1
Endrin aldehyde	<0.0627		0.0627	0.0284	ug/L		06/03/24 09:59	06/10/24 22:00	1
gamma-BHC (Lindane)	<0.0627		0.0627	0.0353	ug/L		06/03/24 09:59	06/10/24 22:00	1
Heptachlor	<0.0627		0.0627	0.0324	ug/L		06/03/24 09:59	06/10/24 22:00	1
Heptachlor epoxide	<0.0627		0.0627	0.0284	ug/L		06/03/24 09:59	06/10/24 22:00	1
Methoxychlor	<0.0627		0.0627	0.0402	ug/L		06/03/24 09:59	06/10/24 22:00	1
Toxaphene	<1.96		1.96	0.676	ug/L		06/03/24 09:59	06/10/24 22:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*68*		*10 - 136*	*06/03/24 09:59*	*06/10/24 22:00*	*1*
Tetrachloro-m-xylene	*68*		*10 - 130*	*06/03/24 09:59*	*06/10/24 22:00*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.784		0.784	0.167	ug/L		06/03/24 09:59	06/10/24 22:00	1
PCB-1221	<0.784		0.784	0.167	ug/L		06/03/24 09:59	06/10/24 22:00	1
PCB-1232	<0.784		0.784	0.167	ug/L		06/03/24 09:59	06/10/24 22:00	1
PCB-1242	<0.784		0.784	0.167	ug/L		06/03/24 09:59	06/10/24 22:00	1
PCB-1248	<0.784		0.784	0.108	ug/L		06/03/24 09:59	06/10/24 22:00	1
PCB-1254	<0.784		0.784	0.108	ug/L		06/03/24 09:59	06/10/24 22:00	1
PCB-1260	<0.784		0.784	0.108	ug/L		06/03/24 09:59	06/10/24 22:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*68*		*10 - 136*	*06/03/24 09:59*	*06/10/24 22:00*	*1*
Tetrachloro-m-xylene	*68*		*10 - 130*	*06/03/24 09:59*	*06/10/24 22:00*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	<0.159		0.159	0.0688	ug/L		06/05/24 15:12	06/06/24 11:10	1
Silvex (2,4,5-TP)	<0.0529		0.0529	0.0233	ug/L		06/05/24 15:12	06/06/24 11:10	1
2,4-D	<0.635		0.635	0.265	ug/L		06/05/24 15:12	06/06/24 11:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr)	*57*		*34 - 142*	*06/05/24 15:12*	*06/06/24 11:10*	*1*
2,4-Dichlorophenylacetic acid (Surr)	*53*		*34 - 142*	*06/05/24 15:12*	*06/06/24 11:10*	*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		06/04/24 09:15	06/07/24 15:25	1
Arsenic	**0.0547**		0.00200	0.000530	mg/L		06/04/24 09:15	06/07/24 15:25	1
Barium	**0.672**		0.00200	0.000660	mg/L		06/04/24 09:15	06/07/24 15:25	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/04/24 09:15	06/07/24 15:25	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		06/04/24 09:15	06/07/24 15:25	1
Chromium	<0.00500		0.00500	0.00120	mg/L		06/04/24 09:15	06/07/24 15:25	1
Cobalt	**0.0123**		0.000500	0.000170	mg/L		06/04/24 09:15	06/14/24 16:13	1

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Client Sample ID: MW-13R
Lab Sample ID: 310-282518-6
Date Collected: 05/30/24 08:40
Matrix: Groundwater
Date Received: 05/31/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.00500		0.00500	0.00180	mg/L		06/04/24 09:15	06/07/24 15:25	1
Lead	<0.000500		0.000500	0.000260	mg/L		06/04/24 09:15	06/07/24 15:25	1
Nickel	**0.0183**		0.00500	0.00210	mg/L		06/04/24 09:15	06/07/24 15:25	1
Selenium	<0.00500		0.00500	0.00140	mg/L		06/04/24 09:15	06/07/24 15:25	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/04/24 09:15	06/14/24 15:09	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/04/24 09:15	06/07/24 15:25	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		06/04/24 09:15	06/07/24 15:25	1
Zinc	<0.0200		0.0200	0.00970	mg/L		06/04/24 09:15	06/07/24 15:25	1
Tin	<5.00		5.00	2.30	ug/L		06/04/24 09:15	06/14/24 16:13	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200	0.000110	mg/L		06/04/24 10:22	06/06/24 11:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.0100		0.0100	0.00350	mg/L		06/05/24 12:26	06/06/24 17:17	1
Sulfide (SW846 9034)	<1.00		1.00	0.231	mg/L		06/04/24 18:21	06/04/24 22:34	1
Total Suspended Solids (USGS I-3765-85)	**3.50**		1.88	1.39	mg/L			06/04/24 07:45	1

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Client Sample ID: MW-14R
Lab Sample ID: 310-282518-7
Date Collected: 05/29/24 15:27
Matrix: Groundwater
Date Received: 05/31/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			06/04/24 03:50	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/04/24 03:50	1
Benzene	<0.500		0.500	0.220	ug/L			06/04/24 03:50	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/04/24 03:50	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/04/24 03:50	1
Bromoform	<5.00		5.00	0.780	ug/L			06/04/24 03:50	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/04/24 03:50	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/04/24 03:50	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/04/24 03:50	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/04/24 03:50	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/04/24 03:50	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/04/24 03:50	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/04/24 03:50	1
Chloroform	<3.00		3.00	1.30	ug/L			06/04/24 03:50	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/04/24 03:50	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/04/24 03:50	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/04/24 03:50	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/04/24 03:50	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/04/24 03:50	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/04/24 03:50	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/04/24 03:50	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/04/24 03:50	1
1,1-Dichloroethane	**0.227**	**J**	1.00	0.220	ug/L			06/04/24 03:50	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/04/24 03:50	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/04/24 03:50	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/04/24 03:50	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/04/24 03:50	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/04/24 03:50	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/04/24 03:50	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/04/24 03:50	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/04/24 03:50	1
Styrene	<1.00		1.00	0.370	ug/L			06/04/24 03:50	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			06/04/24 03:50	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/04/24 03:50	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/04/24 03:50	1
Toluene	<1.00		1.00	0.430	ug/L			06/04/24 03:50	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/04/24 03:50	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/04/24 03:50	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/04/24 03:50	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/04/24 03:50	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/04/24 03:50	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/04/24 03:50	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/04/24 03:50	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/04/24 03:50	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/04/24 03:50	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/04/24 03:50	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/04/24 03:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*06/04/24 03:50*	*1*

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Client Sample ID: MW-14R
Lab Sample ID: 310-282518-7
Date Collected: 05/29/24 15:27
Matrix: Groundwater
Date Received: 05/31/24 16:00

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*73 - 130*		*06/04/24 03:50*	*1*
Toluene-d8 (Surr)	*81*		*80 - 120*		*06/04/24 03:50*	*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		06/04/24 09:15	06/07/24 15:27	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		06/04/24 09:15	06/07/24 15:27	1
Barium	**0.0934**		0.00200	0.000660	mg/L		06/04/24 09:15	06/07/24 15:27	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/04/24 09:15	06/07/24 15:27	1
Cadmium	**0.000110**	**J**	0.000200	0.000100	mg/L		06/04/24 09:15	06/07/24 15:27	1
Chromium	<0.00500		0.00500	0.00120	mg/L		06/04/24 09:15	06/07/24 15:27	1
Cobalt	**0.000900**		0.000500	0.000170	mg/L		06/04/24 09:15	06/14/24 16:31	1
Copper	**0.00189**	**J**	0.00500	0.00180	mg/L		06/04/24 09:15	06/07/24 15:27	1
Lead	<0.000500		0.000500	0.000260	mg/L		06/04/24 09:15	06/07/24 15:27	1
Nickel	**0.0126**		0.00500	0.00210	mg/L		06/04/24 09:15	06/07/24 15:27	1
Selenium	<0.00500		0.00500	0.00140	mg/L		06/04/24 09:15	06/07/24 15:27	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/04/24 09:15	06/14/24 15:11	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/04/24 09:15	06/07/24 15:27	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		06/04/24 09:15	06/07/24 15:27	1
Zinc	<0.0200		0.0200	0.00970	mg/L		06/04/24 09:15	06/07/24 15:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**2.00**		1.88	1.39	mg/L			06/04/24 07:45	1

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Client Sample ID: MW-15R
Lab Sample ID: 310-282518-8
Date Collected: 05/29/24 09:06
Matrix: Groundwater
Date Received: 05/31/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			06/04/24 04:12	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/04/24 04:12	1
Benzene	**1.08**		0.500	0.220	ug/L			06/04/24 04:12	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/04/24 04:12	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/04/24 04:12	1
Bromoform	<5.00		5.00	0.780	ug/L			06/04/24 04:12	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/04/24 04:12	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/04/24 04:12	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/04/24 04:12	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/04/24 04:12	1
Chlorobenzene	**1.96**		1.00	0.400	ug/L			06/04/24 04:12	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/04/24 04:12	1
Chloroethane	**1.47**	**J**	4.00	0.790	ug/L			06/04/24 04:12	1
Chloroform	<3.00		3.00	1.30	ug/L			06/04/24 04:12	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/04/24 04:12	1
cis-1,2-Dichloroethene	**0.360**	**J**	1.00	0.210	ug/L			06/04/24 04:12	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/04/24 04:12	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/04/24 04:12	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/04/24 04:12	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/04/24 04:12	1
1,2-Dichlorobenzene	**0.424**	**J**	1.00	0.370	ug/L			06/04/24 04:12	1
1,4-Dichlorobenzene	**2.01**		1.00	0.230	ug/L			06/04/24 04:12	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/04/24 04:12	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/04/24 04:12	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/04/24 04:12	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/04/24 04:12	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/04/24 04:12	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/04/24 04:12	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/04/24 04:12	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/04/24 04:12	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/04/24 04:12	1
Styrene	<1.00		1.00	0.370	ug/L			06/04/24 04:12	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			06/04/24 04:12	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/04/24 04:12	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/04/24 04:12	1
Toluene	<1.00		1.00	0.430	ug/L			06/04/24 04:12	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/04/24 04:12	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/04/24 04:12	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/04/24 04:12	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/04/24 04:12	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/04/24 04:12	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/04/24 04:12	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/04/24 04:12	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/04/24 04:12	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/04/24 04:12	1
Vinyl chloride	**1.18**		1.00	0.180	ug/L			06/04/24 04:12	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/04/24 04:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*06/04/24 04:12*	*1*

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Client Sample ID: MW-15R
Lab Sample ID: 310-282518-8
Date Collected: 05/29/24 09:06
Matrix: Groundwater
Date Received: 05/31/24 16:00

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*73 - 130*		*06/04/24 04:12*	*1*
Toluene-d8 (Surr)	*111*		*80 - 120*		*06/04/24 04:12*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		06/04/24 09:15	06/07/24 15:29	1
Arsenic	**0.00119**	**J**	0.00200	0.000530	mg/L		06/04/24 09:15	06/07/24 15:29	1
Barium	**0.0867**		0.00200	0.000660	mg/L		06/04/24 09:15	06/07/24 15:29	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/04/24 09:15	06/07/24 15:29	1
Cadmium	**0.000164**	**J**	0.000200	0.000100	mg/L		06/04/24 09:15	06/07/24 15:29	1
Chromium	<0.00500		0.00500	0.00120	mg/L		06/04/24 09:15	06/07/24 15:29	1
Cobalt	**0.00250**		0.000500	0.000170	mg/L		06/04/24 09:15	06/14/24 16:35	1
Copper	<0.00500		0.00500	0.00180	mg/L		06/04/24 09:15	06/07/24 15:29	1
Lead	<0.000500		0.000500	0.000260	mg/L		06/04/24 09:15	06/07/24 15:29	1
Nickel	**0.0107**		0.00500	0.00210	mg/L		06/04/24 09:15	06/07/24 15:29	1
Selenium	<0.00500		0.00500	0.00140	mg/L		06/04/24 09:15	06/07/24 15:29	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/04/24 09:15	06/14/24 15:13	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/04/24 09:15	06/07/24 15:29	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		06/04/24 09:15	06/07/24 15:29	1
Zinc	**0.0106**	**J**	0.0200	0.00970	mg/L		06/04/24 09:15	06/07/24 15:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**67.0**		15.0	11.1	mg/L			06/04/24 07:45	1

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Client Sample ID: MW-39
Lab Sample ID: 310-282518-9
Date Collected: 05/29/24 19:08
Matrix: Groundwater
Date Received: 05/31/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**4.61**	**J**	10.0	3.10	ug/L			06/04/24 04:34	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/04/24 04:34	1
Benzene	**1.63**		0.500	0.220	ug/L			06/04/24 04:34	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/04/24 04:34	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/04/24 04:34	1
Bromoform	<5.00		5.00	0.780	ug/L			06/04/24 04:34	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/04/24 04:34	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/04/24 04:34	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/04/24 04:34	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/04/24 04:34	1
Chlorobenzene	**10.4**		1.00	0.400	ug/L			06/04/24 04:34	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/04/24 04:34	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/04/24 04:34	1
Chloroform	<3.00		3.00	1.30	ug/L			06/04/24 04:34	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/04/24 04:34	1
cis-1,2-Dichloroethene	**0.472**	**J**	1.00	0.210	ug/L			06/04/24 04:34	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/04/24 04:34	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/04/24 04:34	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/04/24 04:34	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/04/24 04:34	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/04/24 04:34	1
1,4-Dichlorobenzene	**10.7**		1.00	0.230	ug/L			06/04/24 04:34	1
1,1-Dichloroethane	**0.319**	**J**	1.00	0.220	ug/L			06/04/24 04:34	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/04/24 04:34	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/04/24 04:34	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/04/24 04:34	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/04/24 04:34	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/04/24 04:34	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/04/24 04:34	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/04/24 04:34	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/04/24 04:34	1
Styrene	<1.00		1.00	0.370	ug/L			06/04/24 04:34	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			06/04/24 04:34	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/04/24 04:34	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/04/24 04:34	1
Toluene	**0.635**	**J**	1.00	0.430	ug/L			06/04/24 04:34	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/04/24 04:34	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/04/24 04:34	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/04/24 04:34	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/04/24 04:34	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/04/24 04:34	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/04/24 04:34	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/04/24 04:34	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/04/24 04:34	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/04/24 04:34	1
Vinyl chloride	**2.03**		1.00	0.180	ug/L			06/04/24 04:34	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/04/24 04:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*06/04/24 04:34*	*1*

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Client Sample ID: MW-39
Lab Sample ID: 310-282518-9
Date Collected: 05/29/24 19:08
Matrix: Groundwater
Date Received: 05/31/24 16:00

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*73 - 130*		*06/04/24 04:34*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/04/24 04:34*	*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		06/04/24 09:15	06/07/24 15:32	1
Arsenic	**0.0219**		0.00200	0.000530	mg/L		06/04/24 09:15	06/07/24 15:32	1
Barium	**0.704**		0.00200	0.000660	mg/L		06/04/24 09:15	06/14/24 15:15	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/04/24 09:15	06/07/24 15:32	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		06/04/24 09:15	06/07/24 15:32	1
Chromium	<0.00500		0.00500	0.00120	mg/L		06/04/24 09:15	06/07/24 15:32	1
Cobalt	**0.00978**		0.00200	0.000680	mg/L		06/04/24 09:15	06/14/24 16:38	4
Copper	**0.00187**	**J**	0.00500	0.00180	mg/L		06/04/24 09:15	06/07/24 15:32	1
Lead	**0.000583**		0.000500	0.000260	mg/L		06/04/24 09:15	06/07/24 15:32	1
Nickel	**0.0157**		0.00500	0.00210	mg/L		06/04/24 09:15	06/07/24 15:32	1
Selenium	<0.00500		0.00500	0.00140	mg/L		06/04/24 09:15	06/07/24 15:32	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/04/24 09:15	06/14/24 15:15	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/04/24 09:15	06/07/24 15:32	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		06/04/24 09:15	06/07/24 15:32	1
Zinc	<0.0200		0.0200	0.00970	mg/L		06/04/24 09:15	06/07/24 15:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**123**		15.0	11.1	mg/L			06/04/24 07:45	1

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Client Sample ID: MW-15C
Lab Sample ID: 310-282518-10
Date Collected: 05/29/24 09:58
Matrix: Groundwater
Date Received: 05/31/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			06/04/24 04:55	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/04/24 04:55	1
Benzene	<0.500		0.500	0.220	ug/L			06/04/24 04:55	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/04/24 04:55	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/04/24 04:55	1
Bromoform	<5.00		5.00	0.780	ug/L			06/04/24 04:55	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/04/24 04:55	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/04/24 04:55	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/04/24 04:55	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/04/24 04:55	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/04/24 04:55	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/04/24 04:55	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/04/24 04:55	1
Chloroform	<3.00		3.00	1.30	ug/L			06/04/24 04:55	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/04/24 04:55	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/04/24 04:55	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/04/24 04:55	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/04/24 04:55	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/04/24 04:55	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/04/24 04:55	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/04/24 04:55	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/04/24 04:55	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/04/24 04:55	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/04/24 04:55	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/04/24 04:55	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/04/24 04:55	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/04/24 04:55	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/04/24 04:55	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/04/24 04:55	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/04/24 04:55	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/04/24 04:55	1
Styrene	<1.00		1.00	0.370	ug/L			06/04/24 04:55	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			06/04/24 04:55	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/04/24 04:55	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/04/24 04:55	1
Toluene	<1.00		1.00	0.430	ug/L			06/04/24 04:55	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/04/24 04:55	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/04/24 04:55	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/04/24 04:55	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/04/24 04:55	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/04/24 04:55	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/04/24 04:55	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/04/24 04:55	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/04/24 04:55	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/04/24 04:55	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/04/24 04:55	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/04/24 04:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*06/04/24 04:55*	*1*

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Client Sample ID: MW-15C
Lab Sample ID: 310-282518-10
Date Collected: 05/29/24 09:58
Matrix: Groundwater
Date Received: 05/31/24 16:00

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*73 - 130*		*06/04/24 04:55*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/04/24 04:55*	*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		06/04/24 09:15	06/07/24 15:34	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		06/04/24 09:15	06/07/24 15:34	1
Barium	**0.0902**		0.00200	0.000660	mg/L		06/04/24 09:15	06/07/24 15:34	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/04/24 09:15	06/07/24 15:34	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		06/04/24 09:15	06/07/24 15:34	1
Chromium	<0.00500		0.00500	0.00120	mg/L		06/04/24 09:15	06/07/24 15:34	1
Cobalt	**0.000172**	**J**	0.000500	0.000170	mg/L		06/04/24 09:15	06/14/24 16:42	1
Copper	<0.00500		0.00500	0.00180	mg/L		06/04/24 09:15	06/07/24 15:34	1
Lead	<0.000500		0.000500	0.000260	mg/L		06/04/24 09:15	06/07/24 15:34	1
Nickel	**0.00664**		0.00500	0.00210	mg/L		06/04/24 09:15	06/07/24 15:34	1
Selenium	<0.00500		0.00500	0.00140	mg/L		06/04/24 09:15	06/07/24 15:34	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/04/24 09:15	06/14/24 15:17	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/04/24 09:15	06/07/24 15:34	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		06/04/24 09:15	06/07/24 15:34	1
Zinc	<0.0200		0.0200	0.00970	mg/L		06/04/24 09:15	06/07/24 15:34	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			06/04/24 07:45	1

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Client Sample ID: MW-44
Lab Sample ID: 310-282518-11
Date Collected: 05/29/24 16:13
Matrix: Groundwater
Date Received: 05/31/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			06/04/24 05:17	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/04/24 05:17	1
Benzene	<0.500		0.500	0.220	ug/L			06/04/24 05:17	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/04/24 05:17	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/04/24 05:17	1
Bromoform	<5.00		5.00	0.780	ug/L			06/04/24 05:17	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/04/24 05:17	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/04/24 05:17	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/04/24 05:17	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/04/24 05:17	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/04/24 05:17	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/04/24 05:17	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/04/24 05:17	1
Chloroform	<3.00		3.00	1.30	ug/L			06/04/24 05:17	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/04/24 05:17	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/04/24 05:17	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/04/24 05:17	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/04/24 05:17	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/04/24 05:17	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/04/24 05:17	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/04/24 05:17	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/04/24 05:17	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/04/24 05:17	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/04/24 05:17	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/04/24 05:17	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/04/24 05:17	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/04/24 05:17	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/04/24 05:17	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/04/24 05:17	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/04/24 05:17	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/04/24 05:17	1
Styrene	<1.00		1.00	0.370	ug/L			06/04/24 05:17	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			06/04/24 05:17	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/04/24 05:17	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/04/24 05:17	1
Toluene	<1.00		1.00	0.430	ug/L			06/04/24 05:17	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/04/24 05:17	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/04/24 05:17	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/04/24 05:17	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/04/24 05:17	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/04/24 05:17	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/04/24 05:17	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/04/24 05:17	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/04/24 05:17	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/04/24 05:17	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/04/24 05:17	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/04/24 05:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*06/04/24 05:17*	*1*

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Client Sample ID: MW-44
Lab Sample ID: 310-282518-11
Date Collected: 05/29/24 16:13
Matrix: Groundwater
Date Received: 05/31/24 16:00

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*73 - 130*		*06/04/24 05:17*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*06/04/24 05:17*	*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		06/04/24 09:15	06/07/24 15:38	1
Arsenic	**0.00971**		0.00200	0.000530	mg/L		06/04/24 09:15	06/07/24 15:38	1
Barium	**0.0190**		0.00200	0.000660	mg/L		06/04/24 09:15	06/07/24 15:38	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/04/24 09:15	06/07/24 15:38	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		06/04/24 09:15	06/07/24 15:38	1
Chromium	<0.00500		0.00500	0.00120	mg/L		06/04/24 09:15	06/07/24 15:38	1
Cobalt	**0.000362**	**J**	0.000500	0.000170	mg/L		06/04/24 09:15	06/14/24 16:49	1
Copper	<0.00500		0.00500	0.00180	mg/L		06/04/24 09:15	06/07/24 15:38	1
Lead	<0.000500		0.000500	0.000260	mg/L		06/04/24 09:15	06/07/24 15:38	1
Nickel	<0.00500		0.00500	0.00210	mg/L		06/04/24 09:15	06/07/24 15:38	1
Selenium	<0.00500		0.00500	0.00140	mg/L		06/04/24 09:15	06/07/24 15:38	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/04/24 09:15	06/14/24 15:30	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/04/24 09:15	06/07/24 15:38	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		06/04/24 09:15	06/07/24 15:38	1
Zinc	<0.0200		0.0200	0.00970	mg/L		06/04/24 09:15	06/07/24 15:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**48.0**		7.50	5.55	mg/L			06/04/24 07:45	1

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Client Sample ID: MW-DC
Lab Sample ID: 310-282518-12
Date Collected: 05/30/24 08:40
Matrix: Groundwater
Date Received: 05/31/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**6.30**	**J**	10.0	3.10	ug/L			06/04/24 05:39	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/04/24 05:39	1
Benzene	**0.238**	**J**	0.500	0.220	ug/L			06/04/24 05:39	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/04/24 05:39	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/04/24 05:39	1
Bromoform	<5.00		5.00	0.780	ug/L			06/04/24 05:39	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/04/24 05:39	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/04/24 05:39	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/04/24 05:39	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/04/24 05:39	1
Chlorobenzene	**1.63**		1.00	0.400	ug/L			06/04/24 05:39	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/04/24 05:39	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/04/24 05:39	1
Chloroform	<3.00		3.00	1.30	ug/L			06/04/24 05:39	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/04/24 05:39	1
cis-1,2-Dichloroethene	**0.223**	**J**	1.00	0.210	ug/L			06/04/24 05:39	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/04/24 05:39	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/04/24 05:39	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/04/24 05:39	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/04/24 05:39	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/04/24 05:39	1
1,4-Dichlorobenzene	**0.363**	**J**	1.00	0.230	ug/L			06/04/24 05:39	1
1,1-Dichloroethane	**0.410**	**J**	1.00	0.220	ug/L			06/04/24 05:39	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/04/24 05:39	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/04/24 05:39	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/04/24 05:39	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/04/24 05:39	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/04/24 05:39	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/04/24 05:39	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/04/24 05:39	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/04/24 05:39	1
Styrene	<1.00		1.00	0.370	ug/L			06/04/24 05:39	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			06/04/24 05:39	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/04/24 05:39	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/04/24 05:39	1
Toluene	<1.00		1.00	0.430	ug/L			06/04/24 05:39	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/04/24 05:39	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/04/24 05:39	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/04/24 05:39	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/04/24 05:39	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/04/24 05:39	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/04/24 05:39	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/04/24 05:39	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/04/24 05:39	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/04/24 05:39	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/04/24 05:39	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/04/24 05:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*06/04/24 05:39*	*1*

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Client Sample ID: MW-DC
Lab Sample ID: 310-282518-12
Date Collected: 05/30/24 08:40
Matrix: Groundwater
Date Received: 05/31/24 16:00

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*73 - 130*		*06/04/24 05:39*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/04/24 05:39*	*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		06/04/24 09:15	06/07/24 15:49	1
Arsenic	**0.00110**	**J**	0.00200	0.000530	mg/L		06/04/24 09:15	06/07/24 15:49	1
Barium	**0.0839**		0.00200	0.000660	mg/L		06/04/24 09:15	06/07/24 15:49	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/04/24 09:15	06/07/24 15:49	1
Cadmium	**0.000164**	**J**	0.000200	0.000100	mg/L		06/04/24 09:15	06/07/24 15:49	1
Chromium	<0.00500		0.00500	0.00120	mg/L		06/04/24 09:15	06/07/24 15:49	1
Cobalt	**0.00232**		0.000500	0.000170	mg/L		06/04/24 09:15	06/14/24 16:53	1
Copper	<0.00500		0.00500	0.00180	mg/L		06/04/24 09:15	06/07/24 15:49	1
Lead	<0.000500		0.000500	0.000260	mg/L		06/04/24 09:15	06/07/24 15:49	1
Nickel	**0.0104**		0.00500	0.00210	mg/L		06/04/24 09:15	06/07/24 15:49	1
Selenium	<0.00500		0.00500	0.00140	mg/L		06/04/24 09:15	06/07/24 15:49	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/04/24 09:15	06/14/24 15:33	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/04/24 09:15	06/07/24 15:49	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		06/04/24 09:15	06/07/24 15:49	1
Zinc	<0.0200		0.0200	0.00970	mg/L		06/04/24 09:15	06/07/24 15:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**2.63**		1.88	1.39	mg/L			06/04/24 07:45	1

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Client Sample ID: Trip Blank
Lab Sample ID: 310-282518-13
Date Collected: 05/30/24 00:00
Matrix: Groundwater
Date Received: 05/31/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			06/04/24 02:01	1
Acrolein	<10.0		10.0	3.60	ug/L			06/04/24 02:01	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/04/24 02:01	1
Allyl chloride	<2.00		2.00	0.700	ug/L			06/04/24 02:01	1
Benzene	<0.500		0.500	0.220	ug/L			06/04/24 02:01	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/04/24 02:01	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/04/24 02:01	1
Bromoform	<5.00		5.00	0.780	ug/L			06/04/24 02:01	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/04/24 02:01	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/04/24 02:01	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/04/24 02:01	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/04/24 02:01	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/04/24 02:01	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/04/24 02:01	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/04/24 02:01	1
Chloroform	<3.00		3.00	1.30	ug/L			06/04/24 02:01	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/04/24 02:01	1
Chloroprene	<1.00		1.00	0.230	ug/L			06/04/24 02:01	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/04/24 02:01	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/04/24 02:01	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/04/24 02:01	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/04/24 02:01	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/04/24 02:01	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/04/24 02:01	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			06/04/24 02:01	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/04/24 02:01	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			06/04/24 02:01	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/04/24 02:01	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/04/24 02:01	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/04/24 02:01	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/04/24 02:01	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			06/04/24 02:01	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			06/04/24 02:01	1
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			06/04/24 02:01	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/04/24 02:01	1
Ethyl methacrylate	<2.00		2.00	0.680	ug/L			06/04/24 02:01	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/04/24 02:01	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/04/24 02:01	1
Methacrylonitrile	<10.0		10.0	3.30	ug/L			06/04/24 02:01	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/04/24 02:01	1
Methyl methacrylate	<2.00		2.00	0.760	ug/L			06/04/24 02:01	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/04/24 02:01	1
Naphthalene	<5.00		5.00	3.00	ug/L			06/04/24 02:01	1
Propionitrile	<10.0		10.0	3.40	ug/L			06/04/24 02:01	1
Styrene	<1.00		1.00	0.370	ug/L			06/04/24 02:01	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			06/04/24 02:01	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/04/24 02:01	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/04/24 02:01	1
Toluene	<1.00		1.00	0.430	ug/L			06/04/24 02:01	1

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Client Sample ID: Trip Blank
Lab Sample ID: 310-282518-13
Date Collected: 05/30/24 00:00
Matrix: Groundwater
Date Received: 05/31/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/04/24 02:01	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/04/24 02:01	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/04/24 02:01	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			06/04/24 02:01	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/04/24 02:01	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/04/24 02:01	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/04/24 02:01	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/04/24 02:01	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/04/24 02:01	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/04/24 02:01	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/04/24 02:01	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/04/24 02:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*06/04/24 02:01*	*1*
Dibromofluoromethane (Surr)	*99*		*73 - 130*		*06/04/24 02:01*	*1*
Toluene-d8 (Surr)	*85*		*80 - 120*		*06/04/24 02:01*	*1*

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

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

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Surrogate Summary

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(73-130)	(80-120)
310-282518-2	MW-7	101	106	99
310-282518-4	MW-10R	98	105	98
310-282518-5	MW-12	100	104	99
310-282518-6	MW-13R	109	104	97
310-282518-6 MS	MW-13R	103	113	120
310-282518-6 MSD	MW-13R	102	99	101
310-282518-7	MW-14R	106	100	81
310-282518-8	MW-15R	107	100	111
310-282518-9	MW-39	103	100	101
310-282518-10	MW-15C	106	98	99
310-282518-11	MW-44	107	103	97
310-282518-12	MW-DC	107	101	98
310-282518-13	Trip Blank	108	99	85

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(73-130)	(80-120)
LCS 310-423352/6	Lab Control Sample	102	96	105
LCS 310-423352/7	Lab Control Sample	108	100	84
LCS 310-423354/6	Lab Control Sample	103	99	101
LCS 310-423354/7	Lab Control Sample	99	103	101
MB 310-423352/5	Method Blank	108	99	112
MB 310-423354/5	Method Blank	97	103	100

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(25-110)	(21-110)	(45-129)	(39-118)	(27-136)	(12-144)
310-282518-5	MW-12	74	73	108	97	100	120
310-282518-6	MW-13R	68	67	101	93	92	115

Surrogate Legend

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

TPHL = Terphenyl-d14 (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(25-110)	(21-110)	(45-129)	(39-118)	(27-136)	(12-144)
LCS 310-423508/2-A	Lab Control Sample	64	60	89	78	93	105
LCSD 310-423508/3-A	Lab Control Sample Dup	70	65	97	92	97	114
MB 310-423508/1-A	Method Blank	64	61	100	87	90	106

Surrogate Legend

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

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(10-136)	(10-130)
310-282518-5	MW-12	78	74
310-282518-6	MW-13R	68	68

Surrogate Legend

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

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(10-136)	(10-130)
LCS 310-423348/2-A	Lab Control Sample	82	59
LCSD 310-423348/3-A	Lab Control Sample Dup	77	53
MB 310-423348/1-A	Method Blank	83	68

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(10-136)	(10-130)
310-282518-5	MW-12	78	74
310-282518-6	MW-13R	68	68

Surrogate Legend

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

Surrogate Summary

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
		DCB1	TCX1										
Lab Sample ID	Client Sample ID	(10-136)	(10-130)										
LCS 310-423348/4-A	Lab Control Sample	84	63										
LCSD 310-423348/5-A	Lab Control Sample Dup	76	49										
MB 310-423348/1-A	Method Blank	83	68										

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

Method: 8151A - Herbicides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)											
		DCPAA1	DCPAA2										
Lab Sample ID	Client Sample ID	(34-142)	(34-142)										
310-282518-5	MW-12	51	51										
310-282518-6	MW-13R	57	53										

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid (Surr)

Method: 8151A - Herbicides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)											
		DCPAA1	DCPAA2										
Lab Sample ID	Client Sample ID	(34-142)	(34-142)										
LCS 410-514063/2-A	Lab Control Sample	70	71										
LCSD 410-514063/3-A	Lab Control Sample Dup	73	76										
MB 410-514063/1-A	Method Blank	58	56										

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid (Surr)

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

Lab Sample ID: MB 310-423352/5
Matrix: Water
Analysis Batch: 423352

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			06/04/24 00:56	1
Acrolein	<10.0		10.0	3.60	ug/L			06/04/24 00:56	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/04/24 00:56	1
Allyl chloride	<2.00		2.00	0.700	ug/L			06/04/24 00:56	1
Benzene	<0.500		0.500	0.220	ug/L			06/04/24 00:56	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/04/24 00:56	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/04/24 00:56	1
Bromoform	<5.00		5.00	0.780	ug/L			06/04/24 00:56	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/04/24 00:56	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/04/24 00:56	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/04/24 00:56	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/04/24 00:56	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/04/24 00:56	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/04/24 00:56	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/04/24 00:56	1
Chloroform	<3.00		3.00	1.30	ug/L			06/04/24 00:56	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/04/24 00:56	1
Chloroprene	<1.00		1.00	0.230	ug/L			06/04/24 00:56	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/04/24 00:56	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/04/24 00:56	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/04/24 00:56	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/04/24 00:56	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/04/24 00:56	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/04/24 00:56	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			06/04/24 00:56	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/04/24 00:56	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			06/04/24 00:56	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/04/24 00:56	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/04/24 00:56	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/04/24 00:56	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/04/24 00:56	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			06/04/24 00:56	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			06/04/24 00:56	1
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			06/04/24 00:56	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/04/24 00:56	1
Ethyl methacrylate	<2.00		2.00	0.680	ug/L			06/04/24 00:56	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/04/24 00:56	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/04/24 00:56	1
Methacrylonitrile	<10.0		10.0	3.30	ug/L			06/04/24 00:56	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/04/24 00:56	1
Methyl methacrylate	<2.00		2.00	0.760	ug/L			06/04/24 00:56	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/04/24 00:56	1
Naphthalene	<5.00		5.00	3.00	ug/L			06/04/24 00:56	1
Propionitrile	<10.0		10.0	3.40	ug/L			06/04/24 00:56	1
Styrene	<1.00		1.00	0.370	ug/L			06/04/24 00:56	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			06/04/24 00:56	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/04/24 00:56	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/04/24 00:56	1

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

Lab Sample ID: MB 310-423352/5
Matrix: Water
Analysis Batch: 423352

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<1.00		1.00	0.430	ug/L			06/04/24 00:56	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/04/24 00:56	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/04/24 00:56	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/04/24 00:56	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			06/04/24 00:56	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/04/24 00:56	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/04/24 00:56	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/04/24 00:56	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/04/24 00:56	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/04/24 00:56	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/04/24 00:56	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/04/24 00:56	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/04/24 00:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*06/04/24 00:56*	*1*
Dibromofluoromethane (Surr)	*99*		*73 - 130*		*06/04/24 00:56*	*1*
Toluene-d8 (Surr)	*112*		*80 - 120*		*06/04/24 00:56*	*1*

Lab Sample ID: LCS 310-423352/6
Matrix: Water
Analysis Batch: 423352

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	40.0	36.63		ug/L		92	50 - 150
Acrolein	94.8	102.0		ug/L		108	49 - 150
Acrylonitrile	200	193.3		ug/L		97	50 - 150
Allyl chloride	20.0	20.68		ug/L		103	49 - 150
Benzene	20.0	20.30		ug/L		102	72 - 124
Bromochloromethane	20.0	19.65		ug/L		98	73 - 130
Bromodichloromethane	20.0	22.27		ug/L		111	74 - 122
Bromoform	20.0	15.92		ug/L		80	61 - 122
2-Butanone (MEK)	40.0	40.10		ug/L		100	50 - 150
Carbon disulfide	20.0	20.55		ug/L		103	59 - 135
Carbon tetrachloride	20.0	20.07		ug/L		100	67 - 132
Chlorobenzene	20.0	20.10		ug/L		101	76 - 120
Chlorodibromomethane	20.0	21.98		ug/L		110	71 - 121
Chloroform	20.0	19.54		ug/L		98	72 - 125
Chloroprene	20.0	21.20		ug/L		106	69 - 133
cis-1,2-Dichloroethene	20.0	19.81		ug/L		99	74 - 123
cis-1,3-Dichloropropene	20.0	23.34		ug/L		117	71 - 125
1,2-Dibromo-3-chloropropane	20.0	18.96		ug/L		95	50 - 150
1,2-Dibromoethane (EDB)	20.0	22.63		ug/L		113	75 - 125
Dibromomethane	20.0	19.49		ug/L		97	74 - 125
1,2-Dichlorobenzene	20.0	20.19		ug/L		101	74 - 120
1,3-Dichlorobenzene	20.0	17.13		ug/L		86	72 - 120
1,4-Dichlorobenzene	20.0	19.28		ug/L		96	72 - 120
1,1-Dichloroethane	20.0	19.94		ug/L		100	70 - 127

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

Lab Sample ID: LCS 310-423352/6
Matrix: Water
Analysis Batch: 423352

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	20.0	18.64		ug/L		93	71 - 125
1,1-Dichloroethene	20.0	19.48		ug/L		97	63 - 132
1,2-Dichloropropane	20.0	20.56		ug/L		103	73 - 124
1,3-Dichloropropane	20.0	23.19		ug/L		116	72 - 125
2,2-Dichloropropane	20.0	16.75		ug/L		84	50 - 150
1,1-Dichloropropene	20.0	20.81		ug/L		104	69 - 132
Ethylbenzene	20.0	21.49		ug/L		107	74 - 122
Ethyl methacrylate	20.0	22.54		ug/L		113	70 - 129
2-Hexanone	40.0	45.51		ug/L		114	60 - 140
Iodomethane	20.0	8.705	J	ug/L		44	10 - 150
Methacrylonitrile	200	194.0		ug/L		97	69 - 129
Methylene chloride	20.0	21.73		ug/L		109	50 - 150
Methyl methacrylate	40.0	39.31		ug/L		98	68 - 131
4-Methyl-2-pentanone (MIBK)	40.0	46.68		ug/L		117	60 - 139
Naphthalene	20.0	18.47		ug/L		92	50 - 150
Propionitrile	200	195.1		ug/L		98	63 - 135
Styrene	20.0	17.78		ug/L		89	74 - 121
1,1,1,2-Tetrachloroethane	20.0	19.68		ug/L		98	71 - 120
1,1,2,2-Tetrachloroethane	20.0	17.10		ug/L		85	68 - 124
Tetrachloroethene	20.0	22.55		ug/L		113	71 - 130
Toluene	20.0	23.34		ug/L		117	74 - 123
trans-1,4-Dichloro-2-butene	20.0	14.07		ug/L		70	50 - 150
trans-1,2-Dichloroethene	20.0	19.76		ug/L		99	70 - 126
trans-1,3-Dichloropropene	20.0	22.31		ug/L		112	69 - 123
1,2,4-Trichlorobenzene	20.0	18.52		ug/L		93	68 - 124
1,1,1-Trichloroethane	20.0	19.42		ug/L		97	73 - 129
1,1,2-Trichloroethane	20.0	23.75		ug/L		119	73 - 123
Trichloroethene	20.0	20.51		ug/L		103	72 - 126
1,2,3-Trichloropropane	20.0	16.45		ug/L		82	65 - 127
Vinyl acetate	40.0	36.62		ug/L		92	50 - 150
Xylenes, Total	40.0	38.88		ug/L		97	73 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*73 - 130*
Toluene-d8 (Surr)	*105*		*80 - 120*

Lab Sample ID: LCS 310-423352/7
Matrix: Water
Analysis Batch: 423352

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	14.40		ug/L		72	23 - 150
Chloroethane	20.0	21.34		ug/L		107	54 - 136
Chloromethane	20.0	21.88		ug/L		109	38 - 150
Dichlorodifluoromethane	20.0	21.00		ug/L		105	39 - 150
Trichlorofluoromethane	20.0	23.12		ug/L		116	54 - 149
Vinyl chloride	20.0	22.69		ug/L		113	56 - 140

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

Lab Sample ID: LCS 310-423352/7
Matrix: Water
Analysis Batch: 423352

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*73 - 130*
Toluene-d8 (Surr)	*84*		*80 - 120*

Lab Sample ID: 310-282518-6 MS
Matrix: Groundwater
Analysis Batch: 423352

Client Sample ID: MW-13R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	8.93	J	50.0	46.90		ug/L		76	31 - 150
Acrolein	<10.0		119	109.0		ug/L		92	25 - 150
Acrylonitrile	<5.00		250	227.8		ug/L		91	40 - 150
Allyl chloride	<2.00		25.0	22.28		ug/L		89	28 - 150
Benzene	0.237	J	25.0	22.70		ug/L		90	46 - 130
Bromochloromethane	<5.00		25.0	25.09		ug/L		100	57 - 130
Bromodichloromethane	<1.00		25.0	21.39		ug/L		86	57 - 130
Bromoform	<5.00		25.0	22.07		ug/L		88	44 - 130
2-Butanone (MEK)	<10.0		50.0	45.62		ug/L		91	38 - 150
Carbon disulfide	<1.00		25.0	22.58		ug/L		90	38 - 135
Carbon tetrachloride	<2.00		25.0	23.15		ug/L		93	45 - 132
Chlorobenzene	1.53		25.0	23.95		ug/L		90	59 - 130
Chlorodibromomethane	<5.00		25.0	25.74		ug/L		103	54 - 130
Chloroform	<3.00	F2	25.0	25.58		ug/L		102	51 - 130
Chloroprene	<1.00		25.0	21.36		ug/L		85	43 - 133
cis-1,2-Dichloroethene	<1.00		25.0	21.81		ug/L		87	45 - 130
cis-1,3-Dichloropropene	<5.00		25.0	21.61		ug/L		86	53 - 130
1,2-Dibromo-3-chloropropane	<5.00	F2	25.0	23.16		ug/L		93	38 - 150
1,2-Dibromoethane (EDB)	<1.00	F2	25.0	26.20		ug/L		105	60 - 130
Dibromomethane	<1.00		25.0	22.16		ug/L		89	59 - 130
1,2-Dichlorobenzene	<1.00		25.0	24.28		ug/L		97	59 - 130
1,3-Dichlorobenzene	<1.00		25.0	22.60		ug/L		90	57 - 130
1,4-Dichlorobenzene	0.378	J	25.0	23.38		ug/L		92	57 - 130
1,1-Dichloroethane	0.545	J	25.0	21.51		ug/L		84	49 - 130
1,2-Dichloroethane	<1.00		25.0	20.58		ug/L		82	51 - 130
1,1-Dichloroethene	<2.00		25.0	20.90		ug/L		84	37 - 132
1,2-Dichloropropane	<1.00		25.0	22.85		ug/L		91	57 - 130
1,3-Dichloropropane	<1.00	F2	25.0	26.69		ug/L		107	56 - 130
2,2-Dichloropropane	<4.00		25.0	16.11		ug/L		64	25 - 150
1,1-Dichloropropene	<1.00	F2	25.0	25.39		ug/L		102	50 - 132
Ethylbenzene	<1.00		25.0	22.89		ug/L		92	45 - 130
Ethyl methacrylate	<2.00	F2	25.0	27.09		ug/L		108	54 - 130
2-Hexanone	<10.0		50.0	56.65		ug/L		113	46 - 140
Iodomethane	<10.0		25.0	8.469	J	ug/L		34	10 - 150
Methacrylonitrile	<10.0		250	264.1		ug/L		106	55 - 130
Methylene chloride	<5.00		25.0	23.67		ug/L		95	37 - 150
Methyl methacrylate	<2.00		50.0	46.30		ug/L		93	44 - 139
4-Methyl-2-pentanone (MIBK)	<10.0		50.0	55.26		ug/L		111	47 - 139
Naphthalene	<5.00		25.0	22.51		ug/L		90	40 - 150

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

Lab Sample ID: 310-282518-6 MS
Matrix: Groundwater
Analysis Batch: 423352

Client Sample ID: MW-13R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Propionitrile	<10.0		250	237.2		ug/L		95	49 - 135
Styrene	<1.00		25.0	23.16		ug/L		93	47 - 130
1,1,1,2-Tetrachloroethane	<1.00		25.0	23.02		ug/L		92	55 - 130
1,1,2,2-Tetrachloroethane	<1.00		25.0	24.11		ug/L		96	54 - 130
Tetrachloroethene	<1.00		25.0	24.84		ug/L		99	47 - 130
Toluene	<1.00	F2	25.0	25.46		ug/L		102	51 - 130
trans-1,4-Dichloro-2-butene	<10.0		25.0	20.96		ug/L		84	26 - 150
trans-1,2-Dichloroethene	<1.00		25.0	21.04		ug/L		84	48 - 130
trans-1,3-Dichloropropene	<5.00	F2	25.0	25.58		ug/L		102	50 - 130
1,2,4-Trichlorobenzene	<5.00		25.0	22.94		ug/L		92	55 - 130
1,1,1-Trichloroethane	<1.00	F2	25.0	23.88		ug/L		96	52 - 130
1,1,2-Trichloroethane	<1.00	F2	25.0	28.15		ug/L		113	58 - 130
Trichloroethene	<1.00		25.0	22.20		ug/L		89	51 - 130
1,2,3-Trichloropropane	<1.00		25.0	24.22		ug/L		97	49 - 130
Vinyl acetate	<10.0		50.0	38.02		ug/L		76	29 - 150
Xylenes, Total	<3.00		50.0	45.99		ug/L		92	43 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*113*		*73 - 130*
Toluene-d8 (Surr)	*120*		*80 - 120*

Lab Sample ID: 310-282518-6 MSD
Matrix: Groundwater
Analysis Batch: 423352

Client Sample ID: MW-13R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	8.93	J	50.0	45.77		ug/L		74	31 - 150	2	29
Acrolein	<10.0		119	103.9		ug/L		88	25 - 150	5	31
Acrylonitrile	<5.00		250	216.1		ug/L		86	40 - 150	5	20
Allyl chloride	<2.00		25.0	19.44		ug/L		78	28 - 150	14	35
Benzene	0.237	J	25.0	22.83		ug/L		90	46 - 130	1	20
Bromochloromethane	<5.00		25.0	20.48		ug/L		82	57 - 130	20	20
Bromodichloromethane	<1.00		25.0	23.04		ug/L		92	57 - 130	7	20
Bromoform	<5.00		25.0	20.64		ug/L		83	44 - 130	7	20
2-Butanone (MEK)	<10.0		50.0	43.07		ug/L		86	38 - 150	6	20
Carbon disulfide	<1.00		25.0	20.61		ug/L		82	38 - 135	9	30
Carbon tetrachloride	<2.00		25.0	19.51		ug/L		78	45 - 132	17	20
Chlorobenzene	1.53		25.0	22.63		ug/L		84	59 - 130	6	20
Chlorodibromomethane	<5.00		25.0	21.20		ug/L		85	54 - 130	19	20
Chloroform	<3.00	F2	25.0	19.79	F2	ug/L		79	51 - 130	26	20
Chloroprene	<1.00		25.0	20.13		ug/L		81	43 - 133	6	20
cis-1,2-Dichloroethene	<1.00		25.0	20.15		ug/L		81	45 - 130	8	20
cis-1,3-Dichloropropene	<5.00		25.0	24.18		ug/L		97	53 - 130	11	20
1,2-Dibromo-3-chloropropane	<5.00	F2	25.0	28.61	F2	ug/L		114	38 - 150	21	20
1,2-Dibromoethane (EDB)	<1.00	F2	25.0	21.07	F2	ug/L		84	60 - 130	22	20
Dibromomethane	<1.00		25.0	24.54		ug/L		98	59 - 130	10	20
1,2-Dichlorobenzene	<1.00		25.0	23.73		ug/L		95	59 - 130	2	20

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

Lab Sample ID: 310-282518-6 MSD
Client Sample ID: MW-13R
Matrix: Groundwater
Prep Type: Total/NA
Analysis Batch: 423352

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,3-Dichlorobenzene	<1.00		25.0	22.08		ug/L		88	57 - 130	2	20
1,4-Dichlorobenzene	0.378	J	25.0	22.96		ug/L		90	57 - 130	2	20
1,1-Dichloroethane	0.545	J	25.0	20.42		ug/L		79	49 - 130	5	20
1,2-Dichloroethane	<1.00		25.0	20.38		ug/L		82	51 - 130	1	20
1,1-Dichloroethene	<2.00		25.0	19.48		ug/L		78	37 - 132	7	26
1,2-Dichloropropane	<1.00		25.0	24.24		ug/L		97	57 - 130	6	20
1,3-Dichloropropane	<1.00	F2	25.0	21.45	F2	ug/L		86	56 - 130	22	20
2,2-Dichloropropane	<4.00		25.0	15.37		ug/L		61	25 - 150	5	25
1,1-Dichloropropene	<1.00	F2	25.0	20.20	F2	ug/L		81	50 - 132	23	20
Ethylbenzene	<1.00		25.0	21.80		ug/L		87	45 - 130	5	20
Ethyl methacrylate	<2.00	F2	25.0	21.82	F2	ug/L		87	54 - 130	22	20
2-Hexanone	<10.0		50.0	46.95		ug/L		94	46 - 140	19	20
Iodomethane	<10.0		25.0	10.45		ug/L		42	10 - 150	21	35
Methacrylonitrile	<10.0		250	217.0		ug/L		87	55 - 130	20	20
Methylene chloride	<5.00		25.0	22.53		ug/L		90	37 - 150	5	24
Methyl methacrylate	<2.00		50.0	53.00		ug/L		106	44 - 139	13	20
4-Methyl-2-pentanone (MIBK)	<10.0		50.0	46.40		ug/L		93	47 - 139	17	20
Naphthalene	<5.00		25.0	25.84		ug/L		103	40 - 150	14	30
Propionitrile	<10.0		250	219.3		ug/L		88	49 - 135	8	20
Styrene	<1.00		25.0	22.07		ug/L		88	47 - 130	5	20
1,1,1,2-Tetrachloroethane	<1.00		25.0	21.22		ug/L		85	55 - 130	8	20
1,1,2,2-Tetrachloroethane	<1.00		25.0	23.09		ug/L		92	54 - 130	4	20
Tetrachloroethene	<1.00		25.0	20.44		ug/L		82	47 - 130	19	20
Toluene	<1.00	F2	25.0	20.26	F2	ug/L		81	51 - 130	23	20
trans-1,4-Dichloro-2-butene	<10.0		25.0	19.18		ug/L		77	26 - 150	9	23
trans-1,2-Dichloroethene	<1.00		25.0	19.98		ug/L		80	48 - 130	5	22
trans-1,3-Dichloropropene	<5.00	F2	25.0	20.00	F2	ug/L		80	50 - 130	24	20
1,2,4-Trichlorobenzene	<5.00		25.0	26.46		ug/L		106	55 - 130	14	20
1,1,1-Trichloroethane	<1.00	F2	25.0	19.04	F2	ug/L		76	52 - 130	23	20
1,1,2-Trichloroethane	<1.00	F2	25.0	22.30	F2	ug/L		89	58 - 130	23	20
Trichloroethene	<1.00		25.0	20.57		ug/L		82	51 - 130	8	20
1,2,3-Trichloropropane	<1.00		25.0	22.43		ug/L		90	49 - 130	8	26
Vinyl acetate	<10.0		50.0	37.14		ug/L		74	29 - 150	2	23
Xylenes, Total	<3.00		50.0	43.41		ug/L		87	43 - 130	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*73 - 130*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: MB 310-423354/5
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 423354

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			06/03/24 14:36	1
Acrolein	<10.0		10.0	3.60	ug/L			06/03/24 14:36	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/03/24 14:36	1

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

Lab Sample ID: MB 310-423354/5
Matrix: Water
Analysis Batch: 423354

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl chloride	<2.00		2.00	0.700	ug/L			06/03/24 14:36	1
Benzene	<0.500		0.500	0.220	ug/L			06/03/24 14:36	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/03/24 14:36	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/03/24 14:36	1
Bromoform	<5.00		5.00	0.780	ug/L			06/03/24 14:36	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/03/24 14:36	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/03/24 14:36	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/03/24 14:36	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/03/24 14:36	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/03/24 14:36	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/03/24 14:36	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/03/24 14:36	1
Chloroform	<3.00		3.00	1.30	ug/L			06/03/24 14:36	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/03/24 14:36	1
Chloroprene	<1.00		1.00	0.230	ug/L			06/03/24 14:36	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/03/24 14:36	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/03/24 14:36	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/03/24 14:36	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/03/24 14:36	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/03/24 14:36	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/03/24 14:36	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			06/03/24 14:36	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/03/24 14:36	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			06/03/24 14:36	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/03/24 14:36	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/03/24 14:36	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/03/24 14:36	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/03/24 14:36	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			06/03/24 14:36	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			06/03/24 14:36	1
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			06/03/24 14:36	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/03/24 14:36	1
Ethyl methacrylate	<2.00		2.00	0.680	ug/L			06/03/24 14:36	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/03/24 14:36	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/03/24 14:36	1
Methacrylonitrile	<10.0		10.0	3.30	ug/L			06/03/24 14:36	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/03/24 14:36	1
Methyl methacrylate	<2.00		2.00	0.760	ug/L			06/03/24 14:36	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/03/24 14:36	1
Naphthalene	<5.00		5.00	3.00	ug/L			06/03/24 14:36	1
Propionitrile	<10.0		10.0	3.40	ug/L			06/03/24 14:36	1
Styrene	<1.00		1.00	0.370	ug/L			06/03/24 14:36	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			06/03/24 14:36	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/03/24 14:36	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/03/24 14:36	1
Toluene	<1.00		1.00	0.430	ug/L			06/03/24 14:36	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/03/24 14:36	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/03/24 14:36	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/03/24 14:36	1

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

Lab Sample ID: MB 310-423354/5
Matrix: Water
Analysis Batch: 423354

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			06/03/24 14:36	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/03/24 14:36	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/03/24 14:36	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/03/24 14:36	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/03/24 14:36	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/03/24 14:36	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/03/24 14:36	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/03/24 14:36	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/03/24 14:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*06/03/24 14:36*	*1*
Dibromofluoromethane (Surr)	*103*		*73 - 130*		*06/03/24 14:36*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/03/24 14:36*	*1*

Lab Sample ID: LCS 310-423354/6
Matrix: Water
Analysis Batch: 423354

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	40.0	34.55		ug/L		86	50 - 150
Acrolein	94.8	95.64		ug/L		101	49 - 150
Acrylonitrile	200	205.9		ug/L		103	50 - 150
Allyl chloride	20.0	19.06		ug/L		95	49 - 150
Benzene	20.0	20.53		ug/L		103	72 - 124
Bromochloromethane	20.0	19.59		ug/L		98	73 - 130
Bromodichloromethane	20.0	19.57		ug/L		98	74 - 122
Bromoform	20.0	19.88		ug/L		99	61 - 122
2-Butanone (MEK)	40.0	39.72		ug/L		99	50 - 150
Carbon disulfide	20.0	21.88		ug/L		109	59 - 135
Carbon tetrachloride	20.0	20.87		ug/L		104	67 - 132
Chlorobenzene	20.0	21.13		ug/L		106	76 - 120
Chlorodibromomethane	20.0	20.25		ug/L		101	71 - 121
Chloroform	20.0	19.73		ug/L		99	72 - 125
Chloroprene	20.0	20.66		ug/L		103	69 - 133
cis-1,2-Dichloroethene	20.0	19.87		ug/L		99	74 - 123
cis-1,3-Dichloropropene	20.0	21.47		ug/L		107	71 - 125
1,2-Dibromo-3-chloropropane	20.0	21.24		ug/L		106	50 - 150
1,2-Dibromoethane (EDB)	20.0	20.22		ug/L		101	75 - 125
Dibromomethane	20.0	20.78		ug/L		104	74 - 125
1,2-Dichlorobenzene	20.0	21.62		ug/L		108	74 - 120
1,3-Dichlorobenzene	20.0	21.59		ug/L		108	72 - 120
1,4-Dichlorobenzene	20.0	19.58		ug/L		98	72 - 120
1,1-Dichloroethane	20.0	21.16		ug/L		106	70 - 127
1,2-Dichloroethane	20.0	19.93		ug/L		100	71 - 125
1,1-Dichloroethene	20.0	21.93		ug/L		110	63 - 132
1,2-Dichloropropane	20.0	21.43		ug/L		107	73 - 124
1,3-Dichloropropane	20.0	20.99		ug/L		105	72 - 125

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

Lab Sample ID: LCS 310-423354/6
Matrix: Water
Analysis Batch: 423354

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2-Dichloropropane	20.0	22.89		ug/L		114	50 - 150
1,1-Dichloropropene	20.0	20.94		ug/L		105	69 - 132
Ethylbenzene	20.0	20.08		ug/L		100	74 - 122
Ethyl methacrylate	20.0	22.63		ug/L		113	70 - 129
2-Hexanone	40.0	46.64		ug/L		117	60 - 140
Iodomethane	20.0	18.57		ug/L		93	10 - 150
Methacrylonitrile	200	202.8		ug/L		101	69 - 129
Methylene chloride	20.0	21.89		ug/L		109	50 - 150
Methyl methacrylate	40.0	44.14		ug/L		110	68 - 131
4-Methyl-2-pentanone (MIBK)	40.0	45.03		ug/L		113	60 - 139
Naphthalene	20.0	20.73		ug/L		104	50 - 150
Propionitrile	200	207.9		ug/L		104	63 - 135
Styrene	20.0	20.41		ug/L		102	74 - 121
1,1,1,2-Tetrachloroethane	20.0	20.72		ug/L		104	71 - 120
1,1,2,2-Tetrachloroethane	20.0	20.87		ug/L		104	68 - 124
Tetrachloroethene	20.0	21.00		ug/L		105	71 - 130
Toluene	20.0	22.18		ug/L		111	74 - 123
trans-1,4-Dichloro-2-butene	20.0	19.82		ug/L		99	50 - 150
trans-1,2-Dichloroethene	20.0	19.35		ug/L		97	70 - 126
trans-1,3-Dichloropropene	20.0	21.00		ug/L		105	69 - 123
1,2,4-Trichlorobenzene	20.0	19.63		ug/L		98	68 - 124
1,1,1-Trichloroethane	20.0	21.14		ug/L		106	73 - 129
1,1,2-Trichloroethane	20.0	21.04		ug/L		105	73 - 123
Trichloroethene	20.0	21.51		ug/L		108	72 - 126
1,2,3-Trichloropropane	20.0	21.40		ug/L		107	65 - 127
Vinyl acetate	40.0	44.38		ug/L		111	50 - 150
Xylenes, Total	40.0	40.62		ug/L		102	73 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*73 - 130*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: LCS 310-423354/7
Matrix: Water
Analysis Batch: 423354

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	20.41		ug/L		102	23 - 150
Chloroethane	20.0	23.92		ug/L		120	54 - 136
Chloromethane	20.0	24.56		ug/L		123	38 - 150
Dichlorodifluoromethane	20.0	26.35		ug/L		132	39 - 150
Trichlorofluoromethane	20.0	24.51		ug/L		123	54 - 149
Vinyl chloride	20.0	23.56		ug/L		118	56 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*73 - 130*

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

Lab Sample ID: LCS 310-423354/7
Matrix: Water
Analysis Batch: 423354

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	101		80 - 120

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

Lab Sample ID: MB 310-423508/1-A
Matrix: Water
Analysis Batch: 423965

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 423508

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<10.0		10.0	0.540	ug/L		06/04/24 13:08	06/07/24 15:30	1
1,3,5-Trinitrobenzene	<10.0		10.0	2.30	ug/L		06/04/24 13:08	06/07/24 15:30	1
1,3-Dinitrobenzene	<10.0		10.0	3.20	ug/L		06/04/24 13:08	06/07/24 15:30	1
1,4-Naphthoquinone	<10.0		10.0	3.60	ug/L		06/04/24 13:08	06/07/24 15:30	1
1,4-Phenylenediamine	<10.0		10.0	1.90	ug/L		06/04/24 13:08	06/07/24 15:30	1
1-Naphthylamine	<10.0		10.0	2.50	ug/L		06/04/24 13:08	06/07/24 15:30	1
2,3,4,6-Tetrachlorophenol	<10.0		10.0	5.30	ug/L		06/04/24 13:08	06/07/24 15:30	1
2,4,5-Trichlorophenol	<10.0		10.0	5.30	ug/L		06/04/24 13:08	06/07/24 15:30	1
2,4,6-Trichlorophenol	<10.0		10.0	5.00	ug/L		06/04/24 13:08	06/07/24 15:30	1
2,4-Dichlorophenol	<10.0		10.0	0.850	ug/L		06/04/24 13:08	06/07/24 15:30	1
2,4-Dimethylphenol	<10.0		10.0	0.580	ug/L		06/04/24 13:08	06/07/24 15:30	1
2,4-Dinitrophenol	<20.0		20.0	13.0	ug/L		06/04/24 13:08	06/07/24 15:30	1
2,4-Dinitrotoluene	<10.0		10.0	6.40	ug/L		06/04/24 13:08	06/07/24 15:30	1
2,6-Dichlorophenol	<10.0		10.0	0.690	ug/L		06/04/24 13:08	06/07/24 15:30	1
2,6-Dinitrotoluene	<10.0		10.0	0.520	ug/L		06/04/24 13:08	06/07/24 15:30	1
2-Acetylaminofluorene	<10.0		10.0	2.70	ug/L		06/04/24 13:08	06/07/24 15:30	1
2-Chloronaphthalene	<10.0		10.0	0.640	ug/L		06/04/24 13:08	06/07/24 15:30	1
2-Chlorophenol	<10.0		10.0	0.540	ug/L		06/04/24 13:08	06/07/24 15:30	1
2-Methylnaphthalene	<10.0		10.0	0.590	ug/L		06/04/24 13:08	06/07/24 15:30	1
2-Methylphenol	<10.0		10.0	0.650	ug/L		06/04/24 13:08	06/07/24 15:30	1
2-Naphthylamine	<10.0		10.0	2.10	ug/L		06/04/24 13:08	06/07/24 15:30	1
2-Nitroaniline	<10.0		10.0	5.90	ug/L		06/04/24 13:08	06/07/24 15:30	1
2-Nitrophenol	<10.0		10.0	6.80	ug/L		06/04/24 13:08	06/07/24 15:30	1
3,3'-Dichlorobenzidine	<10.0		10.0	1.40	ug/L		06/04/24 13:08	06/07/24 15:30	1
3,3'-Dimethylbenzidine	<10.0		10.0	1.50	ug/L		06/04/24 13:08	06/07/24 15:30	1
3-Methylcholanthrene	<10.0		10.0	0.320	ug/L		06/04/24 13:08	06/07/24 15:30	1
3-Nitroaniline	<10.0		10.0	2.70	ug/L		06/04/24 13:08	06/07/24 15:30	1
4,6-Dinitro-2-methylphenol	<10.0		10.0	6.90	ug/L		06/04/24 13:08	06/07/24 15:30	1
4-Aminobiphenyl	<10.0		10.0	2.20	ug/L		06/04/24 13:08	06/07/24 15:30	1
4-Bromophenyl phenyl ether	<10.0		10.0	0.700	ug/L		06/04/24 13:08	06/07/24 15:30	1
4-Chloro-3-methylphenol	<10.0		10.0	0.840	ug/L		06/04/24 13:08	06/07/24 15:30	1
4-Chloroaniline	<10.0		10.0	0.620	ug/L		06/04/24 13:08	06/07/24 15:30	1
4-Chlorophenyl phenyl ether	<10.0		10.0	0.690	ug/L		06/04/24 13:08	06/07/24 15:30	1
4-Methylphenol (and/or 3-Methylphenol)	<10.0		10.0	0.700	ug/L		06/04/24 13:08	06/07/24 15:30	1
4-Nitroaniline	<10.0		10.0	1.30	ug/L		06/04/24 13:08	06/07/24 15:30	1
4-Nitrophenol	<10.0		10.0	7.60	ug/L		06/04/24 13:08	06/07/24 15:30	1
5-Nitro-o-toluidine	<10.0		10.0	2.80	ug/L		06/04/24 13:08	06/07/24 15:30	1
7,12-Dimethylbenz(a)anthracene	<10.0		10.0	1.90	ug/L		06/04/24 13:08	06/07/24 15:30	1
Acenaphthene	<10.0		10.0	0.640	ug/L		06/04/24 13:08	06/07/24 15:30	1

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

Lab Sample ID: MB 310-423508/1-A
Matrix: Water
Analysis Batch: 423965

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 423508

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	<10.0		10.0	0.720	ug/L		06/04/24 13:08	06/07/24 15:30	1
Acetophenone	<10.0		10.0	0.690	ug/L		06/04/24 13:08	06/07/24 15:30	1
Anthracene	<10.0		10.0	0.870	ug/L		06/04/24 13:08	06/07/24 15:30	1
Benzo(a)anthracene	<10.0		10.0	0.850	ug/L		06/04/24 13:08	06/07/24 15:30	1
Benzo(a)pyrene	<10.0		10.0	8.10	ug/L		06/04/24 13:08	06/07/24 15:30	1
Benzo(b)fluoranthene	<10.0		10.0	4.90	ug/L		06/04/24 13:08	06/07/24 15:30	1
Benzo(g,h,i)perylene	<10.0		10.0	6.30	ug/L		06/04/24 13:08	06/07/24 15:30	1
Benzo(k)fluoranthene	<10.0		10.0	2.20	ug/L		06/04/24 13:08	06/07/24 15:30	1
Benzyl alcohol	<10.0		10.0	1.30	ug/L		06/04/24 13:08	06/07/24 15:30	1
Bis(2-chloroethoxy)methane	<10.0		10.0	0.760	ug/L		06/04/24 13:08	06/07/24 15:30	1
Bis(2-chloroethyl)ether	<10.0		10.0	0.820	ug/L		06/04/24 13:08	06/07/24 15:30	1
bis(2-chloroisopropyl) ether	<10.0		10.0	0.540	ug/L		06/04/24 13:08	06/07/24 15:30	1
Bis(2-ethylhexyl) phthalate	<10.0		10.0	5.50	ug/L		06/04/24 13:08	06/07/24 15:30	1
Butyl benzyl phthalate	<10.0		10.0	5.40	ug/L		06/04/24 13:08	06/07/24 15:30	1
Chlorobenzilate	<10.0		10.0	3.60	ug/L		06/04/24 13:08	06/07/24 15:30	1
Chrysene	<10.0		10.0	0.870	ug/L		06/04/24 13:08	06/07/24 15:30	1
Diallate	<10.0		10.0	4.00	ug/L		06/04/24 13:08	06/07/24 15:30	1
Dibenz(a,h)anthracene	<10.0		10.0	3.90	ug/L		06/04/24 13:08	06/07/24 15:30	1
Dibenzofuran	<10.0		10.0	0.740	ug/L		06/04/24 13:08	06/07/24 15:30	1
Diethyl phthalate	<10.0		10.0	1.70	ug/L		06/04/24 13:08	06/07/24 15:30	1
Dimethoate	<10.0		10.0	3.60	ug/L		06/04/24 13:08	06/07/24 15:30	1
Dimethyl phthalate	<10.0		10.0	1.00	ug/L		06/04/24 13:08	06/07/24 15:30	1
Di-n-butyl phthalate	<10.0		10.0	5.60	ug/L		06/04/24 13:08	06/07/24 15:30	1
Di-n-octyl phthalate	<20.0		20.0	7.00	ug/L		06/04/24 13:08	06/07/24 15:30	1
Dinoseb	<10.0		10.0	2.40	ug/L		06/04/24 13:08	06/07/24 15:30	1
Diphenylamine	<10.0		10.0	6.00	ug/L		06/04/24 13:08	06/07/24 15:30	1
Disulfoton	<10.0		10.0	2.40	ug/L		06/04/24 13:08	06/07/24 15:30	1
Ethyl methanesulfonate	<10.0		10.0	3.60	ug/L		06/04/24 13:08	06/07/24 15:30	1
Ethyl parathion	<10.0		10.0	2.20	ug/L		06/04/24 13:08	06/07/24 15:30	1
Famphur	<10.0		10.0	3.80	ug/L		06/04/24 13:08	06/07/24 15:30	1
Fluoranthene	<10.0		10.0	1.70	ug/L		06/04/24 13:08	06/07/24 15:30	1
Fluorene	<10.0		10.0	0.790	ug/L		06/04/24 13:08	06/07/24 15:30	1
Hexachlorobenzene	<10.0		10.0	0.700	ug/L		06/04/24 13:08	06/07/24 15:30	1
Hexachlorobutadiene	<10.0		10.0	0.860	ug/L		06/04/24 13:08	06/07/24 15:30	1
Hexachlorocyclopentadiene	<10.0		10.0	5.10	ug/L		06/04/24 13:08	06/07/24 15:30	1
Hexachloroethane	<10.0		10.0	0.970	ug/L		06/04/24 13:08	06/07/24 15:30	1
Hexachloropropene	<10.0		10.0	2.60	ug/L		06/04/24 13:08	06/07/24 15:30	1
Indeno(1,2,3-cd)pyrene	<10.0		10.0	4.20	ug/L		06/04/24 13:08	06/07/24 15:30	1
Isodrin	<10.0		10.0	4.70	ug/L		06/04/24 13:08	06/07/24 15:30	1
Isophorone	<10.0		10.0	0.930	ug/L		06/04/24 13:08	06/07/24 15:30	1
Isosafrole	<10.0		10.0	2.30	ug/L		06/04/24 13:08	06/07/24 15:30	1
Kepone	<10.0		10.0	1.00	ug/L		06/04/24 13:08	06/07/24 15:30	1
Methapyrilene	<10.0		10.0	0.760	ug/L		06/04/24 13:08	06/07/24 15:30	1
Methyl methanesulfonate	<10.0		10.0	3.30	ug/L		06/04/24 13:08	06/07/24 15:30	1
Methyl parathion	<10.0		10.0	2.30	ug/L		06/04/24 13:08	06/07/24 15:30	1
Nitrobenzene	<10.0		10.0	0.800	ug/L		06/04/24 13:08	06/07/24 15:30	1
N-Nitrosodiethylamine	<10.0		10.0	3.40	ug/L		06/04/24 13:08	06/07/24 15:30	1
N-Nitrosodimethylamine	<10.0		10.0	0.720	ug/L		06/04/24 13:08	06/07/24 15:30	1
N-Nitrosodi-n-butylamine	<10.0		10.0	3.90	ug/L		06/04/24 13:08	06/07/24 15:30	1

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

Lab Sample ID: MB 310-423508/1-A
Matrix: Water
Analysis Batch: 423965

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 423508

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<10.0		10.0	0.920	ug/L		06/04/24 13:08	06/07/24 15:30	1
N-Nitrosodiphenylamine	<10.0		10.0	0.750	ug/L		06/04/24 13:08	06/07/24 15:30	1
N-Nitrosomethylethylamine	<10.0		10.0	4.90	ug/L		06/04/24 13:08	06/07/24 15:30	1
N-Nitrosopiperidine	<10.0		10.0	2.70	ug/L		06/04/24 13:08	06/07/24 15:30	1
N-Nitrosopyrrolidine	<10.0		10.0	3.60	ug/L		06/04/24 13:08	06/07/24 15:30	1
o,o',o''-Triethylphosphorothioate	<10.0		10.0	3.20	ug/L		06/04/24 13:08	06/07/24 15:30	1
o-Toluidine	<10.0		10.0	2.90	ug/L		06/04/24 13:08	06/07/24 15:30	1
p-Dimethylamino azobenzene	<10.0		10.0	2.20	ug/L		06/04/24 13:08	06/07/24 15:30	1
Pentachlorobenzene	<10.0		10.0	2.80	ug/L		06/04/24 13:08	06/07/24 15:30	1
Pentachloronitrobenzene	<10.0		10.0	5.80	ug/L		06/04/24 13:08	06/07/24 15:30	1
Pentachlorophenol	<10.0		10.0	9.60	ug/L		06/04/24 13:08	06/07/24 15:30	1
Phenacetin	<10.0		10.0	1.90	ug/L		06/04/24 13:08	06/07/24 15:30	1
Phenanthrene	<10.0		10.0	0.790	ug/L		06/04/24 13:08	06/07/24 15:30	1
Phenol	<10.0		10.0	1.10	ug/L		06/04/24 13:08	06/07/24 15:30	1
Phorate	<10.0		10.0	3.20	ug/L		06/04/24 13:08	06/07/24 15:30	1
Pronamide	<10.0		10.0	2.70	ug/L		06/04/24 13:08	06/07/24 15:30	1
Pyrene	<10.0		10.0	0.790	ug/L		06/04/24 13:08	06/07/24 15:30	1
Safrole	<10.0		10.0	2.80	ug/L		06/04/24 13:08	06/07/24 15:30	1
Thionazin	<10.0		10.0	3.50	ug/L		06/04/24 13:08	06/07/24 15:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*64*		*25 - 110*	*06/04/24 13:08*	*06/07/24 15:30*	*1*
Phenol-d5 (Surr)	*61*		*21 - 110*	*06/04/24 13:08*	*06/07/24 15:30*	*1*
Nitrobenzene-d5 (Surr)	*100*		*45 - 129*	*06/04/24 13:08*	*06/07/24 15:30*	*1*
2-Fluorobiphenyl (Surr)	*87*		*39 - 118*	*06/04/24 13:08*	*06/07/24 15:30*	*1*
2,4,6-Tribromophenol (Surr)	*90*		*27 - 136*	*06/04/24 13:08*	*06/07/24 15:30*	*1*
Terphenyl-d14 (Surr)	*106*		*12 - 144*	*06/04/24 13:08*	*06/07/24 15:30*	*1*

Lab Sample ID: LCS 310-423508/2-A
Matrix: Water
Analysis Batch: 423965

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 423508

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	100	87.72		ug/L		88	36 - 110
1,3,5-Trinitrobenzene	64.0	57.10		ug/L		89	39 - 144
1,3-Dinitrobenzene	100	119.6		ug/L		120	45 - 138
1,4-Naphthoquinone	64.0	66.47		ug/L		104	37 - 149
1,4-Phenylenediamine	64.0	<10.0	*-	ug/L		-1	20 - 120
1-Naphthylamine	64.0	33.45		ug/L		52	19 - 110
2,3,4,6-Tetrachlorophenol	100	102.5		ug/L		103	33 - 134
2,4,5-Trichlorophenol	100	92.56		ug/L		93	35 - 133
2,4,6-Trichlorophenol	100	101.7		ug/L		102	28 - 139
2,4-Dichlorophenol	100	96.12		ug/L		96	41 - 124
2,4-Dimethylphenol	100	80.20		ug/L		80	31 - 142
2,4-Dinitrophenol	200	184.8		ug/L		92	10 - 138
2,4-Dinitrotoluene	100	106.8		ug/L		107	47 - 137
2,6-Dichlorophenol	100	96.80		ug/L		97	30 - 130
2,6-Dinitrotoluene	100	101.8		ug/L		102	51 - 130

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

Lab Sample ID: LCS 310-423508/2-A
Matrix: Water
Analysis Batch: 423965

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 423508

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Acetylaminofluorene	64.0	60.68		ug/L		95	35 - 150
2-Chloronaphthalene	100	94.88		ug/L		95	37 - 110
2-Chlorophenol	100	86.51		ug/L		87	44 - 117
2-Methylnaphthalene	100	95.74		ug/L		96	33 - 110
2-Methylphenol	100	88.01		ug/L		88	47 - 118
2-Naphthylamine	64.0	40.66		ug/L		64	18 - 127
2-Nitroaniline	100	99.80		ug/L		100	50 - 135
2-Nitrophenol	100	90.21		ug/L		90	41 - 129
3,3'-Dimethylbenzidine	64.0	21.26		ug/L		33	10 - 150
3-Methylcholanthrene	64.0	51.69		ug/L		81	43 - 150
3-Nitroaniline	100	112.4		ug/L		112	42 - 139
4,6-Dinitro-2-methylphenol	200	218.5		ug/L		109	22 - 143
4-Aminobiphenyl	64.0	48.08		ug/L		75	24 - 138
4-Bromophenyl phenyl ether	100	90.40		ug/L		90	45 - 119
4-Chloro-3-methylphenol	100	91.32		ug/L		91	49 - 130
4-Chloroaniline	100	80.58		ug/L		81	21 - 139
4-Chlorophenyl phenyl ether	100	93.08		ug/L		93	44 - 116
4-Methylphenol (and/or 3-Methylphenol)	100	77.04		ug/L		77	46 - 117
4-Nitroaniline	100	91.89		ug/L		92	31 - 145
4-Nitrophenol	200	105.0		ug/L		53	18 - 110
5-Nitro-o-toluidine	64.0	65.85		ug/L		103	47 - 145
7,12-Dimethylbenz(a)anthracene	64.0	57.67		ug/L		90	51 - 129
Acenaphthene	100	98.42		ug/L		98	43 - 110
Acenaphthylene	100	94.76		ug/L		95	40 - 110
Acetophenone	100	92.50		ug/L		92	48 - 119
Anthracene	100	95.87		ug/L		96	51 - 120
Benzo(a)anthracene	100	89.94		ug/L		90	51 - 123
Benzo(a)pyrene	100	95.19		ug/L		95	48 - 125
Benzo(b)fluoranthene	100	90.10		ug/L		90	49 - 129
Benzo(g,h,i)perylene	100	95.55		ug/L		96	43 - 139
Benzo(k)fluoranthene	100	97.48		ug/L		97	47 - 130
Benzyl alcohol	100	88.34		ug/L		88	39 - 128
Bis(2-chloroethoxy)methane	100	90.89		ug/L		91	48 - 121
Bis(2-chloroethyl)ether	100	94.72		ug/L		95	43 - 123
bis(2-chloroisopropyl) ether	100	88.31		ug/L		88	34 - 123
Bis(2-ethylhexyl) phthalate	100	103.9		ug/L		104	43 - 143
Butyl benzyl phthalate	100	97.57		ug/L		98	46 - 135
Chlorobenzilate	64.0	61.02		ug/L		95	52 - 138
Chrysene	100	93.32		ug/L		93	51 - 125
Diallate	64.0	58.13		ug/L		91	42 - 141
Dibenz(a,h)anthracene	100	94.99		ug/L		95	38 - 149
Dibenzofuran	100	96.25		ug/L		96	45 - 112
Diethyl phthalate	100	107.6		ug/L		108	43 - 135
Dimethoate	64.0	75.34		ug/L		118	51 - 150
Dimethyl phthalate	100	112.0		ug/L		112	43 - 129
Di-n-butyl phthalate	100	105.7		ug/L		106	50 - 133
Di-n-octyl phthalate	100	95.93		ug/L		96	34 - 150
Dinoseb	64.0	77.07		ug/L		120	25 - 146

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

Lab Sample ID: LCS 310-423508/2-A
Matrix: Water
Analysis Batch: 423965

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 423508

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diphenylamine	85.0	85.11		ug/L		100	48 - 122
Disulfoton	64.0	51.44		ug/L		80	54 - 131
Ethyl methanesulfonate	64.0	56.09		ug/L		88	48 - 120
Ethyl parathion	64.0	66.37		ug/L		104	52 - 149
Famphur	64.0	137.3	E *+	ug/L		215	44 - 150
Fluoranthene	100	92.37		ug/L		92	47 - 128
Fluorene	100	96.51		ug/L		97	45 - 119
Hexachlorobenzene	100	92.15		ug/L		92	48 - 119
Hexachlorobutadiene	100	92.01		ug/L		92	32 - 110
Hexachlorocyclopentadiene	100	54.70		ug/L		55	10 - 110
Hexachloroethane	100	74.19		ug/L		74	31 - 110
Hexachloropropene	64.0	45.09		ug/L		70	10 - 110
Indeno(1,2,3-cd)pyrene	100	99.55		ug/L		100	37 - 150
Isodrin	64.0	63.22		ug/L		99	52 - 125
Isophorone	100	88.40		ug/L		88	50 - 125
Isosafrole	64.0	59.96		ug/L		94	31 - 123
Kepone	64.0	NQ	E	ug/L		NaN	10 - 150
Methapyrilene	64.0	12.18		ug/L		19	10 - 110
Methyl methanesulfonate	64.0	37.02		ug/L		58	36 - 110
Methyl parathion	64.0	78.13		ug/L		122	50 - 150
Nitrobenzene	100	85.11		ug/L		85	47 - 116
N-Nitrosodiethylamine	64.0	59.01		ug/L		92	47 - 138
N-Nitrosodimethylamine	100	68.97		ug/L		69	37 - 110
N-Nitrosodi-n-butylamine	64.0	62.54		ug/L		98	52 - 142
N-Nitrosodi-n-propylamine	100	87.14		ug/L		87	45 - 130
N-Nitrosodiphenylamine	100	99.98		ug/L		100	49 - 121
N-Nitrosomethylethylamine	64.0	59.24		ug/L		93	54 - 123
N-Nitrosopiperidine	64.0	61.19		ug/L		96	60 - 127
N-Nitrosopyrrolidine	64.0	57.99		ug/L		91	56 - 143
o,o',o''-Triethylphosphorothioate	64.0	67.41		ug/L		105	45 - 113
o-Toluidine	64.0	55.73		ug/L		87	24 - 142
p-Dimethylamino azobenzene	64.0	66.05		ug/L		103	42 - 138
Pentachlorobenzene	64.0	61.43		ug/L		96	33 - 110
Pentachloronitrobenzene	64.0	60.36		ug/L		94	65 - 127
Pentachlorophenol	200	163.9		ug/L		82	26 - 133
Phenacetin	64.0	60.92		ug/L		95	56 - 146
Phenanthrene	100	93.62		ug/L		94	51 - 117
Phenol	100	56.08		ug/L		56	29 - 110
Phorate	64.0	52.72		ug/L		82	57 - 135
Pronamide	64.0	63.76		ug/L		100	61 - 144
Pyrene	100	97.43		ug/L		97	48 - 127
Safrole	64.0	66.21		ug/L		103	34 - 110
Thionazin	64.0	64.27		ug/L		100	52 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*64*		*25 - 110*
Phenol-d5 (Surr)	*60*		*21 - 110*
Nitrobenzene-d5 (Surr)	*89*		*45 - 129*

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

Lab Sample ID: LCS 310-423508/2-A
Matrix: Water
Analysis Batch: 423965

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 423508

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	78		39 - 118
2,4,6-Tribromophenol (Surr)	93		27 - 136
Terphenyl-d14 (Surr)	105		12 - 144

Lab Sample ID: LCSD 310-423508/3-A
Matrix: Water
Analysis Batch: 423965

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 423508

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene			100	88.14		ug/L		88	36 - 110	0	35
1,3,5-Trinitrobenzene			64.0	59.64		ug/L		93	39 - 144	4	35
1,3-Dinitrobenzene			100	120.2		ug/L		120	45 - 138	1	35
1,4-Naphthoquinone			64.0	65.56		ug/L		102	37 - 149	1	29
1,4-Phenylenediamine			64.0	<10.0	*-	ug/L		-1	20 - 120	21	35
1-Naphthylamine			64.0	40.29		ug/L		63	19 - 110	19	35
2,3,4,6-Tetrachlorophenol			100	106.4		ug/L		106	33 - 134	4	35
2,4,5-Trichlorophenol			100	94.53		ug/L		95	35 - 133	2	35
2,4,6-Trichlorophenol			100	104.1		ug/L		104	28 - 139	2	35
2,4-Dichlorophenol			100	98.80		ug/L		99	41 - 124	3	35
2,4-Dimethylphenol			100	84.35		ug/L		84	31 - 142	5	35
2,4-Dinitrophenol			200	185.4		ug/L		93	10 - 138	0	35
2,4-Dinitrotoluene			100	103.8		ug/L		104	47 - 137	3	35
2,6-Dichlorophenol			100	98.26		ug/L		98	30 - 130	1	35
2,6-Dinitrotoluene			100	103.8		ug/L		104	51 - 130	2	35
2-Acetylaminofluorene			64.0	62.67		ug/L		98	35 - 150	3	28
2-Chloronaphthalene			100	92.91		ug/L		93	37 - 110	2	35
2-Chlorophenol			100	89.23		ug/L		89	44 - 117	3	35
2-Methylnaphthalene			100	97.79		ug/L		98	33 - 110	2	35
2-Methylphenol			100	89.52		ug/L		90	47 - 118	2	35
2-Naphthylamine			64.0	45.84		ug/L		72	18 - 127	12	35
2-Nitroaniline			100	103.2		ug/L		103	50 - 135	3	35
2-Nitrophenol			100	92.95		ug/L		93	41 - 129	3	35
3,3'-Dimethylbenzidine			64.0	27.80		ug/L		43	10 - 150	27	35
3-Methylcholanthrene			64.0	59.44		ug/L		93	43 - 150	14	32
3-Nitroaniline			100	114.2		ug/L		114	42 - 139	2	35
4,6-Dinitro-2-methylphenol			200	221.2		ug/L		111	22 - 143	1	35
4-Aminobiphenyl			64.0	53.46		ug/L		84	24 - 138	11	35
4-Bromophenyl phenyl ether			100	94.25		ug/L		94	45 - 119	4	35
4-Chloro-3-methylphenol			100	92.52		ug/L		93	49 - 130	1	35
4-Chloroaniline			100	87.21		ug/L		87	21 - 139	8	35
4-Chlorophenyl phenyl ether			100	93.11		ug/L		93	44 - 116	0	35
4-Methylphenol (and/or 3-Methylphenol)			100	78.06		ug/L		78	46 - 117	1	35
4-Nitroaniline			100	94.18		ug/L		94	31 - 145	2	35
4-Nitrophenol			200	103.3		ug/L		52	18 - 110	2	35
5-Nitro-o-toluidine			64.0	70.58		ug/L		110	47 - 145	7	31
7,12-Dimethylbenz(a)anthracene			64.0	62.98		ug/L		98	51 - 129	9	28
Acenaphthene			100	101.8		ug/L		102	43 - 110	3	35
Acenaphthylene			100	95.32		ug/L		95	40 - 110	1	35

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

Lab Sample ID: LCSD 310-423508/3-A
Matrix: Water
Analysis Batch: 423965

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 423508

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetophenone	100	93.77		ug/L		94	48 - 119	1	35
Anthracene	100	97.64		ug/L		98	51 - 120	2	35
Benzo(a)anthracene	100	93.26		ug/L		93	51 - 123	4	35
Benzo(a)pyrene	100	99.36		ug/L		99	48 - 125	4	35
Benzo(b)fluoranthene	100	94.44		ug/L		94	49 - 129	5	35
Benzo(g,h,i)perylene	100	99.61		ug/L		100	43 - 139	4	35
Benzo(k)fluoranthene	100	101.4		ug/L		101	47 - 130	4	35
Benzyl alcohol	100	89.90		ug/L		90	39 - 128	2	35
Bis(2-chloroethoxy)methane	100	91.70		ug/L		92	48 - 121	1	35
Bis(2-chloroethyl)ether	100	96.67		ug/L		97	43 - 123	2	35
bis(2-chloroisopropyl) ether	100	89.47		ug/L		89	34 - 123	1	35
Bis(2-ethylhexyl) phthalate	100	107.7		ug/L		108	43 - 143	4	35
Butyl benzyl phthalate	100	99.22		ug/L		99	46 - 135	2	35
Chlorobenzilate	64.0	64.97		ug/L		102	52 - 138	6	28
Chrysene	100	95.80		ug/L		96	51 - 125	3	35
Diallate	64.0	59.95		ug/L		94	42 - 141	3	35
Dibenz(a,h)anthracene	100	95.83		ug/L		96	38 - 149	1	35
Dibenzofuran	100	97.57		ug/L		98	45 - 112	1	35
Diethyl phthalate	100	106.4		ug/L		106	43 - 135	1	35
Dimethoate	64.0	81.08		ug/L		127	51 - 150	7	26
Dimethyl phthalate	100	113.5		ug/L		113	43 - 129	1	35
Di-n-butyl phthalate	100	109.7		ug/L		110	50 - 133	4	35
Di-n-octyl phthalate	100	101.8		ug/L		102	34 - 150	6	35
Dinoseb	64.0	80.18		ug/L		125	25 - 146	4	35
Diphenylamine	85.0	86.78		ug/L		102	48 - 122	2	35
Disulfoton	64.0	53.82		ug/L		84	54 - 131	5	24
Ethyl methanesulfonate	64.0	56.16		ug/L		88	48 - 120	0	27
Ethyl parathion	64.0	68.43		ug/L		107	52 - 149	3	26
Famphur	64.0	142.6	E *+	ug/L		223	44 - 150	4	35
Fluoranthene	100	94.74		ug/L		95	47 - 128	3	35
Fluorene	100	95.72		ug/L		96	45 - 119	1	35
Hexachlorobenzene	100	91.35		ug/L		91	48 - 119	1	35
Hexachlorobutadiene	100	92.28		ug/L		92	32 - 110	0	35
Hexachlorocyclopentadiene	100	55.73		ug/L		56	10 - 110	2	35
Hexachloroethane	100	76.47		ug/L		76	31 - 110	3	35
Hexachloropropene	64.0	46.53		ug/L		73	10 - 110	3	35
Indeno(1,2,3-cd)pyrene	100	101.8		ug/L		102	37 - 150	2	35
Isodrin	64.0	67.15		ug/L		105	52 - 125	6	26
Isophorone	100	89.84		ug/L		90	50 - 125	2	35
Isosafrole	64.0	62.18		ug/L		97	31 - 123	4	35
Kepone	64.0	NQ	E	ug/L		NaN	10 - 150	NaN	35
Methapyrilene	64.0	18.09	*1	ug/L		28	10 - 110	39	35
Methyl methanesulfonate	64.0	37.83		ug/L		59	36 - 110	2	26
Methyl parathion	64.0	80.38		ug/L		126	50 - 150	3	25
Nitrobenzene	100	85.78		ug/L		86	47 - 116	1	35
N-Nitrosodiethylamine	64.0	61.59		ug/L		96	47 - 138	4	26
N-Nitrosodimethylamine	100	69.63		ug/L		70	37 - 110	1	35
N-Nitrosodi-n-butylamine	64.0	64.05		ug/L		100	52 - 142	2	27
N-Nitrosodi-n-propylamine	100	88.99		ug/L		89	45 - 130	2	35

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

Lab Sample ID: LCSD 310-423508/3-A
Matrix: Water
Analysis Batch: 423965

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 423508

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-Nitrosodiphenylamine			100	101.4		ug/L		101	49 - 121	1	35
N-Nitrosomethylethylamine			64.0	60.52		ug/L		95	54 - 123	2	26
N-Nitrosopiperidine			64.0	62.42		ug/L		98	60 - 127	2	26
N-Nitrosopyrrolidine			64.0	61.04		ug/L		95	56 - 143	5	25
o,o',o''-Triethylphosphorothioate			64.0	70.30		ug/L		110	45 - 113	4	33
o-Toluidine			64.0	59.33		ug/L		93	24 - 142	6	35
p-Dimethylamino azobenzene			64.0	68.85		ug/L		108	42 - 138	4	29
Pentachlorobenzene			64.0	63.25		ug/L		99	33 - 110	3	35
Pentachloronitrobenzene			64.0	61.32		ug/L		96	65 - 127	2	29
Pentachlorophenol			200	172.2		ug/L		86	26 - 133	5	35
Phenacetin			64.0	64.59		ug/L		101	56 - 146	6	25
Phenanthrene			100	95.48		ug/L		95	51 - 117	2	35
Phenol			100	57.78		ug/L		58	29 - 110	3	35
Phorate			64.0	55.53		ug/L		87	57 - 135	5	26
Pronamide			64.0	67.14		ug/L		105	61 - 144	5	27
Pyrene			100	98.57		ug/L		99	48 - 127	1	35
Safrole			64.0	67.86		ug/L		106	34 - 110	2	35
Thionazin			64.0	67.03		ug/L		105	52 - 147	4	28

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol (Surr)	*70*		*25 - 110*
Phenol-d5 (Surr)	*65*		*21 - 110*
Nitrobenzene-d5 (Surr)	*97*		*45 - 129*
2-Fluorobiphenyl (Surr)	*92*		*39 - 118*
2,4,6-Tribromophenol (Surr)	*97*		*27 - 136*
Terphenyl-d14 (Surr)	*114*		*12 - 144*

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

Lab Sample ID: MB 310-423520/10
Matrix: Water
Analysis Batch: 423520

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetonitrile	<10.0		10.0	2.60	mg/L			06/05/24 10:39	1
Isobutanol	<10.0		10.0	2.40	mg/L			06/05/24 10:39	1

Lab Sample ID: LCS 310-423520/11
Matrix: Water
Analysis Batch: 423520

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Acetonitrile			113	131.7		mg/L		116	67 - 132		
Isobutanol			104	110.2		mg/L		106	80 - 121		

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 310-423348/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 424040
Prep Batch: 423348

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0640		0.0640	0.0270	ug/L		06/03/24 09:59	06/10/24 19:55	1
4,4'-DDE	<0.0640		0.0640	0.0270	ug/L		06/03/24 09:59	06/10/24 19:55	1
4,4'-DDT	<0.0640		0.0640	0.0420	ug/L		06/03/24 09:59	06/10/24 19:55	1
Aldrin	<0.0640		0.0640	0.0320	ug/L		06/03/24 09:59	06/10/24 19:55	1
alpha-BHC	<0.0640		0.0640	0.0290	ug/L		06/03/24 09:59	06/10/24 19:55	1
beta-BHC	<0.0640		0.0640	0.0370	ug/L		06/03/24 09:59	06/10/24 19:55	1
Chlordane (technical)	<2.00		2.00	0.810	ug/L		06/03/24 09:59	06/10/24 19:55	1
delta-BHC	<0.0640		0.0640	0.0270	ug/L		06/03/24 09:59	06/10/24 19:55	1
Dieldrin	<0.0640		0.0640	0.0260	ug/L		06/03/24 09:59	06/10/24 19:55	1
Endosulfan I	<0.0640		0.0640	0.0330	ug/L		06/03/24 09:59	06/10/24 19:55	1
Endosulfan II	<0.0640		0.0640	0.0290	ug/L		06/03/24 09:59	06/10/24 19:55	1
Endosulfan sulfate	<0.0640		0.0640	0.0300	ug/L		06/03/24 09:59	06/10/24 19:55	1
Endrin	<0.0640		0.0640	0.0260	ug/L		06/03/24 09:59	06/10/24 19:55	1
Endrin aldehyde	<0.0640		0.0640	0.0290	ug/L		06/03/24 09:59	06/10/24 19:55	1
gamma-BHC (Lindane)	<0.0640		0.0640	0.0360	ug/L		06/03/24 09:59	06/10/24 19:55	1
Heptachlor	<0.0640		0.0640	0.0330	ug/L		06/03/24 09:59	06/10/24 19:55	1
Heptachlor epoxide	<0.0640		0.0640	0.0290	ug/L		06/03/24 09:59	06/10/24 19:55	1
Methoxychlor	<0.0640		0.0640	0.0410	ug/L		06/03/24 09:59	06/10/24 19:55	1
Toxaphene	<2.00		2.00	0.690	ug/L		06/03/24 09:59	06/10/24 19:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*83*		*10 - 136*	*06/03/24 09:59*	*06/10/24 19:55*	*1*
Tetrachloro-m-xylene	*68*		*10 - 130*	*06/03/24 09:59*	*06/10/24 19:55*	*1*

Lab Sample ID: LCS 310-423348/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 424040
Prep Batch: 423348

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	1.00	0.9836		ug/L		98	36 - 149
4,4'-DDE	1.00	0.9211		ug/L		92	34 - 130
4,4'-DDT	1.00	1.059		ug/L		106	23 - 150
Aldrin	1.00	0.8525		ug/L		85	13 - 120
alpha-BHC	1.00	0.9516		ug/L		95	36 - 127
beta-BHC	1.00	0.9823		ug/L		98	37 - 136
delta-BHC	1.00	0.9732		ug/L		97	33 - 134
Dieldrin	1.00	0.9799		ug/L		98	39 - 130
Endosulfan I	1.00	0.8978		ug/L		90	10 - 120
Endosulfan II	1.00	0.9221		ug/L		92	14 - 120
Endosulfan sulfate	1.00	1.074		ug/L		107	36 - 147
Endrin	1.00	0.9943		ug/L		99	39 - 140
Endrin aldehyde	1.00	0.9283		ug/L		93	32 - 137
gamma-BHC (Lindane)	1.00	0.9814		ug/L		98	36 - 132
Heptachlor	1.00	0.9723		ug/L		97	27 - 120
Heptachlor epoxide	1.00	0.9796		ug/L		98	38 - 133
Methoxychlor	1.00	1.031		ug/L		103	10 - 150

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

Lab Sample ID: LCS 310-423348/2-A
Matrix: Water
Analysis Batch: 424040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 423348

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	82		10 - 136
Tetrachloro-m-xylene	59		10 - 130

Lab Sample ID: LCSD 310-423348/3-A
Matrix: Water
Analysis Batch: 424040

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 423348

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD			1.00	0.9246		ug/L		92	36 - 149	6	35
4,4'-DDE			1.00	0.8723		ug/L		87	34 - 130	5	35
4,4'-DDT			1.00	0.9931		ug/L		99	23 - 150	6	35
Aldrin			1.00	0.8142		ug/L		81	13 - 120	5	35
alpha-BHC			1.00	0.9061		ug/L		91	36 - 127	5	35
beta-BHC			1.00	0.9345		ug/L		93	37 - 136	5	35
delta-BHC			1.00	0.9326		ug/L		93	33 - 134	4	35
Dieldrin			1.00	0.9260		ug/L		93	39 - 130	6	35
Endosulfan I			1.00	0.8508		ug/L		85	10 - 120	5	35
Endosulfan II			1.00	0.8732		ug/L		87	14 - 120	5	35
Endosulfan sulfate			1.00	1.015		ug/L		102	36 - 147	6	35
Endrin			1.00	0.9332		ug/L		93	39 - 140	6	35
Endrin aldehyde			1.00	0.8826		ug/L		88	32 - 137	5	35
gamma-BHC (Lindane)			1.00	0.9326		ug/L		93	36 - 132	5	35
Heptachlor			1.00	0.9274		ug/L		93	27 - 120	5	35
Heptachlor epoxide			1.00	0.9264		ug/L		93	38 - 133	6	35
Methoxychlor			1.00	0.9782		ug/L		98	10 - 150	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	77		10 - 136
Tetrachloro-m-xylene	53		10 - 130

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

Lab Sample ID: MB 310-423348/1-A
Matrix: Water
Analysis Batch: 424041

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 423348

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.800		0.800	0.170	ug/L		06/03/24 09:59	06/10/24 19:55	1
PCB-1221	<0.800		0.800	0.170	ug/L		06/03/24 09:59	06/10/24 19:55	1
PCB-1232	<0.800		0.800	0.170	ug/L		06/03/24 09:59	06/10/24 19:55	1
PCB-1242	<0.800		0.800	0.170	ug/L		06/03/24 09:59	06/10/24 19:55	1
PCB-1248	<0.800		0.800	0.110	ug/L		06/03/24 09:59	06/10/24 19:55	1
PCB-1254	<0.800		0.800	0.110	ug/L		06/03/24 09:59	06/10/24 19:55	1
PCB-1260	<0.800		0.800	0.110	ug/L		06/03/24 09:59	06/10/24 19:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	83		10 - 136	06/03/24 09:59	06/10/24 19:55	1
Tetrachloro-m-xylene	68		10 - 130	06/03/24 09:59	06/10/24 19:55	1

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

Lab Sample ID: LCS 310-423348/4-A
Matrix: Water
Analysis Batch: 424041

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 423348

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			10.0	8.196		ug/L		82	30 - 133		
PCB-1260			10.0	8.036		ug/L		80	31 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*84*		*10 - 136*
Tetrachloro-m-xylene	*63*		*10 - 130*

Lab Sample ID: LCSD 310-423348/5-A
Matrix: Water
Analysis Batch: 424041

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 423348

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			10.0	8.445		ug/L		84	30 - 133	3	35
PCB-1260			10.0	7.988		ug/L		80	31 - 133	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*76*		*10 - 136*
Tetrachloro-m-xylene	*49*		*10 - 130*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 410-514063/1-A
Matrix: Water
Analysis Batch: 514234

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 514063

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	<0.150		0.150	0.0650	ug/L		06/05/24 15:12	06/06/24 05:59	1
Silvex (2,4,5-TP)	<0.0500		0.0500	0.0220	ug/L		06/05/24 15:12	06/06/24 05:59	1
2,4-D	<0.600		0.600	0.250	ug/L		06/05/24 15:12	06/06/24 05:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr)	*58*		*34 - 142*	*06/05/24 15:12*	*06/06/24 05:59*	*1*
2,4-Dichlorophenylacetic acid (Surr)	*56*		*34 - 142*	*06/05/24 15:12*	*06/06/24 05:59*	*1*

Lab Sample ID: LCS 410-514063/2-A
Matrix: Water
Analysis Batch: 514234

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 514063

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4,5-T			0.250	0.2014		ug/L		81	57 - 171		
Silvex (2,4,5-TP)			0.250	0.1942		ug/L		78	62 - 170		
2,4-D			2.51	1.818		ug/L		72	53 - 159		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid (Surr)	*70*		*34 - 142*
2,4-Dichlorophenylacetic acid (Surr)	*71*		*34 - 142*

Method: 8151A - Herbicides (GC)

Lab Sample ID: LCSD 410-514063/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 514234
Prep Batch: 514063

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-T			0.250	0.2211		ug/L		88	57 - 171	9	30
Silvex (2,4,5-TP)			0.250	0.2126		ug/L		85	62 - 170	9	30
2,4-D			2.51	1.960		ug/L		78	53 - 159	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid (Surr)	*73*		*34 - 142*
2,4-Dichlorophenylacetic acid (Surr)	*76*		*34 - 142*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-423406/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 424025
Prep Batch: 423406

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		06/04/24 09:15	06/07/24 14:51	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		06/04/24 09:15	06/07/24 14:51	1
Barium	<0.00200		0.00200	0.000660	mg/L		06/04/24 09:15	06/07/24 14:51	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/04/24 09:15	06/07/24 14:51	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		06/04/24 09:15	06/07/24 14:51	1
Chromium	<0.00500		0.00500	0.00120	mg/L		06/04/24 09:15	06/07/24 14:51	1
Copper	<0.00500		0.00500	0.00180	mg/L		06/04/24 09:15	06/07/24 14:51	1
Lead	<0.000500		0.000500	0.000260	mg/L		06/04/24 09:15	06/07/24 14:51	1
Nickel	<0.00500		0.00500	0.00210	mg/L		06/04/24 09:15	06/07/24 14:51	1
Selenium	<0.00500		0.00500	0.00140	mg/L		06/04/24 09:15	06/07/24 14:51	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/04/24 09:15	06/07/24 14:51	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		06/04/24 09:15	06/07/24 14:51	1
Zinc	<0.0200		0.0200	0.00970	mg/L		06/04/24 09:15	06/07/24 14:51	1

Lab Sample ID: MB 310-423406/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 424663
Prep Batch: 423406

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00100		0.00100	0.000500	mg/L		06/04/24 09:15	06/14/24 15:02	1

Lab Sample ID: MB 310-423406/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 424666
Prep Batch: 423406

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.000500		0.000500	0.000170	mg/L		06/04/24 09:15	06/14/24 15:48	1
Tin	<5.00		5.00	2.30	ug/L		06/04/24 09:15	06/14/24 15:48	1

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

Lab Sample ID: LCS 310-423406/2-A
Matrix: Water
Analysis Batch: 424025

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 423406

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.2090		mg/L		105	80 - 120
Arsenic	0.200	0.2013		mg/L		101	80 - 120
Barium	0.100	0.1060		mg/L		106	80 - 120
Beryllium	0.100	0.09863		mg/L		99	80 - 120
Cadmium	0.100	0.09976		mg/L		100	80 - 120
Chromium	0.100	0.09376		mg/L		94	80 - 120
Copper	0.200	0.2053		mg/L		103	80 - 120
Lead	0.200	0.2026		mg/L		101	80 - 120
Nickel	0.200	0.2006		mg/L		100	80 - 120
Selenium	0.400	0.3836		mg/L		96	80 - 120
Thallium	0.100	0.1085		mg/L		109	80 - 120
Vanadium	0.100	0.09165		mg/L		92	80 - 120
Zinc	0.200	0.1957		mg/L		98	80 - 120

Lab Sample ID: LCS 310-423406/2-A
Matrix: Water
Analysis Batch: 424663

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 423406

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	0.100	0.1100		mg/L		110	80 - 120

Lab Sample ID: LCS 310-423406/2-A
Matrix: Water
Analysis Batch: 424666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 423406

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	0.100	0.09650		mg/L		97	80 - 120
Tin	200	182.7		ug/L		91	80 - 120

Lab Sample ID: 310-282518-10 DU
Matrix: Groundwater
Analysis Batch: 424025

Client Sample ID: MW-15C
Prep Type: Total/NA
Prep Batch: 423406

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<0.00200		<0.00200		mg/L		NC	20
Arsenic	<0.00200		<0.00200		mg/L		NC	20
Barium	0.0902		0.08922		mg/L		1	20
Beryllium	<0.00100		<0.00100		mg/L		NC	20
Cadmium	<0.000200		<0.000200		mg/L		NC	20
Chromium	<0.00500		<0.00500		mg/L		NC	20
Copper	<0.00500		<0.00500		mg/L		NC	20
Lead	<0.000500		<0.000500		mg/L		NC	20
Nickel	0.00664		0.006651		mg/L		0.2	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
Zinc	<0.0200		<0.0200		mg/L		NC	20

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

Lab Sample ID: 310-282518-10 DU
Matrix: Groundwater
Analysis Batch: 424663

Client Sample ID: MW-15C
Prep Type: Total/NA
Prep Batch: 423406

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

Lab Sample ID: 310-282518-10 DU
Matrix: Groundwater
Analysis Batch: 424666

Client Sample ID: MW-15C
Prep Type: Total/NA
Prep Batch: 423406

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cobalt	0.000172	J	0.0001730	J	mg/L		0.6	20
Tin	<0.00500		<5.00		ug/L		NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 310-423471/1-A
Matrix: Water
Analysis Batch: 423808

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 423471

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200	0.000110	mg/L		06/04/24 10:22	06/06/24 11:03	1

Lab Sample ID: LCS 310-423471/2-A
Matrix: Water
Analysis Batch: 423808

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 423471

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00167	0.001470		mg/L		88	80 - 120

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 310-423646/1-A
Matrix: Water
Analysis Batch: 423860

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 423646

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0100		0.0100	0.00350	mg/L		06/05/24 12:26	06/06/24 17:11	1

Lab Sample ID: LCS 310-423646/2-A
Matrix: Water
Analysis Batch: 423860

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 423646

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.200	0.1847		mg/L		92	90 - 110

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

Lab Sample ID: MB 500-770982/1-A
Matrix: Water
Analysis Batch: 770983

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 770982

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.00		1.00	0.231	mg/L		06/04/24 18:00	06/04/24 21:37	1

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

Lab Sample ID: LCS 500-770982/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 770983
Prep Batch: 770982

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			3.64	3.823		mg/L		105	80 - 120		

Lab Sample ID: 310-282518-1 MS
Client Sample ID: MW-11
Matrix: Groundwater
Prep Type: Total/NA
Analysis Batch: 770983
Prep Batch: 770982

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	<1.00		9.09	8.795		mg/L		97	75 - 125		

Lab Sample ID: 310-282518-1 MSD
Client Sample ID: MW-11
Matrix: Groundwater
Prep Type: Total/NA
Analysis Batch: 770983
Prep Batch: 770982

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<1.00		9.09	8.192		mg/L		90	75 - 125	7	20

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

Lab Sample ID: MB 310-423431/1
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 423431

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.70	mg/L			06/04/24 07:45	1

Lab Sample ID: LCS 310-423431/2
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 423431

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			100	91.00		mg/L		91	81 - 116		

Lab Sample ID: 310-282518-8 DU
Client Sample ID: MW-15R
Matrix: Groundwater
Prep Type: Total/NA
Analysis Batch: 423431

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	67.0			52.00		mg/L				25	35

GC/MS VOA

Analysis Batch: 423352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-282518-6	MW-13R	Total/NA	Groundwater	8260D	
310-282518-7	MW-14R	Total/NA	Groundwater	8260D	
310-282518-8	MW-15R	Total/NA	Groundwater	8260D	
310-282518-9	MW-39	Total/NA	Groundwater	8260D	
310-282518-10	MW-15C	Total/NA	Groundwater	8260D	
310-282518-11	MW-44	Total/NA	Groundwater	8260D	
310-282518-12	MW-DC	Total/NA	Groundwater	8260D	
310-282518-13	Trip Blank	Total/NA	Groundwater	8260D	
MB 310-423352/5	Method Blank	Total/NA	Water	8260D	
LCS 310-423352/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-423352/7	Lab Control Sample	Total/NA	Water	8260D	
310-282518-6 MS	MW-13R	Total/NA	Groundwater	8260D	
310-282518-6 MSD	MW-13R	Total/NA	Groundwater	8260D	

Analysis Batch: 423354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-282518-2	MW-7	Total/NA	Groundwater	8260D	
310-282518-4	MW-10R	Total/NA	Groundwater	8260D	
310-282518-5	MW-12	Total/NA	Groundwater	8260D	
MB 310-423354/5	Method Blank	Total/NA	Water	8260D	
LCS 310-423354/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-423354/7	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 423508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-282518-5	MW-12	Total/NA	Groundwater	3510C	
310-282518-6	MW-13R	Total/NA	Groundwater	3510C	
MB 310-423508/1-A	Method Blank	Total/NA	Water	3510C	
LCS 310-423508/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 310-423508/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 423965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-282518-5	MW-12	Total/NA	Groundwater	8270E	423508
310-282518-6	MW-13R	Total/NA	Groundwater	8270E	423508
MB 310-423508/1-A	Method Blank	Total/NA	Water	8270E	423508
LCS 310-423508/2-A	Lab Control Sample	Total/NA	Water	8270E	423508
LCSD 310-423508/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	423508

GC Semi VOA

Prep Batch: 423348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-282518-5	MW-12	Total/NA	Groundwater	3510C	
310-282518-6	MW-13R	Total/NA	Groundwater	3510C	
MB 310-423348/1-A	Method Blank	Total/NA	Water	3510C	
LCS 310-423348/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 310-423348/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 310-423348/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 310-423348/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	

GC Semi VOA

Analysis Batch: 423520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-282518-5	MW-12	Total/NA	Groundwater	8015C	
310-282518-6	MW-13R	Total/NA	Groundwater	8015C	
MB 310-423520/10	Method Blank	Total/NA	Water	8015C	
LCS 310-423520/11	Lab Control Sample	Total/NA	Water	8015C	

Analysis Batch: 424040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-282518-5	MW-12	Total/NA	Groundwater	8081B	423348
310-282518-6	MW-13R	Total/NA	Groundwater	8081B	423348
MB 310-423348/1-A	Method Blank	Total/NA	Water	8081B	423348
LCS 310-423348/2-A	Lab Control Sample	Total/NA	Water	8081B	423348
LCSD 310-423348/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	423348

Analysis Batch: 424041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-282518-5	MW-12	Total/NA	Groundwater	8082A	423348
310-282518-6	MW-13R	Total/NA	Groundwater	8082A	423348
MB 310-423348/1-A	Method Blank	Total/NA	Water	8082A	423348
LCS 310-423348/4-A	Lab Control Sample	Total/NA	Water	8082A	423348
LCSD 310-423348/5-A	Lab Control Sample Dup	Total/NA	Water	8082A	423348

Prep Batch: 514063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-282518-5	MW-12	Total/NA	Groundwater	8151A	
310-282518-6	MW-13R	Total/NA	Groundwater	8151A	
MB 410-514063/1-A	Method Blank	Total/NA	Water	8151A	
LCS 410-514063/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 410-514063/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	

Analysis Batch: 514234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-282518-5	MW-12	Total/NA	Groundwater	8151A	514063
310-282518-6	MW-13R	Total/NA	Groundwater	8151A	514063
MB 410-514063/1-A	Method Blank	Total/NA	Water	8151A	514063
LCS 410-514063/2-A	Lab Control Sample	Total/NA	Water	8151A	514063
LCSD 410-514063/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	514063

Metals

Prep Batch: 423406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-282518-1	MW-11	Total/NA	Groundwater	3005A	
310-282518-2	MW-7	Total/NA	Groundwater	3005A	
310-282518-3	MW-9R	Total/NA	Groundwater	3005A	
310-282518-4	MW-10R	Total/NA	Groundwater	3005A	
310-282518-5	MW-12	Total/NA	Groundwater	3005A	
310-282518-6	MW-13R	Total/NA	Groundwater	3005A	
310-282518-7	MW-14R	Total/NA	Groundwater	3005A	
310-282518-8	MW-15R	Total/NA	Groundwater	3005A	
310-282518-9	MW-39	Total/NA	Groundwater	3005A	
310-282518-10	MW-15C	Total/NA	Groundwater	3005A	

Metals (Continued)

Prep Batch: 423406 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-282518-11	MW-44	Total/NA	Groundwater	3005A	
310-282518-12	MW-DC	Total/NA	Groundwater	3005A	
MB 310-423406/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-423406/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-282518-10 DU	MW-15C	Total/NA	Groundwater	3005A	

Prep Batch: 423471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-282518-5	MW-12	Total/NA	Groundwater	7470A	
310-282518-6	MW-13R	Total/NA	Groundwater	7470A	
MB 310-423471/1-A	Method Blank	Total/NA	Water	7470A	
LCS 310-423471/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 423808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-282518-5	MW-12	Total/NA	Groundwater	7470A	423471
310-282518-6	MW-13R	Total/NA	Groundwater	7470A	423471
MB 310-423471/1-A	Method Blank	Total/NA	Water	7470A	423471
LCS 310-423471/2-A	Lab Control Sample	Total/NA	Water	7470A	423471

Analysis Batch: 424025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-282518-1	MW-11	Total/NA	Groundwater	6020B	423406
310-282518-2	MW-7	Total/NA	Groundwater	6020B	423406
310-282518-3	MW-9R	Total/NA	Groundwater	6020B	423406
310-282518-4	MW-10R	Total/NA	Groundwater	6020B	423406
310-282518-5	MW-12	Total/NA	Groundwater	6020B	423406
310-282518-6	MW-13R	Total/NA	Groundwater	6020B	423406
310-282518-7	MW-14R	Total/NA	Groundwater	6020B	423406
310-282518-8	MW-15R	Total/NA	Groundwater	6020B	423406
310-282518-9	MW-39	Total/NA	Groundwater	6020B	423406
310-282518-10	MW-15C	Total/NA	Groundwater	6020B	423406
310-282518-11	MW-44	Total/NA	Groundwater	6020B	423406
310-282518-12	MW-DC	Total/NA	Groundwater	6020B	423406
MB 310-423406/1-A	Method Blank	Total/NA	Water	6020B	423406
LCS 310-423406/2-A	Lab Control Sample	Total/NA	Water	6020B	423406
310-282518-10 DU	MW-15C	Total/NA	Groundwater	6020B	423406

Analysis Batch: 424663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-282518-5	MW-12	Total/NA	Groundwater	6020B	423406
310-282518-6	MW-13R	Total/NA	Groundwater	6020B	423406
310-282518-7	MW-14R	Total/NA	Groundwater	6020B	423406
310-282518-8	MW-15R	Total/NA	Groundwater	6020B	423406
310-282518-9	MW-39	Total/NA	Groundwater	6020B	423406
310-282518-10	MW-15C	Total/NA	Groundwater	6020B	423406
310-282518-11	MW-44	Total/NA	Groundwater	6020B	423406
310-282518-12	MW-DC	Total/NA	Groundwater	6020B	423406
MB 310-423406/1-A	Method Blank	Total/NA	Water	6020B	423406
LCS 310-423406/2-A	Lab Control Sample	Total/NA	Water	6020B	423406
310-282518-10 DU	MW-15C	Total/NA	Groundwater	6020B	423406

Metals

Analysis Batch: 424666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-282518-1	MW-11	Total/NA	Groundwater	6020B	423406
310-282518-2	MW-7	Total/NA	Groundwater	6020B	423406
310-282518-3	MW-9R	Total/NA	Groundwater	6020B	423406
310-282518-4	MW-10R	Total/NA	Groundwater	6020B	423406
310-282518-5	MW-12	Total/NA	Groundwater	6020B	423406
310-282518-6	MW-13R	Total/NA	Groundwater	6020B	423406
310-282518-7	MW-14R	Total/NA	Groundwater	6020B	423406
310-282518-8	MW-15R	Total/NA	Groundwater	6020B	423406
310-282518-9	MW-39	Total/NA	Groundwater	6020B	423406
310-282518-10	MW-15C	Total/NA	Groundwater	6020B	423406
310-282518-11	MW-44	Total/NA	Groundwater	6020B	423406
310-282518-12	MW-DC	Total/NA	Groundwater	6020B	423406
MB 310-423406/1-A	Method Blank	Total/NA	Water	6020B	423406
LCS 310-423406/2-A	Lab Control Sample	Total/NA	Water	6020B	423406
310-282518-10 DU	MW-15C	Total/NA	Groundwater	6020B	423406

General Chemistry

Analysis Batch: 423431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-282518-1	MW-11	Total/NA	Groundwater	I-3765-85	
310-282518-2	MW-7	Total/NA	Groundwater	I-3765-85	
310-282518-3	MW-9R	Total/NA	Groundwater	I-3765-85	
310-282518-4	MW-10R	Total/NA	Groundwater	I-3765-85	
310-282518-5	MW-12	Total/NA	Groundwater	I-3765-85	
310-282518-6	MW-13R	Total/NA	Groundwater	I-3765-85	
310-282518-7	MW-14R	Total/NA	Groundwater	I-3765-85	
310-282518-8	MW-15R	Total/NA	Groundwater	I-3765-85	
310-282518-9	MW-39	Total/NA	Groundwater	I-3765-85	
310-282518-10	MW-15C	Total/NA	Groundwater	I-3765-85	
310-282518-11	MW-44	Total/NA	Groundwater	I-3765-85	
310-282518-12	MW-DC	Total/NA	Groundwater	I-3765-85	
MB 310-423431/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-423431/2	Lab Control Sample	Total/NA	Water	I-3765-85	
310-282518-8 DU	MW-15R	Total/NA	Groundwater	I-3765-85	

Prep Batch: 423646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-282518-5	MW-12	Total/NA	Groundwater	9012B	
310-282518-6	MW-13R	Total/NA	Groundwater	9012B	
MB 310-423646/1-A	Method Blank	Total/NA	Water	9012B	
LCS 310-423646/2-A	Lab Control Sample	Total/NA	Water	9012B	

Analysis Batch: 423860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-282518-5	MW-12	Total/NA	Groundwater	9012B	423646
310-282518-6	MW-13R	Total/NA	Groundwater	9012B	423646
MB 310-423646/1-A	Method Blank	Total/NA	Water	9012B	423646
LCS 310-423646/2-A	Lab Control Sample	Total/NA	Water	9012B	423646

QC Association Summary

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

General Chemistry

Prep Batch: 770982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-282518-1	MW-11	Total/NA	Groundwater	9030B	
310-282518-3	MW-9R	Total/NA	Groundwater	9030B	
310-282518-5	MW-12	Total/NA	Groundwater	9030B	
310-282518-6	MW-13R	Total/NA	Groundwater	9030B	
MB 500-770982/1-A	Method Blank	Total/NA	Water	9030B	
LCS 500-770982/2-A	Lab Control Sample	Total/NA	Water	9030B	
310-282518-1 MS	MW-11	Total/NA	Groundwater	9030B	
310-282518-1 MSD	MW-11	Total/NA	Groundwater	9030B	

Analysis Batch: 770983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-282518-1	MW-11	Total/NA	Groundwater	9034	770982
310-282518-3	MW-9R	Total/NA	Groundwater	9034	770982
310-282518-5	MW-12	Total/NA	Groundwater	9034	770982
310-282518-6	MW-13R	Total/NA	Groundwater	9034	770982
MB 500-770982/1-A	Method Blank	Total/NA	Water	9034	770982
LCS 500-770982/2-A	Lab Control Sample	Total/NA	Water	9034	770982
310-282518-1 MS	MW-11	Total/NA	Groundwater	9034	770982
310-282518-1 MSD	MW-11	Total/NA	Groundwater	9034	770982

Lab Chronicle

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Client Sample ID: MW-11
Lab Sample ID: 310-282518-1
Date Collected: 05/30/24 09:20
Matrix: Groundwater
Date Received: 05/31/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			423406	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424666	NFT2	EET CF	06/14/24 15:55
Total/NA	Prep	3005A			423406	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424025	DHM5	EET CF	06/07/24 15:06
Total/NA	Prep	9030B			770982	CLB	EET CHI	06/04/24 18:10 - 06/04/24 18:12 [1]
Total/NA	Analysis	9034		1	770983	CLB	EET CHI	06/04/24 22:05 - 06/04/24 22:11 [1]
Total/NA	Analysis	I-3765-85		1	423431	DGU1	EET CF	06/04/24 07:45

Client Sample ID: MW-7
Lab Sample ID: 310-282518-2
Date Collected: 05/30/24 13:34
Matrix: Groundwater
Date Received: 05/31/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	423354	WSE8	EET CF	06/03/24 19:53
Total/NA	Prep	3005A			423406	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424666	NFT2	EET CF	06/14/24 15:59
Total/NA	Prep	3005A			423406	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424025	DHM5	EET CF	06/07/24 15:08
Total/NA	Analysis	I-3765-85		1	423431	DGU1	EET CF	06/04/24 07:45

Client Sample ID: MW-9R
Lab Sample ID: 310-282518-3
Date Collected: 05/30/24 11:46
Matrix: Groundwater
Date Received: 05/31/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			423406	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424666	NFT2	EET CF	06/14/24 16:02
Total/NA	Prep	3005A			423406	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424025	DHM5	EET CF	06/07/24 15:19
Total/NA	Prep	9030B			770982	CLB	EET CHI	06/04/24 18:17 - 06/04/24 18:19 [1]
Total/NA	Analysis	9034		1	770983	CLB	EET CHI	06/04/24 22:23 - 06/04/24 22:29 [1]
Total/NA	Analysis	I-3765-85		1	423431	DGU1	EET CF	06/04/24 07:45

Client Sample ID: MW-10R
Lab Sample ID: 310-282518-4
Date Collected: 05/30/24 12:34
Matrix: Groundwater
Date Received: 05/31/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	423354	WSE8	EET CF	06/03/24 20:15
Total/NA	Prep	3005A			423406	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424666	NFT2	EET CF	06/14/24 16:06
Total/NA	Prep	3005A			423406	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424025	DHM5	EET CF	06/07/24 15:21
Total/NA	Analysis	I-3765-85		1	423431	DGU1	EET CF	06/04/24 07:45

Lab Chronicle

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Client Sample ID: MW-12
Lab Sample ID: 310-282518-5
Date Collected: 05/30/24 10:57
Matrix: Groundwater
Date Received: 05/31/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	423354	WSE8	EET CF	06/03/24 20:38
Total/NA	Prep	3510C			423508	JT8P	EET CF	06/04/24 13:08
Total/NA	Analysis	8270E		1	423965	L0FS	EET CF	06/07/24 18:01
Total/NA	Analysis	8015C		1	423520	V7YZ	EET CF	06/05/24 15:23
Total/NA	Prep	3510C			423348	JT8P	EET CF	06/03/24 09:59
Total/NA	Analysis	8081B		1	424040	BW2O	EET CF	06/10/24 21:40
Total/NA	Prep	3510C			423348	JT8P	EET CF	06/03/24 09:59
Total/NA	Analysis	8082A		1	424041	BW2O	EET CF	06/10/24 21:40
Total/NA	Prep	8151A			514063	QJZ6	ELLE	06/05/24 15:12
Total/NA	Analysis	8151A		1	514234	UAMZ	ELLE	06/06/24 09:45
Total/NA	Prep	3005A			423406	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		4	424666	NFT2	EET CF	06/14/24 16:09
Total/NA	Prep	3005A			423406	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424025	DHM5	EET CF	06/07/24 15:23
Total/NA	Prep	3005A			423406	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424663	NFT2	EET CF	06/14/24 15:07
Total/NA	Prep	7470A			423471	A6US	EET CF	06/04/24 10:22
Total/NA	Analysis	7470A		1	423808	A6US	EET CF	06/06/24 11:58
Total/NA	Prep	9012B			423646	WZC8	EET CF	06/05/24 12:26
Total/NA	Analysis	9012B		1	423860	ZJX4	EET CF	06/06/24 17:15
Total/NA	Prep	9030B			770982	CLB	EET CHI	06/04/24 18:19 - 06/04/24 18:21 [1]
Total/NA	Analysis	9034		1	770983	CLB	EET CHI	06/04/24 22:29 - 06/04/24 22:34 [1]
Total/NA	Analysis	I-3765-85		1	423431	DGU1	EET CF	06/04/24 07:45

Client Sample ID: MW-13R
Lab Sample ID: 310-282518-6
Date Collected: 05/30/24 08:40
Matrix: Groundwater
Date Received: 05/31/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	423352	WSE8	EET CF	06/04/24 03:28
Total/NA	Prep	3510C			423508	JT8P	EET CF	06/04/24 13:08
Total/NA	Analysis	8270E		1	423965	L0FS	EET CF	06/07/24 18:26
Total/NA	Analysis	8015C		1	423520	V7YZ	EET CF	06/05/24 15:41
Total/NA	Prep	3510C			423348	JT8P	EET CF	06/03/24 09:59
Total/NA	Analysis	8081B		1	424040	BW2O	EET CF	06/10/24 22:00
Total/NA	Prep	3510C			423348	JT8P	EET CF	06/03/24 09:59
Total/NA	Analysis	8082A		1	424041	BW2O	EET CF	06/10/24 22:00
Total/NA	Prep	8151A			514063	QJZ6	ELLE	06/05/24 15:12
Total/NA	Analysis	8151A		1	514234	UAMZ	ELLE	06/06/24 11:10
Total/NA	Prep	3005A			423406	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424666	NFT2	EET CF	06/14/24 16:13
Total/NA	Prep	3005A			423406	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424025	DHM5	EET CF	06/07/24 15:25

Lab Chronicle

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Client Sample ID: MW-13R
Lab Sample ID: 310-282518-6
Date Collected: 05/30/24 08:40
Matrix: Groundwater
Date Received: 05/31/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			423406	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424663	NFT2	EET CF	06/14/24 15:09
Total/NA	Prep	7470A			423471	A6US	EET CF	06/04/24 10:22
Total/NA	Analysis	7470A		1	423808	A6US	EET CF	06/06/24 11:47
Total/NA	Prep	9012B			423646	WZC8	EET CF	06/05/24 12:26
Total/NA	Analysis	9012B		1	423860	ZJX4	EET CF	06/06/24 17:17
Total/NA	Prep	9030B			770982	CLB	EET CHI	06/04/24 18:21 - 06/04/24 18:23 [1]
Total/NA	Analysis	9034		1	770983	CLB	EET CHI	06/04/24 22:34 - 06/04/24 22:40 [1]
Total/NA	Analysis	I-3765-85		1	423431	DGU1	EET CF	06/04/24 07:45

Client Sample ID: MW-14R
Lab Sample ID: 310-282518-7
Date Collected: 05/29/24 15:27
Matrix: Groundwater
Date Received: 05/31/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	423352	WSE8	EET CF	06/04/24 03:50
Total/NA	Prep	3005A			423406	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424666	NFT2	EET CF	06/14/24 16:31
Total/NA	Prep	3005A			423406	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424025	DHM5	EET CF	06/07/24 15:27
Total/NA	Prep	3005A			423406	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424663	NFT2	EET CF	06/14/24 15:11
Total/NA	Analysis	I-3765-85		1	423431	DGU1	EET CF	06/04/24 07:45

Client Sample ID: MW-15R
Lab Sample ID: 310-282518-8
Date Collected: 05/29/24 09:06
Matrix: Groundwater
Date Received: 05/31/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	423352	WSE8	EET CF	06/04/24 04:12
Total/NA	Prep	3005A			423406	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424666	NFT2	EET CF	06/14/24 16:35
Total/NA	Prep	3005A			423406	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424025	DHM5	EET CF	06/07/24 15:29
Total/NA	Prep	3005A			423406	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424663	NFT2	EET CF	06/14/24 15:13
Total/NA	Analysis	I-3765-85		1	423431	DGU1	EET CF	06/04/24 07:45

Client Sample ID: MW-39
Lab Sample ID: 310-282518-9
Date Collected: 05/29/24 19:08
Matrix: Groundwater
Date Received: 05/31/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	423352	WSE8	EET CF	06/04/24 04:34

Lab Chronicle

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Client Sample ID: MW-39
Lab Sample ID: 310-282518-9
Date Collected: 05/29/24 19:08
Matrix: Groundwater
Date Received: 05/31/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			423406	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		4	424666	NFT2	EET CF	06/14/24 16:38
Total/NA	Prep	3005A			423406	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424025	DHM5	EET CF	06/07/24 15:32
Total/NA	Prep	3005A			423406	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424663	NFT2	EET CF	06/14/24 15:15
Total/NA	Analysis	I-3765-85		1	423431	DGU1	EET CF	06/04/24 07:45

Client Sample ID: MW-15C
Lab Sample ID: 310-282518-10
Date Collected: 05/29/24 09:58
Matrix: Groundwater
Date Received: 05/31/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	423352	WSE8	EET CF	06/04/24 04:55
Total/NA	Prep	3005A			423406	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424666	NFT2	EET CF	06/14/24 16:42
Total/NA	Prep	3005A			423406	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424025	DHM5	EET CF	06/07/24 15:34
Total/NA	Prep	3005A			423406	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424663	NFT2	EET CF	06/14/24 15:17
Total/NA	Analysis	I-3765-85		1	423431	DGU1	EET CF	06/04/24 07:45

Client Sample ID: MW-44
Lab Sample ID: 310-282518-11
Date Collected: 05/29/24 16:13
Matrix: Groundwater
Date Received: 05/31/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	423352	WSE8	EET CF	06/04/24 05:17
Total/NA	Prep	3005A			423406	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424666	NFT2	EET CF	06/14/24 16:49
Total/NA	Prep	3005A			423406	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424025	DHM5	EET CF	06/07/24 15:38
Total/NA	Prep	3005A			423406	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424663	NFT2	EET CF	06/14/24 15:30
Total/NA	Analysis	I-3765-85		1	423431	DGU1	EET CF	06/04/24 07:45

Client Sample ID: MW-DC
Lab Sample ID: 310-282518-12
Date Collected: 05/30/24 08:40
Matrix: Groundwater
Date Received: 05/31/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	423352	WSE8	EET CF	06/04/24 05:39
Total/NA	Prep	3005A			423406	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424666	NFT2	EET CF	06/14/24 16:53

Lab Chronicle

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Client Sample ID: MW-DC
Lab Sample ID: 310-282518-12
Date Collected: 05/30/24 08:40
Matrix: Groundwater
Date Received: 05/31/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			423406	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424025	DHM5	EET CF	06/07/24 15:49
Total/NA	Prep	3005A			423406	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424663	NFT2	EET CF	06/14/24 15:33
Total/NA	Analysis	I-3765-85		1	423431	DGU1	EET CF	06/04/24 07:45

Client Sample ID: Trip Blank
Lab Sample ID: 310-282518-13
Date Collected: 05/30/24 00:00
Matrix: Groundwater
Date Received: 05/31/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	423352	WSE8	EET CF	06/04/24 02:01

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

Laboratory References:

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

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Laboratory: Eurofins Cedar Falls

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

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

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

Analysis Method	Prep Method	Matrix	Analyte
8260D		Groundwater	1,2,4-Trichlorobenzene
8260D		Groundwater	Allyl chloride
8260D		Groundwater	Ethyl methacrylate

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Iowa	State	082	05-01-26

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
Iowa	State	361	03-01-24 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: SCS Engineers
Job ID: 310-282518-1
Project/Site: Cherokee Landfill Closed 1st 2024 HMSP

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CF
8015C	Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)	SW846	EET CF
8081B	Organochlorine Pesticides (GC)	SW846	EET CF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CF
8151A	Herbicides (GC)	SW846	ELLE
6020B	Metals (ICP/MS)	SW846	EET CF
7470A	Mercury (CVAA)	SW846	EET CF
9012B	Cyanide, Total andor Amenable	SW846	EET CF
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	EET CHI
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CF
5030B	Purge and Trap	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CF
8151A	Extraction (Herbicides)	SW846	ELLE
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	EET CF
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

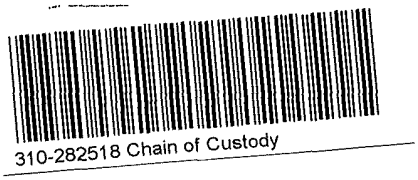
Laboratory References:

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

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

eurofins | Environment Testing America



Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS Engineers

City/State: CITY | STATE | Project:

Receipt Information

Date/Time Received: DATE 5/31/24 | TIME 1600 | Received By: SS

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☑ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☑ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☑ Yes ☐ No *If yes:* Cooler # 1 of 2

Cooler Custody Seals Present? ☐ Yes ☑ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☑ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☑ No *If yes:* Which VOA samples are in cooler? ↓

MW-11, MW-12, MW-13R, MW-9R

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: X | Correction Factor (°C): 0

Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 2.6 | Corrected Temp (°C): 2.6

Sample Container Temperature

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: PES Engineers

City/State: CITY | STATE | Project:

Receipt Information

Date/Time Received: DATE 5/31/24 | TIME 1600 | Received By: SB

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☑ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:

Condition of Cooler/Containers

Sample(s) received in Cooler? ☑ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☑ Yes ☐ No *If yes:* Cooler # 2 of 2

Cooler Custody Seals Present? ☐ Yes ☑ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☑ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☐ No *If yes:* Which VOA samples are in cooler? ↓

MW-15C, MW-7, MW-10R, MW-39, MW-44, MW-DC, MW-15R, MW-14R, Trip Blank

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: ☐ NONE

Thermometer ID: X | Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria; proceed to Sample Container Temperature

Uncorrected Temp (°C): 0.2 | Corrected Temp (°C): 0.2

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Phone (319) 277-2401 Phone (319) 277-2425

Chain of Custody Record

TestAmerica Des Moines SC
214

eurofins | Environment Testing

Client Information	Sampler: Michael Mo yan	Lab PM: Yang, Mary E	Carrier Tracking No(s):	COC No: 310-93563-25680 1
Client Contact: Nathan Ohrt	Phone: 5 - 6 3772	E-Mail: Mary Yang@ET EurofinsUS.com	State of Origin:	Page: Page 1 of 2
Company: SCS Engineers	PWSID:			Job #:
Address: 1690 All State Court Suite 100	Due Date Requested:			
City: West Des Moines	TAT Requested (days):			
State, Zip: IA, 50265	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 27223105 24			
Email: nohrt@scsengineers.com	WO #:			
Project Name: Cherokee Landfill Closed 1st 2024 HMSP Event Desc: 1st 2024	Project #: 31006308			
Site: Iowa	SSOW#:			

Analysis Requested

Preservation Codes:
D - HNO3
A - HCL
N - None
CB - ZnAcetate/NaOH
B - NaOH
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B - Appendix I	8260D - Volatile Appendix I Sublist	I_3765_85 - Total Suspended Solids	6020B - (MOD) As, Ba, Co, Pb, Ni	9034_Calc - Sulfide*	8260D - Volatile Appendix II Sublist	8081B, 8082A, 8270E	6020B, 7470A - Appendix II Metals	9012B - Cyanide, Total	8016C_DAI - Nonhalogenated Organic Compounds - Direo	8151A - (MOD) 8151A**			Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	A	N	D	CB	A	N	D	B	N	N				
MW-11	5/30 24	9 20	G	Water					X	X	X										*SUB method 9034 Sulfide to Chicago
MW-7	5/ 6 24	7 34	G	Water				X	X	X											**SUB method 8151 to Lancaster
MW-9R	5/30/24	1 46	G	Water					X	X	X										
MW-10R	5 3 24	12 34	G	Water				X	X	X											
MW-12	5 30 24	6 57	G	Water					X		X	X	X	X	X	X	X				
MW-13R	5 30 24	8 40	G	Water					X		X	X	X	X	X	X	X				
MW-14R	5 29 24	15 27	G	Water			X	X	X												
MW-15R	5 29 24	06	G	Water			X	X	X												
MW-39	5 29 24	19 08	G	Water			X	X	X												
MW-15C	5/29/24	7 58	G	Water			X	X	X												
MW-44	5/29/24	6 32	G	Water			X	X	X												

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Michael Mo yan	5/30 24 00	SCS	MC	5 31 24 1100	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Phone (319) 277-2401 Phone (319) 277-2425

Chain of Custody Record

TestAmerica Des Moines SC
214

eurofins | Environment Testing

Client Information	Sampler: Manuel Moran	Lab PM: Yang, Mary E	Carrier Tracking No(s):	COC No: 310-93563-25680 2
Client Contact: Nathan Ohrt	Phone: 55 [illegible]	E-Mail: Mary Yang@ET EurofinsUS com	State of Origin:	Page: Page 2 of 2
Company: SCS Engineers	PWSID:			Job #:
Address: 1690 All State Court Suite 100	Due Date Requested:			Preservation Codes: D - HNO3, A - HCL, N - None, CB - ZnAcetate/NaOH, B - NaOH
City: West Des Moines	TAT Requested (days):			
State, Zip: IA, 50265	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 27223105 24			
Email: nohrt@scsengineers.com	WO #:			
Project Name: Cherokee Landfill Closed 1st 2024 HMSP Event Desc: 1st 2024 I	Project #: 31006308			Other:
Site: Iowa	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B - Appendix I	8260D - Volatile Appendix I Sublist	I_3765_85 - Total Suspended Solids	6020B - (MOD) As, Ba, Co, Pb, Ni	9034_Calc - Sulfide*	8260D - Volatile Appendix II Sublist	8081B, 8082A, 8270E	6020B, 7470A - Appendix II Metals	9012B - Cyanide, Total	8015C_DAI - Nonhalogenated Organic Compounds - Direc	8151A - (MOD) 8151A**			Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	D	A	N	D	CB	A	N	D	B	N	N			X	
MW-DC	5/3_/24	8:40	—	Water			X	X	X												
Trip Blank			G	Water				X													

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ______ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Manuel Moran [signature]	_/_/24 [illegible]	SCS	ML	5-31-24 1600	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks:

Ver 01/16/2019

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Phone: 319-277-2401 Fax: 319-277-2425

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Yang, Mary E	Carrier Tracking No(s):	COC No: 310-73041.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Mary.Yang@ET.EurofinsUS.com	State of Origin: Iowa	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Iowa; State Program - Iowa		Job #: 310-282518-1
Address: 2425 New Holland Pike,	Due Date Requested: 6/13/2024			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: Cherokee Landfill Closed 1st 2024 HMSP	Project #: 31006308			
Site: 310-SCS Cherokee County Landfill	SSOW#:			

Analysis Requested

Preservation Codes:
-

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8151A/8151A_AP (MOD) 8151A APIX	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-12 (310-282518-5)	5/30/24	10:57 Central		Water			X	2	
MW-13R (310-282518-6)	5/30/24	08:40 Central		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	6/7/24 1550				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 6/14/24 1155	Company: EUET

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.9/1.5

Ver: 04/02/2024

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-282518-1

Login Number: 282518

List Source: Eurofins Cedar Falls

List Number: 1

Creator: Costello, Mackenzie K

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-282518-1

Login Number: 282518
List Number: 3
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago
List Creation: 06/04/24 06:32 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-282518-1

Login Number: 282518
List Number: 2
Creator: McCaskey, Jonathan

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 06/04/24 01:51 PM

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/17/2024 8:54:13 AM

JOB DESCRIPTION

Cherokee Landfill-Open 1st 2024 HMSP

JOB NUMBER

310-282522-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

Job Notes

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

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

Authorization

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Authorized for release by
Mary Yang, Project Management Assistant I
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(319)277-2401

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Job ID: 310-282522-1 Eurofins Cedar Falls

Job Narrative
310-282522-1

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 5/31/2024 4:00 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 -0.1°C.

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

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

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

Sample Summary

Client: SCS Engineers
Job ID: 310-282522-1
Project/Site: Cherokee Landfill-Open 1st 2024 HMSP

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-282522-1	MW-16	Water	05/29/24 11:52	05/31/24 16:00
310-282522-2	MW-27	Water	05/29/24 13:24	05/31/24 16:00
310-282522-3	MW-35	Water	05/29/24 18:23	05/31/24 16:00
310-282522-4	MW-42R	Water	05/29/24 17:13	05/31/24 16:00
310-282522-5	GWD-2	Water	05/29/24 12:23	05/31/24 16:00
310-282522-6	MW-DO	Water	05/29/24 13:24	05/31/24 16:00
310-282522-7	Trip Blank	Water	05/29/24 00:00	05/31/24 16:00

Detection Summary

Client: SCS Engineers
Job ID: 310-282522-1
Project/Site: Cherokee Landfill-Open 1st 2024 HMSP

Client Sample ID: MW-16 — Lab Sample ID: 310-282522-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.221		0.00200	0.000660	mg/L	1		6020B	Total/NA
Nickel	0.00716		0.00500	0.00210	mg/L	1		6020B	Total/NA

Client Sample ID: MW-27 — Lab Sample ID: 310-282522-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0323		0.00200	0.000660	mg/L	1		6020B	Total/NA

Client Sample ID: MW-35 — Lab Sample ID: 310-282522-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0170		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00329		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0243		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	5.63		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-42R — Lab Sample ID: 310-282522-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0158		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00365		0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00222	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Nickel	0.0100		0.00500	0.00210	mg/L	1		6020B	Total/NA

Client Sample ID: GWD-2 — Lab Sample ID: 310-282522-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00698		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.336		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00636		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0216		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	11.0		5.00	3.70	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-DO — Lab Sample ID: 310-282522-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0315		0.00200	0.000660	mg/L	1		6020B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 310-282522-7

No Detections.

This Detection Summary does not include radiochemical test results.

Client: SCS Engineers
Job ID: 310-282522-1
Project/Site: Cherokee Landfill-Open 1st 2024 HMSP

Client Sample ID: MW-16
Lab Sample ID: 310-282522-1
Date Collected: 05/29/24 11:52
Matrix: Water
Date Received: 05/31/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			06/04/24 06:01	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/04/24 06:01	1
Benzene	<0.500		0.500	0.220	ug/L			06/04/24 06:01	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/04/24 06:01	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/04/24 06:01	1
Bromoform	<5.00		5.00	0.780	ug/L			06/04/24 06:01	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/04/24 06:01	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/04/24 06:01	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/04/24 06:01	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/04/24 06:01	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/04/24 06:01	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/04/24 06:01	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/04/24 06:01	1
Chloroform	<3.00		3.00	1.30	ug/L			06/04/24 06:01	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/04/24 06:01	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/04/24 06:01	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/04/24 06:01	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/04/24 06:01	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/04/24 06:01	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/04/24 06:01	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/04/24 06:01	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/04/24 06:01	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/04/24 06:01	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/04/24 06:01	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/04/24 06:01	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/04/24 06:01	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/04/24 06:01	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/04/24 06:01	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/04/24 06:01	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/04/24 06:01	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/04/24 06:01	1
Styrene	<1.00		1.00	0.370	ug/L			06/04/24 06:01	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			06/04/24 06:01	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/04/24 06:01	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/04/24 06:01	1
Toluene	<1.00		1.00	0.430	ug/L			06/04/24 06:01	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/04/24 06:01	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/04/24 06:01	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/04/24 06:01	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/04/24 06:01	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/04/24 06:01	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/04/24 06:01	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/04/24 06:01	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/04/24 06:01	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/04/24 06:01	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/04/24 06:01	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/04/24 06:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*06/04/24 06:01*	*1*

Client: SCS Engineers
Job ID: 310-282522-1
Project/Site: Cherokee Landfill-Open 1st 2024 HMSP

Client Sample ID: MW-16
Lab Sample ID: 310-282522-1
Date Collected: 05/29/24 11:52
Matrix: Water
Date Received: 05/31/24 16:00

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*73 - 130*		*06/04/24 06:01*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*06/04/24 06:01*	*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		06/04/24 09:15	06/14/24 14:50	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		06/04/24 09:15	06/06/24 17:37	1
Barium	**0.221**		0.00200	0.000660	mg/L		06/04/24 09:15	06/06/24 17:37	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/04/24 09:15	06/06/24 17:37	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		06/04/24 09:15	06/06/24 17:37	1
Chromium	<0.00500		0.00500	0.00120	mg/L		06/04/24 09:15	06/06/24 17:37	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		06/04/24 09:15	06/13/24 16:05	1
Copper	<0.00500		0.00500	0.00180	mg/L		06/04/24 09:15	06/06/24 17:37	1
Lead	<0.000500		0.000500	0.000260	mg/L		06/04/24 09:15	06/13/24 16:05	1
Nickel	**0.00716**		0.00500	0.00210	mg/L		06/04/24 09:15	06/06/24 17:37	1
Selenium	<0.00500		0.00500	0.00140	mg/L		06/04/24 09:15	06/06/24 17:37	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/04/24 09:15	06/14/24 14:38	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/04/24 09:15	06/06/24 17:37	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		06/04/24 09:15	06/13/24 16:05	1
Zinc	<0.0200		0.0200	0.00970	mg/L		06/04/24 09:15	06/06/24 17:37	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			06/04/24 06:59	1

Client: SCS Engineers
Job ID: 310-282522-1
Project/Site: Cherokee Landfill-Open 1st 2024 HMSP

Client Sample ID: MW-27
Lab Sample ID: 310-282522-2
Date Collected: 05/29/24 13:24
Matrix: Water
Date Received: 05/31/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			06/04/24 06:23	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/04/24 06:23	1
Benzene	<0.500		0.500	0.220	ug/L			06/04/24 06:23	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/04/24 06:23	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/04/24 06:23	1
Bromoform	<5.00		5.00	0.780	ug/L			06/04/24 06:23	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/04/24 06:23	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/04/24 06:23	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/04/24 06:23	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/04/24 06:23	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/04/24 06:23	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/04/24 06:23	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/04/24 06:23	1
Chloroform	<3.00		3.00	1.30	ug/L			06/04/24 06:23	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/04/24 06:23	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/04/24 06:23	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/04/24 06:23	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/04/24 06:23	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/04/24 06:23	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/04/24 06:23	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/04/24 06:23	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/04/24 06:23	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/04/24 06:23	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/04/24 06:23	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/04/24 06:23	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/04/24 06:23	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/04/24 06:23	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/04/24 06:23	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/04/24 06:23	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/04/24 06:23	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/04/24 06:23	1
Styrene	<1.00		1.00	0.370	ug/L			06/04/24 06:23	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			06/04/24 06:23	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/04/24 06:23	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/04/24 06:23	1
Toluene	<1.00		1.00	0.430	ug/L			06/04/24 06:23	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/04/24 06:23	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/04/24 06:23	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/04/24 06:23	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/04/24 06:23	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/04/24 06:23	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/04/24 06:23	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/04/24 06:23	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/04/24 06:23	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/04/24 06:23	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/04/24 06:23	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/04/24 06:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*06/04/24 06:23*	*1*

Client: SCS Engineers
Job ID: 310-282522-1
Project/Site: Cherokee Landfill-Open 1st 2024 HMSP

Client Sample ID: MW-27
Lab Sample ID: 310-282522-2
Date Collected: 05/29/24 13:24
Matrix: Water
Date Received: 05/31/24 16:00

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*73 - 130*		*06/04/24 06:23*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/04/24 06:23*	*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		06/04/24 09:15	06/14/24 14:53	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		06/04/24 09:15	06/06/24 17:39	1
Barium	**0.0323**		0.00200	0.000660	mg/L		06/04/24 09:15	06/06/24 17:39	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/04/24 09:15	06/06/24 17:39	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		06/04/24 09:15	06/06/24 17:39	1
Chromium	<0.00500		0.00500	0.00120	mg/L		06/04/24 09:15	06/06/24 17:39	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		06/04/24 09:15	06/13/24 16:09	1
Copper	<0.00500		0.00500	0.00180	mg/L		06/04/24 09:15	06/06/24 17:39	1
Lead	<0.000500		0.000500	0.000260	mg/L		06/04/24 09:15	06/13/24 16:09	1
Nickel	<0.00500		0.00500	0.00210	mg/L		06/04/24 09:15	06/06/24 17:39	1
Selenium	<0.00500		0.00500	0.00140	mg/L		06/04/24 09:15	06/06/24 17:39	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/04/24 09:15	06/14/24 14:41	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/04/24 09:15	06/06/24 17:39	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		06/04/24 09:15	06/13/24 16:09	1
Zinc	<0.0200		0.0200	0.00970	mg/L		06/04/24 09:15	06/06/24 17:39	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			06/04/24 06:59	1

Client: SCS Engineers
Job ID: 310-282522-1
Project/Site: Cherokee Landfill-Open 1st 2024 HMSP

Client Sample ID: MW-35
Lab Sample ID: 310-282522-3
Date Collected: 05/29/24 18:23
Matrix: Water
Date Received: 05/31/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			06/04/24 06:44	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/04/24 06:44	1
Benzene	<0.500		0.500	0.220	ug/L			06/04/24 06:44	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/04/24 06:44	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/04/24 06:44	1
Bromoform	<5.00		5.00	0.780	ug/L			06/04/24 06:44	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/04/24 06:44	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/04/24 06:44	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/04/24 06:44	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/04/24 06:44	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/04/24 06:44	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/04/24 06:44	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/04/24 06:44	1
Chloroform	<3.00		3.00	1.30	ug/L			06/04/24 06:44	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/04/24 06:44	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/04/24 06:44	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/04/24 06:44	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/04/24 06:44	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/04/24 06:44	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/04/24 06:44	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/04/24 06:44	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/04/24 06:44	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/04/24 06:44	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/04/24 06:44	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/04/24 06:44	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/04/24 06:44	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/04/24 06:44	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/04/24 06:44	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/04/24 06:44	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/04/24 06:44	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/04/24 06:44	1
Styrene	<1.00		1.00	0.370	ug/L			06/04/24 06:44	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			06/04/24 06:44	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/04/24 06:44	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/04/24 06:44	1
Toluene	<1.00		1.00	0.430	ug/L			06/04/24 06:44	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/04/24 06:44	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/04/24 06:44	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/04/24 06:44	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/04/24 06:44	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/04/24 06:44	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/04/24 06:44	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/04/24 06:44	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/04/24 06:44	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/04/24 06:44	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/04/24 06:44	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/04/24 06:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*06/04/24 06:44*	*1*

Client: SCS Engineers
Job ID: 310-282522-1
Project/Site: Cherokee Landfill-Open 1st 2024 HMSP

Client Sample ID: MW-35
Lab Sample ID: 310-282522-3
Date Collected: 05/29/24 18:23
Matrix: Water
Date Received: 05/31/24 16:00

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*73 - 130*		*06/04/24 06:44*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*06/04/24 06:44*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		06/04/24 09:15	06/14/24 14:57	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		06/04/24 09:15	06/06/24 17:41	1
Barium	**0.0170**		0.00200	0.000660	mg/L		06/04/24 09:15	06/06/24 17:41	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/04/24 09:15	06/06/24 17:41	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		06/04/24 09:15	06/06/24 17:41	1
Chromium	<0.00500		0.00500	0.00120	mg/L		06/04/24 09:15	06/06/24 17:41	1
Cobalt	**0.00329**		0.000500	0.000170	mg/L		06/04/24 09:15	06/13/24 16:12	1
Copper	<0.00500		0.00500	0.00180	mg/L		06/04/24 09:15	06/06/24 17:41	1
Lead	<0.000500		0.000500	0.000260	mg/L		06/04/24 09:15	06/13/24 16:12	1
Nickel	**0.0243**		0.00500	0.00210	mg/L		06/04/24 09:15	06/06/24 17:41	1
Selenium	<0.00500		0.00500	0.00140	mg/L		06/04/24 09:15	06/06/24 17:41	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/04/24 09:15	06/14/24 14:43	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/04/24 09:15	06/06/24 17:41	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		06/04/24 09:15	06/13/24 16:12	1
Zinc	<0.0200		0.0200	0.00970	mg/L		06/04/24 09:15	06/06/24 17:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**5.63**		1.88	1.39	mg/L			06/04/24 06:59	1

Client: SCS Engineers
Job ID: 310-282522-1
Project/Site: Cherokee Landfill-Open 1st 2024 HMSP

Client Sample ID: MW-42R
Lab Sample ID: 310-282522-4
Date Collected: 05/29/24 17:13
Matrix: Water
Date Received: 05/31/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			06/04/24 07:06	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/04/24 07:06	1
Benzene	<0.500		0.500	0.220	ug/L			06/04/24 07:06	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/04/24 07:06	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/04/24 07:06	1
Bromoform	<5.00		5.00	0.780	ug/L			06/04/24 07:06	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/04/24 07:06	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/04/24 07:06	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/04/24 07:06	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/04/24 07:06	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/04/24 07:06	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/04/24 07:06	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/04/24 07:06	1
Chloroform	<3.00		3.00	1.30	ug/L			06/04/24 07:06	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/04/24 07:06	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/04/24 07:06	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/04/24 07:06	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/04/24 07:06	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/04/24 07:06	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/04/24 07:06	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/04/24 07:06	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/04/24 07:06	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/04/24 07:06	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/04/24 07:06	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/04/24 07:06	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/04/24 07:06	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/04/24 07:06	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/04/24 07:06	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/04/24 07:06	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/04/24 07:06	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/04/24 07:06	1
Styrene	<1.00		1.00	0.370	ug/L			06/04/24 07:06	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			06/04/24 07:06	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/04/24 07:06	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/04/24 07:06	1
Toluene	<1.00		1.00	0.430	ug/L			06/04/24 07:06	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/04/24 07:06	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/04/24 07:06	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/04/24 07:06	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/04/24 07:06	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/04/24 07:06	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/04/24 07:06	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/04/24 07:06	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/04/24 07:06	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/04/24 07:06	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/04/24 07:06	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/04/24 07:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*06/04/24 07:06*	*1*

Client: SCS Engineers
Job ID: 310-282522-1
Project/Site: Cherokee Landfill-Open 1st 2024 HMSP

Client Sample ID: MW-42R
Lab Sample ID: 310-282522-4
Date Collected: 05/29/24 17:13
Matrix: Water
Date Received: 05/31/24 16:00

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*73 - 130*		*06/04/24 07:06*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*06/04/24 07:06*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		06/04/24 09:15	06/14/24 15:01	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		06/04/24 09:15	06/06/24 17:43	1
Barium	**0.0158**		0.00200	0.000660	mg/L		06/04/24 09:15	06/06/24 17:43	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/04/24 09:15	06/06/24 17:43	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		06/04/24 09:15	06/06/24 17:43	1
Chromium	<0.00500		0.00500	0.00120	mg/L		06/04/24 09:15	06/06/24 17:43	1
Cobalt	**0.00365**		0.000500	0.000170	mg/L		06/04/24 09:15	06/13/24 16:16	1
Copper	**0.00222**	**J**	0.00500	0.00180	mg/L		06/04/24 09:15	06/06/24 17:43	1
Lead	<0.000500		0.000500	0.000260	mg/L		06/04/24 09:15	06/13/24 16:16	1
Nickel	**0.0100**		0.00500	0.00210	mg/L		06/04/24 09:15	06/06/24 17:43	1
Selenium	<0.00500		0.00500	0.00140	mg/L		06/04/24 09:15	06/06/24 17:43	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/04/24 09:15	06/14/24 14:45	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/04/24 09:15	06/06/24 17:43	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		06/04/24 09:15	06/13/24 16:16	1
Zinc	<0.0200		0.0200	0.00970	mg/L		06/04/24 09:15	06/06/24 17:43	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			06/04/24 06:59	1

Client: SCS Engineers
Job ID: 310-282522-1
Project/Site: Cherokee Landfill-Open 1st 2024 HMSP

Client Sample ID: GWD-2
Lab Sample ID: 310-282522-5
Date Collected: 05/29/24 12:23
Matrix: Water
Date Received: 05/31/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			06/04/24 07:28	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/04/24 07:28	1
Benzene	<0.500		0.500	0.220	ug/L			06/04/24 07:28	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/04/24 07:28	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/04/24 07:28	1
Bromoform	<5.00		5.00	0.780	ug/L			06/04/24 07:28	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/04/24 07:28	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/04/24 07:28	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/04/24 07:28	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/04/24 07:28	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/04/24 07:28	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/04/24 07:28	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/04/24 07:28	1
Chloroform	<3.00		3.00	1.30	ug/L			06/04/24 07:28	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/04/24 07:28	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/04/24 07:28	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/04/24 07:28	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/04/24 07:28	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/04/24 07:28	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/04/24 07:28	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/04/24 07:28	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/04/24 07:28	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/04/24 07:28	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/04/24 07:28	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/04/24 07:28	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/04/24 07:28	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/04/24 07:28	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/04/24 07:28	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/04/24 07:28	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/04/24 07:28	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/04/24 07:28	1
Styrene	<1.00		1.00	0.370	ug/L			06/04/24 07:28	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			06/04/24 07:28	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/04/24 07:28	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/04/24 07:28	1
Toluene	<1.00		1.00	0.430	ug/L			06/04/24 07:28	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/04/24 07:28	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/04/24 07:28	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/04/24 07:28	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/04/24 07:28	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/04/24 07:28	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/04/24 07:28	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/04/24 07:28	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/04/24 07:28	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/04/24 07:28	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/04/24 07:28	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/04/24 07:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*06/04/24 07:28*	*1*

Client: SCS Engineers
Job ID: 310-282522-1
Project/Site: Cherokee Landfill-Open 1st 2024 HMSP

Client Sample ID: GWD-2
Lab Sample ID: 310-282522-5
Date Collected: 05/29/24 12:23
Matrix: Water
Date Received: 05/31/24 16:00

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*73 - 130*		*06/04/24 07:28*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*06/04/24 07:28*	*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		06/04/24 09:15	06/14/24 15:04	1
Arsenic	**0.00698**		0.00200	0.000530	mg/L		06/04/24 09:15	06/06/24 17:46	1
Barium	**0.336**		0.00200	0.000660	mg/L		06/04/24 09:15	06/06/24 17:46	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/04/24 09:15	06/06/24 17:46	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		06/04/24 09:15	06/06/24 17:46	1
Chromium	<0.00500		0.00500	0.00120	mg/L		06/04/24 09:15	06/06/24 17:46	1
Cobalt	**0.00636**		0.000500	0.000170	mg/L		06/04/24 09:15	06/13/24 16:19	1
Copper	<0.00500		0.00500	0.00180	mg/L		06/04/24 09:15	06/06/24 17:46	1
Lead	<0.000500		0.000500	0.000260	mg/L		06/04/24 09:15	06/13/24 16:19	1
Nickel	**0.0216**		0.00500	0.00210	mg/L		06/04/24 09:15	06/06/24 17:46	1
Selenium	<0.00500		0.00500	0.00140	mg/L		06/04/24 09:15	06/06/24 17:46	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/04/24 09:15	06/14/24 14:47	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/04/24 09:15	06/06/24 17:46	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		06/04/24 09:15	06/13/24 16:19	1
Zinc	<0.0200		0.0200	0.00970	mg/L		06/04/24 09:15	06/06/24 17:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**11.0**		5.00	3.70	mg/L			06/04/24 06:59	1

Client: SCS Engineers
Job ID: 310-282522-1
Project/Site: Cherokee Landfill-Open 1st 2024 HMSP

Client Sample ID: MW-DO
Lab Sample ID: 310-282522-6
Date Collected: 05/29/24 13:24
Matrix: Water
Date Received: 05/31/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			06/04/24 07:50	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/04/24 07:50	1
Benzene	<0.500		0.500	0.220	ug/L			06/04/24 07:50	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/04/24 07:50	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/04/24 07:50	1
Bromoform	<5.00		5.00	0.780	ug/L			06/04/24 07:50	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/04/24 07:50	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/04/24 07:50	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/04/24 07:50	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/04/24 07:50	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/04/24 07:50	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/04/24 07:50	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/04/24 07:50	1
Chloroform	<3.00		3.00	1.30	ug/L			06/04/24 07:50	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/04/24 07:50	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/04/24 07:50	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/04/24 07:50	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/04/24 07:50	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/04/24 07:50	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/04/24 07:50	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/04/24 07:50	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/04/24 07:50	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/04/24 07:50	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/04/24 07:50	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/04/24 07:50	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/04/24 07:50	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/04/24 07:50	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/04/24 07:50	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/04/24 07:50	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/04/24 07:50	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/04/24 07:50	1
Styrene	<1.00		1.00	0.370	ug/L			06/04/24 07:50	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			06/04/24 07:50	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/04/24 07:50	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/04/24 07:50	1
Toluene	<1.00		1.00	0.430	ug/L			06/04/24 07:50	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/04/24 07:50	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/04/24 07:50	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/04/24 07:50	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/04/24 07:50	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/04/24 07:50	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/04/24 07:50	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/04/24 07:50	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/04/24 07:50	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/04/24 07:50	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/04/24 07:50	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/04/24 07:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*06/04/24 07:50*	*1*

Client: SCS Engineers
Job ID: 310-282522-1
Project/Site: Cherokee Landfill-Open 1st 2024 HMSP

Client Sample ID: MW-DO
Lab Sample ID: 310-282522-6
Date Collected: 05/29/24 13:24
Matrix: Water
Date Received: 05/31/24 16:00

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*73 - 130*		*06/04/24 07:50*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/04/24 07:50*	*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		06/04/24 09:15	06/14/24 15:08	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		06/04/24 09:15	06/06/24 17:48	1
Barium	**0.0315**		0.00200	0.000660	mg/L		06/04/24 09:15	06/06/24 17:48	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/04/24 09:15	06/06/24 17:48	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		06/04/24 09:15	06/06/24 17:48	1
Chromium	<0.00500		0.00500	0.00120	mg/L		06/04/24 09:15	06/06/24 17:48	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		06/04/24 09:15	06/13/24 16:37	1
Copper	<0.00500		0.00500	0.00180	mg/L		06/04/24 09:15	06/06/24 17:48	1
Lead	<0.000500		0.000500	0.000260	mg/L		06/04/24 09:15	06/13/24 16:37	1
Nickel	<0.00500		0.00500	0.00210	mg/L		06/04/24 09:15	06/06/24 17:48	1
Selenium	<0.00500		0.00500	0.00140	mg/L		06/04/24 09:15	06/06/24 17:48	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/04/24 09:15	06/14/24 14:58	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/04/24 09:15	06/06/24 17:48	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		06/04/24 09:15	06/13/24 16:37	1
Zinc	<0.0200		0.0200	0.00970	mg/L		06/04/24 09:15	06/06/24 17:48	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			06/04/24 06:59	1

Client Sample ID: Trip Blank
Lab Sample ID: 310-282522-7
Date Collected: 05/29/24 00:00
Matrix: Water
Date Received: 05/31/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			06/04/24 02:23	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/04/24 02:23	1
Benzene	<0.500		0.500	0.220	ug/L			06/04/24 02:23	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/04/24 02:23	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/04/24 02:23	1
Bromoform	<5.00		5.00	0.780	ug/L			06/04/24 02:23	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/04/24 02:23	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/04/24 02:23	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/04/24 02:23	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/04/24 02:23	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/04/24 02:23	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/04/24 02:23	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/04/24 02:23	1
Chloroform	<3.00		3.00	1.30	ug/L			06/04/24 02:23	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/04/24 02:23	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/04/24 02:23	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/04/24 02:23	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/04/24 02:23	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/04/24 02:23	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/04/24 02:23	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/04/24 02:23	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/04/24 02:23	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/04/24 02:23	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/04/24 02:23	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/04/24 02:23	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/04/24 02:23	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/04/24 02:23	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/04/24 02:23	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/04/24 02:23	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/04/24 02:23	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/04/24 02:23	1
Styrene	<1.00		1.00	0.370	ug/L			06/04/24 02:23	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			06/04/24 02:23	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/04/24 02:23	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/04/24 02:23	1
Toluene	<1.00		1.00	0.430	ug/L			06/04/24 02:23	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/04/24 02:23	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/04/24 02:23	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/04/24 02:23	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/04/24 02:23	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/04/24 02:23	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/04/24 02:23	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/04/24 02:23	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/04/24 02:23	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/04/24 02:23	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/04/24 02:23	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/04/24 02:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*80 - 120*		*06/04/24 02:23*	*1*

Client Sample ID: Trip Blank
Lab Sample ID: 310-282522-7
Date Collected: 05/29/24 00:00
Matrix: Water
Date Received: 05/31/24 16:00

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		73 - 130		06/04/24 02:23	1
Toluene-d8 (Surr)	98		80 - 120		06/04/24 02:23	1

Definitions/Glossary

Client: SCS Engineers
Job ID: 310-282522-1
Project/Site: Cherokee Landfill-Open 1st 2024 HMSP

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
Job ID: 310-282522-1
Project/Site: Cherokee Landfill-Open 1st 2024 HMSP

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(73-130)	(80-120)
310-282522-1	MW-16	104	101	97
310-282522-2	MW-27	104	101	98
310-282522-3	MW-35	103	102	97
310-282522-4	MW-42R	104	105	96
310-282522-5	GWD-2	107	102	97
310-282522-6	MW-DO	102	102	98
310-282522-7	Trip Blank	119	99	98
LCS 310-423352/6	Lab Control Sample	102	96	105
LCS 310-423352/7	Lab Control Sample	108	100	84
MB 310-423352/5	Method Blank	108	99	112

Surrogate Legend

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

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

Lab Sample ID: MB 310-423352/5
Matrix: Water
Analysis Batch: 423352

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			06/04/24 00:56	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/04/24 00:56	1
Benzene	<0.500		0.500	0.220	ug/L			06/04/24 00:56	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/04/24 00:56	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/04/24 00:56	1
Bromoform	<5.00		5.00	0.780	ug/L			06/04/24 00:56	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/04/24 00:56	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/04/24 00:56	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/04/24 00:56	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/04/24 00:56	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/04/24 00:56	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/04/24 00:56	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/04/24 00:56	1
Chloroform	<3.00		3.00	1.30	ug/L			06/04/24 00:56	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/04/24 00:56	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/04/24 00:56	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/04/24 00:56	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/04/24 00:56	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/04/24 00:56	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/04/24 00:56	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/04/24 00:56	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/04/24 00:56	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/04/24 00:56	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/04/24 00:56	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/04/24 00:56	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/04/24 00:56	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/04/24 00:56	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/04/24 00:56	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/04/24 00:56	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/04/24 00:56	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/04/24 00:56	1
Styrene	<1.00		1.00	0.370	ug/L			06/04/24 00:56	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			06/04/24 00:56	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/04/24 00:56	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/04/24 00:56	1
Toluene	<1.00		1.00	0.430	ug/L			06/04/24 00:56	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/04/24 00:56	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/04/24 00:56	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/04/24 00:56	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/04/24 00:56	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/04/24 00:56	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/04/24 00:56	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/04/24 00:56	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/04/24 00:56	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/04/24 00:56	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/04/24 00:56	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/04/24 00:56	1

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

Lab Sample ID: MB 310-423352/5
Matrix: Water
Analysis Batch: 423352

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*06/04/24 00:56*	*1*
Dibromofluoromethane (Surr)	*99*		*73 - 130*		*06/04/24 00:56*	*1*
Toluene-d8 (Surr)	*112*		*80 - 120*		*06/04/24 00:56*	*1*

Lab Sample ID: LCS 310-423352/6
Matrix: Water
Analysis Batch: 423352

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	40.0	36.63		ug/L		92	50 - 150
Acrylonitrile	200	193.3		ug/L		97	50 - 150
Benzene	20.0	20.30		ug/L		102	72 - 124
Bromochloromethane	20.0	19.65		ug/L		98	73 - 130
Bromodichloromethane	20.0	22.27		ug/L		111	74 - 122
Bromoform	20.0	15.92		ug/L		80	61 - 122
2-Butanone (MEK)	40.0	40.10		ug/L		100	50 - 150
Carbon disulfide	20.0	20.55		ug/L		103	59 - 135
Carbon tetrachloride	20.0	20.07		ug/L		100	67 - 132
Chlorobenzene	20.0	20.10		ug/L		101	76 - 120
Chlorodibromomethane	20.0	21.98		ug/L		110	71 - 121
Chloroform	20.0	19.54		ug/L		98	72 - 125
cis-1,2-Dichloroethene	20.0	19.81		ug/L		99	74 - 123
cis-1,3-Dichloropropene	20.0	23.34		ug/L		117	71 - 125
1,2-Dibromo-3-chloropropane	20.0	18.96		ug/L		95	50 - 150
1,2-Dibromoethane (EDB)	20.0	22.63		ug/L		113	75 - 125
Dibromomethane	20.0	19.49		ug/L		97	74 - 125
1,2-Dichlorobenzene	20.0	20.19		ug/L		101	74 - 120
1,4-Dichlorobenzene	20.0	19.28		ug/L		96	72 - 120
1,1-Dichloroethane	20.0	19.94		ug/L		100	70 - 127
1,2-Dichloroethane	20.0	18.64		ug/L		93	71 - 125
1,1-Dichloroethene	20.0	19.48		ug/L		97	63 - 132
1,2-Dichloropropane	20.0	20.56		ug/L		103	73 - 124
Ethylbenzene	20.0	21.49		ug/L		107	74 - 122
2-Hexanone	40.0	45.51		ug/L		114	60 - 140
Iodomethane	20.0	8.705	J	ug/L		44	10 - 150
Methylene chloride	20.0	21.73		ug/L		109	50 - 150
4-Methyl-2-pentanone (MIBK)	40.0	46.68		ug/L		117	60 - 139
Styrene	20.0	17.78		ug/L		89	74 - 121
1,1,1,2-Tetrachloroethane	20.0	19.68		ug/L		98	71 - 120
1,1,2,2-Tetrachloroethane	20.0	17.10		ug/L		85	68 - 124
Tetrachloroethene	20.0	22.55		ug/L		113	71 - 130
Toluene	20.0	23.34		ug/L		117	74 - 123
trans-1,4-Dichloro-2-butene	20.0	14.07		ug/L		70	50 - 150
trans-1,2-Dichloroethene	20.0	19.76		ug/L		99	70 - 126
trans-1,3-Dichloropropene	20.0	22.31		ug/L		112	69 - 123
1,1,1-Trichloroethane	20.0	19.42		ug/L		97	73 - 129
1,1,2-Trichloroethane	20.0	23.75		ug/L		119	73 - 123
Trichloroethene	20.0	20.51		ug/L		103	72 - 126

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

Lab Sample ID: LCS 310-423352/6
Matrix: Water
Analysis Batch: 423352

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichloropropane	20.0	16.45		ug/L		82	65 - 127
Vinyl acetate	40.0	36.62		ug/L		92	50 - 150
Xylenes, Total	40.0	38.88		ug/L		97	73 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*73 - 130*
Toluene-d8 (Surr)	*105*		*80 - 120*

Lab Sample ID: LCS 310-423352/7
Matrix: Water
Analysis Batch: 423352

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	14.40		ug/L		72	23 - 150
Chloroethane	20.0	21.34		ug/L		107	54 - 136
Chloromethane	20.0	21.88		ug/L		109	38 - 150
Trichlorofluoromethane	20.0	23.12		ug/L		116	54 - 149
Vinyl chloride	20.0	22.69		ug/L		113	56 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*73 - 130*
Toluene-d8 (Surr)	*84*		*80 - 120*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-423407/1-A
Matrix: Water
Analysis Batch: 424663

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 423407

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00100		0.00100	0.000500	mg/L		06/04/24 09:15	06/14/24 14:34	1

Lab Sample ID: MB 310-423407/1-A
Matrix: Water
Analysis Batch: 424666

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 423407

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		06/04/24 09:15	06/14/24 14:43	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		06/04/24 09:15	06/14/24 14:43	1
Barium	<0.00200		0.00200	0.000660	mg/L		06/04/24 09:15	06/14/24 14:43	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/04/24 09:15	06/14/24 14:43	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		06/04/24 09:15	06/14/24 14:43	1
Chromium	<0.00500		0.00500	0.00120	mg/L		06/04/24 09:15	06/14/24 14:43	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		06/04/24 09:15	06/14/24 14:43	1
Copper	<0.00500		0.00500	0.00180	mg/L		06/04/24 09:15	06/14/24 14:43	1
Lead	<0.000500		0.000500	0.000260	mg/L		06/04/24 09:15	06/14/24 14:43	1
Nickel	<0.00500		0.00500	0.00210	mg/L		06/04/24 09:15	06/14/24 14:43	1

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

Lab Sample ID: MB 310-423407/1-A
Matrix: Water
Analysis Batch: 424666

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 423407

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.00500		0.00500	0.00140	mg/L		06/04/24 09:15	06/14/24 14:43	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/04/24 09:15	06/14/24 14:43	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		06/04/24 09:15	06/14/24 14:43	1
Zinc	<0.0200		0.0200	0.00970	mg/L		06/04/24 09:15	06/14/24 14:43	1

Lab Sample ID: LCS 310-423407/2-A
Matrix: Water
Analysis Batch: 424663

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 423407

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	0.100	0.1102		mg/L		110	80 - 120

Lab Sample ID: LCS 310-423407/2-A
Matrix: Water
Analysis Batch: 424666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 423407

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.1949		mg/L		97	80 - 120
Arsenic	0.200	0.1873		mg/L		94	80 - 120
Barium	0.100	0.1005		mg/L		101	80 - 120
Beryllium	0.100	0.09989		mg/L		100	80 - 120
Cadmium	0.100	0.09382		mg/L		94	80 - 120
Chromium	0.100	0.09804		mg/L		98	80 - 120
Cobalt	0.100	0.09684		mg/L		97	80 - 120
Copper	0.200	0.1959		mg/L		98	80 - 120
Lead	0.200	0.1972		mg/L		99	80 - 120
Nickel	0.200	0.1988		mg/L		99	80 - 120
Selenium	0.400	0.3703		mg/L		93	80 - 120
Thallium	0.100	0.08762		mg/L		88	80 - 120
Vanadium	0.100	0.09673		mg/L		97	80 - 120
Zinc	0.200	0.1923		mg/L		96	80 - 120

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

Lab Sample ID: MB 310-423425/1
Matrix: Water
Analysis Batch: 423425

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.70	mg/L			06/04/24 06:59	1

Lab Sample ID: LCS 310-423425/2
Matrix: Water
Analysis Batch: 423425

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	89.00		mg/L		89	81 - 116

GC/MS VOA

Analysis Batch: 423352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-282522-1	MW-16	Total/NA	Water	8260D	
310-282522-2	MW-27	Total/NA	Water	8260D	
310-282522-3	MW-35	Total/NA	Water	8260D	
310-282522-4	MW-42R	Total/NA	Water	8260D	
310-282522-5	GWD-2	Total/NA	Water	8260D	
310-282522-6	MW-DO	Total/NA	Water	8260D	
310-282522-7	Trip Blank	Total/NA	Water	8260D	
MB 310-423352/5	Method Blank	Total/NA	Water	8260D	
LCS 310-423352/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-423352/7	Lab Control Sample	Total/NA	Water	8260D	

Metals

Prep Batch: 423407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-282522-1	MW-16	Total/NA	Water	3005A	
310-282522-2	MW-27	Total/NA	Water	3005A	
310-282522-3	MW-35	Total/NA	Water	3005A	
310-282522-4	MW-42R	Total/NA	Water	3005A	
310-282522-5	GWD-2	Total/NA	Water	3005A	
310-282522-6	MW-DO	Total/NA	Water	3005A	
MB 310-423407/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-423407/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 423881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-282522-1	MW-16	Total/NA	Water	6020B	423407
310-282522-2	MW-27	Total/NA	Water	6020B	423407
310-282522-3	MW-35	Total/NA	Water	6020B	423407
310-282522-4	MW-42R	Total/NA	Water	6020B	423407
310-282522-5	GWD-2	Total/NA	Water	6020B	423407
310-282522-6	MW-DO	Total/NA	Water	6020B	423407

Analysis Batch: 424568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-282522-1	MW-16	Total/NA	Water	6020B	423407
310-282522-2	MW-27	Total/NA	Water	6020B	423407
310-282522-3	MW-35	Total/NA	Water	6020B	423407
310-282522-4	MW-42R	Total/NA	Water	6020B	423407
310-282522-5	GWD-2	Total/NA	Water	6020B	423407
310-282522-6	MW-DO	Total/NA	Water	6020B	423407

Analysis Batch: 424663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-282522-1	MW-16	Total/NA	Water	6020B	423407
310-282522-2	MW-27	Total/NA	Water	6020B	423407
310-282522-3	MW-35	Total/NA	Water	6020B	423407
310-282522-4	MW-42R	Total/NA	Water	6020B	423407
310-282522-5	GWD-2	Total/NA	Water	6020B	423407
310-282522-6	MW-DO	Total/NA	Water	6020B	423407
MB 310-423407/1-A	Method Blank	Total/NA	Water	6020B	423407

Metals (Continued)

Analysis Batch: 424663 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 310-423407/2-A	Lab Control Sample	Total/NA	Water	6020B	423407

Analysis Batch: 424666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-282522-1	MW-16	Total/NA	Water	6020B	423407
310-282522-2	MW-27	Total/NA	Water	6020B	423407
310-282522-3	MW-35	Total/NA	Water	6020B	423407
310-282522-4	MW-42R	Total/NA	Water	6020B	423407
310-282522-5	GWD-2	Total/NA	Water	6020B	423407
310-282522-6	MW-DO	Total/NA	Water	6020B	423407
MB 310-423407/1-A	Method Blank	Total/NA	Water	6020B	423407
LCS 310-423407/2-A	Lab Control Sample	Total/NA	Water	6020B	423407

General Chemistry

Analysis Batch: 423425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-282522-1	MW-16	Total/NA	Water	I-3765-85	
310-282522-2	MW-27	Total/NA	Water	I-3765-85	
310-282522-3	MW-35	Total/NA	Water	I-3765-85	
310-282522-4	MW-42R	Total/NA	Water	I-3765-85	
310-282522-5	GWD-2	Total/NA	Water	I-3765-85	
310-282522-6	MW-DO	Total/NA	Water	I-3765-85	
MB 310-423425/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-423425/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Lab Chronicle

Client: SCS Engineers
Job ID: 310-282522-1
Project/Site: Cherokee Landfill-Open 1st 2024 HMSP

Client Sample ID: MW-16
Lab Sample ID: 310-282522-1
Date Collected: 05/29/24 11:52
Matrix: Water
Date Received: 05/31/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	423352	WSE8	EET CF	06/04/24 06:01
Total/NA	Prep	3005A			423407	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424568	NFT2	EET CF	06/13/24 16:05
Total/NA	Prep	3005A			423407	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424666	NFT2	EET CF	06/14/24 14:50
Total/NA	Prep	3005A			423407	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	423881	NFT2	EET CF	06/06/24 17:37
Total/NA	Prep	3005A			423407	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424663	NFT2	EET CF	06/14/24 14:38
Total/NA	Analysis	I-3765-85		1	423425	DGU1	EET CF	06/04/24 06:59

Client Sample ID: MW-27
Lab Sample ID: 310-282522-2
Date Collected: 05/29/24 13:24
Matrix: Water
Date Received: 05/31/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	423352	WSE8	EET CF	06/04/24 06:23
Total/NA	Prep	3005A			423407	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424568	NFT2	EET CF	06/13/24 16:09
Total/NA	Prep	3005A			423407	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424666	NFT2	EET CF	06/14/24 14:53
Total/NA	Prep	3005A			423407	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	423881	NFT2	EET CF	06/06/24 17:39
Total/NA	Prep	3005A			423407	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424663	NFT2	EET CF	06/14/24 14:41
Total/NA	Analysis	I-3765-85		1	423425	DGU1	EET CF	06/04/24 06:59

Client Sample ID: MW-35
Lab Sample ID: 310-282522-3
Date Collected: 05/29/24 18:23
Matrix: Water
Date Received: 05/31/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	423352	WSE8	EET CF	06/04/24 06:44
Total/NA	Prep	3005A			423407	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424568	NFT2	EET CF	06/13/24 16:12
Total/NA	Prep	3005A			423407	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424666	NFT2	EET CF	06/14/24 14:57
Total/NA	Prep	3005A			423407	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	423881	NFT2	EET CF	06/06/24 17:41
Total/NA	Prep	3005A			423407	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424663	NFT2	EET CF	06/14/24 14:43
Total/NA	Analysis	I-3765-85		1	423425	DGU1	EET CF	06/04/24 06:59

Client Sample ID: MW-42R
Lab Sample ID: 310-282522-4

Date Collected: 05/29/24 17:13
Matrix: Water
Date Received: 05/31/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	423352	WSE8	EET CF	06/04/24 07:06
Total/NA	Prep	3005A			423407	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424568	NFT2	EET CF	06/13/24 16:16
Total/NA	Prep	3005A			423407	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424666	NFT2	EET CF	06/14/24 15:01
Total/NA	Prep	3005A			423407	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	423881	NFT2	EET CF	06/06/24 17:43
Total/NA	Prep	3005A			423407	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424663	NFT2	EET CF	06/14/24 14:45
Total/NA	Analysis	I-3765-85		1	423425	DGU1	EET CF	06/04/24 06:59

Client Sample ID: GWD-2
Lab Sample ID: 310-282522-5

Date Collected: 05/29/24 12:23
Matrix: Water
Date Received: 05/31/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	423352	WSE8	EET CF	06/04/24 07:28
Total/NA	Prep	3005A			423407	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424568	NFT2	EET CF	06/13/24 16:19
Total/NA	Prep	3005A			423407	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424666	NFT2	EET CF	06/14/24 15:04
Total/NA	Prep	3005A			423407	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	423881	NFT2	EET CF	06/06/24 17:46
Total/NA	Prep	3005A			423407	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424663	NFT2	EET CF	06/14/24 14:47
Total/NA	Analysis	I-3765-85		1	423425	DGU1	EET CF	06/04/24 06:59

Client Sample ID: MW-DO
Lab Sample ID: 310-282522-6

Date Collected: 05/29/24 13:24
Matrix: Water
Date Received: 05/31/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	423352	WSE8	EET CF	06/04/24 07:50
Total/NA	Prep	3005A			423407	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424568	NFT2	EET CF	06/13/24 16:37
Total/NA	Prep	3005A			423407	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424666	NFT2	EET CF	06/14/24 15:08
Total/NA	Prep	3005A			423407	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	423881	NFT2	EET CF	06/06/24 17:48
Total/NA	Prep	3005A			423407	KM3E	EET CF	06/04/24 09:15
Total/NA	Analysis	6020B		1	424663	NFT2	EET CF	06/14/24 14:58
Total/NA	Analysis	I-3765-85		1	423425	DGU1	EET CF	06/04/24 06:59

Lab Chronicle

Client: SCS Engineers
Job ID: 310-282522-1
Project/Site: Cherokee Landfill-Open 1st 2024 HMSP

Client Sample ID: Trip Blank
Lab Sample ID: 310-282522-7
Date Collected: 05/29/24 00:00
Matrix: Water
Date Received: 05/31/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	423352	WSE8	EET CF	06/04/24 02:23

Laboratory References:

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

Accreditation/Certification Summary

Client: SCS Engineers
Job ID: 310-282522-1
Project/Site: Cherokee Landfill-Open 1st 2024 HMSP

Laboratory: Eurofins Cedar Falls

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

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

Method Summary

Client: SCS Engineers
Job ID: 310-282522-1
Project/Site: Cherokee Landfill-Open 1st 2024 HMSP

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
6020B	Metals (ICP/MS)	SW846	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
5030B	Purge and Trap	SW846	EET CF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

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

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310-282522 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: SCS Engineers			
City/State: CITY		STATE	Project:
Receipt Information			
Date/Time Received:	DATE 5/31/24	TIME 1600	Received By: SM

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☑ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers			
Sample(s) received in Cooler?	☑ Yes	☐ No	*If yes:* Cooler ID:
Multiple Coolers?	☐ Yes	☑ No	*If yes:* Cooler # _____ of _____
Cooler Custody Seals Present? No	☐ Yes	☑ No	*If yes:* Cooler custody seals intact? ☐ Yes ☐ No
Sample Custody Seals Present? No	☐ Yes	☑ No	*If yes:* Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?	☑ Yes	☐ No	*If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: X	Correction Factor (°C): 0

• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): -0.1	Corrected Temp (°C): -0.1

• Sample Container Temperature

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (*e.g.*, bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE If yes, contact PM before proceeding If no, proceed with login

Additional Comments

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Phone (319) 277-2401 Phone (319) 277-2425

Chain of Custody Record

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Client Information	Sampler:	Lab PM: Yang, Mary E	Carrier Tracking No(s):	COC No: 310-93456-23846 1
Client Contact: Nathan Ohrt	Phone:	E-Mail: Mary Yang@ET EurofinsUS com	State of Origin:	Page: Page 1 of 1
Company: SCS Engineers	PWSID:			Job #:

Address: 1690 All State Court Suite 100	Due Date Requested:	
City: West Des Moines	TAT Requested (days):	
State, Zip: IA, 50265	Compliance Project: Δ Yes Δ No	
Phone:	PO #: 27223105 24	
Email: nohrt@scsengineers.com	WO #:	
Project Name: Cherokee Landfill-Open 1st 2024 HMSP	Project #: 31006308	
Site: Iowa	SSOW#:	

Analysis Requested

Preservation Codes: D - HNO3, A - HCL, N - None

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B - Appendix I	8260D - Volatile Appendix I Sublist	I_3765_86 - Residue, Non-filterable (TSS)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	A	N		
MW-16	5/29/24	11 52	C	Water			X	X	X		
MW-27	5/29/24	13 24	C	Water			X	X	X		
MW-35	5/29/24	18 23	C	Water			X	X	X		
MW-42R	5/29/24	17 13	C	Water			X	X	X		
GWD-2	5/29/24	12 27	C	Water			X	X	X		
MW-DO	5/29/24	3 24	C	Water			X	X	X		
TRIPBLANK			C	Water				X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ________ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Michael Morgan	Date/Time: 5/31/24 1100	Company: SCS	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by: SB	Date/Time: 5/31/24 1600	Company: EF

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks:

Ver 01/16/2019

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-282522-1

Login Number: 282522

List Source: Eurofins Cedar Falls

List Number: 1

Creator: Bennett, Samantha

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/12/2024 5:12:16 PM

JOB DESCRIPTION

Cherokee County Fall 2024 GW
Cherokee County Landfill

JOB NUMBER

310-293778-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

my EOL

Job Notes

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

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

Authorization

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Authorized for release by
Samuel Miller, Project Management Assistant I
Samuel.Miller@et.eurofinsus.com
(319)277-2401

Table of Contents

Job Narrative
310-293778-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

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

Receipt
The samples were received on 10/26/2024 4:25 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 1.6°C and 1.8°C.

GC/MS VOA
Method 8260D: The following sample was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples: MW-16 (310-293778-1).

Method 8260D: The following sample was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples: MW-16 (310-293778-1).

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

Metals
Method 6020B: The reference method requires samples to be preserved to a pH of <2. The following sample was received with insufficient preservation at a pH of >2: MW-39 (310-293778-9). The sample(s) was preserved to the appropriate pH in the laboratory.

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

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

Sample Summary

Client: SCS Engineers
Project/Site: Cherokee County Fall 2024 GW

Job ID: 310-293778-1
SDG: Cherokee County Landfill

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-293778-1	MW-16	Water	10/24/24 10:59	10/26/24 16:25
310-293778-2	MW-27	Water	10/24/24 09:52	10/26/24 16:25
310-293778-3	MW-35	Water	10/24/24 12:29	10/26/24 16:25
310-293778-4	MW-42R	Water	10/23/24 18:00	10/26/24 16:25
310-293778-5	MW-15C	Water	10/23/24 16:35	10/26/24 16:25
310-293778-6	MW-44	Water	10/23/24 17:31	10/26/24 16:25
310-293778-7	MW-14R	Water	10/23/24 14:16	10/26/24 16:25
310-293778-8	MW-15R	Water	10/23/24 16:01	10/26/24 16:25
310-293778-9	MW-39	Water	10/23/24 14:53	10/26/24 16:25
310-293778-10	MW-40	Water	10/24/24 08:32	10/26/24 16:25
310-293778-11	MW-43	Water	10/23/24 15:26	10/26/24 16:25
310-293778-12	MW-D	Water	10/24/24 09:52	10/26/24 16:25
310-293778-14	Trip Blank 1	Water	10/24/24 00:00	10/26/24 16:25
310-293778-15	Trip Blank 2	Water	10/24/24 00:00	10/26/24 16:25

Detection Summary

Client: SCS Engineers
Project/Site: Cherokee County Fall 2024 GW

Job ID: 310-293778-1
SDG: Cherokee County Landfill

Client Sample ID: MW-16 — Lab Sample ID: 310-293778-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.171		0.00200	0.000660	mg/L	1		6020B	Total/NA
Nickel	0.00784		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	5.75		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-27 — Lab Sample ID: 310-293778-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0319		0.00200	0.000660	mg/L	1		6020B	Total/NA
Total Suspended Solids	1.88		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-35 — Lab Sample ID: 310-293778-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00216		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0532		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000437		0.000200	0.000100	mg/L	1		6020B	Total/NA
Chromium	0.00142	J	0.00500	0.00120	mg/L	1		6020B	Total/NA
Cobalt	0.0372		0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00792		0.00500	0.00180	mg/L	1		6020B	Total/NA
Lead	0.00264		0.000500	0.000260	mg/L	1		6020B	Total/NA
Nickel	0.0606		0.00500	0.00210	mg/L	1		6020B	Total/NA
Vanadium	0.00493	J	0.00500	0.00110	mg/L	1		6020B	Total/NA
Zinc	0.0306		0.0200	0.00970	mg/L	1		6020B	Total/NA
Total Suspended Solids	252		15.0	11.1	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-42R — Lab Sample ID: 310-293778-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0177		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000148	J	0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.00505		0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00463	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Nickel	0.0136		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	2.25		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-15C — Lab Sample ID: 310-293778-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0842		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000301	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00705		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	2.88		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-44 — Lab Sample ID: 310-293778-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0118		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0193		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000294	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Total Suspended Solids	54.0		15.0	11.1	mg/L	1		I-3765-85	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: SCS Engineers
Project/Site: Cherokee County Fall 2024 GW

Job ID: 310-293778-1
SDG: Cherokee County Landfill

Client Sample ID: MW-14R — Lab Sample ID: 310-293778-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.511		0.500	0.220	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.543	J	1.00	0.210	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	0.947	J	1.00	0.220	ug/L	1		8260D	Total/NA
1,2-Dichloropropane	0.380	J	1.00	0.270	ug/L	1		8260D	Total/NA
Vinyl chloride	0.394	J	1.00	0.180	ug/L	1		8260D	Total/NA
Arsenic	0.000749	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0607		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.0146		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0444		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	4.50		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-15R — Lab Sample ID: 310-293778-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.40		0.500	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	2.57		1.00	0.400	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.453	J	1.00	0.210	ug/L	1		8260D	Total/NA
1,2-Dichlorobenzene	0.439	J	1.00	0.370	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	1.93		1.00	0.230	ug/L	1		8260D	Total/NA
Arsenic	0.0781		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.521		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.0114		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0107		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	41.0		15.0	11.1	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-39 — Lab Sample ID: 310-293778-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.87		0.500	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	11.7		1.00	0.400	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.388	J	1.00	0.210	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	10.7		1.00	0.230	ug/L	1		8260D	Total/NA
Toluene	0.658	J	1.00	0.430	ug/L	1		8260D	Total/NA
Arsenic	0.0222		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	2.35		0.00800	0.00264	mg/L	4		6020B	Total/NA
Cobalt	0.00637		0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.000373	J	0.000500	0.000260	mg/L	1		6020B	Total/NA
Nickel	0.0115		0.00500	0.00210	mg/L	1		6020B	Total/NA
Vanadium	0.00139	J	0.00500	0.00110	mg/L	1		6020B	Total/NA
Total Suspended Solids	72.0		15.0	11.1	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-40 — Lab Sample ID: 310-293778-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0223		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	1.24		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00165		0.000500	0.000170	mg/L	1		6020B	Total/NA
Total Suspended Solids	51.0		15.0	11.1	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-43 — Lab Sample ID: 310-293778-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	1.53		1.00	0.180	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-43 (Continued) — Lab Sample ID: 310-293778-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00112	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.487		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000763		0.000500	0.000170	mg/L	1		6020B	Total/NA

Client Sample ID: MW-D — Lab Sample ID: 310-293778-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0318		0.00200	0.000660	mg/L	1		6020B	Total/NA

Client Sample ID: Trip Blank 1 — Lab Sample ID: 310-293778-14

No Detections.

Client Sample ID: Trip Blank 2 — Lab Sample ID: 310-293778-15

No Detections.

This Detection Summary does not include radiochemical test results.

Client: SCS Engineers
Project/Site: Cherokee County Fall 2024 GW

Job ID: 310-293778-1
SDG: Cherokee County Landfill

Client Sample ID: MW-16
Date Collected: 10/24/24 10:59
Date Received: 10/26/24 16:25

Lab Sample ID: 310-293778-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/31/24 09:44	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/31/24 09:44	1
Benzene	<0.500		0.500	0.220	ug/L			10/31/24 09:44	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/31/24 09:44	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/31/24 09:44	1
Bromoform	<5.00		5.00	0.780	ug/L			10/31/24 09:44	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/31/24 09:44	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/31/24 09:44	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/31/24 09:44	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/31/24 09:44	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/31/24 09:44	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/31/24 09:44	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/31/24 09:44	1
Chloroform	<3.00		3.00	1.30	ug/L			10/31/24 09:44	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/31/24 09:44	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/31/24 09:44	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/31/24 09:44	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			10/31/24 09:44	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			10/31/24 09:44	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/31/24 09:44	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/31/24 09:44	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/31/24 09:44	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/31/24 09:44	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/31/24 09:44	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/31/24 09:44	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/31/24 09:44	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/31/24 09:44	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/31/24 09:44	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/01/24 14:05	1
Methylene chloride	<5.00		5.00	1.70	ug/L			10/31/24 09:44	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/31/24 09:44	1
Styrene	<1.00		1.00	0.370	ug/L			10/31/24 09:44	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/31/24 09:44	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/31/24 09:44	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/31/24 09:44	1
Toluene	<1.00		1.00	0.430	ug/L			10/31/24 09:44	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/31/24 09:44	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/31/24 09:44	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/31/24 09:44	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/31/24 09:44	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/31/24 09:44	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/31/24 09:44	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/31/24 09:44	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/31/24 09:44	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/31/24 09:44	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/31/24 09:44	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/31/24 09:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*10/31/24 09:44*	*1*

Client: SCS Engineers
Project/Site: Cherokee County Fall 2024 GW

Job ID: 310-293778-1
SDG: Cherokee County Landfill

Client Sample ID: MW-16
Date Collected: 10/24/24 10:59
Date Received: 10/26/24 16:25

Lab Sample ID: 310-293778-1
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*11/01/24 14:05*	*1*
Dibromofluoromethane (Surr)	*101*		*73 - 130*		*10/31/24 09:44*	*1*
Dibromofluoromethane (Surr)	*103*		*73 - 130*		*11/01/24 14:05*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/31/24 09:44*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*11/01/24 14:05*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/05/24 09:30	11/07/24 21:54	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		11/05/24 09:30	11/07/24 21:54	1
Barium	**0.171**		0.00200	0.000660	mg/L		11/05/24 09:30	11/07/24 21:54	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/05/24 09:30	11/07/24 21:54	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/05/24 09:30	11/07/24 21:54	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/05/24 09:30	11/07/24 21:54	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		11/05/24 09:30	11/07/24 21:54	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/05/24 09:30	11/07/24 21:54	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/05/24 09:30	11/07/24 21:54	1
Nickel	**0.00784**		0.00500	0.00210	mg/L		11/05/24 09:30	11/07/24 21:54	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/05/24 09:30	11/07/24 21:54	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/05/24 09:30	11/07/24 21:54	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/05/24 09:30	11/07/24 21:54	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/05/24 09:30	11/07/24 21:54	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/05/24 09:30	11/07/24 21:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**5.75**		1.88	1.39	mg/L			10/30/24 13:07	1

Client: SCS Engineers
Project/Site: Cherokee County Fall 2024 GW

Job ID: 310-293778-1
SDG: Cherokee County Landfill

Client Sample ID: MW-27
Date Collected: 10/24/24 09:52
Date Received: 10/26/24 16:25

Lab Sample ID: 310-293778-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/31/24 10:07	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/31/24 10:07	1
Benzene	<0.500		0.500	0.220	ug/L			10/31/24 10:07	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/31/24 10:07	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/31/24 10:07	1
Bromoform	<5.00		5.00	0.780	ug/L			10/31/24 10:07	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/31/24 10:07	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/31/24 10:07	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/31/24 10:07	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/31/24 10:07	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/31/24 10:07	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/31/24 10:07	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/31/24 10:07	1
Chloroform	<3.00		3.00	1.30	ug/L			10/31/24 10:07	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/31/24 10:07	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/31/24 10:07	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/31/24 10:07	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			10/31/24 10:07	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			10/31/24 10:07	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/31/24 10:07	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/31/24 10:07	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/31/24 10:07	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/31/24 10:07	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/31/24 10:07	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/31/24 10:07	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/31/24 10:07	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/31/24 10:07	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/31/24 10:07	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/01/24 14:27	1
Methylene chloride	<5.00		5.00	1.70	ug/L			10/31/24 10:07	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/31/24 10:07	1
Styrene	<1.00		1.00	0.370	ug/L			10/31/24 10:07	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/31/24 10:07	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/31/24 10:07	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/31/24 10:07	1
Toluene	<1.00		1.00	0.430	ug/L			10/31/24 10:07	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/31/24 10:07	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/31/24 10:07	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/31/24 10:07	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/31/24 10:07	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/31/24 10:07	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/31/24 10:07	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/31/24 10:07	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/31/24 10:07	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/31/24 10:07	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/31/24 10:07	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/31/24 10:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*10/31/24 10:07*	*1*

Client: SCS Engineers
Project/Site: Cherokee County Fall 2024 GW

Job ID: 310-293778-1
SDG: Cherokee County Landfill

Client Sample ID: MW-27
Date Collected: 10/24/24 09:52
Date Received: 10/26/24 16:25

Lab Sample ID: 310-293778-2
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*11/01/24 14:27*	*1*
Dibromofluoromethane (Surr)	*101*		*73 - 130*		*10/31/24 10:07*	*1*
Dibromofluoromethane (Surr)	*102*		*73 - 130*		*11/01/24 14:27*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/31/24 10:07*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/01/24 14:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/05/24 09:30	11/07/24 22:03	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		11/05/24 09:30	11/07/24 22:03	1
Barium	**0.0319**		0.00200	0.000660	mg/L		11/05/24 09:30	11/07/24 22:03	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/05/24 09:30	11/07/24 22:03	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/05/24 09:30	11/07/24 22:03	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/05/24 09:30	11/07/24 22:03	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		11/05/24 09:30	11/07/24 22:03	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/05/24 09:30	11/07/24 22:03	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/05/24 09:30	11/07/24 22:03	1
Nickel	<0.00500		0.00500	0.00210	mg/L		11/05/24 09:30	11/07/24 22:03	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/05/24 09:30	11/07/24 22:03	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/05/24 09:30	11/07/24 22:03	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/05/24 09:30	11/07/24 22:03	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/05/24 09:30	11/07/24 22:03	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/05/24 09:30	11/07/24 22:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**1.88**		1.88	1.39	mg/L			10/30/24 13:07	1

Client: SCS Engineers
Project/Site: Cherokee County Fall 2024 GW

Job ID: 310-293778-1
SDG: Cherokee County Landfill

Client Sample ID: MW-35
Date Collected: 10/24/24 12:29
Date Received: 10/26/24 16:25

Lab Sample ID: 310-293778-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/31/24 10:30	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/31/24 10:30	1
Benzene	<0.500		0.500	0.220	ug/L			10/31/24 10:30	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/31/24 10:30	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/31/24 10:30	1
Bromoform	<5.00		5.00	0.780	ug/L			10/31/24 10:30	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/31/24 10:30	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/31/24 10:30	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/31/24 10:30	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/31/24 10:30	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/31/24 10:30	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/31/24 10:30	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/31/24 10:30	1
Chloroform	<3.00		3.00	1.30	ug/L			10/31/24 10:30	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/31/24 10:30	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/31/24 10:30	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/31/24 10:30	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			10/31/24 10:30	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			10/31/24 10:30	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/31/24 10:30	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/31/24 10:30	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/31/24 10:30	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/31/24 10:30	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/31/24 10:30	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/31/24 10:30	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/31/24 10:30	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/31/24 10:30	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/31/24 10:30	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/01/24 14:50	1
Methylene chloride	<5.00		5.00	1.70	ug/L			10/31/24 10:30	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/31/24 10:30	1
Styrene	<1.00		1.00	0.370	ug/L			10/31/24 10:30	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/31/24 10:30	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/31/24 10:30	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/31/24 10:30	1
Toluene	<1.00		1.00	0.430	ug/L			10/31/24 10:30	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/31/24 10:30	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/31/24 10:30	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/31/24 10:30	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/31/24 10:30	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/31/24 10:30	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/31/24 10:30	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/31/24 10:30	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/31/24 10:30	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/31/24 10:30	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/31/24 10:30	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/31/24 10:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*10/31/24 10:30*	*1*

Client: SCS Engineers
Project/Site: Cherokee County Fall 2024 GW

Job ID: 310-293778-1
SDG: Cherokee County Landfill

Client Sample ID: MW-35
Date Collected: 10/24/24 12:29
Date Received: 10/26/24 16:25

Lab Sample ID: 310-293778-3
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*11/01/24 14:50*	*1*
Dibromofluoromethane (Surr)	*101*		*73 - 130*		*10/31/24 10:30*	*1*
Dibromofluoromethane (Surr)	*104*		*73 - 130*		*11/01/24 14:50*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/31/24 10:30*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*11/01/24 14:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/05/24 09:30	11/07/24 22:05	1
Arsenic	**0.00216**		0.00200	0.000530	mg/L		11/05/24 09:30	11/07/24 22:05	1
Barium	**0.0532**		0.00200	0.000660	mg/L		11/05/24 09:30	11/07/24 22:05	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/05/24 09:30	11/07/24 22:05	1
Cadmium	**0.000437**		0.000200	0.000100	mg/L		11/05/24 09:30	11/07/24 22:05	1
Chromium	**0.00142**	**J**	0.00500	0.00120	mg/L		11/05/24 09:30	11/07/24 22:05	1
Cobalt	**0.0372**		0.000500	0.000170	mg/L		11/05/24 09:30	11/07/24 22:05	1
Copper	**0.00792**		0.00500	0.00180	mg/L		11/05/24 09:30	11/07/24 22:05	1
Lead	**0.00264**		0.000500	0.000260	mg/L		11/05/24 09:30	11/07/24 22:05	1
Nickel	**0.0606**		0.00500	0.00210	mg/L		11/05/24 09:30	11/07/24 22:05	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/05/24 09:30	11/07/24 22:05	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/05/24 09:30	11/07/24 22:05	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/05/24 09:30	11/07/24 22:05	1
Vanadium	**0.00493**	**J**	0.00500	0.00110	mg/L		11/05/24 09:30	11/07/24 22:05	1
Zinc	**0.0306**		0.0200	0.00970	mg/L		11/05/24 09:30	11/07/24 22:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**252**		15.0	11.1	mg/L			10/30/24 13:07	1

Client: SCS Engineers
Project/Site: Cherokee County Fall 2024 GW

Job ID: 310-293778-1
SDG: Cherokee County Landfill

Client Sample ID: MW-42R
Date Collected: 10/23/24 18:00
Date Received: 10/26/24 16:25

Lab Sample ID: 310-293778-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/31/24 10:53	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/31/24 10:53	1
Benzene	<0.500		0.500	0.220	ug/L			10/31/24 10:53	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/31/24 10:53	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/31/24 10:53	1
Bromoform	<5.00		5.00	0.780	ug/L			10/31/24 10:53	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/31/24 10:53	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/31/24 10:53	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/31/24 10:53	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/31/24 10:53	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/31/24 10:53	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/31/24 10:53	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/31/24 10:53	1
Chloroform	<3.00		3.00	1.30	ug/L			10/31/24 10:53	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/31/24 10:53	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/31/24 10:53	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/31/24 10:53	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			10/31/24 10:53	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			10/31/24 10:53	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/31/24 10:53	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/31/24 10:53	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/31/24 10:53	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/31/24 10:53	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/31/24 10:53	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/31/24 10:53	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/31/24 10:53	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/31/24 10:53	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/31/24 10:53	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/01/24 15:12	1
Methylene chloride	<5.00		5.00	1.70	ug/L			10/31/24 10:53	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/31/24 10:53	1
Styrene	<1.00		1.00	0.370	ug/L			10/31/24 10:53	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/31/24 10:53	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/31/24 10:53	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/31/24 10:53	1
Toluene	<1.00		1.00	0.430	ug/L			10/31/24 10:53	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/31/24 10:53	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/31/24 10:53	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/31/24 10:53	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/31/24 10:53	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/31/24 10:53	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/31/24 10:53	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/31/24 10:53	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/31/24 10:53	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/31/24 10:53	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/31/24 10:53	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/31/24 10:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*10/31/24 10:53*	*1*

Client: SCS Engineers
Project/Site: Cherokee County Fall 2024 GW

Job ID: 310-293778-1
SDG: Cherokee County Landfill

Client Sample ID: MW-42R
Date Collected: 10/23/24 18:00
Date Received: 10/26/24 16:25

Lab Sample ID: 310-293778-4
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*11/01/24 15:12*	*1*
Dibromofluoromethane (Surr)	*101*		*73 - 130*		*10/31/24 10:53*	*1*
Dibromofluoromethane (Surr)	*103*		*73 - 130*		*11/01/24 15:12*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/31/24 10:53*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/01/24 15:12*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/05/24 09:30	11/07/24 22:08	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		11/05/24 09:30	11/07/24 22:08	1
Barium	**0.0177**		0.00200	0.000660	mg/L		11/05/24 09:30	11/07/24 22:08	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/05/24 09:30	11/07/24 22:08	1
Cadmium	**0.000148**	**J**	0.000200	0.000100	mg/L		11/05/24 09:30	11/07/24 22:08	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/05/24 09:30	11/07/24 22:08	1
Cobalt	**0.00505**		0.000500	0.000170	mg/L		11/05/24 09:30	11/07/24 22:08	1
Copper	**0.00463**	**J**	0.00500	0.00180	mg/L		11/05/24 09:30	11/07/24 22:08	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/05/24 09:30	11/07/24 22:08	1
Nickel	**0.0136**		0.00500	0.00210	mg/L		11/05/24 09:30	11/07/24 22:08	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/05/24 09:30	11/07/24 22:08	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/05/24 09:30	11/07/24 22:08	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/05/24 09:30	11/07/24 22:08	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/05/24 09:30	11/07/24 22:08	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/05/24 09:30	11/07/24 22:08	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			10/29/24 10:35	1

Client: SCS Engineers
Project/Site: Cherokee County Fall 2024 GW

Job ID: 310-293778-1
SDG: Cherokee County Landfill

Client Sample ID: MW-15C
Date Collected: 10/23/24 16:35
Date Received: 10/26/24 16:25

Lab Sample ID: 310-293778-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/31/24 11:16	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/31/24 11:16	1
Benzene	<0.500		0.500	0.220	ug/L			10/31/24 11:16	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/31/24 11:16	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/31/24 11:16	1
Bromoform	<5.00		5.00	0.780	ug/L			10/31/24 11:16	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/31/24 11:16	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/31/24 11:16	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/31/24 11:16	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/31/24 11:16	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/31/24 11:16	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/31/24 11:16	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/31/24 11:16	1
Chloroform	<3.00		3.00	1.30	ug/L			10/31/24 11:16	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/31/24 11:16	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/31/24 11:16	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/31/24 11:16	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			10/31/24 11:16	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			10/31/24 11:16	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/31/24 11:16	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/31/24 11:16	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/31/24 11:16	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/31/24 11:16	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/31/24 11:16	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/31/24 11:16	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/31/24 11:16	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/31/24 11:16	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/31/24 11:16	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/01/24 15:35	1
Methylene chloride	<5.00		5.00	1.70	ug/L			10/31/24 11:16	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/31/24 11:16	1
Styrene	<1.00		1.00	0.370	ug/L			10/31/24 11:16	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/31/24 11:16	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/31/24 11:16	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/31/24 11:16	1
Toluene	<1.00		1.00	0.430	ug/L			10/31/24 11:16	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/31/24 11:16	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/31/24 11:16	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/31/24 11:16	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/31/24 11:16	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/31/24 11:16	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/31/24 11:16	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/31/24 11:16	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/31/24 11:16	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/31/24 11:16	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/31/24 11:16	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/31/24 11:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*10/31/24 11:16*	*1*

Client: SCS Engineers
Project/Site: Cherokee County Fall 2024 GW

Job ID: 310-293778-1
SDG: Cherokee County Landfill

Client Sample ID: MW-15C
Date Collected: 10/23/24 16:35
Date Received: 10/26/24 16:25

Lab Sample ID: 310-293778-5
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*11/01/24 15:35*	*1*
Dibromofluoromethane (Surr)	*101*		*73 - 130*		*10/31/24 11:16*	*1*
Dibromofluoromethane (Surr)	*103*		*73 - 130*		*11/01/24 15:35*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/31/24 11:16*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/01/24 15:35*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/05/24 09:30	11/07/24 22:22	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		11/05/24 09:30	11/07/24 22:22	1
Barium	**0.0842**		0.00200	0.000660	mg/L		11/05/24 09:30	11/07/24 22:22	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/05/24 09:30	11/07/24 22:22	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/05/24 09:30	11/07/24 22:22	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/05/24 09:30	11/07/24 22:22	1
Cobalt	**0.000301**	**J**	0.000500	0.000170	mg/L		11/05/24 09:30	11/07/24 22:22	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/05/24 09:30	11/07/24 22:22	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/05/24 09:30	11/07/24 22:22	1
Nickel	**0.00705**		0.00500	0.00210	mg/L		11/05/24 09:30	11/07/24 22:22	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/05/24 09:30	11/07/24 22:22	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/05/24 09:30	11/07/24 22:22	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/05/24 09:30	11/07/24 22:22	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/05/24 09:30	11/07/24 22:22	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/05/24 09:30	11/07/24 22:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**2.88**		1.88	1.39	mg/L			10/29/24 11:21	1

Client: SCS Engineers
Project/Site: Cherokee County Fall 2024 GW

Job ID: 310-293778-1
SDG: Cherokee County Landfill

Client Sample ID: MW-44
Date Collected: 10/23/24 17:31
Date Received: 10/26/24 16:25

Lab Sample ID: 310-293778-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/31/24 11:39	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/31/24 11:39	1
Benzene	<0.500		0.500	0.220	ug/L			10/31/24 11:39	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/31/24 11:39	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/31/24 11:39	1
Bromoform	<5.00		5.00	0.780	ug/L			10/31/24 11:39	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/31/24 11:39	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/31/24 11:39	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/31/24 11:39	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/31/24 11:39	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/31/24 11:39	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/31/24 11:39	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/31/24 11:39	1
Chloroform	<3.00		3.00	1.30	ug/L			10/31/24 11:39	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/31/24 11:39	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/31/24 11:39	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/31/24 11:39	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			10/31/24 11:39	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			10/31/24 11:39	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/31/24 11:39	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/31/24 11:39	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/31/24 11:39	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/31/24 11:39	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/31/24 11:39	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/31/24 11:39	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/31/24 11:39	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/31/24 11:39	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/31/24 11:39	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/01/24 15:58	1
Methylene chloride	<5.00		5.00	1.70	ug/L			10/31/24 11:39	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/31/24 11:39	1
Styrene	<1.00		1.00	0.370	ug/L			10/31/24 11:39	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/31/24 11:39	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/31/24 11:39	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/31/24 11:39	1
Toluene	<1.00		1.00	0.430	ug/L			10/31/24 11:39	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/31/24 11:39	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/31/24 11:39	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/31/24 11:39	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/31/24 11:39	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/31/24 11:39	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/31/24 11:39	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/31/24 11:39	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/31/24 11:39	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/31/24 11:39	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/31/24 11:39	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/31/24 11:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*10/31/24 11:39*	*1*

Client Sample ID: MW-44
Date Collected: 10/23/24 17:31
Date Received: 10/26/24 16:25

Lab Sample ID: 310-293778-6
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*11/01/24 15:58*	*1*
Dibromofluoromethane (Surr)	*102*		*73 - 130*		*10/31/24 11:39*	*1*
Dibromofluoromethane (Surr)	*103*		*73 - 130*		*11/01/24 15:58*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*10/31/24 11:39*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/01/24 15:58*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/05/24 09:30	11/07/24 22:25	1
Arsenic	**0.0118**		0.00200	0.000530	mg/L		11/05/24 09:30	11/07/24 22:25	1
Barium	**0.0193**		0.00200	0.000660	mg/L		11/05/24 09:30	11/07/24 22:25	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/05/24 09:30	11/07/24 22:25	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/05/24 09:30	11/07/24 22:25	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/05/24 09:30	11/07/24 22:25	1
Cobalt	**0.000294**	**J**	0.000500	0.000170	mg/L		11/05/24 09:30	11/07/24 22:25	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/05/24 09:30	11/07/24 22:25	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/05/24 09:30	11/07/24 22:25	1
Nickel	<0.00500		0.00500	0.00210	mg/L		11/05/24 09:30	11/07/24 22:25	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/05/24 09:30	11/07/24 22:25	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/05/24 09:30	11/07/24 22:25	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/05/24 09:30	11/07/24 22:25	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/05/24 09:30	11/07/24 22:25	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/05/24 09:30	11/07/24 22:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**54.0**		15.0	11.1	mg/L			10/29/24 11:21	1

Client: SCS Engineers
Project/Site: Cherokee County Fall 2024 GW

Job ID: 310-293778-1
SDG: Cherokee County Landfill

Client Sample ID: MW-14R
Date Collected: 10/23/24 14:16
Date Received: 10/26/24 16:25

Lab Sample ID: 310-293778-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/31/24 12:02	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/31/24 12:02	1
Benzene	**0.511**		0.500	0.220	ug/L			10/31/24 12:02	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/31/24 12:02	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/31/24 12:02	1
Bromoform	<5.00		5.00	0.780	ug/L			10/31/24 12:02	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/31/24 12:02	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/31/24 12:02	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/31/24 12:02	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/31/24 12:02	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/31/24 12:02	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/31/24 12:02	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/31/24 12:02	1
Chloroform	<3.00		3.00	1.30	ug/L			10/31/24 12:02	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/31/24 12:02	1
cis-1,2-Dichloroethene	**0.543**	**J**	1.00	0.210	ug/L			10/31/24 12:02	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/31/24 12:02	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			10/31/24 12:02	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			10/31/24 12:02	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/31/24 12:02	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/31/24 12:02	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/31/24 12:02	1
1,1-Dichloroethane	**0.947**	**J**	1.00	0.220	ug/L			10/31/24 12:02	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/31/24 12:02	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/31/24 12:02	1
1,2-Dichloropropane	**0.380**	**J**	1.00	0.270	ug/L			10/31/24 12:02	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/31/24 12:02	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/31/24 12:02	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/01/24 16:21	1
Methylene chloride	<5.00		5.00	1.70	ug/L			10/31/24 12:02	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/31/24 12:02	1
Styrene	<1.00		1.00	0.370	ug/L			10/31/24 12:02	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/31/24 12:02	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/31/24 12:02	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/31/24 12:02	1
Toluene	<1.00		1.00	0.430	ug/L			10/31/24 12:02	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/31/24 12:02	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/31/24 12:02	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/31/24 12:02	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/31/24 12:02	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/31/24 12:02	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/31/24 12:02	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/31/24 12:02	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/31/24 12:02	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/31/24 12:02	1
Vinyl chloride	**0.394**	**J**	1.00	0.180	ug/L			10/31/24 12:02	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/31/24 12:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*10/31/24 12:02*	*1*

Client: SCS Engineers
Project/Site: Cherokee County Fall 2024 GW

Job ID: 310-293778-1
SDG: Cherokee County Landfill

Client Sample ID: MW-14R
Date Collected: 10/23/24 14:16
Date Received: 10/26/24 16:25

Lab Sample ID: 310-293778-7
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*11/01/24 16:21*	*1*
Dibromofluoromethane (Surr)	*102*		*73 - 130*		*10/31/24 12:02*	*1*
Dibromofluoromethane (Surr)	*104*		*73 - 130*		*11/01/24 16:21*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/31/24 12:02*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*11/01/24 16:21*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/05/24 09:30	11/07/24 22:28	1
Arsenic	**0.000749**	**J**	0.00200	0.000530	mg/L		11/05/24 09:30	11/07/24 22:28	1
Barium	**0.0607**		0.00200	0.000660	mg/L		11/05/24 09:30	11/07/24 22:28	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/05/24 09:30	11/07/24 22:28	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/05/24 09:30	11/07/24 22:28	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/05/24 09:30	11/07/24 22:28	1
Cobalt	**0.0146**		0.000500	0.000170	mg/L		11/05/24 09:30	11/07/24 22:28	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/05/24 09:30	11/07/24 22:28	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/05/24 09:30	11/07/24 22:28	1
Nickel	**0.0444**		0.00500	0.00210	mg/L		11/05/24 09:30	11/07/24 22:28	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/05/24 09:30	11/07/24 22:28	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/05/24 09:30	11/07/24 22:28	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/05/24 09:30	11/07/24 22:28	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/05/24 09:30	11/07/24 22:28	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/05/24 09:30	11/07/24 22:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**4.50**		1.88	1.39	mg/L			10/29/24 10:35	1

Client: SCS Engineers
Project/Site: Cherokee County Fall 2024 GW

Job ID: 310-293778-1
SDG: Cherokee County Landfill

Client Sample ID: MW-15R
Date Collected: 10/23/24 16:01
Date Received: 10/26/24 16:25

Lab Sample ID: 310-293778-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/31/24 12:24	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/31/24 12:24	1
Benzene	**1.40**		0.500	0.220	ug/L			10/31/24 12:24	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/31/24 12:24	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/31/24 12:24	1
Bromoform	<5.00		5.00	0.780	ug/L			10/31/24 12:24	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/31/24 12:24	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/31/24 12:24	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/31/24 12:24	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/31/24 12:24	1
Chlorobenzene	**2.57**		1.00	0.400	ug/L			10/31/24 12:24	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/31/24 12:24	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/31/24 12:24	1
Chloroform	<3.00		3.00	1.30	ug/L			10/31/24 12:24	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/31/24 12:24	1
cis-1,2-Dichloroethene	**0.453**	**J**	1.00	0.210	ug/L			10/31/24 12:24	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/31/24 12:24	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			10/31/24 12:24	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			10/31/24 12:24	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/31/24 12:24	1
1,2-Dichlorobenzene	**0.439**	**J**	1.00	0.370	ug/L			10/31/24 12:24	1
1,4-Dichlorobenzene	**1.93**		1.00	0.230	ug/L			10/31/24 12:24	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/31/24 12:24	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/31/24 12:24	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/31/24 12:24	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/31/24 12:24	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/31/24 12:24	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/31/24 12:24	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/01/24 16:43	1
Methylene chloride	<5.00		5.00	1.70	ug/L			10/31/24 12:24	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/31/24 12:24	1
Styrene	<1.00		1.00	0.370	ug/L			10/31/24 12:24	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/31/24 12:24	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/31/24 12:24	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/31/24 12:24	1
Toluene	<1.00		1.00	0.430	ug/L			10/31/24 12:24	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/31/24 12:24	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/31/24 12:24	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/31/24 12:24	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/31/24 12:24	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/31/24 12:24	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/31/24 12:24	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/31/24 12:24	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/31/24 12:24	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/31/24 12:24	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/31/24 12:24	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/31/24 12:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*10/31/24 12:24*	*1*

Client Sample ID: MW-15R
Date Collected: 10/23/24 16:01
Date Received: 10/26/24 16:25

Lab Sample ID: 310-293778-8
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*11/01/24 16:43*	*1*
Dibromofluoromethane (Surr)	*102*		*73 - 130*		*10/31/24 12:24*	*1*
Dibromofluoromethane (Surr)	*103*		*73 - 130*		*11/01/24 16:43*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/31/24 12:24*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*11/01/24 16:43*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/05/24 09:30	11/07/24 22:31	1
Arsenic	**0.0781**		0.00200	0.000530	mg/L		11/05/24 09:30	11/07/24 22:31	1
Barium	**0.521**		0.00200	0.000660	mg/L		11/05/24 09:30	11/07/24 22:31	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/05/24 09:30	11/07/24 22:31	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/05/24 09:30	11/07/24 22:31	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/05/24 09:30	11/07/24 22:31	1
Cobalt	**0.0114**		0.000500	0.000170	mg/L		11/05/24 09:30	11/07/24 22:31	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/05/24 09:30	11/07/24 22:31	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/05/24 09:30	11/07/24 22:31	1
Nickel	**0.0107**		0.00500	0.00210	mg/L		11/05/24 09:30	11/07/24 22:31	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/05/24 09:30	11/07/24 22:31	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/05/24 09:30	11/07/24 22:31	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/05/24 09:30	11/07/24 22:31	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/05/24 09:30	11/07/24 22:31	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/05/24 09:30	11/07/24 22:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**41.0**		15.0	11.1	mg/L			10/29/24 10:35	1

Client: SCS Engineers
Project/Site: Cherokee County Fall 2024 GW

Job ID: 310-293778-1
SDG: Cherokee County Landfill

Client Sample ID: MW-39
Date Collected: 10/23/24 14:53
Date Received: 10/26/24 16:25

Lab Sample ID: 310-293778-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/31/24 12:47	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/31/24 12:47	1
Benzene	**1.87**		0.500	0.220	ug/L			10/31/24 12:47	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/31/24 12:47	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/31/24 12:47	1
Bromoform	<5.00		5.00	0.780	ug/L			10/31/24 12:47	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/31/24 12:47	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/31/24 12:47	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/31/24 12:47	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/31/24 12:47	1
Chlorobenzene	**11.7**		1.00	0.400	ug/L			10/31/24 12:47	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/31/24 12:47	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/31/24 12:47	1
Chloroform	<3.00		3.00	1.30	ug/L			10/31/24 12:47	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/31/24 12:47	1
cis-1,2-Dichloroethene	**0.388**	**J**	1.00	0.210	ug/L			10/31/24 12:47	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/31/24 12:47	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			10/31/24 12:47	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			10/31/24 12:47	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/31/24 12:47	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/31/24 12:47	1
1,4-Dichlorobenzene	**10.7**		1.00	0.230	ug/L			10/31/24 12:47	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/31/24 12:47	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/31/24 12:47	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/31/24 12:47	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/31/24 12:47	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/31/24 12:47	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/31/24 12:47	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/01/24 17:06	1
Methylene chloride	<5.00		5.00	1.70	ug/L			10/31/24 12:47	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/31/24 12:47	1
Styrene	<1.00		1.00	0.370	ug/L			10/31/24 12:47	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/31/24 12:47	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/31/24 12:47	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/31/24 12:47	1
Toluene	**0.658**	**J**	1.00	0.430	ug/L			10/31/24 12:47	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/31/24 12:47	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/31/24 12:47	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/31/24 12:47	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/31/24 12:47	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/31/24 12:47	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/31/24 12:47	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/31/24 12:47	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/31/24 12:47	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/31/24 12:47	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/31/24 12:47	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/31/24 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*10/31/24 12:47*	*1*

Client Sample ID: MW-39
Date Collected: 10/23/24 14:53
Date Received: 10/26/24 16:25

Lab Sample ID: 310-293778-9
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*11/01/24 17:06*	*1*
Dibromofluoromethane (Surr)	*102*		*73 - 130*		*10/31/24 12:47*	*1*
Dibromofluoromethane (Surr)	*102*		*73 - 130*		*11/01/24 17:06*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/31/24 12:47*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/01/24 17:06*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/05/24 09:30	11/07/24 22:34	1
Arsenic	**0.0222**		0.00200	0.000530	mg/L		11/05/24 09:30	11/07/24 22:34	1
Barium	**2.35**		0.00800	0.00264	mg/L		11/05/24 09:30	11/08/24 13:01	4
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/05/24 09:30	11/07/24 22:34	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/05/24 09:30	11/07/24 22:34	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/05/24 09:30	11/07/24 22:34	1
Cobalt	**0.00637**		0.000500	0.000170	mg/L		11/05/24 09:30	11/07/24 22:34	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/05/24 09:30	11/07/24 22:34	1
Lead	**0.000373**	**J**	0.000500	0.000260	mg/L		11/05/24 09:30	11/07/24 22:34	1
Nickel	**0.0115**		0.00500	0.00210	mg/L		11/05/24 09:30	11/07/24 22:34	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/05/24 09:30	11/07/24 22:34	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/05/24 09:30	11/07/24 22:34	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/05/24 09:30	11/07/24 22:34	1
Vanadium	**0.00139**	**J**	0.00500	0.00110	mg/L		11/05/24 09:30	11/07/24 22:34	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/05/24 09:30	11/07/24 22:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**72.0**		15.0	11.1	mg/L			10/29/24 10:35	1

Client: SCS Engineers
Project/Site: Cherokee County Fall 2024 GW

Job ID: 310-293778-1
SDG: Cherokee County Landfill

Client Sample ID: MW-40
Date Collected: 10/24/24 08:32
Date Received: 10/26/24 16:25

Lab Sample ID: 310-293778-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/30/24 09:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*10/30/24 09:30*	*1*
Dibromofluoromethane (Surr)	*103*		*73 - 130*		*10/30/24 09:30*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/30/24 09:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0223**		0.00200	0.000530	mg/L		11/05/24 09:30	11/07/24 22:37	1
Barium	**1.24**		0.00200	0.000660	mg/L		11/05/24 09:30	11/07/24 22:37	1
Cobalt	**0.00165**		0.000500	0.000170	mg/L		11/05/24 09:30	11/07/24 22:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**51.0**		15.0	11.1	mg/L			10/30/24 13:07	1

Client: SCS Engineers
Project/Site: Cherokee County Fall 2024 GW

Job ID: 310-293778-1
SDG: Cherokee County Landfill

Client Sample ID: MW-43
Date Collected: 10/23/24 15:26
Date Received: 10/26/24 16:25

Lab Sample ID: 310-293778-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.53		1.00	0.180	ug/L			10/30/24 09:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*10/30/24 09:53*	*1*
Dibromofluoromethane (Surr)	*101*		*73 - 130*		*10/30/24 09:53*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/30/24 09:53*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00112	J	0.00200	0.000530	mg/L		11/05/24 09:30	11/07/24 22:39	1
Barium	0.487		0.00200	0.000660	mg/L		11/05/24 09:30	11/07/24 22:39	1
Cobalt	0.000763		0.000500	0.000170	mg/L		11/05/24 09:30	11/07/24 22:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.39	mg/L			10/29/24 11:21	1

Client: SCS Engineers
Project/Site: Cherokee County Fall 2024 GW

Job ID: 310-293778-1
SDG: Cherokee County Landfill

Client Sample ID: MW-D
Date Collected: 10/24/24 09:52
Date Received: 10/26/24 16:25

Lab Sample ID: 310-293778-12
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/31/24 13:10	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/31/24 13:10	1
Benzene	<0.500		0.500	0.220	ug/L			10/31/24 13:10	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/31/24 13:10	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/31/24 13:10	1
Bromoform	<5.00		5.00	0.780	ug/L			10/31/24 13:10	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/31/24 13:10	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/31/24 13:10	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/31/24 13:10	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/31/24 13:10	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/31/24 13:10	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/31/24 13:10	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/31/24 13:10	1
Chloroform	<3.00		3.00	1.30	ug/L			10/31/24 13:10	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/31/24 13:10	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/31/24 13:10	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/31/24 13:10	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			10/31/24 13:10	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			10/31/24 13:10	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/31/24 13:10	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/31/24 13:10	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/31/24 13:10	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/31/24 13:10	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/31/24 13:10	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/31/24 13:10	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/31/24 13:10	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/31/24 13:10	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/31/24 13:10	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/01/24 17:29	1
Methylene chloride	<5.00		5.00	1.70	ug/L			10/31/24 13:10	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/31/24 13:10	1
Styrene	<1.00		1.00	0.370	ug/L			10/31/24 13:10	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/31/24 13:10	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/31/24 13:10	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/31/24 13:10	1
Toluene	<1.00		1.00	0.430	ug/L			10/31/24 13:10	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/31/24 13:10	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/31/24 13:10	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/31/24 13:10	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/31/24 13:10	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/31/24 13:10	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/31/24 13:10	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/31/24 13:10	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/31/24 13:10	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/31/24 13:10	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/31/24 13:10	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/31/24 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*10/31/24 13:10*	*1*

Client: SCS Engineers
Project/Site: Cherokee County Fall 2024 GW

Job ID: 310-293778-1
SDG: Cherokee County Landfill

Client Sample ID: MW-D
Date Collected: 10/24/24 09:52
Date Received: 10/26/24 16:25

Lab Sample ID: 310-293778-12
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*11/01/24 17:29*	*1*
Dibromofluoromethane (Surr)	*101*		*73 - 130*		*10/31/24 13:10*	*1*
Dibromofluoromethane (Surr)	*102*		*73 - 130*		*11/01/24 17:29*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/31/24 13:10*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*11/01/24 17:29*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/05/24 09:30	11/07/24 22:45	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		11/05/24 09:30	11/07/24 22:45	1
Barium	**0.0318**		0.00200	0.000660	mg/L		11/05/24 09:30	11/07/24 22:45	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/05/24 09:30	11/07/24 22:45	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/05/24 09:30	11/07/24 22:45	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/05/24 09:30	11/07/24 22:45	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		11/05/24 09:30	11/07/24 22:45	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/05/24 09:30	11/07/24 22:45	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/05/24 09:30	11/07/24 22:45	1
Nickel	<0.00500		0.00500	0.00210	mg/L		11/05/24 09:30	11/07/24 22:45	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/05/24 09:30	11/07/24 22:45	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/05/24 09:30	11/07/24 22:45	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/05/24 09:30	11/07/24 22:45	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/05/24 09:30	11/07/24 22:45	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/05/24 09:30	11/07/24 22:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.39	mg/L			10/30/24 13:07	1

Client Sample ID: Trip Blank 1
Date Collected: 10/24/24 00:00
Date Received: 10/26/24 16:25

Lab Sample ID: 310-293778-14
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/31/24 07:05	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/31/24 07:05	1
Benzene	<0.500		0.500	0.220	ug/L			10/31/24 07:05	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/31/24 07:05	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/31/24 07:05	1
Bromoform	<5.00		5.00	0.780	ug/L			10/31/24 07:05	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/31/24 07:05	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/31/24 07:05	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/31/24 07:05	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/31/24 07:05	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/31/24 07:05	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/31/24 07:05	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/31/24 07:05	1
Chloroform	<3.00		3.00	1.30	ug/L			10/31/24 07:05	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/31/24 07:05	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/31/24 07:05	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/31/24 07:05	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			10/31/24 07:05	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			10/31/24 07:05	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/31/24 07:05	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/31/24 07:05	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/31/24 07:05	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/31/24 07:05	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/31/24 07:05	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/31/24 07:05	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/31/24 07:05	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/31/24 07:05	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/31/24 07:05	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/01/24 13:42	1
Methylene chloride	<5.00		5.00	1.70	ug/L			10/31/24 07:05	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/31/24 07:05	1
Styrene	<1.00		1.00	0.370	ug/L			10/31/24 07:05	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/31/24 07:05	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/31/24 07:05	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/31/24 07:05	1
Toluene	<1.00		1.00	0.430	ug/L			10/31/24 07:05	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/31/24 07:05	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/31/24 07:05	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/31/24 07:05	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/31/24 07:05	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/31/24 07:05	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/31/24 07:05	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/31/24 07:05	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/31/24 07:05	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/31/24 07:05	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/31/24 07:05	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/31/24 07:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*10/31/24 07:05*	*1*

Client: SCS Engineers
Project/Site: Cherokee County Fall 2024 GW

Job ID: 310-293778-1
SDG: Cherokee County Landfill

Client Sample ID: Trip Blank 1
Date Collected: 10/24/24 00:00
Date Received: 10/26/24 16:25

Lab Sample ID: 310-293778-14
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		11/01/24 13:42	1
Dibromofluoromethane (Surr)	100		73 - 130		10/31/24 07:05	1
Dibromofluoromethane (Surr)	100		73 - 130		11/01/24 13:42	1
Toluene-d8 (Surr)	97		80 - 120		10/31/24 07:05	1
Toluene-d8 (Surr)	96		80 - 120		11/01/24 13:42	1

Client: SCS Engineers
Project/Site: Cherokee County Fall 2024 GW

Job ID: 310-293778-1
SDG: Cherokee County Landfill

Client Sample ID: Trip Blank 2
Date Collected: 10/24/24 00:00
Date Received: 10/26/24 16:25

Lab Sample ID: 310-293778-15
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/31/24 12:58	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/31/24 12:58	1
Benzene	<0.500		0.500	0.220	ug/L			10/31/24 12:58	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/31/24 12:58	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/31/24 12:58	1
Bromoform	<5.00		5.00	0.780	ug/L			10/31/24 12:58	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/31/24 12:58	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/31/24 12:58	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/31/24 12:58	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/31/24 12:58	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/31/24 12:58	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/31/24 12:58	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/31/24 12:58	1
Chloroform	<3.00		3.00	1.30	ug/L			10/31/24 12:58	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/31/24 12:58	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/31/24 12:58	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/31/24 12:58	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			10/31/24 12:58	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			10/31/24 12:58	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/31/24 12:58	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/31/24 12:58	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/31/24 12:58	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/31/24 12:58	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/31/24 12:58	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/31/24 12:58	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/31/24 12:58	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/31/24 12:58	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/31/24 12:58	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/31/24 12:58	1
Methylene chloride	<5.00		5.00	1.70	ug/L			10/31/24 12:58	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/31/24 12:58	1
Styrene	<1.00		1.00	0.370	ug/L			10/31/24 12:58	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/31/24 12:58	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/31/24 12:58	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/31/24 12:58	1
Toluene	<1.00		1.00	0.430	ug/L			10/31/24 12:58	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/31/24 12:58	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/31/24 12:58	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/31/24 12:58	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/31/24 12:58	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/31/24 12:58	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/31/24 12:58	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/31/24 12:58	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/31/24 12:58	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/31/24 12:58	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/31/24 12:58	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/31/24 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*10/31/24 12:58*	*1*

Client Sample ID: Trip Blank 2
Date Collected: 10/24/24 00:00
Date Received: 10/26/24 16:25

Lab Sample ID: 310-293778-15
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*99*		*73 - 130*		*10/31/24 12:58*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*10/31/24 12:58*	*1*

Qualifiers

GC/MS VOA

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

Metals

Qualifier	Qualifier Description
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: Cherokee County Fall 2024 GW

Job ID: 310-293778-1
SDG: Cherokee County Landfill

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(73-130)	(80-120)
310-293778-1	MW-16	101	101	96
310-293778-1	MW-16	101	103	102
310-293778-2	MW-27	100	101	97
310-293778-2	MW-27	100	102	96
310-293778-3	MW-35	101	101	96
310-293778-3	MW-35	102	104	95
310-293778-4	MW-42R	101	101	97
310-293778-4	MW-42R	98	103	96
310-293778-5	MW-15C	99	101	96
310-293778-5	MW-15C	100	103	96
310-293778-6	MW-44	106	102	92
310-293778-6	MW-44	102	103	96
310-293778-7	MW-14R	101	102	97
310-293778-7	MW-14R	101	104	95
310-293778-8	MW-15R	103	102	97
310-293778-8	MW-15R	100	103	103
310-293778-9	MW-39	99	102	96
310-293778-9	MW-39	101	102	96
310-293778-10	MW-40	99	103	97
310-293778-11	MW-43	99	101	96
310-293778-12	MW-D	101	101	96
310-293778-12	MW-D	101	102	98
310-293778-14	Trip Blank 1	100	100	97
310-293778-14	Trip Blank 1	101	100	96
310-293778-15	Trip Blank 2	102	99	103
LCS 310-437919/7	Lab Control Sample	100	101	97
LCS 310-438078/6	Lab Control Sample	100	99	99
LCS 310-438078/7	Lab Control Sample	100	101	97
LCS 310-438190/6	Lab Control Sample	99	95	108
LCS 310-438190/7	Lab Control Sample	101	100	106
LCS 310-438391/6	Lab Control Sample	104	101	98
LCS 310-438391/7	Lab Control Sample	102	102	99
MB 310-437919/5	Method Blank	100	102	96
MB 310-438078/5	Method Blank	100	100	96
MB 310-438190/5	Method Blank	103	98	104
MB 310-438391/5	Method Blank	107	102	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

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

Lab Sample ID: MB 310-437919/5
Matrix: Water
Analysis Batch: 437919

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/30/24 07:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*10/30/24 07:13*	*1*
Dibromofluoromethane (Surr)	*102*		*73 - 130*		*10/30/24 07:13*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/30/24 07:13*	*1*

Lab Sample ID: LCS 310-437919/7
Matrix: Water
Analysis Batch: 437919

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	20.0	17.71		ug/L		89	56 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*73 - 130*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: MB 310-438078/5
Matrix: Water
Analysis Batch: 438078

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/31/24 05:11	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/31/24 05:11	1
Benzene	<0.500		0.500	0.220	ug/L			10/31/24 05:11	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/31/24 05:11	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/31/24 05:11	1
Bromoform	<5.00		5.00	0.780	ug/L			10/31/24 05:11	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/31/24 05:11	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/31/24 05:11	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/31/24 05:11	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/31/24 05:11	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/31/24 05:11	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/31/24 05:11	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/31/24 05:11	1
Chloroform	<3.00		3.00	1.30	ug/L			10/31/24 05:11	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/31/24 05:11	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/31/24 05:11	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/31/24 05:11	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			10/31/24 05:11	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			10/31/24 05:11	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/31/24 05:11	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/31/24 05:11	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/31/24 05:11	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/31/24 05:11	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/31/24 05:11	1

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

Lab Sample ID: MB 310-438078/5
Matrix: Water
Analysis Batch: 438078

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/31/24 05:11	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/31/24 05:11	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/31/24 05:11	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/31/24 05:11	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/31/24 05:11	1
Methylene chloride	<5.00		5.00	1.70	ug/L			10/31/24 05:11	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/31/24 05:11	1
Styrene	<1.00		1.00	0.370	ug/L			10/31/24 05:11	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/31/24 05:11	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/31/24 05:11	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/31/24 05:11	1
Toluene	<1.00		1.00	0.430	ug/L			10/31/24 05:11	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/31/24 05:11	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/31/24 05:11	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/31/24 05:11	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/31/24 05:11	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/31/24 05:11	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/31/24 05:11	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/31/24 05:11	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/31/24 05:11	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/31/24 05:11	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/31/24 05:11	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/31/24 05:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*10/31/24 05:11*	*1*
Dibromofluoromethane (Surr)	*100*		*73 - 130*		*10/31/24 05:11*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/31/24 05:11*	*1*

Lab Sample ID: LCS 310-438078/6
Matrix: Water
Analysis Batch: 438078

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	40.0	37.39		ug/L		93	50 - 150
Acrylonitrile	200	214.1		ug/L		107	50 - 150
Benzene	20.0	21.34		ug/L		107	72 - 124
Bromochloromethane	20.0	21.41		ug/L		107	73 - 130
Bromodichloromethane	20.0	20.27		ug/L		101	74 - 122
Bromoform	20.0	20.03		ug/L		100	61 - 122
2-Butanone (MEK)	40.0	39.44		ug/L		99	50 - 150
Carbon disulfide	20.0	20.96		ug/L		105	59 - 135
Carbon tetrachloride	20.0	21.35		ug/L		107	67 - 132
Chlorobenzene	20.0	20.99		ug/L		105	76 - 120
Chlorodibromomethane	20.0	20.35		ug/L		102	71 - 121
Chloroform	20.0	19.65		ug/L		98	72 - 125
cis-1,2-Dichloroethene	20.0	20.95		ug/L		105	74 - 123
cis-1,3-Dichloropropene	20.0	20.13		ug/L		101	71 - 125

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

Lab Sample ID: LCS 310-438078/6
Matrix: Water
Analysis Batch: 438078

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-chloropropane	20.0	20.78		ug/L		104	50 - 150
1,2-Dibromoethane (EDB)	20.0	21.38		ug/L		107	75 - 125
Dibromomethane	20.0	20.97		ug/L		105	74 - 125
1,2-Dichlorobenzene	20.0	20.95		ug/L		105	74 - 120
1,4-Dichlorobenzene	20.0	20.82		ug/L		104	72 - 120
1,1-Dichloroethane	20.0	20.84		ug/L		104	70 - 127
1,2-Dichloroethane	20.0	19.41		ug/L		97	71 - 125
1,1-Dichloroethene	20.0	21.20		ug/L		106	63 - 132
1,2-Dichloropropane	20.0	21.16		ug/L		106	73 - 124
Ethylbenzene	20.0	21.24		ug/L		106	74 - 122
2-Hexanone	40.0	39.93		ug/L		100	60 - 140
Iodomethane	20.0	9.404	J	ug/L		47	10 - 150
Methylene chloride	20.0	21.04		ug/L		105	50 - 150
4-Methyl-2-pentanone (MIBK)	40.0	40.85		ug/L		102	60 - 139
Styrene	20.0	21.80		ug/L		109	74 - 121
1,1,1,2-Tetrachloroethane	20.0	20.47		ug/L		102	71 - 120
1,1,2,2-Tetrachloroethane	20.0	21.41		ug/L		107	68 - 124
Tetrachloroethene	20.0	21.59		ug/L		108	71 - 130
Toluene	20.0	20.87		ug/L		104	74 - 123
trans-1,4-Dichloro-2-butene	20.0	18.03		ug/L		90	50 - 150
trans-1,2-Dichloroethene	20.0	21.20		ug/L		106	70 - 126
trans-1,3-Dichloropropene	20.0	20.13		ug/L		101	69 - 123
1,1,1-Trichloroethane	20.0	20.92		ug/L		105	73 - 129
1,1,2-Trichloroethane	20.0	21.18		ug/L		106	73 - 123
Trichloroethene	20.0	21.35		ug/L		107	72 - 126
1,2,3-Trichloropropane	20.0	20.97		ug/L		105	65 - 127
Vinyl acetate	40.0	39.57		ug/L		99	50 - 150
Xylenes, Total	40.0	42.56		ug/L		106	73 - 123

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

Lab Sample ID: LCS 310-438078/7
Matrix: Water
Analysis Batch: 438078

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	15.81		ug/L		79	23 - 150
Chloroethane	20.0	17.99		ug/L		90	54 - 136
Chloromethane	20.0	19.13		ug/L		96	38 - 150
Trichlorofluoromethane	20.0	21.02		ug/L		105	54 - 149
Vinyl chloride	20.0	19.27		ug/L		96	56 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*73 - 130*

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

Lab Sample ID: LCS 310-438078/7
Matrix: Water
Analysis Batch: 438078

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	97		80 - 120

Lab Sample ID: MB 310-438190/5
Matrix: Water
Analysis Batch: 438190

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/31/24 09:57	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/31/24 09:57	1
Benzene	<0.500		0.500	0.220	ug/L			10/31/24 09:57	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/31/24 09:57	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/31/24 09:57	1
Bromoform	<5.00		5.00	0.780	ug/L			10/31/24 09:57	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/31/24 09:57	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/31/24 09:57	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/31/24 09:57	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/31/24 09:57	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/31/24 09:57	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/31/24 09:57	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/31/24 09:57	1
Chloroform	<3.00		3.00	1.30	ug/L			10/31/24 09:57	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/31/24 09:57	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/31/24 09:57	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/31/24 09:57	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			10/31/24 09:57	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			10/31/24 09:57	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/31/24 09:57	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/31/24 09:57	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/31/24 09:57	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/31/24 09:57	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/31/24 09:57	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/31/24 09:57	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/31/24 09:57	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/31/24 09:57	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/31/24 09:57	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/31/24 09:57	1
Methylene chloride	<5.00		5.00	1.70	ug/L			10/31/24 09:57	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/31/24 09:57	1
Styrene	<1.00		1.00	0.370	ug/L			10/31/24 09:57	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/31/24 09:57	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/31/24 09:57	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/31/24 09:57	1
Toluene	<1.00		1.00	0.430	ug/L			10/31/24 09:57	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/31/24 09:57	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/31/24 09:57	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/31/24 09:57	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/31/24 09:57	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/31/24 09:57	1

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

Lab Sample ID: MB 310-438190/5
Matrix: Water
Analysis Batch: 438190

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<1.00		1.00	0.430	ug/L			10/31/24 09:57	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/31/24 09:57	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/31/24 09:57	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/31/24 09:57	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/31/24 09:57	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/31/24 09:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*10/31/24 09:57*	*1*
Dibromofluoromethane (Surr)	*98*		*73 - 130*		*10/31/24 09:57*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*10/31/24 09:57*	*1*

Lab Sample ID: LCS 310-438190/6
Matrix: Water
Analysis Batch: 438190

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	40.0	35.16		ug/L		88	50 - 150
Acrylonitrile	200	182.9		ug/L		91	50 - 150
Benzene	20.0	17.78		ug/L		89	72 - 124
Bromochloromethane	20.0	17.43		ug/L		87	73 - 130
Bromodichloromethane	20.0	16.92		ug/L		85	74 - 122
Bromoform	20.0	17.32		ug/L		87	61 - 122
2-Butanone (MEK)	40.0	35.63		ug/L		89	50 - 150
Carbon disulfide	20.0	16.80		ug/L		84	59 - 135
Carbon tetrachloride	20.0	17.07		ug/L		85	67 - 132
Chlorobenzene	20.0	19.47		ug/L		97	76 - 120
Chlorodibromomethane	20.0	16.20		ug/L		81	71 - 121
Chloroform	20.0	18.10		ug/L		91	72 - 125
cis-1,2-Dichloroethene	20.0	18.08		ug/L		90	74 - 123
cis-1,3-Dichloropropene	20.0	17.63		ug/L		88	71 - 125
1,2-Dibromo-3-chloropropane	20.0	19.98		ug/L		100	50 - 150
1,2-Dibromoethane (EDB)	20.0	17.85		ug/L		89	75 - 125
Dibromomethane	20.0	17.09		ug/L		85	74 - 125
1,2-Dichlorobenzene	20.0	19.83		ug/L		99	74 - 120
1,4-Dichlorobenzene	20.0	20.18		ug/L		101	72 - 120
1,1-Dichloroethane	20.0	18.05		ug/L		90	70 - 127
1,2-Dichloroethane	20.0	17.43		ug/L		87	71 - 125
1,1-Dichloroethene	20.0	17.51		ug/L		88	63 - 132
1,2-Dichloropropane	20.0	18.95		ug/L		95	73 - 124
Ethylbenzene	20.0	19.70		ug/L		99	74 - 122
2-Hexanone	40.0	39.55		ug/L		99	60 - 140
Iodomethane	20.0	17.97		ug/L		90	10 - 150
Methylene chloride	20.0	17.93		ug/L		90	50 - 150
4-Methyl-2-pentanone (MIBK)	40.0	37.82		ug/L		95	60 - 139
Styrene	20.0	20.07		ug/L		100	74 - 121
1,1,1,2-Tetrachloroethane	20.0	19.66		ug/L		98	71 - 120
1,1,2,2-Tetrachloroethane	20.0	20.25		ug/L		101	68 - 124

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

Lab Sample ID: LCS 310-438190/6
Matrix: Water
Analysis Batch: 438190

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Tetrachloroethene	20.0	16.63		ug/L		83	71 - 130
Toluene	20.0	17.11		ug/L		86	74 - 123
trans-1,4-Dichloro-2-butene	20.0	16.87		ug/L		84	50 - 150
trans-1,2-Dichloroethene	20.0	17.46		ug/L		87	70 - 126
trans-1,3-Dichloropropene	20.0	16.92		ug/L		85	69 - 123
1,1,1-Trichloroethane	20.0	17.47		ug/L		87	73 - 129
1,1,2-Trichloroethane	20.0	18.52		ug/L		93	73 - 123
Trichloroethene	20.0	17.03		ug/L		85	72 - 126
1,2,3-Trichloropropane	20.0	20.56		ug/L		103	65 - 127
Vinyl acetate	40.0	31.93		ug/L		80	50 - 150
Xylenes, Total	40.0	39.48		ug/L		99	73 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*95*		*73 - 130*
Toluene-d8 (Surr)	*108*		*80 - 120*

Lab Sample ID: LCS 310-438190/7
Matrix: Water
Analysis Batch: 438190

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	21.97		ug/L		110	23 - 150
Chloroethane	20.0	18.62		ug/L		93	54 - 136
Chloromethane	20.0	19.70		ug/L		99	38 - 150
Trichlorofluoromethane	20.0	19.02		ug/L		95	54 - 149
Vinyl chloride	20.0	19.75		ug/L		99	56 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*73 - 130*
Toluene-d8 (Surr)	*106*		*80 - 120*

Lab Sample ID: MB 310-438391/5
Matrix: Water
Analysis Batch: 438391

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			11/01/24 12:10	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/01/24 12:10	1
Benzene	<0.500		0.500	0.220	ug/L			11/01/24 12:10	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			11/01/24 12:10	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/01/24 12:10	1
Bromoform	<5.00		5.00	0.780	ug/L			11/01/24 12:10	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/01/24 12:10	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			11/01/24 12:10	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/01/24 12:10	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/01/24 12:10	1

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

Lab Sample ID: MB 310-438391/5
Matrix: Water
Analysis Batch: 438391

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.00		1.00	0.400	ug/L			11/01/24 12:10	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			11/01/24 12:10	1
Chloroethane	<4.00		4.00	0.790	ug/L			11/01/24 12:10	1
Chloroform	<3.00		3.00	1.30	ug/L			11/01/24 12:10	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/01/24 12:10	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			11/01/24 12:10	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			11/01/24 12:10	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/01/24 12:10	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/01/24 12:10	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/01/24 12:10	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/01/24 12:10	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			11/01/24 12:10	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			11/01/24 12:10	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			11/01/24 12:10	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			11/01/24 12:10	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			11/01/24 12:10	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			11/01/24 12:10	1
2-Hexanone	<10.0		10.0	2.00	ug/L			11/01/24 12:10	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/01/24 12:10	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/01/24 12:10	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			11/01/24 12:10	1
Styrene	<1.00		1.00	0.370	ug/L			11/01/24 12:10	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/01/24 12:10	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			11/01/24 12:10	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/01/24 12:10	1
Toluene	<1.00		1.00	0.430	ug/L			11/01/24 12:10	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			11/01/24 12:10	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			11/01/24 12:10	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			11/01/24 12:10	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			11/01/24 12:10	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			11/01/24 12:10	1
Trichloroethene	<1.00		1.00	0.430	ug/L			11/01/24 12:10	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			11/01/24 12:10	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			11/01/24 12:10	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			11/01/24 12:10	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			11/01/24 12:10	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			11/01/24 12:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*11/01/24 12:10*	*1*
Dibromofluoromethane (Surr)	*102*		*73 - 130*		*11/01/24 12:10*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/01/24 12:10*	*1*

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

Lab Sample ID: LCS 310-438391/6
Matrix: Water
Analysis Batch: 438391

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	40.0	34.92		ug/L		87	50 - 150
Acrylonitrile	200	195.2		ug/L		98	50 - 150
Benzene	20.0	20.72		ug/L		104	72 - 124
Bromochloromethane	20.0	20.75		ug/L		104	73 - 130
Bromodichloromethane	20.0	20.13		ug/L		101	74 - 122
Bromoform	20.0	20.55		ug/L		103	61 - 122
2-Butanone (MEK)	40.0	36.48		ug/L		91	50 - 150
Carbon disulfide	20.0	21.05		ug/L		105	59 - 135
Carbon tetrachloride	20.0	22.10		ug/L		111	67 - 132
Chlorobenzene	20.0	20.22		ug/L		101	76 - 120
Chlorodibromomethane	20.0	20.09		ug/L		100	71 - 121
Chloroform	20.0	19.59		ug/L		98	72 - 125
cis-1,2-Dichloroethene	20.0	20.86		ug/L		104	74 - 123
cis-1,3-Dichloropropene	20.0	20.23		ug/L		101	71 - 125
1,2-Dibromo-3-chloropropane	20.0	19.35		ug/L		97	50 - 150
1,2-Dibromoethane (EDB)	20.0	19.82		ug/L		99	75 - 125
Dibromomethane	20.0	19.99		ug/L		100	74 - 125
1,2-Dichlorobenzene	20.0	20.26		ug/L		101	74 - 120
1,4-Dichlorobenzene	20.0	20.21		ug/L		101	72 - 120
1,1-Dichloroethane	20.0	20.83		ug/L		104	70 - 127
1,2-Dichloroethane	20.0	18.66		ug/L		93	71 - 125
1,1-Dichloroethene	20.0	21.39		ug/L		107	63 - 132
1,2-Dichloropropane	20.0	20.16		ug/L		101	73 - 124
Ethylbenzene	20.0	20.74		ug/L		104	74 - 122
2-Hexanone	40.0	35.81		ug/L		90	60 - 140
Iodomethane	20.0	10.80		ug/L		54	10 - 150
Methylene chloride	20.0	19.72		ug/L		99	50 - 150
4-Methyl-2-pentanone (MIBK)	40.0	36.01		ug/L		90	60 - 139
Styrene	20.0	21.05		ug/L		105	74 - 121
1,1,1,2-Tetrachloroethane	20.0	20.42		ug/L		102	71 - 120
1,1,2,2-Tetrachloroethane	20.0	19.87		ug/L		99	68 - 124
Tetrachloroethene	20.0	21.36		ug/L		107	71 - 130
Toluene	20.0	20.03		ug/L		100	74 - 123
trans-1,4-Dichloro-2-butene	20.0	19.35		ug/L		97	50 - 150
trans-1,2-Dichloroethene	20.0	21.14		ug/L		106	70 - 126
trans-1,3-Dichloropropene	20.0	20.16		ug/L		101	69 - 123
1,1,1-Trichloroethane	20.0	21.15		ug/L		106	73 - 129
1,1,2-Trichloroethane	20.0	19.58		ug/L		98	73 - 123
Trichloroethene	20.0	21.25		ug/L		106	72 - 126
1,2,3-Trichloropropane	20.0	19.51		ug/L		98	65 - 127
Vinyl acetate	40.0	40.52		ug/L		101	50 - 150
Xylenes, Total	40.0	41.17		ug/L		103	73 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*73 - 130*
Toluene-d8 (Surr)	*98*		*80 - 120*

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

Lab Sample ID: LCS 310-438391/7
Matrix: Water
Analysis Batch: 438391

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	14.70		ug/L		74	23 - 150
Chloroethane	20.0	18.69		ug/L		93	54 - 136
Chloromethane	20.0	19.70		ug/L		99	38 - 150
Trichlorofluoromethane	20.0	22.79		ug/L		114	54 - 149
Vinyl chloride	20.0	20.17		ug/L		101	56 - 140

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

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-438626/1-A
Matrix: Water
Analysis Batch: 439075

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 438626

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/05/24 09:30	11/07/24 21:49	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		11/05/24 09:30	11/07/24 21:49	1
Barium	<0.00200		0.00200	0.000660	mg/L		11/05/24 09:30	11/07/24 21:49	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/05/24 09:30	11/07/24 21:49	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/05/24 09:30	11/07/24 21:49	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/05/24 09:30	11/07/24 21:49	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		11/05/24 09:30	11/07/24 21:49	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/05/24 09:30	11/07/24 21:49	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/05/24 09:30	11/07/24 21:49	1
Nickel	<0.00500		0.00500	0.00210	mg/L		11/05/24 09:30	11/07/24 21:49	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/05/24 09:30	11/07/24 21:49	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/05/24 09:30	11/07/24 21:49	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/05/24 09:30	11/07/24 21:49	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/05/24 09:30	11/07/24 21:49	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/05/24 09:30	11/07/24 21:49	1

Lab Sample ID: LCS 310-438626/2-A
Matrix: Water
Analysis Batch: 439075

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 438626

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.1867		mg/L		93	80 - 120
Arsenic	0.200	0.1983		mg/L		99	80 - 120
Barium	0.100	0.09701		mg/L		97	80 - 120
Beryllium	0.100	0.1005		mg/L		100	80 - 120
Cadmium	0.100	0.09395		mg/L		94	80 - 120
Chromium	0.100	0.1040		mg/L		104	80 - 120
Cobalt	0.100	0.1018		mg/L		102	80 - 120
Copper	0.200	0.2093		mg/L		105	80 - 120
Lead	0.200	0.2117		mg/L		106	80 - 120
Nickel	0.200	0.2067		mg/L		103	80 - 120

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

Lab Sample ID: LCS 310-438626/2-A
Matrix: Water
Analysis Batch: 439075

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 438626

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Selenium			0.400	0.3819		mg/L		95	80 - 120		
Silver			0.100	0.1191		mg/L		119	80 - 120		
Thallium			0.100	0.1150		mg/L		115	80 - 120		
Vanadium			0.100	0.1018		mg/L		102	80 - 120		
Zinc			0.200	0.1925		mg/L		96	80 - 120		

Lab Sample ID: 310-293778-1 MS
Matrix: Water
Analysis Batch: 439075

Client Sample ID: MW-16
Prep Type: Total/NA
Prep Batch: 438626

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Antimony	<0.00200		0.200	0.1991		mg/L		100	75 - 125		
Arsenic	<0.00200		0.200	0.2057		mg/L		103	75 - 125		
Barium	0.171		0.100	0.2767		mg/L		105	75 - 125		
Beryllium	<0.00100		0.100	0.1035		mg/L		103	75 - 125		
Cadmium	<0.000200		0.100	0.09748		mg/L		97	75 - 125		
Chromium	<0.00500		0.100	0.1017		mg/L		102	75 - 125		
Cobalt	<0.000500		0.100	0.09909		mg/L		99	75 - 125		
Copper	<0.00500		0.200	0.2006		mg/L		100	75 - 125		
Lead	<0.000500		0.200	0.2056		mg/L		103	75 - 125		
Nickel	0.00784		0.200	0.2055		mg/L		99	75 - 125		
Selenium	<0.00500		0.400	0.3974		mg/L		99	75 - 125		
Silver	<0.00100		0.100	0.1124		mg/L		112	75 - 125		
Thallium	<0.00100		0.100	0.1096		mg/L		110	75 - 125		
Vanadium	<0.00500		0.100	0.1037		mg/L		104	75 - 125		
Zinc	<0.0200		0.200	0.1902		mg/L		95	75 - 125		

Lab Sample ID: 310-293778-1 MSD
Matrix: Water
Analysis Batch: 439075

Client Sample ID: MW-16
Prep Type: Total/NA
Prep Batch: 438626

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00200		0.200	0.1979		mg/L		99	75 - 125	1	20
Arsenic	<0.00200		0.200	0.2054		mg/L		103	75 - 125	0	20
Barium	0.171		0.100	0.2779		mg/L		106	75 - 125	0	20
Beryllium	<0.00100		0.100	0.1055		mg/L		105	75 - 125	2	20
Cadmium	<0.000200		0.100	0.09781		mg/L		98	75 - 125	0	20
Chromium	<0.00500		0.100	0.1025		mg/L		102	75 - 125	1	20
Cobalt	<0.000500		0.100	0.09997		mg/L		100	75 - 125	1	20
Copper	<0.00500		0.200	0.2037		mg/L		102	75 - 125	2	20
Lead	<0.000500		0.200	0.2089		mg/L		104	75 - 125	2	20
Nickel	0.00784		0.200	0.2070		mg/L		100	75 - 125	1	20
Selenium	<0.00500		0.400	0.4021		mg/L		101	75 - 125	1	20
Silver	<0.00100		0.100	0.1143		mg/L		114	75 - 125	2	20
Thallium	<0.00100		0.100	0.1110		mg/L		111	75 - 125	1	20
Vanadium	<0.00500		0.100	0.1041		mg/L		104	75 - 125	0	20
Zinc	<0.0200		0.200	0.1902		mg/L		95	75 - 125	0	20

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

Lab Sample ID: 310-293778-11 DU
Matrix: Water
Analysis Batch: 439075

Client Sample ID: MW-43
Prep Type: Total/NA
Prep Batch: 438626

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Antimony	<0.00200			<0.00200		mg/L				NC	20
Arsenic	0.00112	J		0.001107	J	mg/L				1	20
Barium	0.487			0.4936		mg/L				1	20
Beryllium	<0.00100			<0.00100		mg/L				NC	20
Cadmium	<0.000200			<0.000200		mg/L				NC	20
Chromium	<0.00500			<0.00500		mg/L				NC	20
Cobalt	0.000763			0.0007490		mg/L				2	20
Copper	<0.00500			<0.00500		mg/L				NC	20
Lead	<0.000500			<0.000500		mg/L				NC	20
Nickel	0.00553			0.005625		mg/L				2	20
Selenium	<0.00500			<0.00500		mg/L				NC	20
Silver	<0.00100			<0.00100		mg/L				NC	20
Thallium	<0.00100			<0.00100		mg/L				NC	20
Vanadium	<0.00500			<0.00500		mg/L				NC	20
Zinc	<0.0200			<0.0200		mg/L				NC	20

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

Lab Sample ID: MB 310-437897/1
Matrix: Water
Analysis Batch: 437897

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.70	mg/L			10/29/24 10:35	1

Lab Sample ID: LCS 310-437897/2
Matrix: Water
Analysis Batch: 437897

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			100	98.00		mg/L		98	81 - 116		

Lab Sample ID: MB 310-437903/1
Matrix: Water
Analysis Batch: 437903

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.70	mg/L			10/29/24 11:21	1

Lab Sample ID: LCS 310-437903/2
Matrix: Water
Analysis Batch: 437903

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			100	101.0		mg/L		101	81 - 116		

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

Lab Sample ID: MB 310-438098/1
Matrix: Water
Analysis Batch: 438098

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.70	mg/L			10/30/24 13:07	1

Lab Sample ID: LCS 310-438098/2
Matrix: Water
Analysis Batch: 438098

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	113.0		mg/L		113	81 - 116		

Lab Sample ID: 310-293778-10 DU
Matrix: Water
Analysis Batch: 438098

Client Sample ID: MW-40
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	51.0			53.00		mg/L				4	35

GC/MS VOA

Analysis Batch: 437919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293778-10	MW-40	Total/NA	Water	8260D	
310-293778-11	MW-43	Total/NA	Water	8260D	
MB 310-437919/5	Method Blank	Total/NA	Water	8260D	
LCS 310-437919/7	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 438078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293778-1	MW-16	Total/NA	Water	8260D	
310-293778-2	MW-27	Total/NA	Water	8260D	
310-293778-3	MW-35	Total/NA	Water	8260D	
310-293778-4	MW-42R	Total/NA	Water	8260D	
310-293778-5	MW-15C	Total/NA	Water	8260D	
310-293778-6	MW-44	Total/NA	Water	8260D	
310-293778-7	MW-14R	Total/NA	Water	8260D	
310-293778-8	MW-15R	Total/NA	Water	8260D	
310-293778-9	MW-39	Total/NA	Water	8260D	
310-293778-12	MW-D	Total/NA	Water	8260D	
310-293778-14	Trip Blank 1	Total/NA	Water	8260D	
MB 310-438078/5	Method Blank	Total/NA	Water	8260D	
LCS 310-438078/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-438078/7	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 438190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293778-15	Trip Blank 2	Total/NA	Water	8260D	
MB 310-438190/5	Method Blank	Total/NA	Water	8260D	
LCS 310-438190/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-438190/7	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 438391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293778-1	MW-16	Total/NA	Water	8260D	
310-293778-2	MW-27	Total/NA	Water	8260D	
310-293778-3	MW-35	Total/NA	Water	8260D	
310-293778-4	MW-42R	Total/NA	Water	8260D	
310-293778-5	MW-15C	Total/NA	Water	8260D	
310-293778-6	MW-44	Total/NA	Water	8260D	
310-293778-7	MW-14R	Total/NA	Water	8260D	
310-293778-8	MW-15R	Total/NA	Water	8260D	
310-293778-9	MW-39	Total/NA	Water	8260D	
310-293778-12	MW-D	Total/NA	Water	8260D	
310-293778-14	Trip Blank 1	Total/NA	Water	8260D	
MB 310-438391/5	Method Blank	Total/NA	Water	8260D	
LCS 310-438391/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-438391/7	Lab Control Sample	Total/NA	Water	8260D	

Metals

Prep Batch: 438626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293778-1	MW-16	Total/NA	Water	3005A	

Metals (Continued)

Prep Batch: 438626 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293778-2	MW-27	Total/NA	Water	3005A	
310-293778-3	MW-35	Total/NA	Water	3005A	
310-293778-4	MW-42R	Total/NA	Water	3005A	
310-293778-5	MW-15C	Total/NA	Water	3005A	
310-293778-6	MW-44	Total/NA	Water	3005A	
310-293778-7	MW-14R	Total/NA	Water	3005A	
310-293778-8	MW-15R	Total/NA	Water	3005A	
310-293778-9	MW-39	Total/NA	Water	3005A	
310-293778-10	MW-40	Total/NA	Water	3005A	
310-293778-11	MW-43	Total/NA	Water	3005A	
310-293778-12	MW-D	Total/NA	Water	3005A	
MB 310-438626/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-438626/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-293778-1 MS	MW-16	Total/NA	Water	3005A	
310-293778-1 MSD	MW-16	Total/NA	Water	3005A	
310-293778-11 DU	MW-43	Total/NA	Water	3005A	

Analysis Batch: 439075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293778-1	MW-16	Total/NA	Water	6020B	438626
310-293778-2	MW-27	Total/NA	Water	6020B	438626
310-293778-3	MW-35	Total/NA	Water	6020B	438626
310-293778-4	MW-42R	Total/NA	Water	6020B	438626
310-293778-5	MW-15C	Total/NA	Water	6020B	438626
310-293778-6	MW-44	Total/NA	Water	6020B	438626
310-293778-7	MW-14R	Total/NA	Water	6020B	438626
310-293778-8	MW-15R	Total/NA	Water	6020B	438626
310-293778-9	MW-39	Total/NA	Water	6020B	438626
310-293778-10	MW-40	Total/NA	Water	6020B	438626
310-293778-11	MW-43	Total/NA	Water	6020B	438626
310-293778-12	MW-D	Total/NA	Water	6020B	438626
MB 310-438626/1-A	Method Blank	Total/NA	Water	6020B	438626
LCS 310-438626/2-A	Lab Control Sample	Total/NA	Water	6020B	438626
310-293778-1 MS	MW-16	Total/NA	Water	6020B	438626
310-293778-1 MSD	MW-16	Total/NA	Water	6020B	438626
310-293778-11 DU	MW-43	Total/NA	Water	6020B	438626

Analysis Batch: 439156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293778-9	MW-39	Total/NA	Water	6020B	438626

General Chemistry

Analysis Batch: 437897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293778-4	MW-42R	Total/NA	Water	I-3765-85	
310-293778-7	MW-14R	Total/NA	Water	I-3765-85	
310-293778-8	MW-15R	Total/NA	Water	I-3765-85	
310-293778-9	MW-39	Total/NA	Water	I-3765-85	
MB 310-437897/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-437897/2	Lab Control Sample	Total/NA	Water	I-3765-85	

QC Association Summary

Client: SCS Engineers
Project/Site: Cherokee County Fall 2024 GW

Job ID: 310-293778-1
SDG: Cherokee County Landfill

General Chemistry

Analysis Batch: 437903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293778-5	MW-15C	Total/NA	Water	I-3765-85	
310-293778-6	MW-44	Total/NA	Water	I-3765-85	
310-293778-11	MW-43	Total/NA	Water	I-3765-85	
MB 310-437903/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-437903/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 438098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293778-1	MW-16	Total/NA	Water	I-3765-85	
310-293778-2	MW-27	Total/NA	Water	I-3765-85	
310-293778-3	MW-35	Total/NA	Water	I-3765-85	
310-293778-10	MW-40	Total/NA	Water	I-3765-85	
310-293778-12	MW-D	Total/NA	Water	I-3765-85	
MB 310-438098/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-438098/2	Lab Control Sample	Total/NA	Water	I-3765-85	
310-293778-10 DU	MW-40	Total/NA	Water	I-3765-85	

Lab Chronicle

Client: SCS Engineers
Project/Site: Cherokee County Fall 2024 GW

Job ID: 310-293778-1
SDG: Cherokee County Landfill

Client Sample ID: MW-16
Date Collected: 10/24/24 10:59
Date Received: 10/26/24 16:25

Lab Sample ID: 310-293778-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	438078	FE5V	EET CF	10/31/24 09:44
Total/NA	Analysis	8260D		1	438391	FE5V	EET CF	11/01/24 14:05
Total/NA	Prep	3005A			438626	F5MW	EET CF	11/05/24 09:30
Total/NA	Analysis	6020B		1	439075	A6US	EET CF	11/07/24 21:54
Total/NA	Analysis	I-3765-85		1	438098	DGU1	EET CF	10/30/24 13:07

Client Sample ID: MW-27
Date Collected: 10/24/24 09:52
Date Received: 10/26/24 16:25

Lab Sample ID: 310-293778-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	438078	FE5V	EET CF	10/31/24 10:07
Total/NA	Analysis	8260D		1	438391	FE5V	EET CF	11/01/24 14:27
Total/NA	Prep	3005A			438626	F5MW	EET CF	11/05/24 09:30
Total/NA	Analysis	6020B		1	439075	A6US	EET CF	11/07/24 22:03
Total/NA	Analysis	I-3765-85		1	438098	DGU1	EET CF	10/30/24 13:07

Client Sample ID: MW-35
Date Collected: 10/24/24 12:29
Date Received: 10/26/24 16:25

Lab Sample ID: 310-293778-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	438078	FE5V	EET CF	10/31/24 10:30
Total/NA	Analysis	8260D		1	438391	FE5V	EET CF	11/01/24 14:50
Total/NA	Prep	3005A			438626	F5MW	EET CF	11/05/24 09:30
Total/NA	Analysis	6020B		1	439075	A6US	EET CF	11/07/24 22:05
Total/NA	Analysis	I-3765-85		1	438098	DGU1	EET CF	10/30/24 13:07

Client Sample ID: MW-42R
Date Collected: 10/23/24 18:00
Date Received: 10/26/24 16:25

Lab Sample ID: 310-293778-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	438078	FE5V	EET CF	10/31/24 10:53
Total/NA	Analysis	8260D		1	438391	FE5V	EET CF	11/01/24 15:12
Total/NA	Prep	3005A			438626	F5MW	EET CF	11/05/24 09:30
Total/NA	Analysis	6020B		1	439075	A6US	EET CF	11/07/24 22:08
Total/NA	Analysis	I-3765-85		1	437897	DGU1	EET CF	10/29/24 10:35

Client Sample ID: MW-15C

Lab Sample ID: 310-293778-5

Date Collected: 10/23/24 16:35

Matrix: Water

Date Received: 10/26/24 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	438078	FE5V	EET CF	10/31/24 11:16
Total/NA	Analysis	8260D		1	438391	FE5V	EET CF	11/01/24 15:35
Total/NA	Prep	3005A			438626	F5MW	EET CF	11/05/24 09:30
Total/NA	Analysis	6020B		1	439075	A6US	EET CF	11/07/24 22:22
Total/NA	Analysis	I-3765-85		1	437903	DGU1	EET CF	10/29/24 11:21

Client Sample ID: MW-44

Lab Sample ID: 310-293778-6

Date Collected: 10/23/24 17:31

Matrix: Water

Date Received: 10/26/24 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	438078	FE5V	EET CF	10/31/24 11:39
Total/NA	Analysis	8260D		1	438391	FE5V	EET CF	11/01/24 15:58
Total/NA	Prep	3005A			438626	F5MW	EET CF	11/05/24 09:30
Total/NA	Analysis	6020B		1	439075	A6US	EET CF	11/07/24 22:25
Total/NA	Analysis	I-3765-85		1	437903	DGU1	EET CF	10/29/24 11:21

Client Sample ID: MW-14R

Lab Sample ID: 310-293778-7

Date Collected: 10/23/24 14:16

Matrix: Water

Date Received: 10/26/24 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	438078	FE5V	EET CF	10/31/24 12:02
Total/NA	Analysis	8260D		1	438391	FE5V	EET CF	11/01/24 16:21
Total/NA	Prep	3005A			438626	F5MW	EET CF	11/05/24 09:30
Total/NA	Analysis	6020B		1	439075	A6US	EET CF	11/07/24 22:28
Total/NA	Analysis	I-3765-85		1	437897	DGU1	EET CF	10/29/24 10:35

Client Sample ID: MW-15R

Lab Sample ID: 310-293778-8

Date Collected: 10/23/24 16:01

Matrix: Water

Date Received: 10/26/24 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	438078	FE5V	EET CF	10/31/24 12:24
Total/NA	Analysis	8260D		1	438391	FE5V	EET CF	11/01/24 16:43
Total/NA	Prep	3005A			438626	F5MW	EET CF	11/05/24 09:30
Total/NA	Analysis	6020B		1	439075	A6US	EET CF	11/07/24 22:31
Total/NA	Analysis	I-3765-85		1	437897	DGU1	EET CF	10/29/24 10:35

Lab Chronicle

Client: SCS Engineers
Project/Site: Cherokee County Fall 2024 GW

Job ID: 310-293778-1
SDG: Cherokee County Landfill

Client Sample ID: MW-39

Lab Sample ID: 310-293778-9
Date Collected: 10/23/24 14:53
Matrix: Water
Date Received: 10/26/24 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	438078	FE5V	EET CF	10/31/24 12:47
Total/NA	Analysis	8260D		1	438391	FE5V	EET CF	11/01/24 17:06
Total/NA	Prep	3005A			438626	F5MW	EET CF	11/05/24 09:30
Total/NA	Analysis	6020B		1	439075	A6US	EET CF	11/07/24 22:34
Total/NA	Prep	3005A			438626	F5MW	EET CF	11/05/24 09:30
Total/NA	Analysis	6020B		4	439156	A6US	EET CF	11/08/24 13:01
Total/NA	Analysis	I-3765-85		1	437897	DGU1	EET CF	10/29/24 10:35

Client Sample ID: MW-40

Lab Sample ID: 310-293778-10
Date Collected: 10/24/24 08:32
Matrix: Water
Date Received: 10/26/24 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	437919	FE5V	EET CF	10/30/24 09:30
Total/NA	Prep	3005A			438626	F5MW	EET CF	11/05/24 09:30
Total/NA	Analysis	6020B		1	439075	A6US	EET CF	11/07/24 22:37
Total/NA	Analysis	I-3765-85		1	438098	DGU1	EET CF	10/30/24 13:07

Client Sample ID: MW-43

Lab Sample ID: 310-293778-11
Date Collected: 10/23/24 15:26
Matrix: Water
Date Received: 10/26/24 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	437919	FE5V	EET CF	10/30/24 09:53
Total/NA	Prep	3005A			438626	F5MW	EET CF	11/05/24 09:30
Total/NA	Analysis	6020B		1	439075	A6US	EET CF	11/07/24 22:39
Total/NA	Analysis	I-3765-85		1	437903	DGU1	EET CF	10/29/24 11:21

Client Sample ID: MW-D

Lab Sample ID: 310-293778-12
Date Collected: 10/24/24 09:52
Matrix: Water
Date Received: 10/26/24 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	438078	FE5V	EET CF	10/31/24 13:10
Total/NA	Analysis	8260D		1	438391	FE5V	EET CF	11/01/24 17:29
Total/NA	Prep	3005A			438626	F5MW	EET CF	11/05/24 09:30
Total/NA	Analysis	6020B		1	439075	A6US	EET CF	11/07/24 22:45
Total/NA	Analysis	I-3765-85		1	438098	DGU1	EET CF	10/30/24 13:07

Client Sample ID: Trip Blank 1

Lab Sample ID: 310-293778-14
Date Collected: 10/24/24 00:00
Matrix: Water
Date Received: 10/26/24 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	438078	FE5V	EET CF	10/31/24 07:05

Lab Chronicle

Client: SCS Engineers
Project/Site: Cherokee County Fall 2024 GW

Job ID: 310-293778-1
SDG: Cherokee County Landfill

Client Sample ID: Trip Blank 1

Lab Sample ID: 310-293778-14

Date Collected: 10/24/24 00:00
Matrix: Water
Date Received: 10/26/24 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	438391	FE5V	EET CF	11/01/24 13:42

Client Sample ID: Trip Blank 2

Lab Sample ID: 310-293778-15

Date Collected: 10/24/24 00:00
Matrix: Water
Date Received: 10/26/24 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	438190	WSE8	EET CF	10/31/24 12:58

Laboratory References:

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

Accreditation/Certification Summary

Client: SCS Engineers
Job ID: 310-293778-1
Project/Site: Cherokee County Fall 2024 GW
SDG: Cherokee County Landfill

Laboratory: Eurofins Cedar Falls

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

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

Method Summary

Client: SCS Engineers
Project/Site: Cherokee County Fall 2024 GW

Job ID: 310-293778-1
SDG: Cherokee County Landfill

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
6020B	Metals (ICP/MS)	SW846	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
5030B	Purge and Trap	SW846	EET CF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

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

eurofins | Environment Testing America

310-293778 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS Engineers

City/State: CITY | STATE | Project:

Receipt Information

Date/Time Received: DATE 10-25-24 | TIME 1625 | Received By: CGC

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☑ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☑ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☑ Yes ☐ No *If yes:* Cooler # 1 of 2

Cooler Custody Seals Present? ☐ Yes ☑ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☑ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? HCl ☑ Yes ☐ No *If yes:* Which VOA samples are in cooler? ↓

MW-16, MW-27, MW-35, MW-44, MW-40, MW-15C, MW-42R

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: P | Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 1.8 | Corrected Temp (°C): 1.8

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g , bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE. If yes, contact PM before proceeding If no, proceed with login

Additional Comments

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS Engineers

City/State: | CITY | STATE IA | Project:

Receipt Information

Date/Time Received: DATE 10.25.24 TIME 1625 | Received By: CGC

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☑ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☑ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☑ Yes ☐ No *If yes:* Cooler # 2 of 2

Cooler Custody Seals Present? ☐ Yes ☑ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☑ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? HCl ☑ Yes ☐ No *If yes:* Which VOA samples are in cooler? ↓

MW-14R, MW-15R, MW-39, MW-43, MW-D

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE

Thermometer ID: P | Correction Factor (°C): 0

• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 1.6 | Corrected Temp (°C): 1.6

• Sample Container Temperature

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE: If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

Eurofins TestAmerica, Cedar Falls
3019 Venture Way

Cedar Falls, IA 50613-6907
phone 319.277.2401 fax 319.277.2425

TestAmerica Des Moines SC

Chain of Custody Record

Eurofins

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☐Other

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact	Project Manager:	Site Contact:	Date:	COC No.
SCS Engineers	Email. smarczewski@scsengineers.com	Lab Contact:	Carrier:	_____ of _____ COCs
Sean Marczewski	Cell· 712-661-9682			Sampler·
1690 All-State Court, Suite 100	**Analysis Turnaround Time**			**For Lab Use Only:**
West Des Moines, IA 50265	☐CALENDAR DAYS ☐WORKING DAYS			Walk-in Client:
	Other:_____			Lab Sampling
Project Name. Cherokee County Fall 2024 GW	☐ 2 weeks			
Site. Cherokee County Landfill	☐ 1 week			Job / SDG No.
P O # 27223105 25	☐ 2 days			
	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Appendix I	Total Suspended Solids	Arsenic	Barium	Cobalt	Vinyl Chloride	Trip Blank	Sample Specific Notes.
MW-16	10/24/24	10:59	G					X	X						
MW-27	10/24/24	9:52	G					X	X						
MW-35	10/24/24	12:29	G					X	X						
MW-42R	10/23/24	18:00	G					X	X						
GWD-2	—	—	G					X	X						
MW-15C	10/23/24	16:35	G					X	X						
MW-44	10/23/24	17.31	G					X	X						
MW-14R	10/23/24	14:16	G					X	X						
MW-15R	10/23/24	16.01	G					X	X						
MW-39	10/23/24	14.53	G					X	X						
MW-40	10/24/24	8:32	G						X	X	X	X	X		
MW-43	10/23/24	15:24	G						X	X	X	X	X		
MW-D	10/24/24	9:52	G					X	X						
Trip Blank			G											X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☐Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No. | Cooler Temp. (°C) Obs'd _____ Corr'd:_____ Therm ID No. _____

Relinquished by· Cole Tesar	Company· SCS	Date/Time: 10/25/24 14:00	Received by·	Company·	Date/Time:
Relinquished by·	Company·	Date/Time:	Received by·	Company·	Date/Time.
Relinquished by·	Company·	Date/Time:	Received in Laboratory by: CGC	Company· Eurofins	Date/Time. 10-25-24 1625

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

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-293778-1
SDG Number: Cherokee County Landfill

Login Number: 293778
List Number: 1
Creator: Bunker, Xavier M

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 B-2

Data Validation Documentation

Completed by: Michael Morgan
Sample Date: 3/4/2024
Lab Report Date: 3/15/2024
Site Name: Cherokee County Sanitary Landfill
Project Type: Winter 2024 HMSP Retest
Lab Report Number: 310-276347-1

	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			No detections.
Trip Blank Detections	X			No detections.
Accuracy				
ICV/CCV	X			
LCS/LCSD	X			
MS/MSD	X			
Surrogates (organics only)	X			
Other QA QC samples	X			
Precision				
QA/QC Sample RPDs	X			
Field Duplicates			X	

Completed by: Michael Morgan
Sample Date: 5/28/2024 - 5/30/2024
Lab Report Date: 6/17/2024
Site Name: Cherokee County Sanitary Landfill
Project Type: 1st 2024 Open Unit HMSP
Lab Report Number: 310-282522-1

	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			No detections.
Trip Blank Detections	X			No detections.
Accuracy				
ICV/CCV	X			
LCS/LCSD	X			
MS/MSD	X			
Surrogates (organics only)	X			
Other QA QC samples	X			
Precision				
QA/QC Sample RPDs	X			
Field Duplicates	X			Sample MW-27 and duplicate sample MW-DO had <50% RPD for analyzed parameters .

Completed by: Michael Morgan
Sample Date: 5/28/2024 - 5/30/2024
Lab Report Date: 6/17/2024
Site Name: Cherokee County Sanitary Landfill
Project Type: 1st 2024 Closed Unit HMSP
Lab Report Number: 310-282518-1

	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			No detections.
Trip Blank Detections	X			No detections.
Accuracy				
ICV/CCV		X		Method 8270E: The continuing calibration verification (CCV) associated with batch 310-423965 recovered above the upper control limit for 1,4-Naphthoquinone (22.6%D), Di-n-butyl phthalate (20.7%D), Dimethyl phthalate (25.5%D), 3-Nitroaniline (24.7%D), Safrole (23.4%D), 1,3-Dinitrobenzene (31.0%D), o,o',o'' Triethylphosphorothioate (23.7%D),Hexachloropropene (122.8%D) and Dinoseb (33.9%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.
LCS/LCSD		X		Method 8270E: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 310-423508 and analytical batch 310-423965 recovered outside control limits for the following analytes: Famphur and Kepone These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. Method 8270E: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 310-423508 and analytical batch 310-423965 recovered outside control limits for the following analyte(s): p-Phenylene diamine. p- Phenylene diamine has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/reanalysis was not performed. Method 8270E: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 310-423508 and analytical batch 310-423965 recovered outside control limits for the following analytes: Methapyrilene.

MS/MSD		X		PCBs Method 8082A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 310-423348. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Pesticides Method 8081B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 310-423348. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch
Surrogates (organics only)	X			
Other QA QC samples	X			

Precision

QA/QC Sample RPDs	X			
Field Duplicates		X		Sample MW-13R and duplicate sample MW-DC had <50% RPD for analyzed parameters except for Arsenic, Barium, Cobalt, Nickel, and cis-1,2-Dichloroethene.

Completed by: Michael Morgan
Sample Date: 10/23/2024 - 10/24/2024
Lab Report Date: 11/12/2024
Site Name: Cherokee County Sanitary Landfill
Project Type: 2nd 2024 Open & Closed Units
Lab Report Number: 310-293778-1

	OK	NO	N/A	NOTES
Sample Collection and Sample Handling				
Chain of Custody	X			
Temperature	X			
Preservation		X		Method 6020B: The reference method requires samples to be preserved to a pH of <2. The following sample was received with insufficient preservation at a pH of >2: MW-39 (310-293778-9). The sample(s) was preserved to the appropriate pH in the laboratory.
Condition	X			
Case Narrative		X		Method 8260D: The following sample was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples: MW-16 (310-293778-1).
Holding Times	X			
Analytical Sensitivity and Blanks				
Method Blank Detections	X			No detections.
Trip Blank Detections	X			No detections.
Accuracy				
ICV/CCV	X			
LCS/LCSD	X			
MS/MSD	X			
Surrogates (organics only)	X			
Other QA QC samples	X			
Precision				
QA/QC Sample RPDs	X			
Field Duplicates	X			Sample MW-27 and duplicate sample MW-D had <50% RPD for analyzed parameters.

Appendix C-1

Summary of Groundwater Chemistry – Closed MSWLF Unit

SCS ENGINEERS

Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Total Metals Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Antimony, mg/L (CAS NO - 7440-36-0)	10/19/2009	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	N/A	N/A
	3/2/2010	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	N/A	N/A
	5/20/2010	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	8/27/2010	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	10/1/2010	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	4/29/2011	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A
	9/28/2011	0.0275	0.0086	< 0.007	0.0081	0.0251	0.0202	0.0267	0.0387	0.0183	N/A	0.0409	0.0121	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A
	4/26/2012	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	**0.0022**	< 0.002	**0.0024**	< 0.002	N/A	< 0.002	< 0.002	N/A
	10/24/2012	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	< 0.002	N/A
	5/7/2013	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	**0.0021**	< 0.002	N/A	< 0.002	< 0.002	N/A
	10/18/2013	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	< 0.002	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A
	3/25/2014	< 0.002	< 0.002	< 0.01	< 0.002	< 0.002	< 0.002	< 0.01	< 0.01	< 0.002	< 0.002	< 0.002	< 0.002	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A
	9/30/2014	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	0.000336*	< 0.001	0.0002*	0.000331*	< 0.001	0.000471*	< 0.001	**0.00105**	< 0.001	N/A	< 0.001	0.000447*	N/A
	10/12/2015	< 0.001	0.000194*	< 0.001	0.000251*	0.000223*	0.000224*	< 0.001	< 0.001	0.000976*	N/A	< 0.001	< 0.001	N/A
	4/12/2016	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.000641*	0.000339*	< 0.001	**0.00117**	N/A	0.00025*	< 0.001	N/A
	9/22/2016	N/A	< 0.001	< 0.001	N/A	**0.00119**	< 0.001	< 0.001	0.000483*	< 0.001	N/A	< 0.001	< 0.001	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A
	3/20/2017	< 0.001	< 0.001	0.00068*	< 0.001	0.000485*	N/A	0.000286*	0.000214*	< 0.001	N/A	< 0.001	< 0.001	N/A
	3/20/2017	N/A	N/A	N/A	N/A	0.00043*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 0.001	< 0.001	0.000625*	< 0.001	< 0.001	< 0.001	0.000337*	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A
	7/24/2017	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 0.001	< 0.001	< 0.001	< 0.001	0.00091*	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A
	5/15/2018	N/A	N/A	N/A	N/A	0.000641*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	N/A	< 0.003	< 0.003	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 0.003	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A
	3/11/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A
	8/19/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A
	8/19/2020	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	< 0.002	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.008	< 0.002
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

SCS ENGINEERS

Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Total Metals Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Antimony, mg/L (CAS NO - 7440-36-0)	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Arsenic, mg/L (CAS NO - 7440-38-2)	10/19/2009	< 0.01	< 0.01	< 0.01	< 0.01	N/A	**0.01**	< 0.01	< 0.01	< 0.01	N/A	**0.03**	N/A	N/A
	3/2/2010	< 0.005	< 0.005	< 0.005	< 0.005	N/A	**0.009**	< 0.005	< 0.005	**0.009**	N/A	**0.027**	N/A	N/A
	5/20/2010	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.023**	< 0.005	< 0.005	**0.008**	N/A	**0.028**	< 0.005	N/A
	8/27/2010	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.009**	< 0.005	< 0.005	< 0.005	N/A	**0.022**	< 0.005	N/A
	10/1/2010	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.011**	< 0.005	< 0.005	< 0.005	N/A	**0.024**	< 0.005	N/A
	4/29/2011	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	N/A	**0.03**	< 0.01	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	N/A
	9/28/2011	< 0.02	< 0.02	< 0.02	< 0.02	0.0182	0.0491	< 0.02	< 0.02	0.0172	N/A	0.0291	< 0.02	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0171**	N/A
	4/26/2012	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	**0.0399**	< 0.004	< 0.004	**0.0109**	N/A	**0.0167**	**0.0152**	N/A
	7/27/2012	N/A	N/A	N/A	N/A	N/A	**0.0162**	N/A	N/A	**0.0068**	N/A	N/A	N/A	N/A
	10/24/2012	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	**0.0135**	**0.0055**	< 0.004	< 0.004	N/A	**0.0123**	**0.0109**	N/A
	5/7/2013	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	**0.0147**	< 0.004	< 0.004	< 0.004	N/A	**0.0042**	**0.0208**	N/A
	10/18/2013	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	**0.0229**	**0.0045**	< 0.004	**0.0049**	N/A	**0.015**	**0.0249**	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	N/A	N/A	N/A
	3/25/2014	< 0.004	**0.0064**	< 0.02	< 0.004	< 0.004	**0.0138**	< 0.02	< 0.02	< 0.004	< 0.004	**0.0194**	**0.0245**	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0213**	N/A	N/A
	9/30/2014	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	**0.0182**	< 0.004	< 0.004	**0.0047**	< 0.004	**0.0271**	**0.0171**	N/A
	2/24/2015	N/A	N/A	N/A	N/A	**0.0056**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 0.002	< 0.002	< 0.002	**0.0022**	< 0.002	**0.00764**	**0.00539**	< 0.002	0.00133*	N/A	**0.02**	**0.0253**	N/A
	10/12/2015	< 0.002	< 0.002	< 0.002	0.00117*	0.00139*	**0.0108**	**0.00206**	< 0.002	**0.00304**	N/A	**0.0477**	**0.0223**	N/A
	4/12/2016	< 0.002	< 0.002	< 0.002	0.00167*	**0.00271**	**0.0124**	**0.00475**	< 0.002	**0.00388**	N/A	**0.186**	**0.0239**	N/A
	9/22/2016	N/A	< 0.002	< 0.002	N/A	< 0.002	**0.00468**	**0.013**	< 0.002	< 0.002	< 0.002	**0.047**	**0.0129**	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A
	3/20/2017	< 0.002	< 0.002	0.000661*	< 0.002	0.000553*	N/A	**0.00373**	< 0.002	0.000593*	< 0.002	**0.0578**	**0.00991**	N/A
	3/20/2017	N/A	N/A	N/A	N/A	0.000632*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	**0.00563**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 0.002	< 0.002	0.000865*	< 0.002	0.000654*	**0.00589**	**0.00327**	< 0.002	0.000708*	< 0.002	**0.0754**	**0.0158**	N/A
	7/24/2017	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 0.002	< 0.002	0.00063*	< 0.002	0.000875*	0.00188*	**0.0167**	**0.0042**	0.000724*	< 0.002	**0.052**	**0.0182**	N/A
	5/15/2018	N/A	N/A	N/A	N/A	0.000938*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 0.002	< 0.002	< 0.002	< 0.002	0.000595*	**0.00313**	**0.00414**	**0.00434**	0.000746*	< 0.002	**0.0637**	**0.0144**	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	**0.00645**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	0.000428*	0.000337*	0.000594*	0.000665*	0.00071*	**0.00245**	0.000907*	**0.00161**	0.000833*	N/A	**0.0686**	**0.0138**	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	**0.0015**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 0.002	< 0.002	< 0.002	< 0.002	0.000823*	**0.00874**	0.00112*	0.00106*	0.00104*	< 0.002	**0.11**	**0.019**	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00118*	N/A	N/A	N/A	N/A
	3/11/2020	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.00156*	0.00166*	< 0.002	0.000919*	N/A	**0.0768**	**0.0196**	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0212**	N/A
	8/19/2020	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	**0.0026**	**0.00203**	< 0.002	< 0.002	< 0.002	**0.0575**	**0.0192**	< 0.002
	8/19/2020	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.00158*	**0.00207**	**0.00316**	0.000776*	< 0.002	**0.0134**	**0.0201**	**0.00495**
	3/23/2021	N/A	N/A	N/A	N/A	N/A	0.0015*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	**0.00547**	**0.0023**	**0.00847**	< 0.002	< 0.002	**0.007**	**0.0198**	**0.0115**
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	**0.00217**	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 0.002	< 0.002	< 0.002	0.000901*	N/A	0.000954*	< 0.002	**0.00454**	< 0.002	< 0.002	**0.0126**	**0.0243**	0.0019*
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0046**	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Total Metals Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Arsenic, mg/L (CAS NO - 7440-38-2)	9/28/2022	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	0.00121*	< 0.002	**0.0107**	**0.0398**	**0.0132**
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A
	3/8/2023	N/A	N/A	< 0.002	< 0.002	< 0.002	0.00142*	N/A	< 0.002	0.000781*	< 0.002	**0.00216**	**0.0211**	**0.00524**
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	0.000927*	N/A	0.000714*	< 0.002	**0.0289**	**0.0253**	**0.0115**
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	0.000856*	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	< 0.002	< 0.002	0.000805*	**0.00399**	**0.0217**	**0.0547**	< 0.002	< 0.002	0.00119*	**0.0219**	**0.00971**
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0011*	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000749*	< 0.002	**0.0781**	**0.0222**	**0.0118**
Barium, mg/L (CAS NO - 7440-39-3)	10/19/2009	**0.05**	< 0.05	< 0.05	< 0.05	N/A	< 0.05	**0.12**	< 0.05	**0.35**	N/A	**0.78**	N/A	N/A
	3/2/2010	< 0.05	**0.08**	< 0.05	< 0.05	N/A	< 0.05	**0.07**	< 0.05	**0.38**	N/A	**0.71**	N/A	N/A
	5/20/2010	< 0.05	**0.1**	< 0.05	< 0.05	**0.07**	< 0.05	**0.07**	< 0.05	**0.19**	N/A	**0.78**	**0.93**	N/A
	8/27/2010	< 0.05	**0.05**	< 0.05	< 0.05	**0.63**	< 0.05	**0.08**	< 0.05	**0.15**	N/A	**0.68**	**0.75**	N/A
	10/1/2010	< 0.05	< 0.05	< 0.05	< 0.05	**0.08**	< 0.05	**0.08**	< 0.05	**0.11**	N/A	**0.68**	**0.73**	N/A
	4/29/2011	< 0.05	< 0.05	< 0.05	< 0.05	**0.09**	< 0.05	< 0.05	< 0.05	**0.14**	N/A	**0.62**	**1**	N/A
	6/8/2011	N/A	N/A	N/A	N/A	**0.25**	N/A	N/A	N/A	N/A	N/A	N/A	**0.12**	N/A
	9/28/2011	0.0457	0.0584	0.0319	0.0306	0.0889	0.0468	0.1217	0.0321	0.1176	N/A	0.6741	1.26	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1.63**	N/A
	4/26/2012	**0.0529**	**0.0342**	**0.0206**	**0.0407**	**0.0603**	**0.0673**	**0.09**	**0.0388**	**0.118**	N/A	**0.759**	**1.73**	N/A
	10/24/2012	**0.0547**	**0.0906**	**0.0221**	**0.0199**	**0.054**	**0.0361**	**0.118**	**0.0252**	**0.0413**	N/A	**0.687**	**2.14**	N/A
	5/7/2013	**0.0913**	**0.0399**	**0.0198**	**0.0178**	**0.0564**	**0.0872**	**0.0906**	**0.0286**	**0.168**	N/A	**0.717**	**2.32**	N/A
	7/24/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.057**	N/A	N/A	N/A	N/A
	10/18/2013	**0.0547**	**0.0303**	**0.024**	**0.0169**	**0.0905**	**0.049**	**0.153**	**0.0279**	**0.0521**	N/A	**0.789**	**2.53**	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	**0.131**	N/A	N/A	**0.0774**	N/A	N/A	N/A
	3/25/2014	**0.0483**	**0.143**	**0.0282**	**0.0171**	**0.173**	**0.0351**	**0.101**	**0.0309**	**0.0545**	**0.126**	**0.723**	**2.42**	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.698**	N/A	N/A
	5/21/2014	N/A	N/A	N/A	N/A	**0.0607**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/30/2014	**0.0777**	**0.0328**	**0.0156**	**0.0167**	**0.295**	**0.0378**	**0.0846**	**0.0326**	**0.046**	**0.711**	**0.693**	**2.12**	N/A
	2/24/2015	N/A	N/A	N/A	N/A	**2.01**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	**0.0469**	**0.0376**	**0.0168**	**0.0333**	**0.0538**	**0.0298**	**0.0922**	**0.0266**	**0.0509**	N/A	**0.666**	**2.48**	N/A
	10/12/2015	**0.0484**	**0.0477**	**0.0153**	**0.0194**	**0.0491**	**0.0303**	**0.114**	**0.0238**	**0.0745**	N/A	**0.67**	**3.3**	N/A
	4/12/2016	**0.0462**	**0.0294**	**0.0122**	**0.0149**	**0.0463**	**0.0269**	**0.0695**	**0.0225**	**0.0537**	N/A	**0.622**	**2.48**	N/A
	9/22/2016	N/A	**0.0309**	**0.0159**	N/A	**0.0247**	**0.127**	**0.155**	**0.254**	**0.0538**	**0.126**	**0.642**	**1.86**	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0528**	N/A	N/A	N/A	N/A
	3/20/2017	**0.0586**	**0.0362**	**0.0156**	**0.0169**	**0.0243**	N/A	**0.0936**	**0.139**	**0.0866**	**0.135**	**0.583**	**1.13**	N/A
	3/20/2017	N/A	N/A	N/A	N/A	**0.0281**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	**0.156**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	**0.0531**	**0.0321**	**0.0206**	**0.0174**	**0.025**	**0.131**	**0.136**	**0.251**	**0.0582**	**0.121**	**0.732**	**1.29**	N/A
	7/24/2017	N/A	**0.0328**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	**0.0619**	**0.0345**	**0.018**	**0.0212**	**0.0454**	**0.139**	**0.0907**	**0.191**	**0.0633**	N/A	**0.57**	**1.89**	N/A
	5/15/2018	N/A	N/A	N/A	N/A	**0.0503**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	**0.0562**	**0.0344**	**0.0184**	**0.0177**	**0.047**	**0.0861**	**0.16**	**0.229**	**0.0676**	N/A	**0.75**	**1.9**	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	**0.12**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	**0.0541**	**0.0264**	**0.0151**	**0.0171**	**0.0335**	**0.104**	**0.0587**	**0.22**	**0.0582**	N/A	**0.507**	**1.56**	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	**0.0938**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	**0.0519**	**0.0281**	**0.0141**	**0.0151**	**0.0413**	**0.142**	**0.122**	**0.249**	**0.0596**	**0.119**	**0.66**	**1.65**	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.069**	N/A	N/A	N/A	N/A
	3/11/2020	**0.0566**	**0.0262**	**0.0144**	**0.0151**	**0.0414**	**0.0904**	**0.0589**	**0.163**	**0.0589**	N/A	**0.479**	**1.63**	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1.64**	N/A
	8/19/2020	**0.055**	**0.0269**	**0.0148**	**0.0169**	**0.0469**	**0.119**	**0.121**	**0.223**	**0.0761**	**0.101**	**0.512**	**1.6**	**0.0393**
	8/19/2020	N/A	N/A	N/A	**0.0155**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Total Metals Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Barium, mg/L (CAS NO - 7440-39-3)	3/23/2021	0.0623	0.0295	0.0166	0.0182	0.055	0.102	0.0933	0.126	0.0735	0.121	0.463	2.04	0.0331
	3/23/2021	N/A	N/A	N/A	N/A	N/A	0.0916	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	0.062	0.029	0.0153	0.0182	0.0567	0.133	0.122	0.121	0.0717	0.114	0.554	3.03	0.0248
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	0.123	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	0.0564	0.0261	0.0149	0.0161	N/A	0.0954	0.0545	0.0837	0.0766	0.104	0.475	2.55	0.0192
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0841	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	0.0608	N/A	N/A	N/A	0.0758	0.108	0.382	3.17	0.0216
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.109	N/A	N/A	N/A
	3/8/2023	N/A	N/A	0.0144	0.0155	0.0706	0.0879	N/A	0.0688	0.0614	0.111	0.446	1.63	0.0185
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	0.0669	N/A	0.0849	0.0948	0.553	2.69	0.0185
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	0.066	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	0.0132	0.014	0.0694	0.121	0.678	0.672	0.0934	0.0902	0.0867	0.704	0.019
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0839	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0607	0.0842	0.521	2.35	0.0193
Beryllium, mg/L (CAS NO - 7440-41-7)	10/19/2009	< 0.02	< 0.02	< 0.02	< 0.02	N/A	< 0.02	< 0.02	< 0.02	< 0.02	N/A	< 0.02	N/A	N/A
	3/2/2010	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	N/A	N/A
	5/20/2010	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	< 0.002	N/A
	8/27/2010	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	< 0.002	N/A
	10/1/2010	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	< 0.002	N/A
	4/29/2011	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	< 0.002	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A
	9/28/2011	0.0154	0.0201	0.0196	0.0202	0.0199	0.0198	0.0186	0.0185	0.0185	N/A	0.0188	0.0184	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	N/A
	4/26/2012	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	N/A	< 0.004	< 0.004	N/A
	10/24/2012	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	N/A	< 0.004	< 0.004	N/A
	5/7/2013	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	N/A	< 0.004	< 0.004	N/A
	10/18/2013	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	N/A	< 0.004	< 0.004	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	N/A	N/A	N/A
	3/25/2014	< 0.004	< 0.004	< 0.02	< 0.004	< 0.004	< 0.004	< 0.02	< 0.02	< 0.004	< 0.004	< 0.004	< 0.004	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	N/A	N/A
	9/30/2014	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.004	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A
	10/12/2015	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.000057*	N/A	< 0.001	< 0.001	N/A
	4/12/2016	< 0.001	< 0.001	< 0.001	< 0.001	0.000547*	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A
	9/22/2016	N/A	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	0.0261	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A
	3/20/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A
	7/24/2017	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Total Metals Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Beryllium, mg/L (CAS NO - 7440-41-7)	3/11/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A
	8/19/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A
	8/19/2020	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.004	< 0.001
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Cadmium, mg/L (CAS NO - 7440-43-9)	10/19/2009	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	N/A	N/A
	3/2/2010	< 0.00025	**0.0013**	< 0.00025	< 0.00025	N/A	< 0.00025	< 0.00025	**0.0031**	**0.00081**	N/A	**0.00034**	N/A	N/A
	5/20/2010	< 0.00025	**0.00094**	< 0.00025	**0.00099**	**0.0042**	< 0.00025	**0.00033**	**0.00069**	**0.0036**	N/A	< 0.00025	**0.0024**	N/A
	8/27/2010	< 0.005	< 0.005	< 0.005	**0.006**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	10/1/2010	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	4/29/2011	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A
	9/28/2011	0.0154	0.0201	0.0234	0.0231	0.0215	0.0174	0.0176	0.017	0.0167	N/A	0.0176	0.0176	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0008	N/A
	4/26/2012	< 0.0008	**0.0105**	**0.0066**	**0.0041**	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	N/A	< 0.0008	**0.0009**	N/A
	10/24/2012	**0.0015**	**0.0057**	**0.0014**	**0.0022**	**0.0012**	< 0.0008	< 0.0008	< 0.0008	< 0.0008	N/A	< 0.0008	**0.0011**	N/A
	5/7/2013	< 0.0008	**0.0019**	**0.0079**	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	N/A	< 0.0008	< 0.0008	N/A
	10/18/2013	< 0.0008	< 0.0008	**0.0022**	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	N/A	< 0.0008	< 0.0008	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.007**	N/A	N/A	N/A
	3/25/2014	< 0.0008	**0.0031**	< 0.004	**0.0082**	**0.0698**	< 0.0008	< 0.004	< 0.004	< 0.0008	**0.005**	< 0.0008	**0.0029**	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0008	N/A	N/A
	5/21/2014	N/A	N/A	N/A	N/A	**0.0122**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/30/2014	< 0.0008	< 0.0008	**0.0045**	**0.0054**	**0.021**	< 0.0008	< 0.0008	**0.0238**	< 0.0008	**0.0023**	< 0.0008	**0.0014**	N/A
	2/24/2015	N/A	N/A	N/A	N/A	**0.0218**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 0.0005	**0.00358**	< 0.0005	**0.000649**	**0.0159**	< 0.0005	< 0.0005	**0.00835**	0.000168*	N/A	< 0.0005	0.000247*	N/A
	10/12/2015	< 0.0005	**0.0494**	< 0.0005	**0.0103**	**0.00127**	< 0.0005	< 0.0005	**0.00104**	0.000424*	N/A	< 0.0005	0.000202*	N/A
	4/12/2016	0.000057*	**0.00077**	0.000059*	0.000064*	**0.000941**	< 0.0005	< 0.0005	**0.00235**	0.000425*	N/A	0.000079*	< 0.0005	N/A
	9/22/2016	N/A	**0.0005**	0.000118*	N/A	0.00022*	< 0.0005	< 0.0005	0.000168*	0.000041*	N/A	< 0.0005	< 0.0005	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A
	3/20/2017	0.000071*	0.000382*	< 0.0005	0.00009*	0.000107*	N/A	0.000058*	0.000137*	0.000062*	N/A	< 0.0005	< 0.0005	N/A
	3/20/2017	N/A	N/A	N/A	N/A	0.000131*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	0.000073*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	0.000048*	0.000401*	< 0.001	< 0.0005	< 0.0005	< 0.0005	0.000073*	0.000157*	< 0.0005	N/A	< 0.0005	< 0.0005	N/A
	7/24/2017	N/A	0.000451*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 0.0005	0.000199*	< 0.0005	< 0.0005	0.00014*	< 0.0005	< 0.0005	< 0.0005	< 0.0005	N/A	< 0.0005	< 0.0005	N/A
	5/15/2018	N/A	N/A	N/A	N/A	0.000175*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 0.0005	0.000081*	0.000157*	< 0.0005	0.000117*	< 0.0005	0.000062*	< 0.0005	0.000105*	N/A	< 0.0005	< 0.0005	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Total Metals Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Cadmium, mg/L (CAS NO - 7440-43-9)	5/29/2019	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	N/A	< 0.0005	< 0.0005	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 0.0001	**0.000207**	**0.000146**	< 0.0001	0.000087*	< 0.0001	0.00004*	0.000057*	< 0.0001	N/A	< 0.0001	< 0.0001	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0001	N/A	N/A	N/A	N/A
	3/11/2020	< 0.0001	**0.000159**	0.000084*	< 0.0001	0.000074*	< 0.0001	< 0.0001	0.000056*	< 0.0001	N/A	< 0.0001	< 0.0001	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0001	N/A
	8/19/2020	< 0.0001	**0.000183**	**0.000185**	0.000054*	**0.000187**	< 0.0001	< 0.0001	0.000077*	**0.000153**	N/A	< 0.0001	< 0.0001	N/A
	8/19/2020	N/A	N/A	N/A	< 0.0001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	**0.000101**	**0.000275**	**0.000122**	< 0.0001	< 0.0001	< 0.0001	**0.000187**	< 0.0001	**0.000129**	N/A	**0.000337**	< 0.0001	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 0.0001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 0.0001	**0.000117**	**0.000139**	< 0.0001	< 0.0001	< 0.0001	**0.000602**	< 0.0001	**0.000106**	< 0.0001	**0.000243**	< 0.0001	< 0.0001
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	**0.000562**	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 0.0001	**0.000182**	**0.0001**	< 0.0001	N/A	< 0.0001	0.000057*	< 0.0001	**0.000145**	**0.000103**	**0.0001**	< 0.0004	< 0.0001
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0001	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.000101**	0.000069*	< 0.0001	< 0.0001	< 0.0001
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000074*	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0001	0.000085*	0.000077*	0.000055*	< 0.0001
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000189*	< 0.0002	< 0.0002	< 0.0002	< 0.0002
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0002	< 0.0002	0.00011*	< 0.0002	0.000164*	< 0.0002	< 0.0002
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000164*	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Chromium, mg/L (CAS NO - 7440-47-3)	10/19/2009	< 0.02	< 0.02	< 0.02	< 0.02	N/A	< 0.02	< 0.02	< 0.02	< 0.02	N/A	< 0.02	N/A	N/A
	3/2/2010	< 0.01	**0.01**	< 0.01	< 0.01	N/A	< 0.01	< 0.01	< 0.01	< 0.01	N/A	< 0.01	N/A	N/A
	5/20/2010	< 0.01	**0.014**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	N/A	< 0.01	< 0.01	N/A
	8/27/2010	< 0.01	< 0.01	< 0.01	< 0.01	**0.015**	< 0.01	< 0.01	< 0.01	< 0.01	N/A	< 0.01	< 0.01	N/A
	10/1/2010	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	N/A	< 0.01	< 0.01	N/A
	4/29/2011	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	< 0.02	< 0.02	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A
	9/28/2011	0.0069	0.0125	0.0117	0.0117	0.012	0.0109	0.0121	0.0173	0.0159	N/A	0.015	0.0199	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.04	N/A
	4/26/2012	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	N/A	< 0.008	< 0.008	N/A
	10/24/2012	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	N/A	< 0.008	< 0.008	N/A
	5/7/2013	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	N/A	< 0.008	< 0.008	N/A
	10/18/2013	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	**0.0099**	< 0.008	< 0.008	N/A	< 0.008	< 0.008	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.008	N/A	N/A	N/A
	3/25/2014	< 0.008	**0.0125**	< 0.01	< 0.008	< 0.008	< 0.008	< 0.01	< 0.01	< 0.008	< 0.008	< 0.008	< 0.008	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.008	N/A	N/A
	9/30/2014	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	N/A
	2/24/2015	N/A	N/A	N/A	N/A	**0.0174**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 0.005	< 0.005	< 0.005	0.0023*	0.00165*	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	10/12/2015	< 0.005	0.00181*	< 0.005	< 0.005	0.00209*	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	4/12/2016	0.000612*	0.000391*	< 0.005	0.000356*	**0.00662**	< 0.005	< 0.005	0.00186*	0.000433*	N/A	0.000524*	< 0.005	N/A
	9/22/2016	N/A	< 0.005	< 0.005	N/A	0.0021*	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	0.000479*	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
	3/20/2017	< 0.005	< 0.005	< 0.005	< 0.005	0.000981*	N/A	0.00126*	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	3/20/2017	N/A	N/A	N/A	N/A	0.00121*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	7/24/2017	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Total Metals Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Chromium, mg/L (CAS NO - 7440-47-3)	5/15/2018	< 0.005	< 0.005	< 0.005	< 0.005	0.00151*	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	0.00114*	0.00123*	0.00114*	< 0.005	< 0.005	0.00213*	< 0.005	< 0.005	< 0.005	N/A	< 0.005	0.00164*	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
	3/11/2020	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A
	8/19/2020	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	8/19/2020	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.005
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt, mg/L (CAS NO - 7440-48-4)	10/19/2009	< 0.05	< 0.05	< 0.05	< 0.05	N/A	< 0.05	< 0.05	< 0.05	< 0.05	N/A	< 0.05	N/A	N/A
	3/2/2010	< 0.05	< 0.05	< 0.05	< 0.05	N/A	< 0.05	< 0.05	< 0.05	**0.06**	N/A	**0.03**	N/A	N/A
	5/20/2010	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	N/A	< 0.05	< 0.05	N/A
	8/27/2010	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	N/A	< 0.05	< 0.05	N/A
	10/1/2010	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	N/A	< 0.05	< 0.05	N/A
	4/29/2011	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	N/A	< 0.05	**0.08**	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	**0.08**	N/A
	9/28/2011	0.0081	0.0103	0.0199	0.0132	0.0131	0.0099	0.0101	0.0108	0.0268	N/A	0.0406	0.0876	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0893**	N/A
	4/26/2012	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	**0.0177**	N/A	**0.0233**	**0.0994**	N/A
	10/24/2012	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	**0.0104**	N/A	**0.0077**	**0.0369**	N/A
	5/7/2013	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	**0.0137**	N/A	**0.0062**	**0.0498**	N/A
	10/18/2013	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	**0.0053**	< 0.004	**0.0075**	N/A	**0.0206**	**0.0291**	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	N/A	N/A	N/A
	3/25/2014	< 0.004	**0.0074**	< 0.02	< 0.004	< 0.004	< 0.004	< 0.02	< 0.02	**0.0061**	< 0.004	**0.0184**	**0.0636**	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0193**	N/A	N/A
	9/30/2014	< 0.0008	< 0.0008	< 0.0008	< 0.0008	**0.0027**	< 0.0008	< 0.0008	**0.0017**	**0.0073**	**0.0015**	**0.0181**	**0.0232**	N/A
	2/24/2015	N/A	N/A	N/A	N/A	**0.0108**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	0.000192*	0.000357*	0.00034*	**0.00168**	**0.00123**	0.000237*	**0.00284**	**0.00174**	**0.0102**	N/A	**0.013**	**0.0217**	N/A
	10/12/2015	< 0.0005	**0.000643**	**0.00149**	**0.000852**	**0.00362**	0.000097*	0.000476*	**0.0011**	**0.00681**	N/A	**0.0187**	**0.0235**	N/A
	4/12/2016	0.000164*	0.000185*	0.000358*	0.000435*	**0.0149**	0.000137*	**0.00128**	**0.00111**	**0.00671**	0.000321*	**0.0164**	**0.0173**	N/A
	9/22/2016	N/A	0.00003*	**0.00171**	N/A	0.000077*	**0.00177**	**0.00144**	**0.0078**	**0.00315**	0.000056*	**0.0229**	**0.0165**	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.00306**	N/A	N/A	N/A	N/A
	3/20/2017	0.000103*	0.000083*	0.000424*	0.000162*	0.000099*	N/A	**0.00133**	**0.00316**	**0.00395**	0.000099*	**0.0196**	**0.0268**	N/A
	3/20/2017	N/A	N/A	N/A	N/A	0.000126*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Total Metals Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Cobalt, mg/L (CAS NO - 7440-48-4)	6/21/2017	N/A	N/A	N/A	N/A	N/A	**0.00299**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	0.000055*	< 0.0005	0.000442*	0.000093*	0.000134*	**0.00157**	**0.00117**	**0.00463**	**0.007**	0.000214*	**0.0277**	**0.0229**	N/A
	7/24/2017	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	0.000101*	0.000187*	**0.00052**	0.000117*	**0.000741**	**0.00427**	**0.00186**	**0.00486**	**0.00552**	0.000121*	**0.0177**	**0.0289**	N/A
	5/15/2018	N/A	N/A	N/A	N/A	**0.00125**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 0.0005	< 0.0005	**0.000569**	0.000152*	**0.00138**	0.000484*	**0.0016**	**0.0056**	**0.00899**	0.000239*	**0.0194**	**0.025**	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	**0.00127**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 0.001	< 0.001	< 0.001	< 0.001	0.000995*	**0.00192**	< 0.001	**0.00877**	**0.00978**	N/A	**0.0174**	**0.0208**	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	**0.00154**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 0.0005	< 0.0005	0.000111*	< 0.0005	**0.00256**	**0.00288**	< 0.0005	**0.00856**	**0.0112**	0.000206*	**0.0221**	**0.0228**	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0117**	N/A	N/A	N/A	N/A
	3/11/2020	< 0.0005	< 0.0005	**0.000727**	< 0.0005	**0.00289**	**0.00201**	**0.000582**	**0.00637**	**0.0117**	N/A	**0.0167**	**0.0156**	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0208**	N/A
	8/19/2020	< 0.0005	< 0.0005	< 0.0005	0.000106*	**0.00507**	**0.00235**	**0.000536**	**0.00569**	**0.00111**	0.000268*	**0.0141**	**0.0275**	**0.00442**
	8/19/2020	N/A	N/A	N/A	0.000192*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	0.00013*	0.000101*	< 0.0005	0.000163*	**0.00559**	**0.00143**	**0.000889**	**0.00429**	**0.0136**	0.000252*	**0.0189**	**0.0241**	**0.00282**
	3/23/2021	N/A	N/A	N/A	N/A	N/A	**0.00133**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 0.0005	< 0.0005	0.000279*	0.000446*	**0.00593**	**0.00182**	**0.00254**	**0.00601**	**0.0119**	0.000276*	**0.0127**	**0.02**	**0.00119**
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	**0.00246**	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 0.0005	< 0.0005	0.000246*	0.000365*	N/A	**0.00147**	0.000247*	**0.00505**	**0.0109**	0.000265*	**0.00592**	**0.012**	**0.000949**
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.00491**	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	**0.00377**	N/A	N/A	N/A	**0.0109**	0.000238*	**0.0077**	**0.014**	**0.000643**
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00024*	N/A	N/A	N/A
	3/8/2023	N/A	N/A	0.000303*	**0.000773**	**0.00456**	**0.000823**	N/A	**0.00201**	**0.0119**	0.000397*	**0.00368**	**0.0411**	**0.000584**
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	**0.000729**	N/A	**0.00257**	**0.000711**	**0.0105**	**0.0152**	0.000345*
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	**0.000977**	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	< 0.0005	0.000294*	**0.00741**	**0.00235**	**0.00975**	**0.0123**	**0.0009**	0.000172*	**0.0025**	**0.00978**	0.000362*
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.00232**	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0146**	0.000301*	**0.0114**	**0.00637**	0.000294*
Copper, mg/L (CAS NO - 7440-50-8)	10/19/2009	< 0.01	< 0.01	< 0.01	**0.02**	N/A	< 0.01	< 0.01	< 0.01	**0.03**	N/A	< 0.01	N/A	N/A
	3/2/2010	< 0.005	**0.012**	< 0.005	**0.008**	N/A	< 0.005	< 0.005	< 0.005	**0.011**	N/A	< 0.005	N/A	N/A
	5/20/2010	< 0.005	**0.015**	< 0.005	**0.027**	**0.005**	< 0.005	< 0.005	**0.005**	**0.007**	N/A	< 0.005	**0.009**	N/A
	8/27/2010	< 0.005	< 0.005	< 0.005	**0.011**	**0.027**	< 0.005	< 0.005	< 0.005	**0.005**	N/A	< 0.005	**0.015**	N/A
	10/1/2010	< 0.005	< 0.005	< 0.005	< 0.005	**0.006**	< 0.005	< 0.005	< 0.005	**0.008**	N/A	< 0.005	**0.008**	N/A
	4/29/2011	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	N/A	< 0.01	< 0.01	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A	**0.02**	N/A
	9/28/2011	0.0077	0.0135	0.0104	0.0116	0.0106	0.0094	0.0128	0.0101	0.014	N/A	0.0107	0.0198	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0366**	N/A
	4/26/2012	< 0.004	< 0.004	< 0.004	< 0.004	**0.0054**	**0.005**	**0.0049**	**0.0053**	**0.0059**	N/A	< 0.004	**0.0283**	N/A
	10/24/2012	**0.0133**	**0.0075**	< 0.004	< 0.004	**0.0058**	< 0.004	< 0.004	< 0.004	**0.007**	N/A	< 0.004	**0.0072**	N/A
	5/7/2013	**0.0068**	< 0.004	< 0.004	< 0.004	**0.0044**	< 0.004	< 0.004	**0.0098**	**0.0059**	N/A	< 0.004	**0.0246**	N/A
	7/24/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0138**	N/A
	10/18/2013	< 0.004	< 0.004	**0.0041**	**0.0045**	**0.0042**	< 0.004	**0.0132**	**0.171**	< 0.004	N/A	< 0.004	**0.0164**	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	N/A	**0.0377**	N/A
	3/25/2014	**0.0051**	**0.0227**	< 0.02	< 0.004	**0.0083**	< 0.004	< 0.02	**0.0478**	< 0.004	< 0.004	**0.0074**	**0.0669**	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0091**	N/A	N/A
	9/30/2014	**0.0111**	< 0.004	< 0.004	< 0.004	**0.009**	< 0.004	< 0.004	**0.0281**	< 0.004	< 0.004	< 0.004	**0.0106**	N/A
	2/24/2015	N/A	N/A	N/A	N/A	**0.0209**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	**0.00295**	0.00134*	**0.00211**	**0.00837**	**0.00403**	< 0.002	< 0.002	**0.00359**	0.00131*	N/A	< 0.002	**0.00553**	N/A
	10/12/2015	0.000491*	**0.013**	0.00082*	**0.00219**	**0.00689**	0.00111*	0.000815*	0.000675*	**0.00247**	N/A	0.00133*	**0.00478**	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Total Metals Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Copper, mg/L (CAS NO - 7440-50-8)	4/12/2016	< 0.005	0.00522	< 0.005	< 0.005	0.0275	< 0.005	0.00136*	0.0025*	0.00188*	N/A	0.00612	< 0.005	N/A
	9/22/2016	N/A	0.00143*	< 0.005	N/A	0.00153*	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	2.58	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
	3/20/2017	< 0.005	< 0.005	< 0.005	0.00636	< 0.005	N/A	0.0025*	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 0.005	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	7/24/2017	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00248*	0.00188*	< 0.005	N/A	0.00165*	< 0.005	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	0.00225	0.00187*	0.00248	0.0024	0.00167*	0.00216	0.00143*	0.00206	0.00455	N/A	0.00642	0.0186	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	0.000674*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
	3/11/2020	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A
	8/19/2020	< 0.005	0.00189*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00193*	N/A	< 0.005	< 0.005	N/A
	8/19/2020	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00248*	< 0.005	< 0.005	N/A	0.00222*	0.00184*	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00472*	< 0.005	< 0.005	< 0.005	0.00227*	< 0.005	< 0.005
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	0.00441*	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.005
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	< 0.005	< 0.005	0.00188*	< 0.005
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00202*	< 0.005	< 0.005	< 0.005	< 0.005
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	0.00185*	< 0.005	0.00189*	< 0.005	< 0.005	0.00187*	< 0.005
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Lead, mg/L (CAS NO - 7439-92-1)	10/19/2009	0.02	0.02	< 0.01	< 0.01	N/A	< 0.01	< 0.01	< 0.01	0.01	N/A	< 0.01	N/A	N/A
	3/2/2010	0.003	0.006	< 0.001	< 0.001	N/A	< 0.001	< 0.001	0.001	0.004	N/A	< 0.001	N/A	N/A
	5/20/2010	0.001	0.007	< 0.001	0.001	< 0.001	0.001	0.001	0.003	0.002	N/A	< 0.001	< 0.001	N/A
	8/27/2010	< 0.005	< 0.005	0.006	< 0.005	0.007	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	10/1/2010	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	4/29/2011	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	N/A
	9/28/2011	< 0.008	0.0106	< 0.008	0.0085	< 0.008	0.0084	< 0.008	< 0.008	< 0.008	N/A	< 0.008	< 0.008	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.01	N/A
	4/26/2012	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.0109	< 0.004	0.0042	< 0.004	N/A	< 0.004	0.0092	N/A
	10/24/2012	0.0222	0.0065	< 0.004	< 0.004	< 0.004	< 0.004	0.0043	< 0.004	< 0.004	N/A	< 0.004	< 0.004	N/A
	5/7/2013	0.0076	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	N/A	< 0.004	0.0156	N/A
	10/18/2013	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.0057	< 0.004	< 0.004	N/A	< 0.004	0.0113	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	N/A	N/A	N/A
	3/25/2014	0.0048	0.022	< 0.02	< 0.004	< 0.004	< 0.004	< 0.02	< 0.02	< 0.004	< 0.004	< 0.004	0.0254	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	N/A	N/A
	9/30/2014	0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.0049	< 0.004	< 0.004	< 0.004	0.0053	N/A

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Total Metals Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Lead, mg/L (CAS NO - 7439-92-1)	2/24/2015	N/A	N/A	N/A	N/A	0.0079	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	0.00219	0.000791	0.00123	0.00392	0.00113	0.000883	0.000142*	0.000455*	0.00197	N/A	0.00044*	0.00282	N/A
	10/12/2015	0.000274*	0.00316	0.000181*	0.000855	0.00202	0.000327*	0.000196*	0.000128*	0.00075	N/A	0.000535	0.0021	N/A
	4/12/2016	0.00179	0.00042*	0.000328*	0.000401*	0.00663	0.000275*	0.00179	0.00156	0.000485*	N/A	0.00224	0.00044*	N/A
	9/22/2016	N/A	< 0.0005	0.000636	N/A	< 0.0005	0.000216*	0.00056	< 0.0005	< 0.0005	N/A	0.00024*	0.000769	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A
	3/20/2017	0.00177	< 0.0005	< 0.0005	< 0.0005	< 0.0005	N/A	0.00166	< 0.0005	0.000517	N/A	0.000379*	0.000421*	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	0.00144	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	0.00036*	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.000618	< 0.0005	< 0.0005	< 0.0005	N/A	< 0.0005	< 0.0005	N/A
	7/24/2017	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	0.00108	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.00102	< 0.0005	< 0.0005	N/A	0.00047*	0.000503	N/A
	5/15/2018	N/A	N/A	N/A	N/A	0.00025*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.000629	< 0.0005	0.00048*	N/A	< 0.0005	< 0.0005	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	0.00145	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	0.000603	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.000349*	< 0.0005	< 0.0005	< 0.0005	N/A	0.000404*	0.00112	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	0.000517	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.00104	< 0.0005	< 0.0005	< 0.0005	N/A	< 0.0005	< 0.0005	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A
	3/11/2020	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.000776	< 0.0005	< 0.0005	< 0.0005	N/A	< 0.0005	< 0.0005	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A
	8/19/2020	< 0.0005	0.000111*	< 0.0005	< 0.0005	0.000254*	0.000392*	0.000224*	< 0.0005	< 0.0005	N/A	0.000676	< 0.0005	N/A
	8/19/2020	N/A	N/A	N/A	0.000143*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	0.000771	0.000299*	< 0.0005	0.000299*	< 0.0005	0.000976	0.000817	0.000215*	0.000282*	N/A	0.000363*	0.000559	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	0.000862	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	0.000703	0.000213*	< 0.0005	0.000283*	< 0.0005	0.00159	0.000632	< 0.0005	< 0.0005	< 0.0005	0.000302*	< 0.0005	< 0.0005
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	0.000583	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 0.0005	< 0.0005	< 0.0005	< 0.0005	N/A	0.000517	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.00104*	< 0.0005
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	0.000249*	< 0.0005	0.000689	0.000289*	< 0.0005
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A
	3/8/2023	N/A	N/A	< 0.0005	< 0.0005	< 0.0005	0.000658	N/A	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.00137	< 0.0005
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	< 0.0005	< 0.0005	0.00111	0.000397*	< 0.0005
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	< 0.0005	< 0.0005	< 0.0005	0.000892	0.000573	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.000583	< 0.0005
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	< 0.0005	< 0.0005	0.000373*	< 0.0005
Mercury, mg/L (CAS NO - 7439-97-6)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A
	10/24/2012	N/A	N/A	N/A	< 0.0005	N/A	< 0.0005	N/A	N/A	< 0.0005	N/A	< 0.0005	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.0005	N/A	< 0.0005	N/A	N/A	< 0.0005	N/A	< 0.0005	< 0.0005	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	< 0.0005	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	< 0.0005	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 0.0002	N/A	< 0.0002	N/A	N/A	< 0.0002	N/A	< 0.0002	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0002	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0002	< 0.0002	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 0.0002	N/A	< 0.0002	N/A	N/A	< 0.0002	N/A	< 0.0002	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0002	< 0.0002	N/A	N/A	N/A	N/A	N/A

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Total Metals Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Nickel, mg/L (CAS NO - 7440-02-0)	10/19/2009	< 0.05	< 0.05	< 0.05	< 0.05	N/A	< 0.05	< 0.05	< 0.05	0.07	N/A	< 0.05	N/A	N/A
	3/2/2010	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	0.12	N/A	< 0.001	N/A	N/A
	5/20/2010	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.17	N/A	0.05	0.12	N/A
	8/27/2010	0.006	0.008	0.023	0.009	0.032	0.006	0.014	0.011	0.084	N/A	0.063	0.12	N/A
	10/1/2010	< 0.001	0.006	0.023	< 0.001	0.015	< 0.001	0.018	0.014	0.074	N/A	0	0.11	N/A
	4/29/2011	0.005	0.006	0.017	0.006	< 0.005	< 0.005	0.013	0.012	0.043	N/A	0.037	0.17	N/A
	6/8/2011	N/A	N/A	N/A	N/A	0.015	N/A	N/A	N/A	N/A	N/A	N/A	0.16	N/A
	9/28/2011	0.0077	0.0149	0.0201	0.0159	0.0205	0.014	0.0212	0.0184	0.063	N/A	0.0509	0.1628	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.175	N/A
	4/26/2012	0.0094	0.0088	0.044	0.0125	0.0257	0.0103	0.0233	0.0275	0.093	N/A	0.0349	0.202	N/A
	10/24/2012	0.0117	0.0124	0.035	0.0126	0.0238	0.0095	0.0205	0.0265	0.0519	N/A	0.0211	0.0896	N/A
	5/7/2013	0.0097	0.0066	0.0211	0.0065	0.0133	0.0092	0.02	0.023	0.049	N/A	0.0181	0.12	N/A
	10/18/2013	< 0.004	< 0.004	0.0065	< 0.004	0.0044	< 0.004	0.0312	0.019	0.0327	N/A	0.0213	0.0439	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.01	N/A	N/A	N/A
	3/25/2014	< 0.004	0.0231	< 0.02	< 0.004	0.0062	< 0.004	0.0225	< 0.02	0.0267	0.0088	0.0229	0.0945	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0259	N/A	N/A
	9/30/2014	< 0.004	< 0.004	0.0059	< 0.004	0.0074	< 0.004	0.0124	0.0126	0.0346	0.0145	0.0207	0.0209	N/A
	2/24/2015	N/A	N/A	N/A	N/A	0.0237	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	0.00581	0.00148*	0.00671	0.0289	0.0042*	0.000794*	0.0135	0.0132	0.0364	N/A	0.0166	0.0498	N/A
	10/12/2015	0.000745*	0.00389*	0.00814	0.00345*	0.0102	0.000796*	0.0145	0.00635	0.0634	N/A	0.0213	0.0426	N/A
	4/12/2016	0.00203*	< 0.005	0.00673	0.00627	0.0232	< 0.005	0.00796	0.00596	0.0483	N/A	0.0184	0.032	N/A
	9/22/2016	N/A	< 0.005	0.00943	N/A	< 0.005	0.00462*	0.0121	0.0213	0.0222	0.00686	0.0221	0.0265	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0216	N/A	N/A	N/A	N/A
	3/20/2017	0.00126*	0.0012*	0.00235*	0.000954*	0.00132*	N/A	0.0108	0.015	0.0256	0.00771	0.0227	0.0348	N/A
	3/20/2017	N/A	N/A	N/A	N/A	0.00155*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	0.00794	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 0.005	< 0.005	0.00312*	< 0.005	0.00116*	0.00409*	0.0198	0.0156	0.034	0.00714	0.0283	0.0246	N/A
	7/24/2017	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 0.005	0.00215*	0.00194*	< 0.005	0.00271*	0.00749	0.00732	0.0166	0.0266	N/A	0.0185	0.0365	N/A
	5/15/2018	N/A	N/A	N/A	N/A	0.00372*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 0.005	0.00117*	0.00876	< 0.005	0.00578	0.00105*	0.0192	0.0119	0.0426	N/A	0.0186	0.0287	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	0.00372*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	0.00182*	0.0024	0.00546	0.0012*	0.00555	0.00365	0.00273	0.0223	0.0396	N/A	0.0176	0.0276	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	0.00549	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 0.005	< 0.005	0.00776	< 0.005	0.00821	0.00716	0.0147	0.017	0.0413	N/A	0.02	0.029	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0414	N/A	N/A	N/A	N/A
	3/11/2020	< 0.005	< 0.005	0.0075	< 0.005	0.0108	0.00557	0.0106	0.0168	0.0419	N/A	0.0154	0.0237	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0279	N/A
	8/19/2020	< 0.005	< 0.005	0.00719	< 0.005	0.0206	0.00607	0.0176	0.0141	0.0152	N/A	0.0123	0.0302	N/A
	8/19/2020	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 0.005	< 0.005	0.00578	< 0.005	0.0185	0.00297*	0.0247	0.014	0.0482	N/A	0.109	0.0376	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	0.00297*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 0.005	< 0.005	0.00573	< 0.005	0.0163	0.00442*	0.0473	0.0147	0.0407	0.00449*	0.0459	0.0306	< 0.005
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	0.0455	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 0.005	< 0.005	0.00496*	< 0.005	N/A	0.0085	0.0201	0.0144	0.0472	0.00609	0.0134	0.0211	0.00201*
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0145	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	0.00893	N/A	N/A	N/A	0.0386	0.00669	0.00908	0.0244	< 0.005
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00681	N/A	N/A	N/A
	3/8/2023	N/A	N/A	0.00717	< 0.005	0.0105	0.00599	N/A	0.0137	0.0456	0.00658	0.0141	0.0844	< 0.005

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Total Metals Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Nickel, mg/L (CAS NO - 7440-02-0)	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	**0.0474**	N/A	**0.0242**	**0.00737**	**0.012**	**0.0213**	< 0.005
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	**0.0382**	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	0.00331*	< 0.005	**0.0252**	**0.00777**	**0.0157**	**0.0183**	**0.0126**	**0.00664**	**0.0107**	**0.0157**	< 0.005
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0104**	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0444**	**0.00705**	**0.0107**	**0.0115**	< 0.005
Selenium, mg/L (CAS NO - 7782-49-2)	10/19/2009	< 0.01	< 0.01	< 0.01	< 0.01	N/A	< 0.01	< 0.01	< 0.01	< 0.01	N/A	< 0.01	N/A	N/A
	3/2/2010	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	N/A	N/A
	5/20/2010	< 0.005	< 0.005	**0.005**	< 0.005	< 0.005	< 0.005	< 0.005	**0.006**	< 0.005	N/A	< 0.005	< 0.005	N/A
	8/27/2010	< 0.005	**0.007**	< 0.005	< 0.005	**0.006**	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	10/1/2010	< 0.005	**0.007**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	4/29/2011	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	N/A	< 0.01	< 0.01	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	N/A
	9/28/2011	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	N/A	< 0.01	< 0.01	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	N/A
	4/26/2012	< 0.004	**0.0053**	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	**0.0044**	N/A	< 0.004	**0.0139**	N/A
	10/24/2012	< 0.004	< 0.004	< 0.004	**0.0056**	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	N/A	< 0.004	**0.0042**	N/A
	5/7/2013	< 0.004	**0.005**	< 0.004	**0.0059**	< 0.004	< 0.004	**0.0092**	< 0.004	< 0.004	N/A	< 0.004	**0.0084**	N/A
	7/24/2013	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	N/A	N/A	N/A	N/A	< 0.004	N/A
	10/18/2013	< 0.004	**0.0071**	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	N/A	< 0.004	< 0.004	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	N/A	N/A	N/A
	3/25/2014	< 0.004	**0.0078**	< 0.02	**0.0129**	< 0.004	< 0.004	< 0.02	< 0.02	< 0.004	< 0.004	< 0.004	< 0.004	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	N/A	N/A
	9/30/2014	< 0.004	**0.0041**	< 0.004	**0.0081**	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.004	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 0.005	**0.00571**	< 0.005	0.00476*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	10/12/2015	< 0.005	0.0048*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	4/12/2016	< 0.005	**0.005**	< 0.005	< 0.005	0.00105*	< 0.005	< 0.005	0.00181*	< 0.005	N/A	< 0.005	< 0.005	N/A
	9/22/2016	N/A	**0.0106**	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
	3/20/2017	< 0.005	**0.0157**	< 0.005	< 0.005	0.00111*	N/A	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	3/20/2017	N/A	N/A	N/A	N/A	0.00129*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 0.005	**0.0105**	< 0.005	< 0.005	< 0.005	< 0.005	0.00113*	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	7/24/2017	N/A	**0.0112**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 0.005	**0.0135**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 0.005	**0.015**	< 0.005	< 0.005	< 0.005	< 0.005	0.00184*	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 0.0025	**0.0141**	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	N/A	< 0.0025	< 0.0025	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 0.0025	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 0.005	**0.0146**	< 0.005	< 0.005	< 0.005	< 0.005	0.00197*	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
	3/11/2020	< 0.005	**0.0176**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A
	8/19/2020	< 0.005	**0.0164**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	8/19/2020	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 0.005	**0.017**	< 0.005	< 0.005	< 0.005	< 0.005	**0.00693**	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 0.005	**0.0165**	0.001*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Total Metals Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Selenium, mg/L (CAS NO - 7782-49-2)	5/11/2022	< 0.005	0.0188	< 0.005	< 0.005	N/A	< 0.005	0.0191	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.005
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00154*	< 0.005	< 0.005	< 0.005	< 0.005
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Silver, mg/L (CAS NO - 7440-22-4)	10/19/2009	< 0.01	< 0.01	< 0.01	< 0.01	N/A	< 0.01	< 0.01	< 0.01	< 0.01	N/A	< 0.01	N/A	N/A
	3/2/2010	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	N/A	N/A
	5/20/2010	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A
	8/27/2010	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	10/1/2010	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	4/29/2011	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	N/A
	9/28/2011	0.0034	0.0159	0.0156	0.0163	0.016	0.0162	0.016	0.0162	0.0166	N/A	0.0161	0.0201	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	N/A
	4/26/2012	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	N/A	< 0.008	< 0.008	N/A
	10/24/2012	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	N/A	< 0.004	< 0.004	N/A
	5/7/2013	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	N/A	< 0.004	< 0.004	N/A
	10/18/2013	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	N/A	< 0.004	< 0.004	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	N/A	N/A	N/A
	3/25/2014	< 0.004	< 0.004	< 0.02	< 0.004	< 0.004	< 0.004	< 0.02	< 0.02	< 0.004	< 0.004	< 0.004	< 0.004	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	N/A	N/A
	9/30/2014	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.004	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	0.000043*	0.000047*	0.000055*	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A
	10/12/2015	0.000129*	0.000117*	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.000145*	< 0.001	N/A	< 0.001	< 0.001	N/A
	4/12/2016	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A
	9/22/2016	N/A	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	0.0268	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A
	3/20/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A
	7/24/2017	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.000335*	< 0.001	N/A	< 0.001	< 0.002	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	N/A	< 0.0005	< 0.0005	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A
	3/11/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A
	8/19/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A
	8/19/2020	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Total Metals Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Silver, mg/L (CAS NO - 7440-22-4)	3/23/2021	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.004	< 0.001
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000856*	< 0.001	< 0.001	< 0.001	< 0.001
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Thallium, mg/L (CAS NO - 7440-28-0)	10/19/2009	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	N/A	N/A
	3/2/2010	< 0.00025	**0.00056**	< 0.00025	< 0.00025	N/A	< 0.00025	< 0.00025	< 0.00025	< 0.00025	N/A	< 0.00025	N/A	N/A
	5/20/2010	< 0.00025	**0.00056**	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	N/A	< 0.00025	< 0.00025	N/A
	8/27/2010	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	< 0.002	N/A
	10/1/2010	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	< 0.002	N/A
	4/29/2011	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	< 0.002	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A
	9/28/2011	0.0233	0.052	0.0621	0.0151	< 0.01	0.0193	0.0655	0.5551	< 0.01	N/A	< 0.01	< 0.01	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A
	4/26/2012	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	< 0.002	N/A
	10/24/2012	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	< 0.002	N/A
	5/7/2013	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	< 0.002	N/A
	10/18/2013	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	N/A	< 0.004	< 0.004	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	N/A	N/A	N/A
	3/25/2014	< 0.004	< 0.004	< 0.02	< 0.004	< 0.004	< 0.004	< 0.02	< 0.02	< 0.004	< 0.004	< 0.004	< 0.004	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	N/A	N/A
	9/30/2014	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.004	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 0.001	0.000056*	0.000049*	< 0.001	< 0.001	< 0.001	< 0.001	0.000038*	0.000123*	N/A	< 0.001	< 0.001	N/A
	10/12/2015	0.000039*	0.000081*	0.000064*	< 0.001	0.000053*	< 0.001	0.000041*	0.000065*	0.000095*	N/A	0.000035*	0.000044*	N/A
	4/12/2016	0.000031*	0.000056*	< 0.001	< 0.001	0.000026*	< 0.001	< 0.001	0.000046*	0.000116*	N/A	0.000029*	< 0.001	N/A
	9/22/2016	N/A	0.000036*	0.000026*	N/A	< 0.001	< 0.001	< 0.001	0.000058*	< 0.001	N/A	< 0.001	0.000038*	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A
	3/20/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A
	7/24/2017	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	< 0.002	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Total Metals Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Thallium, mg/L (CAS NO - 7440-28-0)	3/11/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A
	8/19/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A
	8/19/2020	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	**0.0011**	**0.00108**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	0.000833*	**0.00168**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.004	< 0.001
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0121**	< 0.001	< 0.001	< 0.001	< 0.001
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Tin, mg/L (CAS NO - 7440-31-5)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A
	10/24/2012	N/A	N/A	N/A	< 0.02	N/A	< 0.02	N/A	N/A	< 0.02	N/A	< 0.02	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.02	N/A	< 0.02	N/A	N/A	< 0.02	N/A	< 0.02	< 0.02	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	< 0.1	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 0.1	N/A	< 0.1	N/A	N/A	< 0.1	N/A	< 0.1	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 0.005	N/A	< 0.005	N/A	N/A	< 0.005	N/A	< 0.005	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	< 0.005	N/A	N/A	N/A	N/A	N/A
Vanadium, mg/L (CAS NO - 7440-62-2)	10/19/2009	< 0.05	< 0.05	< 0.05	< 0.05	N/A	< 0.05	< 0.05	< 0.05	< 0.05	N/A	< 0.05	N/A	N/A
	3/2/2010	< 0.02	**0.02**	< 0.02	< 0.02	N/A	< 0.02	< 0.02	< 0.02	< 0.02	N/A	< 0.02	N/A	N/A
	5/20/2010	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	< 0.02	< 0.02	N/A
	8/27/2010	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	N/A	< 0.05	< 0.05	N/A
	10/1/2010	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	N/A	< 0.05	< 0.05	N/A
	4/29/2011	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	N/A	< 0.05	< 0.05	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A
	9/28/2011	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	< 0.002	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.04	N/A
	4/26/2012	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	< 0.02	< 0.02	N/A
	10/24/2012	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	< 0.02	< 0.02	N/A
	5/7/2013	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	< 0.02	< 0.02	N/A
	10/18/2013	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**0.0231**	< 0.02	< 0.02	N/A	< 0.02	< 0.02	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	< 0.02	N/A	N/A	N/A
	3/25/2014	< 0.02	**0.0424**	< 0.1	< 0.02	< 0.02	< 0.02	< 0.1	< 0.1	< 0.02	< 0.02	< 0.02	< 0.02	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A
	9/30/2014	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	0.000868*	0.00167*	0.00186*	**0.0134**	0.00254*	0.000606*	0.000466*	0.000789*	0.00479*	N/A	< 0.005	0.00138*	N/A
	10/12/2015	< 0.005	0.00224*	0.000453*	**0.00533**	0.00365*	< 0.005	0.000455*	< 0.005	**0.00811**	N/A	< 0.005	0.00138*	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Total Metals Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Vanadium, mg/L (CAS NO - 7440-62-2)	4/12/2016	0.000563*	0.000666*	0.000639*	0.00488*	**0.0127**	< 0.005	0.000432*	0.00037*	0.0039*	N/A	0.001*	0.000873*	N/A
	9/22/2016	N/A	0.000453*	0.000556*	N/A	0.00115*	0.000346*	0.000906*	0.000305*	0.0011*	N/A	0.00033*	0.00134*	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00104*	N/A	N/A	N/A	N/A
	3/20/2017	< 0.005	< 0.005	< 0.005	0.00147*	0.00137*	N/A	0.00275*	< 0.005	0.00143*	N/A	0.000968*	0.000941*	N/A
	3/20/2017	N/A	N/A	N/A	N/A	0.00153*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 0.005	< 0.005	< 0.005	0.0015*	0.000933*	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	7/24/2017	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 0.005	0.000916*	< 0.005	0.0013*	0.00103*	< 0.005	0.00432*	< 0.005	< 0.005	N/A	0.000852*	< 0.005	N/A
	5/15/2018	N/A	N/A	N/A	N/A	0.00104*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 0.005	0.000601*	< 0.005	0.00231*	0.00108*	< 0.005	0.00197*	< 0.005	< 0.005	N/A	0.000597*	0.00099*	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	0.000982*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 0.005	< 0.005	< 0.005	0.00164*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
	3/11/2020	< 0.005	0.000965*	< 0.005	0.00171*	0.00138*	0.000867*	< 0.005	< 0.005	0.000839*	N/A	< 0.005	< 0.005	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A
	8/19/2020	< 0.005	< 0.005	< 0.005	0.00139*	0.00139*	< 0.005	< 0.005	< 0.005	0.00148*	N/A	0.00128*	< 0.005	N/A
	8/19/2020	N/A	N/A	N/A	0.00151*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 0.005	< 0.005	< 0.005	0.00215*	0.00132*	< 0.005	0.00484*	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 0.005	< 0.005	< 0.005	0.00124*	< 0.005	< 0.005	0.0029*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	0.00283*	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 0.005	< 0.005	< 0.005	0.00124*	N/A	< 0.005	0.00318*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.005
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	< 0.005	< 0.005	0.00196*	< 0.005
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00143*	< 0.005	0.00206*	0.00159*	< 0.005
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	< 0.005	< 0.005	0.00139*	< 0.005
Zinc, mg/L (CAS NO - 7440-66-6)	10/19/2009	< 0.02	**0.03**	< 0.02	**0.18**	N/A	< 0.02	< 0.02	**0.03**	**0.09**	N/A	< 0.02	N/A	N/A
	3/2/2010	< 0.02	**0.02**	< 0.02	**0.1**	N/A	< 0.02	< 0.02	< 0.02	**0.02**	N/A	< 0.02	N/A	N/A
	5/20/2010	< 0.02	**0.03**	< 0.02	**0.04**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	< 0.02	< 0.02	N/A
	8/27/2010	< 0.02	< 0.02	< 0.02	**0.03**	**0.05**	< 0.02	< 0.02	< 0.02	< 0.02	N/A	< 0.02	< 0.02	N/A
	10/1/2010	< 0.02	< 0.02	**0.03**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	< 0.02	< 0.02	N/A
	4/29/2011	< 0.02	**0.02**	**0.02**	**0.04**	**0.03**	< 0.02	< 0.02	< 0.02	< 0.02	N/A	< 0.02	< 0.02	N/A
	6/8/2011	N/A	N/A	N/A	**0.07**	**0.03**	N/A	N/A	N/A	N/A	N/A	N/A	**0.02**	N/A
	9/28/2011	0.0363	0.0393	0.0454	0.0479	0.0542	0.0173	0.0315	0.0252	0.0294	N/A	0.0268	0.0318	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.117**	N/A
	4/26/2012	**0.0104**	**0.0116**	**0.0146**	**0.0313**	**0.0226**	**0.0206**	**0.0145**	**0.0237**	**0.017**	N/A	**0.0083**	**0.0199**	N/A
	10/24/2012	**0.0551**	**0.0445**	**0.0772**	**0.0427**	**0.0333**	**0.0417**	**0.0204**	< 0.02	**0.0223**	N/A	**0.0108**	**0.0332**	N/A
	5/7/2013	**0.0164**	**0.0334**	< 0.008	**0.0121**	**0.008**	< 0.008	< 0.008	**0.0168**	**0.0115**	N/A	< 0.008	**0.0267**	N/A
	10/18/2013	**0.0119**	**0.0206**	**0.0345**	**0.0182**	**0.0314**	**0.0112**	**0.0287**	**0.274**	< 0.02	N/A	**0.0217**	**0.059**	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0108**	N/A	**0.0823**	N/A
	3/25/2014	**0.0336**	**0.113**	< 0.1	**0.0206**	**0.091**	< 0.008	< 0.1	**0.122**	< 0.008	< 0.008	**0.0187**	**0.114**	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0202**	N/A	N/A
	9/30/2014	**0.0096**	**0.0202**	**0.0157**	**0.0188**	**0.0812**	**0.0113**	< 0.008	**0.0664**	< 0.008	**0.0426**	< 0.008	**0.012**	N/A

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Summary of Groundwater Chemistry

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Total Metals Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Zinc, mg/L (CAS NO - 7440-66-6)	2/24/2015	N/A	N/A	N/A	N/A	0.127	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	0.0122	0.0339	0.00944*	0.105	0.0608	< 0.01	< 0.01	0.0126	0.0148	N/A	< 0.01	0.0155	N/A
	10/12/2015	< 0.01	0.119	0.0111	0.0118	0.05	< 0.01	0.00803*	0.0297	0.0128	N/A	0.0138	< 0.01	N/A
	4/12/2016	0.00556*	0.0111	< 0.01	0.0144	0.046	< 0.01	0.0159	0.0117	0.00721*	N/A	0.00868*	< 0.01	N/A
	9/22/2016	N/A	0.049	0.00833*	N/A	0.0188	< 0.01	0.00737*	0.0213	< 0.01	N/A	< 0.01	2.85	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A
	3/20/2017	0.0598	0.0187*	1.3	< 0.02	2.47	N/A	0.0159*	< 0.02	< 0.02	N/A	< 0.02	< 0.02	N/A
	3/20/2017	N/A	N/A	N/A	N/A	0.566	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	0.0138*	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.0702	< 0.02	N/A	< 0.02	< 0.02	N/A
	7/24/2017	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 0.02	< 0.02	< 0.02	< 0.02	0.0107*	0.0148*	< 0.02	< 0.02	0.0675	N/A	< 0.02	< 0.02	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	< 0.02	< 0.02	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	0.0104*	0.0099*	< 0.02	0.00879*	0.00846*	0.0098*	< 0.02	0.00997*	0.00903*	N/A	0.0102*	0.0244	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	0.0185*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.0105*	< 0.02	< 0.02	< 0.02	N/A	< 0.02	< 0.02	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A
	3/11/2020	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.0107*	< 0.02	< 0.02	< 0.02	N/A	< 0.02	< 0.02	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A
	8/19/2020	< 0.02	< 0.02	< 0.02	< 0.02	0.011*	< 0.02	< 0.02	< 0.02	< 0.02	N/A	< 0.02	< 0.02	N/A
	8/19/2020	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.0104*	< 0.02	< 0.02	< 0.02	N/A	< 0.02	< 0.02	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.0117*	0.0179*	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	0.0168*	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 0.02	< 0.02	< 0.02	< 0.02	N/A	0.0102*	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.08	< 0.02
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	< 0.02	0.00713*	< 0.02	< 0.02
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	< 0.02	< 0.02	< 0.02	0.0106*	< 0.02	< 0.02
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Total Suspended Solids, mg/L (CAS NO - TSS)	9/30/2014	30	53	7	11	58	29	6	9	6	15	41	135	N/A
	4/15/2015	23.5	77.8	133	265	21.8	16	6.33	21.6	209	8.25	24	192	N/A
	10/12/2015	2.25	19.1	203	17	146	6.12	15	3.87	17.1	13.9	37.9	124	N/A
	4/12/2016	6.12	4.88	293	16.8	304	17.5	104	14.9	18.8	28.1	45.8	123	N/A
	9/22/2016	N/A	3.5	303	N/A	17.3	22.3	31	2.75	15	6.5	54.5	138	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8.5	N/A	N/A	N/A	N/A
	12/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	39.4	N/A	N/A
	3/20/2017	11	11.9	3.13	7.5	3	N/A	46.6	8.5	38.4	3.25	96.5	88.6	N/A
	3/20/2017	N/A	N/A	N/A	N/A	2.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	67	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	2	1.13*	1.88	2.75	2.63	47.5	6.38	< 1.88	4	4.38	76.4	61.4	N/A
	7/24/2017	N/A	0.875*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	3.75	38.5	2.25	2.38	3.25*	9	82	11.5	17.3	0.875*	10.5	71	N/A
	5/15/2018	N/A	N/A	N/A	N/A	7.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Total Metals Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Total Suspended Solids, mg/L (CAS NO - TSS)	8/22/2018	1.5*	2.38	2	4	3	65	21.5	9	3.25	1.5*	60	70	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	36	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	2.25	< 1.88	< 1.88	1*	1.38*	23.8	0.875*	3.38	2	N/A	50.1	59.5	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	24.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	1*	< 1.88	< 1.88	< 1.88	4.13	64	1.13*	2.38	< 1.88	< 1.88	66	60	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.63*	N/A	N/A	N/A	N/A
	3/11/2020	1.88	1.13*	2.25	1.38*	1.75*	21.5	3	2.25	1.75*	N/A	49	96	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	89	N/A
	8/19/2020	1.5*	< 1.88	0.875*	2.75	10.8	30.4	5.87	2	1.38*	1.38*	60	60.7	1.63*
	8/19/2020	N/A	N/A	N/A	2.75	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	7.75	7.75	1.88	5.63	1.5*	18.5	32	9.25	3.63	1.88	26	68	26
	3/23/2021	N/A	N/A	N/A	N/A	N/A	25.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	4.88	25.1	1.88	5.37	0.875*	79	17.8	15.8	5.13	< 1.88	24.3	91.3	46.3
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	6	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	0.75*	< 1.88	2.63	1.38*	N/A	18.8	1*	10.4	1.25*	0.875*	18.5	68	19
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.33	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	2.63	N/A	N/A	N/A	12.3	1.25*	48	110	60
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.63*	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	2.5	N/A	20	N/A	1.13*	2.25	1.5*	3.75	86	18.5
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	3.38	N/A	1*	2	79	88	58
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	30	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	2.88	8.37	6.75	78	< 1.88	3.5	2	< 1.88	67	123	48
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.63	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.5	2.88	41	72	54

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

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
1,1,1,2-Tetrachloroethane, ug/L (CAS NO - 630-20-6)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/18/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/12/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	4/12/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/22/2016	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/20/2017	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	7/24/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/19/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 1	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
1,1,1,2-Tetrachloroethane, ug/L (CAS NO - 630-20-6)	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	N/A	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane, ug/L (CAS NO - 71-55-6)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/18/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/12/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	4/12/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/22/2016	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/20/2017	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	7/24/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/19/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
1,1,1-Trichloroethane, ug/L (CAS NO - 71-55-6)	5/11/2022	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 1	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	N/A	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane, ug/L (CAS NO - 79-34-5)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/18/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/12/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	4/12/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/22/2016	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/20/2017	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	7/24/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/19/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
1,1,2,2-Tetrachloroethane, ug/L (CAS NO - 79-34-5)	3/23/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 1	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	N/A	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane, ug/L (CAS NO - 79-00-5)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/18/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/12/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	4/12/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/22/2016	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/20/2017	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	7/24/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A

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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
1,1,2-Trichloroethane, ug/L (CAS NO - 79-00-5)	8/19/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 1	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	N/A	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane, ug/L (CAS NO - 75-34-3)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/26/2012	< 1	< 1	< 1	1.1	< 1	< 1	< 1	< 1	1.4	N/A	< 1	< 1	N/A
	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	1.3	N/A	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	1.1	< 1	< 1	< 1	< 1	1.2	N/A	< 1	< 1	N/A
	10/18/2013	< 1	< 1	< 1	1.4	< 1	< 1	< 1	< 1	1.6	N/A	< 1	< 1	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/25/2014	< 1	< 1	< 1	1.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.3	< 1	< 1	< 1	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 1	< 1	< 1	0.558*	< 1	< 1	< 1	< 1	1.33	N/A	< 1	0.771*	N/A
	10/12/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.35	N/A	< 1	< 1	N/A
	4/12/2016	< 1	< 1	< 1	0.595*	< 1	< 1	< 1	< 1	1.29	N/A	0.294*	0.28*	N/A
	9/22/2016	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	1.11	N/A	< 1	< 1	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.2	N/A	N/A	N/A	N/A
	3/20/2017	< 1	< 1	< 1	0.66*	< 1	N/A	< 1	1.06	1.39	N/A	< 1	0.339*	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	0.448*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 1	< 1	< 1	< 1	< 1	0.243*	< 1	0.993*	1.32	N/A	< 1	< 1	N/A
	7/24/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	0.654*	< 1	< 1	< 1	0.535*	1.43	N/A	< 1	0.631*	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	0.609*	< 1	< 1	< 1	< 1	1.38	N/A	< 1	0.291*	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	0.573*	< 1	< 1	< 1	< 1	1.01	N/A	< 1	0.554*	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
1,1-Dichloroethane, ug/L (CAS NO - 75-34-3)	9/19/2019	< 1	< 1	< 1	0.45*	< 1	0.236*	< 1	0.327*	0.718*	N/A	< 1	< 1	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.831*	N/A	N/A	N/A	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.708*	N/A	< 1	< 1	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/19/2020	< 1	< 1	0.265*	0.483*	< 1	< 1	< 1	< 1	0.418*	N/A	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	0.542*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 1	< 1	0.271*	0.555*	< 1	< 1	< 1	< 1	1.37	N/A	< 1	0.788*	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 1	< 1	0.3*	0.365*	< 1	< 1	< 1	1.18	1.08	< 1	< 1	0.233*	< 1
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 1	< 1	< 1	< 1	N/A	< 1	< 1	1.36	0.732*	< 1	< 1	< 1	< 1
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.53	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.893*	< 1	< 1	0.38*	< 1
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	0.495*	N/A	< 1	N/A	0.261*	1.34	< 1	< 1	0.319*	< 1
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	N/A	N/A	0.313*	N/A	< 1	< 1	0.545*	0.227*	< 1	< 1	0.319*	< 1
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.41*	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.947*	< 1	< 1	< 1	< 1
1,1-Dichloroethene, ug/L (CAS NO - 75-35-4)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/18/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2	N/A
	10/12/2015	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2	N/A
	4/12/2016	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2	N/A
	9/22/2016	N/A	< 2	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	3/20/2017	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2	< 2	N/A	< 2	< 2	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2	N/A
	7/24/2017	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
1,1-Dichloroethene, ug/L (CAS NO - 75-35-4)	8/22/2018	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	3/11/2020	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A
	8/19/2020	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2	N/A
	8/19/2020	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 2	< 2	< 2	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	< 2	< 2	< 2
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 2	N/A	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	< 2	< 2	< 2
	5/29/2024	N/A	N/A	N/A	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	< 2	< 2	< 2
1,2,3-Trichloropropane, ug/L (CAS NO - 96-18-4)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/18/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/12/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	4/12/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/22/2016	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/20/2017	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
1,2,3-Trichloropropane, ug/L (CAS NO - 96-18-4)	7/24/2017	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	7/24/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/19/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 1	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	N/A	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
1,2-Dibromo-3-Chloropropane, ug/L (CAS NO - 96-12-8)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/18/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	< 0.5	< 0.5	N/A
	10/12/2015	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	< 0.5	< 0.5	N/A
	4/12/2016	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	< 0.5	< 0.5	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
1,2-Dibromo-3-Chloropropane, ug/L (CAS NO - 96-12-8)	9/22/2016	N/A	< 0.5	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	< 0.5	< 0.5	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A
	3/20/2017	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	< 0.5	< 0.5	< 0.5	N/A	< 0.5	< 0.5	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	< 0.5	< 0.5	N/A
	7/24/2017	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	< 0.5	< 0.5	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	< 0.5	< 0.5	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	N/A	< 1.2	< 1.2	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	N/A	< 1.2	< 1.2	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A
	3/11/2020	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	8/19/2020	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/19/2020	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 5	N/A	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5
	5/29/2024	N/A	N/A	N/A	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5
1,2-Dibromoethane [EDB], ug/L (CAS NO - 106-93-4)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/18/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
1,2-Dibromoethane [EDB], ug/L (CAS NO - 106-93-4)	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	< 0.13	< 0.13	N/A
	10/12/2015	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	< 0.13	< 0.13	N/A
	4/12/2016	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	< 0.13	< 0.13	N/A
	9/22/2016	N/A	< 0.13	< 0.13	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	< 0.13	< 0.13	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A
	3/20/2017	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	< 0.13	< 0.13	< 0.13	N/A	< 0.13	< 0.13	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	< 0.13	< 0.13	N/A
	7/24/2017	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	< 0.13	< 0.13	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	< 0.13	< 0.13	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	N/A	< 0.34	< 0.34	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	N/A	< 0.34	< 0.34	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/19/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 1	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	N/A	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene, ug/L (CAS NO - 95-50-1)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/18/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A

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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
1,2-Dichlorobenzene, ug/L (CAS NO - 95-50-1)	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/12/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	0.397*	< 1	N/A
	4/12/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	0.386*	0.234*	N/A
	9/22/2016	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/20/2017	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	0.284*	N/A
	7/24/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	0.172*	0.211*	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	0.458*	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.404*	N/A
	8/19/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.453*	< 1
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 1	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	0.376*	< 1	< 1
	5/29/2024	N/A	N/A	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	0.424*	< 1	< 1
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	0.439*	< 1	< 1
1,2-Dichloroethane, ug/L (CAS NO - 107-06-2)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
1,2-Dichloroethane, ug/L (CAS NO - 107-06-2)	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/18/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/12/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	4/12/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/22/2016	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/20/2017	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	N/A	< 1	0.226*	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	7/24/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	< 1	< 1	< 1	0.194*	< 1	< 1	N/A	< 1	0.205*	N/A
	5/15/2018	N/A	N/A	N/A	N/A	0.205*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/19/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 1	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	N/A	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane, ug/L (CAS NO - 78-87-5)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
1,2-Dichloropropane, ug/L (CAS NO - 78-87-5)	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/18/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/12/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	4/12/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/22/2016	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/20/2017	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	7/24/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.392*	N/A	< 1	< 1	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.312*	N/A	N/A	N/A	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/19/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.512*	N/A	< 1	< 1	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.498*	< 1	< 1	< 1	< 1
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	0.342*	< 1	< 1	< 1	< 1
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.406*	< 1	< 1	< 1	< 1
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 1	N/A	< 1	N/A	< 1	0.585*	< 1	< 1	< 1	< 1
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	N/A	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.38*	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene, ug/L (CAS NO - 106-46-7)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
1,4-Dichlorobenzene, ug/L (CAS NO - 106-46-7)	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	6	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	6	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	10	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	13	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	7	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.9	N/A
	4/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	1.1	6.6	N/A
	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	1.6	1.4	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	1.9	N/A	N/A
	5/7/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	1.4	11.2	N/A
	10/18/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	1.9	5.2	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.6	4.4	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.2	N/A	N/A
	9/30/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	2.1	26.2	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	1.06	5.21	N/A
	10/12/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	1.85	< 1	N/A
	4/12/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	12.9	N/A
	9/22/2016	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	1.61	9.55	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/20/2017	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	N/A	< 1	4.5	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	7/24/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.516*	< 1	N/A	0.845*	7.78	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	1.36	7.45	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	1.1	8.01	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.695*	< 1	N/A	1.36	7.92	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.595*	< 1	N/A	1.7	16.8	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15	N/A
	8/19/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	10.4	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.366*	< 1	N/A	0.482*	7.48	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.341*	< 1	< 1	0.43*	13.6	< 1
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	0.41*	5.17	< 1
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 1	N/A	< 1	N/A	< 1	< 1	< 1	< 1	10.3	< 1
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	1.57	11	< 1

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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
1,4-Dichlorobenzene, ug/L (CAS NO - 106-46-7)	5/29/2024	N/A	N/A	N/A	< 1	N/A	< 1	< 1	0.378*	< 1	< 1	2.01	10.7	< 1
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.363*	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	1.93	10.7	< 1
2-Butanone, ug/L (CAS NO - 78-93-3)	10/19/2009	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A
	3/2/2010	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A
	5/20/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	8/27/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	10/1/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	4/29/2011	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	9/28/2011	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	4/26/2012	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/24/2012	< 5	< 5	< 5	N/A	< 5	N/A	< 5	< 5	N/A	N/A	< 5	< 5	N/A
	11/28/2012	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	< 5	N/A	< 5	N/A	N/A
	5/7/2013	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/18/2013	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	3/25/2014	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A
	9/30/2014	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	2.12*	N/A
	10/12/2015	< 10	< 10	< 10	8.61*	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	4/12/2016	< 10	< 10	< 10	4.04*	< 10	< 10	< 10	< 10	< 10	N/A	< 10	2.91*	N/A
	9/22/2016	N/A	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	3/20/2017	< 10	< 10	4.45*	3.52*	4.06*	N/A	< 10	< 10	< 10	N/A	< 10	1.05*	N/A
	3/20/2017	N/A	N/A	N/A	N/A	3.54*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 10	< 10	1.69*	1.92*	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	7/24/2017	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	3/11/2020	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	8/19/2020	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	8/19/2020	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
2-Butanone, ug/L (CAS NO - 78-93-3)	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 10	N/A	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10
	5/29/2024	N/A	N/A	N/A	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10
2-Hexanone, ug/L (CAS NO - 591-78-6)	10/19/2009	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A
	3/2/2010	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A
	5/20/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	8/27/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	10/1/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	4/29/2011	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	9/28/2011	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	4/26/2012	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/24/2012	< 5	< 5	< 5	N/A	< 5	N/A	< 5	< 5	N/A	N/A	< 5	< 5	N/A
	11/28/2012	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	< 5	N/A	< 5	N/A	N/A
	5/7/2013	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/18/2013	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	3/25/2014	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A
	9/30/2014	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	10/12/2015	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	4/12/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	9/22/2016	N/A	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	3/20/2017	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	7/24/2017	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	3/11/2020	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	8/19/2020	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	8/19/2020	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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2-Hexanone, ug/L (CAS NO - 591-78-6)	9/15/2021	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 10	N/A	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10
	5/29/2024	N/A	N/A	N/A	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-Pentanone, ug/L (CAS NO - 108-10-1)	10/19/2009	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A
	3/2/2010	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A
	5/20/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	8/27/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	10/1/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	4/29/2011	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	9/28/2011	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	4/26/2012	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/24/2012	< 5	< 5	< 5	N/A	< 5	N/A	< 5	< 5	N/A	N/A	< 5	< 5	N/A
	11/28/2012	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	< 5	N/A	< 5	N/A	N/A
	5/7/2013	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/18/2013	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	3/25/2014	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A
	9/30/2014	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	10/12/2015	< 10	< 10	< 10	2.61*	< 10	1.9*	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	4/12/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	9/22/2016	N/A	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	3/20/2017	< 10	< 10	< 10	1.21*	< 10	N/A	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 10	< 10	< 10	1.05*	< 10	2.45*	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	7/24/2017	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 10	< 10	< 10	< 10	< 10	3.68*	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	3/11/2020	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A

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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
4-Methyl-2-Pentanone, ug/L (CAS NO - 108-10-1)	8/19/2020	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	8/19/2020	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 10	< 10	< 10	< 10	2.77*	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 10	N/A	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10
	5/29/2024	N/A	N/A	N/A	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10
Acetone, ug/L (CAS NO - 67-64-1)	10/19/2009	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	10	N/A	< 10	N/A	N/A
	3/2/2010	< 10	< 10	< 10	< 10	N/A	< 10	< 10	15	< 10	N/A	< 10	N/A	N/A
	5/20/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	15	< 10	N/A	< 10	< 10	N/A
	8/27/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	10/1/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	4/29/2011	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	9/28/2011	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	4/26/2012	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	124	N/A
	10/24/2012	< 10	< 10	< 10	N/A	< 10	N/A	< 10	< 10	N/A	N/A	< 10	11.8	N/A
	11/28/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A
	5/7/2013	< 10	< 10	< 10	< 10	< 10	< 10	< 10	12.5	< 10	N/A	< 10	346	N/A
	10/18/2013	< 10	< 10	< 10	< 10	< 10	< 10	< 10	249	< 10	N/A	< 10	10.5	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	3/25/2014	< 10	< 10	< 10	< 10	< 10	< 10	< 10	98.4	< 10	< 10	< 10	< 10	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	9/30/2014	< 10	< 10	< 10	< 10	< 10	< 10	< 10	13.2	< 10	< 10	< 10	< 10	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 10	< 10	< 10	< 10	< 10	< 10	2.1*	2.09*	< 10	N/A	< 10	5.56*	N/A
	10/12/2015	< 10	< 10	< 10	15.8	< 10	< 10	3.75*	6.85*	< 10	N/A	< 10	< 10	N/A
	4/12/2016	3.41*	6.7*	2.4*	7.67*	5.69*	2.15*	4.25*	< 10	4.22*	N/A	4.43*	17.7	N/A
	9/22/2016	N/A	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	3/20/2017	3.15*	3.52*	24.9	9.69*	33.5	N/A	3.27*	4.07*	3.18*	N/A	3.11*	4.18*	N/A
	3/20/2017	N/A	N/A	N/A	N/A	23.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	2.71*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 10	< 10	12.9	7.31*	3.45*	22.1	< 10	< 10	2.74*	N/A	3.24*	5.48*	N/A
	7/24/2017	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 10	2.03*	2.33*	3.41*	4.56*	2.34*	3.01*	2.6*	2.96*	N/A	3.24*	6.47*	N/A
	5/15/2018	N/A	N/A	N/A	N/A	4.45*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 10	< 10	< 10	4.17*	< 10	< 10	3.52*	< 10	< 10	N/A	< 10	< 10	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 10	< 10	< 10	< 10	< 10	< 10	< 10	16.2	< 10	N/A	< 10	< 10	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Acetone, ug/L (CAS NO - 67-64-1)	9/19/2019	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	3/11/2020	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	8/19/2020	3.1*	< 10	5.37*	< 10	3.69*	< 10	< 10	< 10	< 10	N/A	< 10	3.72*	N/A
	8/19/2020	N/A	N/A	N/A	3.47*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	4.54*	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 10	< 10	< 10	< 10	< 10	< 10	< 10	3.65*	< 10	< 10	< 10	< 10	< 10
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	40	< 10
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	6.48*	< 10	4.46*
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 10	N/A	< 10	N/A	< 10	< 10	< 10	< 10	4.09*	< 10
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10
	5/29/2024	N/A	N/A	N/A	< 10	N/A	< 10	< 10	8.93*	< 10	< 10	< 10	4.61*	< 10
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.3*	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10
Acrylonitrile, ug/L (CAS NO - 107-13-1)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	4/26/2012	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/24/2012	< 5	< 5	< 5	N/A	< 5	N/A	< 5	< 5	N/A	N/A	< 5	< 5	N/A
	11/28/2012	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	< 5	N/A	< 5	N/A	N/A
	5/7/2013	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/18/2013	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	3/25/2014	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A
	9/30/2014	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	1.79*	N/A
	10/12/2015	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	4/12/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	9/22/2016	N/A	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	3/20/2017	< 10	< 10	< 10	< 10	0.562*	N/A	< 10	< 10	< 10	N/A	< 10	2.5*	N/A
	3/20/2017	N/A	N/A	N/A	N/A	0.758*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	7/24/2017	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 10	< 10	< 10	< 10	18.6	< 10	< 10	< 10	< 10	N/A	< 10	1.44*	N/A
	5/15/2018	N/A	N/A	N/A	N/A	17.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Acrylonitrile, ug/L (CAS NO - 107-13-1)	8/22/2018	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	3/11/2020	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	8/19/2020	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/19/2020	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 5	N/A	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5
	5/29/2024	N/A	N/A	N/A	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5
Benzene, ug/L (CAS NO - 71-43-2)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.9	N/A
	4/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	1	2	N/A
	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	< 1	1.9	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	1.6	N/A
	10/18/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	1.2	1.7	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	1.1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.2	1.6	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.4	N/A	N/A
	9/30/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.1	1.5	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.153*	N/A	1.21	1.82	N/A
	10/12/2015	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	1.11	2.02	N/A
	4/12/2016	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.142*	< 0.5	0.114*	N/A	0.742	3.05	N/A
	9/22/2016	N/A	< 0.5	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	0.628	3.46	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A
	3/20/2017	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	< 0.5	0.24*	0.161*	N/A	0.685	2.6	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	0.722	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Benzene, ug/L (CAS NO - 71-43-2)	7/24/2017	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.2*	0.286*	N/A	1.06	2.73	N/A
	7/24/2017	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.29*	< 0.5	0.191*	0.391*	N/A	0.477*	2.14	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.349*	N/A	1.1	1.79	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	0.235*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.227*	< 0.5	0.242*	0.573	N/A	0.962	2.09	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.463*	< 0.5	0.356*	0.374*	N/A	1.09	1.99	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.531	N/A	N/A	N/A	N/A
	3/11/2020	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.315*	0.314*	N/A	1.12	2.51	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.51	N/A
	8/19/2020	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.311*	< 0.5	< 0.5	< 0.5	N/A	0.73	1.92	N/A
	8/19/2020	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.426*	N/A	0.447*	2.08	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.36*	< 0.5	< 0.5	0.462*	< 0.5	0.367*	2.38	< 0.5
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 0.5	< 0.5	< 0.5	< 0.5	N/A	< 0.5	< 0.5	< 0.5	0.468*	< 0.5	< 0.5	1.82	< 0.5
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.606	< 0.5	0.432*	1.68	< 0.5
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 0.5	N/A	< 0.5	N/A	< 0.5	0.548	< 0.5	0.285*	1.45	< 0.5
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	< 0.5	0.502	2.33	< 0.5
	5/29/2024	N/A	N/A	N/A	< 0.5	N/A	< 0.5	< 0.5	0.237*	< 0.5	< 0.5	1.08	1.63	< 0.5
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.238*	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.511	< 0.5	1.4	1.87	< 0.5
Bromochloromethane, ug/L (CAS NO - 74-97-5)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/18/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/12/2015	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/12/2016	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Bromochloromethane, ug/L (CAS NO - 74-97-5)	9/22/2016	N/A	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	3/20/2017	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	7/24/2017	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	3/11/2020	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	8/19/2020	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/19/2020	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 5	N/A	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5
	5/29/2024	N/A	N/A	N/A	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5
Bromodichloromethane, ug/L (CAS NO - 75-27-4)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/18/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Bromodichloromethane, ug/L (CAS NO - 75-27-4)	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/12/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	4/12/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/22/2016	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/20/2017	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	7/24/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/19/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 1	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	N/A	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
Bromoform, ug/L (CAS NO - 75-25-2)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/18/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Bromoform, ug/L (CAS NO - 75-25-2)	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/12/2015	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/12/2016	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	9/22/2016	N/A	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	3/20/2017	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	7/24/2017	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	3/11/2020	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	8/19/2020	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/19/2020	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 5	N/A	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5
	5/29/2024	N/A	N/A	N/A	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5
Bromomethane, ug/L (CAS NO - 74-83-9)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A

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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Bromomethane, ug/L (CAS NO - 74-83-9)	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/18/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	0.312*	0.268*	< 4	0.23*	< 4	< 4	0.257*	0.348*	0.248*	N/A	0.266*	0.228*	N/A
	10/12/2015	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4	N/A
	4/12/2016	< 4	< 4	0.97*	< 4	0.595*	0.537*	0.647*	0.719*	0.305*	N/A	0.678*	< 4	N/A
	9/22/2016	N/A	< 4	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	3/20/2017	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4	< 4	N/A	< 4	< 4	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4	N/A
	7/24/2017	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 4	< 4	< 4	< 4	1.16*	< 4	1.13*	< 4	< 4	N/A	1.12*	< 4	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	1.51*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	3/11/2020	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A
	8/19/2020	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4	N/A
	8/19/2020	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 4	< 4	< 4	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	< 4	< 4	< 4	< 4
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 4	N/A	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	< 4	< 4	< 4	< 4
	5/29/2024	N/A	N/A	N/A	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	< 4	< 4	< 4	< 4
Carbon Disulfide, ug/L (CAS NO - 75-15-0)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Carbon Disulfide, ug/L (CAS NO - 75-15-0)	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	**8**	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A
	4/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	**1.6**	N/A
	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/18/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/12/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	4/12/2016	< 1	0.273*	< 1	**5.86**	< 1	0.374*	**1.67**	< 1	< 1	N/A	< 1	< 1	N/A
	9/22/2016	N/A	< 1	**1.62**	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/20/2017	< 1	< 1	**1.96**	**2.04**	**1.58**	N/A	0.484*	0.324*	0.264*	N/A	< 1	0.406*	N/A
	3/20/2017	N/A	N/A	N/A	N/A	0.536*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	0.18*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 1	< 1	0.632*	0.408*	< 1	0.193*	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	7/24/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	< 1	**3.61**	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	5/15/2018	N/A	N/A	N/A	N/A	**3.62**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	< 1	**1.12**	< 1	< 1	< 1	< 1	N/A	0.677*	< 1	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	0.702*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	0.705*	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	< 1	< 1	< 1	0.672*	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/19/2020	< 1	< 1	< 1	< 1	0.86*	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 1	< 1	< 1	< 1	0.589*	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 1	< 1	< 1	< 1	0.752*	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	**4.6**	< 1
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 1	N/A	< 1	N/A	< 1	< 1	< 1	< 1	**6.83**	< 1
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	N/A	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
Carbon Tetrachloride, ug/L (CAS NO - 56-23-5)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Carbon Tetrachloride, ug/L (CAS NO - 56-23-5)	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/18/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2	N/A
	10/12/2015	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2	N/A
	4/12/2016	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2	N/A
	9/22/2016	N/A	< 2	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	3/20/2017	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2	< 2	N/A	< 2	< 2	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2	N/A
	7/24/2017	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	3/11/2020	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A
	8/19/2020	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2	N/A
	8/19/2020	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 2	< 2	< 2	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	< 2	< 2	< 2
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 2	N/A	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	< 2	< 2	< 2

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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Carbon Tetrachloride, ug/L (CAS NO - 56-23-5)	5/29/2024	N/A	N/A	N/A	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	< 2	< 2	< 2
Chlorobenzene, ug/L (CAS NO - 108-90-7)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	6	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	8	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	8	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.3	N/A
	4/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	2.6	4.4	N/A
	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	1.9	3.2	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	2.6	N/A	N/A
	5/7/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	1.7	6.2	N/A
	10/18/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	3.3	5.1	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	3.5	4.8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.9	N/A	N/A
	9/30/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	3	9.4	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	3.16	5.63	N/A
	10/12/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	3.14	5.5	N/A
	4/12/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	2.15	13.9	N/A
	9/22/2016	N/A	< 1	< 1	N/A	< 1	< 1	< 1	1.48	< 1	N/A	2.18	12.3	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/20/2017	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	N/A	1.52	9.42	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	13.7	N/A
	7/24/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.46	< 1	N/A	0.846*	9.4	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.972*	< 1	N/A	< 1	8.9	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	2.04	< 1	N/A	1.64	9.87	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	3.51	< 1	N/A	2.2	11.5	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	3.64	< 1	N/A	2.23	20.3	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	19.4	N/A
	8/19/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.96	< 1	N/A	1.32	15.4	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.13	< 1	N/A	0.714*	9.19	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.64	< 1	< 1	0.654*	17.1	< 1
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 1	< 1	< 1	< 1	N/A	< 1	< 1	0.85*	< 1	< 1	0.566*	8.58	< 1
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.08	N/A	N/A	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Chlorobenzene, ug/L (CAS NO - 108-90-7)	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	0.667*	**8.17**	< 1
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 1	N/A	< 1	N/A	< 1	< 1	< 1	0.514*	**5.84**	< 1
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	**1.62**	**12.4**	< 1
	5/29/2024	N/A	N/A	N/A	< 1	N/A	< 1	< 1	**1.53**	< 1	< 1	**1.96**	**10.4**	< 1
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1.63**	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	**2.57**	**11.7**	< 1
Chlorodibromomethane, ug/L (CAS NO - 124-48-1)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/18/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/12/2015	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/12/2016	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	9/22/2016	N/A	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	3/20/2017	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	7/24/2017	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	3/11/2020	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	8/19/2020	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/19/2020	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Chlorodibromomethane, ug/L (CAS NO - 124-48-1)	9/15/2021	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 5	N/A	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5
	5/29/2024	N/A	N/A	N/A	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5
Chloroethane, ug/L (CAS NO - 75-00-3)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	1	< 1	N/A
	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	1.3	< 1	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	1.5	N/A	N/A
	5/7/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	1.3	< 1	N/A
	10/18/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	2.5	1.2	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A
	3/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	2.6	1.3	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.7	N/A	N/A
	9/30/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.4	2.4	1.3	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	0.493*	N/A	1.77*	1.07*	N/A
	10/12/2015	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	2.68*	< 4	N/A
	4/12/2016	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	1.41*	1.25*	N/A
	9/22/2016	N/A	< 4	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	3/20/2017	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4	< 4	N/A	< 4	< 4	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	0.995*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	1.22*	< 4	N/A
	7/24/2017	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 4	< 4	< 4	< 4	< 4	< 4	< 4	0.834*	0.61*	N/A	< 4	0.693*	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 4	< 4	0.812*	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	0.848*	< 4	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 4	< 4	0.875*	< 4	< 4	< 4	< 4	1.37*	< 4	N/A	1.03*	< 4	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	3/11/2020	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A

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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Chloroethane, ug/L (CAS NO - 75-00-3)	8/19/2020	< 4	< 4	< 4	< 4	< 4	< 4	< 4	1.06*	< 4	N/A	0.959*	< 4	N/A
	8/19/2020	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 4	< 4	< 4	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	< 4	< 4	< 4	< 4
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 4	N/A	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	< 4	0.822*	< 4	< 4
	5/29/2024	N/A	N/A	N/A	< 4	N/A	< 4	< 4	< 4	< 4	< 4	1.47*	< 4	< 4
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	< 4	< 4	< 4	< 4
Chloroform, ug/L (CAS NO - 67-66-3)	10/19/2009	< 5	< 5	< 5	20	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	7	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/18/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 1	< 1	< 1	1.36	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/12/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	4/12/2016	< 1	< 1	< 1	0.499*	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/22/2016	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/20/2017	< 1	< 1	< 1	0.405*	< 1	N/A	< 1	< 1	< 1	N/A	0.295*	< 1	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	7/24/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Chloroform, ug/L (CAS NO - 67-66-3)	9/19/2019	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A
	3/11/2020	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A
	8/19/2020	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3	N/A
	8/19/2020	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 3	< 3	< 3	< 3	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	< 3	< 3	< 3	< 3
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 3	N/A	< 3	N/A	< 3	< 3	< 3	< 3	< 3	< 3
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	< 3	< 3	< 3	< 3
	5/29/2024	N/A	N/A	N/A	< 3	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	< 3	< 3	< 3	< 3
Chloromethane, ug/L (CAS NO - 74-87-3)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	**3.7**	N/A
	10/18/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	**2.1**	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3	N/A
	10/12/2015	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3	N/A
	4/12/2016	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3	N/A
	9/22/2016	N/A	< 3	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A
	3/20/2017	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3	< 3	N/A	< 3	< 3	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3	N/A
	7/24/2017	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Chloromethane, ug/L (CAS NO - 74-87-3)	8/22/2018	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A
	3/11/2020	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A
	8/19/2020	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3	N/A
	8/19/2020	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 3	< 3	< 3	< 3	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	< 3	< 3	< 3	< 3
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 3	N/A	< 3	N/A	< 3	< 3	< 3	< 3	< 3	< 3
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	< 3	< 3	< 3	< 3
	5/29/2024	N/A	N/A	N/A	< 3	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	< 3	< 3	< 3	< 3
cis-1,2-Dichloroethene, ug/L (CAS NO - 156-59-2)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.3	N/A
	4/26/2012	< 1	< 1	< 1	1.9	< 1	< 1	< 1	< 1	< 1	N/A	< 1	1	N/A
	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	< 1	1.1	N/A
	11/28/2012	N/A	N/A	N/A	1.5	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	2	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/18/2013	< 1	< 1	< 1	3.1	< 1	< 1	< 1	< 1	1.1	N/A	1.1	1.3	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	N/A
	3/25/2014	< 1	< 1	< 1	3.2	< 1	< 1	< 1	< 1	1	< 1	< 1	1.1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	1.7	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 1	< 1	< 1	1.21	< 1	< 1	< 1	< 1	0.969*	N/A	0.603*	0.981*	N/A
	10/12/2015	< 1	< 1	< 1	0.695*	< 1	< 1	< 1	< 1	< 1	N/A	0.599*	0.935*	N/A
	4/12/2016	< 1	< 1	< 1	1.16	< 1	< 1	< 1	< 1	0.722*	N/A	0.261*	0.503*	N/A
	9/22/2016	N/A	< 1	< 1	N/A	< 1	1.43	< 1	0.878*	< 1	N/A	< 1	0.684*	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/20/2017	< 1	< 1	< 1	1.18	< 1	N/A	< 1	0.871*	0.951*	N/A	< 1	0.675*	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	1.74	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
cis-1,2-Dichloroethene, ug/L (CAS NO - 156-59-2)	7/24/2017	< 1	< 1	0.225*	0.886*	< 1	1.06	< 1	0.76*	1.23	N/A	0.27*	0.43*	N/A
	7/24/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	0.205*	1.25	< 1	1.06	< 1	0.529*	1.48	N/A	< 1	1.02	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	0.409*	1.14	< 1	0.472*	< 1	0.46*	1.26	N/A	0.373*	0.645*	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	0.98*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	0.416*	1.17	< 1	0.776*	< 1	0.574*	1.08	N/A	0.231*	0.979*	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	1.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	< 1	0.595*	0.922*	< 1	1.76	< 1	0.892*	0.877*	N/A	< 1	0.717*	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.472*	N/A	N/A	N/A	N/A
	3/11/2020	< 1	< 1	0.416*	1.14	< 1	1.05	< 1	0.58*	0.286*	N/A	< 1	0.603*	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.853*	N/A
	8/19/2020	< 1	< 1	0.558*	1.02	< 1	1.77	< 1	0.427*	< 1	N/A	< 1	0.535*	N/A
	8/19/2020	N/A	N/A	N/A	1.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 1	< 1	0.303*	1.07	< 1	0.535*	< 1	0.25*	1.03	N/A	< 1	1.18	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	0.614*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 1	< 1	0.663*	0.849*	< 1	1.67	< 1	0.284*	0.636*	< 1	< 1	0.693*	< 1
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	1.09	0.685*	0.757*	1.18	N/A	0.397*	0.302*	0.255*	0.466*	< 1	< 1	0.796*	< 1
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.344*	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.673*	< 1	< 1	0.689*	< 1
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	0.761*	N/A	< 1	N/A	< 1	0.573*	< 1	< 1	0.349*	< 1
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	0.265*	0.384*	< 1
	5/29/2024	N/A	N/A	N/A	0.551*	N/A	0.479*	< 1	< 1	< 1	< 1	0.36*	0.472*	< 1
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.223*	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.543*	< 1	0.453*	0.388*	< 1
cis-1,3-Dichloropropene, ug/L (CAS NO - 10061-01-5)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/18/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/12/2015	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/12/2016	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	9/22/2016	N/A	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	3/20/2017	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	7/24/2017	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
cis-1,3-Dichloropropene, ug/L (CAS NO - 10061-01-5)	8/22/2018	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	3/11/2020	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	8/19/2020	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/19/2020	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 5	N/A	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5
	5/29/2024	N/A	N/A	N/A	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5
Ethylbenzene, ug/L (CAS NO - 100-41-4)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/18/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/12/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	4/12/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/22/2016	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	0.863*	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/20/2017	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Ethylbenzene, ug/L (CAS NO - 100-41-4)	7/24/2017	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	7/24/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/19/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 1	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	N/A	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
Iodomethane, ug/L (CAS NO - 74-88-4)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/18/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	10/12/2015	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	4/12/2016	< 10	7.39*	< 10	< 10	9.35*	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Iodomethane, ug/L (CAS NO - 74-88-4)	9/22/2016	N/A	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	3/20/2017	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	7/24/2017	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	3/11/2020	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	8/19/2020	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	8/19/2020	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 10	N/A	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10
	5/29/2024	N/A	N/A	N/A	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10
Methylene Bromide, ug/L (CAS NO - 74-95-3)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/18/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A

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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Methylene Bromide, ug/L (CAS NO - 74-95-3)	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/12/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	4/12/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/22/2016	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/20/2017	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	7/24/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/19/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 1	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	N/A	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
Methylene Chloride, ug/L (CAS NO - 75-09-2)	10/19/2009	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A
	3/2/2010	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A
	5/20/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	8/27/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	10/1/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	4/29/2011	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	4/26/2012	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/24/2012	< 5	< 5	< 5	N/A	< 5	N/A	< 5	< 5	N/A	N/A	< 5	< 5	N/A
	11/28/2012	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	< 5	N/A	< 5	N/A	N/A
	5/7/2013	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/18/2013	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A

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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Methylene Chloride, ug/L (CAS NO - 75-09-2)	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	3/25/2014	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A
	9/30/2014	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 5	< 5	0.222*	0.285*	0.171*	< 5	< 5	0.222*	0.345*	N/A	0.268*	0.656*	N/A
	10/12/2015	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	0.368*	N/A
	4/12/2016	0.644*	< 5	< 5	0.319*	< 5	0.174*	< 5	< 5	< 5	N/A	0.231*	< 5	N/A
	9/22/2016	N/A	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	3/20/2017	< 5	< 5	< 5	0.235*	< 5	N/A	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 5	< 5	< 5	0.291*	< 5	< 5	< 5	< 5	< 5	N/A	< 5	0.353*	N/A
	7/24/2017	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 5	< 5	< 5	0.17*	< 5	< 5	< 5	< 5	0.202*	N/A	< 5	0.24*	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	3/11/2020	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	8/19/2020	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/19/2020	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 5	N/A	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5
	5/29/2024	N/A	N/A	N/A	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5
Styrene, ug/L (CAS NO - 100-42-5)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A

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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Styrene, ug/L (CAS NO - 100-42-5)	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/18/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.53	N/A	< 1	< 1	N/A
	10/12/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	4/12/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/22/2016	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	2.52	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/20/2017	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	7/24/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	< 1	1.03	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	5/15/2018	N/A	N/A	N/A	N/A	0.908*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/19/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 1	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	N/A	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene, ug/L (CAS NO - 127-18-4)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Tetrachloroethene, ug/L (CAS NO - 127-18-4)	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A
	11/28/2012	N/A	N/A	N/A	1.6	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	1.8	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/18/2013	< 1	< 1	< 1	1.7	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/25/2014	< 1	< 1	< 1	1.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	1.4	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 1	< 1	< 1	0.603*	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/12/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	4/12/2016	< 1	< 1	< 1	0.311*	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/22/2016	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/20/2017	0.291*	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	N/A	< 1	0.203*	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	0.182*	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	7/24/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/19/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.493*	< 1	< 1	< 1	< 1
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 1	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	N/A	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
Toluene, ug/L (CAS NO - 108-88-3)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Toluene, ug/L (CAS NO - 108-88-3)	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	**1**	N/A
	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/18/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 1	< 1	0.841*	0.206*	< 1	< 1	< 1	< 1	< 1	N/A	< 1	0.223*	N/A
	10/12/2015	< 1	< 1	**1.14**	**14.4**	< 1	< 1	< 1	< 1	< 1	N/A	< 1	0.32*	N/A
	4/12/2016	< 1	< 1	0.867*	**1.15**	< 1	< 1	< 1	< 1	< 1	N/A	< 1	**1.22**	N/A
	9/22/2016	N/A	< 1	0.842*	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	**1.76**	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/20/2017	< 1	< 1	0.176*	< 1	< 1	N/A	< 1	< 1	< 1	N/A	< 1	0.728*	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	0.198*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 1	< 1	< 1	< 1	< 1	0.189*	< 1	< 1	< 1	N/A	< 1	0.588*	N/A
	7/24/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	< 1	0.2*	< 1	< 1	< 1	< 1	N/A	< 1	0.67*	N/A
	5/15/2018	N/A	N/A	N/A	N/A	0.162*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	0.83*	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	0.438*	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	0.606*	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/19/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.44*	< 1
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	0.696*	< 1
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 1	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	0.996*	< 1

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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Toluene, ug/L (CAS NO - 108-88-3)	5/29/2024	N/A	N/A	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	0.635*	< 1
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	0.658*	< 1
trans-1,2-Dichloroethene, ug/L (CAS NO - 156-60-5)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/18/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/12/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	4/12/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/22/2016	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/20/2017	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	0.475*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	7/24/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	< 1	< 1	< 1	< 1	0.279*	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/19/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
trans-1,2-Dichloroethene, ug/L (CAS NO - 156-60-5)	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 1	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	N/A	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene, ug/L (CAS NO - 10061-02-6)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/18/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/12/2015	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/12/2016	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	9/22/2016	N/A	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	3/20/2017	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	7/24/2017	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	3/11/2020	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	8/19/2020	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/19/2020	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
trans-1,3-Dichloropropene, ug/L (CAS NO - 10061-02-6)	9/15/2021	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 5	N/A	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5
	5/29/2024	N/A	N/A	N/A	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5
trans-1,4-Dichloro-2-Butene, ug/L (CAS NO - 110-57-6)	10/19/2009	< 20	< 20	< 20	< 20	N/A	< 20	< 20	< 20	< 20	N/A	< 20	N/A	N/A
	3/2/2010	< 20	< 20	< 20	< 20	N/A	< 20	< 20	< 20	< 20	N/A	< 20	N/A	N/A
	5/20/2010	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	N/A	< 20	< 20	N/A
	8/27/2010	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	N/A	< 20	< 20	N/A
	10/1/2010	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	N/A	< 20	< 20	N/A
	4/29/2011	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	N/A	< 20	< 20	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	N/A	< 20	N/A
	9/28/2011	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	N/A	< 20	< 20	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	4/26/2012	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/24/2012	< 5	< 5	< 5	N/A	< 5	N/A	< 5	< 5	N/A	N/A	< 5	< 5	N/A
	11/28/2012	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	< 5	N/A	< 5	N/A	N/A
	5/7/2013	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/18/2013	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	3/25/2014	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A
	9/30/2014	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	10/12/2015	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	4/12/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	9/22/2016	N/A	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	3/20/2017	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	7/24/2017	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	3/11/2020	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A

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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
trans-1,4-Dichloro-2-Butene, ug/L (CAS NO - 110-57-6)	8/19/2020	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	8/19/2020	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 10	N/A	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10
	5/29/2024	N/A	N/A	N/A	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10
Trichloroethene, ug/L (CAS NO - 79-01-6)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/26/2012	< 1	< 1	< 1	**4.5**	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A
	11/28/2012	N/A	N/A	N/A	**2.2**	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	**3**	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/18/2013	< 1	< 1	< 1	**3.2**	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/25/2014	< 1	< 1	< 1	**3.2**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	**2.6**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 1	< 1	< 1	**1.25**	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/12/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	4/12/2016	< 1	< 1	< 1	**1.27**	< 1	< 1	< 1	< 1	< 1	N/A	< 1	0.213*	N/A
	9/22/2016	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/20/2017	< 1	< 1	< 1	**1.11**	< 1	N/A	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 1	< 1	< 1	0.939*	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	7/24/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	**2.06**	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	**1.73**	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	**1.75**	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Trichloroethene, ug/L (CAS NO - 79-01-6)	9/19/2019	< 1	< 1	< 1	**1.76**	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/11/2020	< 1	< 1	< 1	**2.13**	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/19/2020	< 1	< 1	< 1	**1.45**	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	**1.74**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 1	< 1	< 1	**1.61**	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 1	< 1	< 1	**1.53**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 1	< 1	< 1	**1.57**	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	**1.49**	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	N/A	N/A	0.946*	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1
Trichlorofluoromethane, ug/L (CAS NO - 75-69-4)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/18/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4	N/A
	10/12/2015	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4	N/A
	4/12/2016	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4	N/A
	9/22/2016	N/A	< 4	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	3/20/2017	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4	< 4	N/A	< 4	< 4	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4	N/A
	7/24/2017	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Trichlorofluoromethane, ug/L (CAS NO - 75-69-4)	8/22/2018	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	3/11/2020	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A
	8/19/2020	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4	N/A
	8/19/2020	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 4	< 4	< 4	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	< 4	< 4	< 4	< 4
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 4	N/A	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	< 4	< 4	< 4	< 4
	5/29/2024	N/A	N/A	N/A	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	< 4	< 4	< 4	< 4
Vinyl Acetate, ug/L (CAS NO - 108-05-4)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	4/26/2012	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/24/2012	< 5	< 5	< 5	N/A	< 5	N/A	< 5	< 5	N/A	N/A	< 5	< 5	N/A
	11/28/2012	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	< 5	N/A	< 5	N/A	N/A
	5/7/2013	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/18/2013	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	3/25/2014	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A
	9/30/2014	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	10/12/2015	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	4/12/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	9/22/2016	N/A	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	3/20/2017	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Vinyl Acetate, ug/L (CAS NO - 108-05-4)	7/24/2017	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	7/24/2017	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	3/11/2020	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	8/19/2020	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	8/19/2020	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 10	N/A	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10
	5/29/2024	N/A	N/A	N/A	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10
Vinyl Chloride, ug/L (CAS NO - 75-01-4)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	**14**	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	**13**	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	**11**	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	**13**	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	**16**	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**10.7**	N/A
	4/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**1.1**	N/A	**1.1**	**9.2**	N/A
	10/24/2012	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	**1.3**	**9.9**	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	**1.7**	N/A	N/A
	5/7/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	**1.6**	**7.2**	N/A
	10/18/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	**2.5**	**9.5**	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**1**	**2.1**	**4.4**	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 1	< 1	< 1	< 1	< 1	< 1	0.187*	< 1	0.637*	N/A	**1.32**	**5.8**	N/A
	10/12/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	**1.31**	**5.86**	N/A
	4/12/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	0.691*	**3.32**	N/A

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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Vinyl Chloride, ug/L (CAS NO - 75-01-4)	9/22/2016	N/A	< 1	< 1	N/A	< 1	0.525*	< 1	< 1	0.195*	< 1	0.394*	**3.74**	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/20/2017	< 1	< 1	< 1	< 1	< 1	N/A	0.421*	< 1	0.8*	N/A	0.637*	**4.27**	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	**1.07**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 1	< 1	< 1	< 1	< 1	0.543*	< 1	< 1	0.801*	< 1	**1.16**	**2.44**	N/A
	7/24/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	< 1	< 1	0.397*	< 1	0.315*	0.901*	N/A	0.254*	**5.75**	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**1.36**	N/A	**1.22**	**4.56**	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	< 1	< 1	< 1	< 1	0.648*	< 1	0.28*	0.648*	< 1	**1.04**	**3.62**	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.337*	N/A	N/A	N/A	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	0.569*	**3.3**	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**3.51**	N/A
	8/19/2020	< 1	< 1	< 1	< 1	< 1	0.523*	< 1	< 1	< 1	< 1	0.661*	**2.33**	< 1
	8/19/2020	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.664*	< 1	< 1	**5.13**	< 1
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 1	< 1	< 1	< 1	< 1	0.531*	< 1	< 1	0.656*	< 1	< 1	**3.25**	< 1
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 1	< 1	< 1	0.226*	N/A	< 1	< 1	< 1	0.401*	< 1	< 1	< 1	< 1
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.503*	< 1	< 1	**3.81**	< 1
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 1	N/A	< 1	N/A	< 1	0.594*	< 1	< 1	**2.25**	< 1
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	0.74*	**2.38**	< 1
	5/29/2024	N/A	N/A	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	**1.18**	**2.03**	< 1
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.394*	< 1	< 1	< 1	< 1
Xylenes, total, ug/L (CAS NO - 1330-20-7)	10/19/2009	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	3/2/2010	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	8/27/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/1/2010	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	4/29/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	6/8/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/28/2011	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A
	4/26/2012	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2	N/A
	10/24/2012	< 2	< 2	< 2	N/A	< 2	N/A	< 2	< 2	N/A	N/A	< 2	< 2	N/A
	11/28/2012	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	< 2	N/A	< 2	N/A	N/A
	5/7/2013	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2	N/A
	10/18/2013	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2	N/A
	12/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	3/25/2014	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A
	9/30/2014	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Xylenes, total, ug/L (CAS NO - 1330-20-7)	2/24/2015	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	0.217*	N/A
	10/12/2015	< 3	< 3	< 3	0.181*	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3	N/A
	4/12/2016	< 3	< 3	< 3	0.166*	< 3	< 3	< 3	< 3	< 3	N/A	< 3	0.484*	N/A
	9/22/2016	N/A	< 3	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	< 3	0.264*	N/A
	9/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A
	3/20/2017	< 3	< 3	0.131*	0.192*	< 3	N/A	< 3	< 3	< 3	N/A	< 3	0.203*	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	0.186*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 3	< 3	< 3	0.143*	< 3	0.635*	< 3	< 3	< 3	N/A	< 3	< 3	N/A
	7/24/2017	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3	N/A
	5/15/2018	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A
	3/11/2020	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3	N/A
	3/11/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A
	8/19/2020	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3	N/A
	8/19/2020	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3	N/A
	3/23/2021	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	9/15/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A
	5/11/2022	< 3	< 3	< 3	< 3	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	5/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	< 3	< 3	< 3	< 3
	9/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A
	3/8/2023	N/A	N/A	N/A	< 3	N/A	< 3	N/A	< 3	< 3	< 3	< 3	< 3	< 3
	9/26/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	< 3	< 3	< 3	< 3
	5/29/2024	N/A	N/A	N/A	< 3	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	< 3	< 3	< 3	< 3

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

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
1,1-Dichloropropene, ug/L (CAS NO - 563-58-6)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	10/24/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	< 1	N/A	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
1,2,4,5-Tetrachlorobenzene, ug/L (CAS NO - 95-94-3)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
1,2,4-Trichlorobenzene, ug/L (CAS NO - 120-82-1)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	10/24/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	< 1	N/A	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 5	N/A	< 5	N/A	N/A	< 5	N/A	< 5	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 5	N/A	< 5	N/A	N/A	< 5	N/A	< 5	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
1,3,5-Trinitrobenzene, ug/L (CAS NO - 99-35-4)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
1,3,5-Trinitrobenzene, ug/L (CAS NO - 99-35-4)	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
1,3-Dichlorobenzene, ug/L (CAS NO - 541-73-1)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	10/24/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	< 1	N/A	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
1,3-Dichloropropane, ug/L (CAS NO - 142-28-9)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	10/24/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	< 1	N/A	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
1,3-Dinitrobenzene, ug/L (CAS NO - 99-65-0)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
1,4-Naphthoquinone, ug/L (CAS NO - 130-15-4)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
1,4-Naphthoquinone, ug/L (CAS NO - 130-15-4)	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
1,4-Phenylenediamine, ug/L (CAS NO - 106-50-3)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
1-Naphthylamine, ug/L (CAS NO - 134-32-7)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
2,2-Dichloropropane, ug/L (CAS NO - 594-20-7)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	10/24/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	< 1	N/A	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 4	N/A	< 4	N/A	N/A	< 4	N/A	< 4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 4	N/A	< 4	N/A	N/A	< 4	N/A	< 4	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A
2,3,4,6-Tetrachlorophenol, ug/L (CAS NO - 58-90-2)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
2,3,4,6-Tetrachlorophenol, ug/L (CAS NO - 58-90-2)	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
2,4,5-T [2C], ug/L (CAS NO - 93-76-5)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A
	10/24/2012	N/A	N/A	N/A	< 0.5	N/A	< 0.5	N/A	N/A	< 0.5	N/A	< 0.5	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.5	N/A	< 0.5	N/A	N/A	< 0.5	N/A	< 0.5	< 0.5	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	< 0.5	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 1.05	N/A	< 1.03	N/A	N/A	< 1.19	N/A	< 1.03	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 1.12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.05	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 1.1	< 1.1	N/A	N/A	N/A	N/A	N/A
	8/19/2020	N/A	N/A	N/A	< 1.08	N/A	< 1.14	N/A	N/A	< 1.08	N/A	< 1.12	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.156	< 0.159	N/A	N/A	N/A	N/A	N/A
2,4,5-TP [Silvex] [2C], ug/L (CAS NO - 93-72-1)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.6**	N/A
	4/26/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A
	10/24/2012	N/A	N/A	N/A	< 0.5	N/A	< 0.5	N/A	N/A	< 0.5	N/A	< 0.5	< 5	N/A
	5/7/2013	N/A	N/A	N/A	< 0.5	N/A	< 0.5	N/A	N/A	< 0.5	N/A	< 0.5	< 0.5	N/A
	10/18/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.6	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	< 0.5	N/A	N/A	N/A	< 0.7	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	< 0.5	N/A	N/A	N/A	**0.9**	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 1.05	N/A	< 1.03	N/A	N/A	< 1.19	N/A	< 1.03	< 1.03	N/A
	10/12/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.02	N/A
	4/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.31	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 1.12	N/A	N/A	N/A	N/A	N/A	N/A	< 1.08	N/A
	3/20/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.09	N/A
	7/24/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.04	N/A
	5/15/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.1	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.05	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 1.1	< 1.1	N/A	N/A	N/A	N/A	N/A
	8/19/2020	N/A	N/A	N/A	< 1.08	N/A	< 1.14	N/A	N/A	< 1.08	N/A	< 1.12	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0522	< 0.0529	N/A	N/A	N/A	N/A	N/A
2,4,5-Trichlorophenol, ug/L (CAS NO - 95-95-4)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
2,4,5-Trichlorophenol, ug/L (CAS NO - 95-95-4)	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
2,4,6-Trichlorophenol, ug/L (CAS NO - 88-06-2)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
2,4-D [2C], ug/L (CAS NO - 94-75-7)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A
	10/24/2012	N/A	N/A	N/A	< 2	N/A	< 2	N/A	N/A	< 2	N/A	< 2	< 2	N/A
	5/7/2013	N/A	N/A	N/A	**2.3**	N/A	< 2	N/A	N/A	< 2	N/A	< 2	< 2	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 1.05	N/A	< 1.03	N/A	N/A	< 1.19	N/A	< 1.03	N/A	N/A
	10/12/2015	N/A	N/A	N/A	< 1.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/12/2016	N/A	N/A	N/A	< 1.03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 1.12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/20/2017	N/A	N/A	N/A	< 11.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	N/A	N/A	N/A	< 1.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	N/A	N/A	N/A	< 1.11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	< 1.06	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.05	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 1.1	< 1.1	N/A	N/A	N/A	N/A	N/A
	8/19/2020	N/A	N/A	N/A	< 1.08	N/A	< 1.14	N/A	N/A	< 1.08	N/A	< 1.12	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.626	< 0.635	N/A	N/A	N/A	N/A	N/A
2,4-Dichlorophenol, ug/L (CAS NO - 120-83-2)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.345*	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
2,4-Dimethylphenol, ug/L (CAS NO - 105-67-9)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
2,4-Dimethylphenol, ug/L (CAS NO - 105-67-9)	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
2,4-Dinitrophenol, ug/L (CAS NO - 51-28-5)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 20.2	N/A	< 20.4	N/A	N/A	< 20.2	N/A	< 20.8	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 21.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 21.3	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 21.3	< 21.1	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 21.3	N/A	< 21.3	N/A	N/A	< 21.3	N/A	< 21.5	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 20	< 20	N/A	N/A	N/A	N/A	N/A
2,4-Dinitrotoluene, ug/L (CAS NO - 121-14-2)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
2,6-Dichlorophenol, ug/L (CAS NO - 87-65-0)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
2,6-Dinitrotoluene, ug/L (CAS NO - 606-20-2)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
2-Acetylaminofluorene, ug/L (CAS NO - 53-96-3)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
2-Chloronaphthalene, ug/L (CAS NO - 91-58-7)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
2-Chlorophenol, ug/L (CAS NO - 95-57-8)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
2-Chlorophenol, ug/L (CAS NO - 95-57-8)	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
2-Methylnaphthalene, ug/L (CAS NO - 91-57-6)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
2-Methylphenol, ug/L (CAS NO - 95-48-7)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
2-Naphthylamine, ug/L (CAS NO - 91-59-8)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
2-Nitroaniline, ug/L (CAS NO - 88-74-4)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
2-Nitroaniline, ug/L (CAS NO - 88-74-4)	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
2-Nitrophenol, ug/L (CAS NO - 88-75-5)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
3,3-Dichlorobenzidine, ug/L (CAS NO - 91-94-1)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 50.5	N/A	< 51	N/A	N/A	< 50.5	N/A	< 52.1	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 54.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
3,3-Dimethylbenzidine, ug/L (CAS NO - 119-93-7)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
3/4-Methylphenol, ug/L (CAS NO - T-34MP)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	< 28.5	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	< 10	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
3/4-Methylphenol, ug/L (CAS NO - T-34MP)	10/12/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	4/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	0.248*	N/A
	3/20/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.9	N/A
	7/24/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.8	N/A
	5/15/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.26*	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
3-Chloropropene, ug/L (CAS NO - 107-05-1)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	10/24/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	< 1	N/A	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 2	N/A	< 2	N/A	N/A	< 2	N/A	< 2	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 2	N/A	< 2	N/A	N/A	< 2	N/A	< 2	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A
3-Methylcholanthrene, ug/L (CAS NO - 56-49-5)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
3-Nitroaniline, ug/L (CAS NO - 99-09-2)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
3-Nitroaniline, ug/L (CAS NO - 99-09-2)	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
4,4`-DDD, ug/L (CAS NO - 72-54-8)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A
	10/24/2012	N/A	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.06	N/A	< 0.05	N/A	N/A	< 0.05	N/A	< 0.05	< 0.05	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 0.032	N/A	< 0.033	N/A	N/A	< 0.032	N/A	< 0.032	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 0.0348	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00664*	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.034	< 0.0333	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 0.0352	N/A	< 0.034	N/A	N/A	0.00539*	N/A	< 0.033	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.064	< 0.0627	N/A	N/A	N/A	N/A	N/A
4,4`-DDE, ug/L (CAS NO - 72-55-9)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A
	10/24/2012	N/A	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.06	N/A	< 0.05	N/A	N/A	< 0.05	N/A	< 0.05	< 0.05	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 0.032	N/A	< 0.033	N/A	N/A	< 0.032	N/A	< 0.032	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 0.0348	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0348	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.034	< 0.0333	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 0.0352	N/A	< 0.034	N/A	N/A	< 0.034	N/A	< 0.033	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.064	< 0.0627	N/A	N/A	N/A	N/A	N/A
4,4`-DDT, ug/L (CAS NO - 50-29-3)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A
	10/24/2012	N/A	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.06	N/A	< 0.05	N/A	N/A	< 0.05	N/A	< 0.05	< 0.05	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 0.032	N/A	< 0.033	N/A	N/A	< 0.032	N/A	< 0.032	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 0.0348	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0348	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.034	< 0.0333	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 0.0352	N/A	< 0.034	N/A	N/A	< 0.034	N/A	< 0.033	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.064	< 0.0627	N/A	N/A	N/A	N/A	N/A
4,6-Dinitro-2-methylphenol, ug/L (CAS NO - 534-52-1)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
4,6-Dinitro-2-methylphenol, ug/L (CAS NO - 534-52-1)	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
4-Aminobiphenyl, ug/L (CAS NO - 92-67-1)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
4-Bromophenyl phenyl ether, ug/L (CAS NO - 101-55-3)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
4-Chloro-3-methylphenol, ug/L (CAS NO - 59-50-7)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
4-Chloroaniline, ug/L (CAS NO - 106-47-8)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	0.184*	N/A	< 10.4	N/A	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
4-Chloroaniline, ug/L (CAS NO - 106-47-8)	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
4-Chlorophenyl phenyl ether, ug/L (CAS NO - 7005-72-3)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
4-Nitroaniline, ug/L (CAS NO - 100-01-6)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
4-Nitrophenol, ug/L (CAS NO - 100-02-7)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
5-Nitro-o-toluidine, ug/L (CAS NO - 99-55-8)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
5-Nitro-o-toluidine, ug/L (CAS NO - 99-55-8)	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
7,12-Dimethylbenz [a] anthracene, ug/L (CAS NO - 57-97-6)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Acenaphthene, ug/L (CAS NO - 83-32-9)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Acenaphthylene, ug/L (CAS NO - 208-96-8)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Acetonitrile, ug/L (CAS NO - 75-05-8)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	10/24/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	11/28/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Acetonitrile, ug/L (CAS NO - 75-05-8)	5/7/2013	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	< 10	N/A	< 10	< 10	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10000	N/A	< 10000	N/A	N/A	855*	N/A	870*	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10000	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10000	< 10000	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10000	N/A	< 10000	N/A	N/A	< 10000	N/A	< 10000	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10000	< 10000	N/A	N/A	N/A	N/A	N/A
Acetophenone, ug/L (CAS NO - 98-86-2)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	1.62*	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Acrolein, ug/L (CAS NO - 107-02-8)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	10/24/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	11/28/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	< 10	N/A	< 10	< 10	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	< 10	N/A	< 10	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	< 10	N/A	< 10	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Aldrin, ug/L (CAS NO - 309-00-2)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A
	10/24/2012	N/A	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.06	N/A	< 0.05	N/A	N/A	< 0.05	N/A	< 0.05	< 0.05	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 0.032	N/A	< 0.033	N/A	N/A	< 0.032	N/A	< 0.032	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 0.0348	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0348	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.034	< 0.0333	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 0.0352	N/A	< 0.034	N/A	N/A	< 0.034	N/A	< 0.033	N/A	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Aldrin, ug/L (CAS NO - 309-00-2)	3/23/2021	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.064	< 0.0627	N/A	N/A	N/A	N/A	N/A
Anthracene, ug/L (CAS NO - 120-12-7)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Benzo [a] anthracene, ug/L (CAS NO - 56-55-3)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Benzo [a] pyrene, ug/L (CAS NO - 50-32-8)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Benzo [b] fluoranthene, ug/L (CAS NO - 205-99-2)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Benzo [b] fluoranthene, ug/L (CAS NO - 205-99-2)	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Benzo [g,h,i] perylene, ug/L (CAS NO - 191-24-2)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Benzo [k] fluoranthene, ug/L (CAS NO - 207-08-9)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Benzyl alcohol, ug/L (CAS NO - 100-51-6)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Alpha-BHC, ug/L (CAS NO - 319-84-6)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A
	10/24/2012	N/A	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.06	N/A	< 0.05	N/A	N/A	< 0.05	N/A	< 0.05	< 0.05	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 0.032	N/A	< 0.033	N/A	N/A	< 0.032	N/A	< 0.032	N/A	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Alpha-BHC, ug/L (CAS NO - 319-84-6)	9/22/2016	N/A	N/A	N/A	N/A	< 0.0348	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00243*	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.034	< 0.0333	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 0.0352	N/A	< 0.034	N/A	N/A	< 0.034	N/A	< 0.033	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.064	< 0.0627	N/A	N/A	N/A	N/A	N/A
Beta-BHC, ug/L (CAS NO - 319-85-7)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A
	10/24/2012	N/A	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.06	N/A	< 0.05	N/A	N/A	< 0.05	N/A	< 0.05	< 0.05	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 0.032	N/A	< 0.033	N/A	N/A	< 0.032	N/A	0.00494*	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	0.00538*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0348	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.034	< 0.0333	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 0.0352	N/A	< 0.034	N/A	N/A	< 0.034	N/A	< 0.033	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.064	< 0.0627	N/A	N/A	N/A	N/A	N/A
Delta-BHC, ug/L (CAS NO - 319-86-8)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A
	10/24/2012	N/A	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.06	N/A	< 0.05	N/A	N/A	< 0.05	N/A	< 0.05	< 0.05	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 0.032	N/A	< 0.033	N/A	N/A	< 0.032	N/A	< 0.032	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 0.0348	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00599*	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.034	< 0.0333	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 0.0352	N/A	< 0.034	N/A	N/A	< 0.034	N/A	< 0.033	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.064	< 0.0627	N/A	N/A	N/A	N/A	N/A
Gamma-BHC [Lindane], ug/L (CAS NO - 58-89-9)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A
	10/24/2012	N/A	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.06	N/A	< 0.05	N/A	N/A	< 0.05	N/A	< 0.05	< 0.05	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 0.032	N/A	< 0.033	N/A	N/A	< 0.032	N/A	< 0.032	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 0.0348	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0348	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.034	< 0.0333	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 0.0352	N/A	< 0.034	N/A	N/A	< 0.034	N/A	< 0.033	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.064	< 0.0627	N/A	N/A	N/A	N/A	N/A
Bis[2-chloroethoxy]methane, ug/L (CAS NO - 111-91-1)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Bis[2-chloroethoxy]methane, ug/L (CAS NO - 111-91-1)	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Bis[2-chloroethyl]ether, ug/L (CAS NO - 111-44-4)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Bis[2-chloroisopropyl]ether, ug/L (CAS NO - 108-60-1)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Bis[2-ethylhexyl]phthalate, ug/L (CAS NO - 117-81-7)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	**14**	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	10/18/2013	N/A	N/A	N/A	N/A	N/A	**16**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	< 10	**9**	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	< 10	< 8	**28**	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	**20**	**484**	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	3.75*	N/A	4.83*	9.29*	**203**	8.55*	N/A	**13.2**	N/A	N/A
	10/12/2015	N/A	N/A	N/A	N/A	N/A	3.4*	8.83*	4.97*	N/A	N/A	4.62*	N/A	N/A
	4/12/2016	N/A	N/A	N/A	N/A	N/A	0.578*	2.86*	0.804*	N/A	N/A	0.407*	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	0.95*	1*	0.856*	0.853*	N/A	N/A	1.11*	N/A	N/A
	12/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A
	3/20/2017	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.6	N/A	N/A	< 10	N/A	N/A
	6/21/2017	N/A	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	N/A	N/A	N/A	N/A	N/A	< 10.8	< 10.8	< 10.8	N/A	N/A	< 11.1	N/A	N/A
	5/15/2018	N/A	N/A	N/A	N/A	N/A	< 10.4	< 10.4	< 10.8	N/A	N/A	< 10.4	N/A	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Bis[2-ethylhexyl]phthalate, ug/L (CAS NO - 117-81-7)	8/22/2018	N/A	N/A	N/A	N/A	N/A	< 10.4	< 10.6	< 10.6	N/A	N/A	< 10.5	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 10.7	< 10.5	< 10.6	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	< 10.8	< 10.9	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Butyl benzyl phthalate, ug/L (CAS NO - 85-68-7)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Chlordane, ug/L (CAS NO - 57-74-9)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A
	10/24/2012	N/A	N/A	N/A	< 0.1	N/A	< 0.1	N/A	N/A	< 0.1	N/A	< 0.1	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.13	N/A	< 0.1	N/A	N/A	< 0.1	N/A	< 0.1	< 0.1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	< 0.1	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	< 0.1	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 2	N/A	< 2.06	N/A	N/A	< 2	N/A	< 2	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 2.17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.17	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 2.13	< 2.08	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 2.2	N/A	< 2.13	N/A	N/A	< 2.13	N/A	< 2.06	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 2.11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 1.96	N/A	N/A	N/A	N/A	N/A
Chlorobenzilate, ug/L (CAS NO - 510-15-6)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Chloroprene, ug/L (CAS NO - 126-99-8)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	10/24/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	< 1	N/A	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Chloroprene, ug/L (CAS NO - 126-99-8)	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
Chrysene, ug/L (CAS NO - 218-01-9)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Cyanide, mg/L (CAS NO - 57-12-5)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.007	N/A
	10/24/2012	N/A	N/A	N/A	< 0.007	N/A	< 0.007	N/A	N/A	< 0.007	N/A	< 0.007	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.007	N/A	< 0.007	N/A	N/A	< 0.007	N/A	< 0.007	< 0.007	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 0.01	N/A	< 0.01	N/A	N/A	< 0.01	N/A	< 0.01	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	< 0.01	N/A
	3/11/2020	N/A	N/A	N/A	< 0.01	N/A	< 0.01	N/A	N/A	< 0.01	N/A	< 0.01	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	N/A	N/A
Diallate [cis or trans], ug/L (CAS NO - 2303-16-4)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Dibenz [a,h] anthracene, ug/L (CAS NO - 53-70-3)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Dibenz [a,h] anthracene, ug/L (CAS NO - 53-70-3)	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Dibenzofuran, ug/L (CAS NO - 132-64-9)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Dichlorodifluoromethane, ug/L (CAS NO - 75-71-8)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	10/24/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	< 1	N/A	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 3	N/A	< 3	N/A	N/A	< 3	N/A	< 3	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 3	N/A	< 3	N/A	N/A	< 3	N/A	< 3	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A
Dieldrin, ug/L (CAS NO - 60-57-1)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A
	10/24/2012	N/A	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.06	N/A	< 0.05	N/A	N/A	< 0.05	N/A	< 0.05	< 0.05	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 0.032	N/A	< 0.033	N/A	N/A	< 0.032	N/A	< 0.032	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 0.0348	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0348	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.034	< 0.0333	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 0.0352	N/A	0.0022*	N/A	N/A	0.0038*	N/A	< 0.033	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.064	< 0.0627	N/A	N/A	N/A	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Diethyl phthalate, ug/L (CAS NO - 84-66-2)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	0.337*	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Dimethoate, ug/L (CAS NO - 60-51-5)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4	N/A
	10/24/2012	N/A	N/A	N/A	< 0.4	N/A	< 0.4	N/A	N/A	< 0.4	N/A	< 0.4	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.4	N/A	< 0.4	N/A	N/A	< 0.4	N/A	< 0.4	< 0.4	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4	< 0.4	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4	< 0.4	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Dimethyl phthalate, ug/L (CAS NO - 131-11-3)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Dimethylaminoazobenzene, ug/L (CAS NO - 60-11-7)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Dimethylaminoazobenzene, ug/L (CAS NO - 60-11-7)	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Di-n-butyl phthalate, ug/L (CAS NO - 84-74-2)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	0.684*	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Di-n-octyl phthalate, ug/L (CAS NO - 117-84-0)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 20.2	N/A	< 20.4	N/A	N/A	< 20.2	N/A	< 20.8	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	1.87*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 21.3	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 21.3	< 21.1	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 21.3	N/A	< 21.3	N/A	N/A	< 21.3	N/A	< 21.5	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 20	< 20	N/A	N/A	N/A	N/A	N/A
Dinoseb, ug/L (CAS NO - 88-85-7)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A
	10/24/2012	N/A	N/A	N/A	< 0.5	N/A	< 0.5	N/A	N/A	< 0.5	N/A	< 0.5	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.5	N/A	< 0.5	N/A	N/A	< 0.5	N/A	< 0.5	< 0.5	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	< 0.5	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	< 0.5	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Diphenylamine, ug/L (CAS NO - 122-39-4)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Diphenylamine, ug/L (CAS NO - 122-39-4)	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Disulfoton, ug/L (CAS NO - 298-04-4)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4	N/A
	10/24/2012	N/A	N/A	N/A	< 0.4	N/A	< 0.4	N/A	N/A	< 0.4	N/A	< 0.4	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.4	N/A	< 0.4	N/A	N/A	< 0.4	N/A	< 0.4	< 0.4	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4	< 0.4	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4	< 0.4	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Endosulfan I, ug/L (CAS NO - 959-98-8)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A
	10/24/2012	N/A	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.06	N/A	< 0.05	N/A	N/A	< 0.05	N/A	< 0.05	< 0.05	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 0.032	N/A	< 0.033	N/A	N/A	< 0.032	N/A	< 0.032	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 0.0348	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0348	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.034	< 0.0333	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	0.0123*	N/A	0.00336*	N/A	N/A	< 0.034	N/A	< 0.033	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	0.0173*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.064	< 0.0627	N/A	N/A	N/A	N/A	N/A
Endosulfan II, ug/L (CAS NO - 33213-65-9)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A
	10/24/2012	N/A	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.06	N/A	< 0.05	N/A	N/A	< 0.05	N/A	< 0.05	< 0.05	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 0.032	N/A	< 0.033	N/A	N/A	< 0.032	N/A	< 0.032	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 0.0348	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0348	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.034	< 0.0333	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 0.0352	N/A	< 0.034	N/A	N/A	< 0.034	N/A	< 0.033	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.064	< 0.0627	N/A	N/A	N/A	N/A	N/A
Endosulfan sulfate, ug/L (CAS NO - 1031-07-8)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A
	10/24/2012	N/A	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.06	N/A	< 0.05	N/A	N/A	< 0.05	N/A	< 0.05	< 0.05	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 0.032	N/A	< 0.033	N/A	N/A	< 0.032	N/A	< 0.032	N/A	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Endosulfan sulfate, ug/L (CAS NO - 1031-07-8)	9/22/2016	N/A	N/A	N/A	N/A	< 0.0348	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0348	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.034	< 0.0333	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 0.0352	N/A	< 0.034	N/A	N/A	< 0.034	N/A	< 0.033	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.064	< 0.0627	N/A	N/A	N/A	N/A	N/A
Endrin, ug/L (CAS NO - 72-20-8)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A
	10/24/2012	N/A	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.06	N/A	< 0.05	N/A	N/A	< 0.05	N/A	< 0.05	< 0.05	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 0.032	N/A	< 0.033	N/A	N/A	< 0.032	N/A	< 0.032	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 0.0348	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0348	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.034	< 0.0333	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 0.0352	N/A	< 0.034	N/A	N/A	< 0.034	N/A	< 0.033	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.064	< 0.0627	N/A	N/A	N/A	N/A	N/A
Endrin aldehyde, ug/L (CAS NO - 7421-93-4)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A
	10/24/2012	N/A	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.06	N/A	< 0.05	N/A	N/A	< 0.05	N/A	< 0.05	< 0.05	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	0.00891*	N/A	0.00822*	N/A	N/A	0.00952*	N/A	0.0106*	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 0.0348	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0348	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.034	< 0.0333	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 0.0352	N/A	< 0.034	N/A	N/A	< 0.034	N/A	< 0.033	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.064	< 0.0627	N/A	N/A	N/A	N/A	N/A
Ethyl Methacrylate, ug/L (CAS NO - 97-63-2)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	10/24/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	11/28/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	< 10	N/A	< 10	< 10	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 2	N/A	< 2	N/A	N/A	< 2	N/A	< 2	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 2	N/A	< 2	N/A	N/A	< 2	N/A	< 2	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A
Ethyl Methanesulfonate, ug/L (CAS NO - 62-50-0)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Ethyl Methanesulfonate, ug/L (CAS NO - 62-50-0)	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Famphur, ug/L (CAS NO - 52-85-7)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4	N/A
	10/24/2012	N/A	N/A	N/A	< 0.4	N/A	< 0.4	N/A	N/A	< 0.4	N/A	< 0.4	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.4	N/A	< 0.4	N/A	N/A	< 0.4	N/A	< 0.4	< 0.4	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4	< 0.4	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4	< 0.4	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 20.2	N/A	< 20.4	N/A	N/A	< 20.2	N/A	< 20.8	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 21.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Fluoranthene, ug/L (CAS NO - 206-44-0)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Fluorene, ug/L (CAS NO - 86-73-7)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Heptachlor, ug/L (CAS NO - 76-44-8)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A
	10/24/2012	N/A	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Heptachlor, ug/L (CAS NO - 76-44-8)	5/7/2013	N/A	N/A	N/A	< 0.06	N/A	< 0.05	N/A	N/A	< 0.05	N/A	< 0.05	< 0.05	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 0.032	N/A	< 0.033	N/A	N/A	< 0.032	N/A	< 0.032	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 0.0348	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0348	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.034	< 0.0333	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 0.0352	N/A	0.00416*	N/A	N/A	0.00356*	N/A	< 0.033	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.064	< 0.0627	N/A	N/A	N/A	N/A	N/A
Heptachlor Epoxide, ug/L (CAS NO - 1024-57-3)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A
	10/24/2012	N/A	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.06	N/A	< 0.05	N/A	N/A	< 0.05	N/A	< 0.05	< 0.05	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 0.032	N/A	< 0.033	N/A	N/A	< 0.032	N/A	< 0.032	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 0.0348	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0348	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.034	< 0.0333	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 0.0352	N/A	< 0.034	N/A	N/A	< 0.034	N/A	< 0.033	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.064	< 0.0627	N/A	N/A	N/A	N/A	N/A
Hexachlorobenzene, ug/L (CAS NO - 118-74-1)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A
	10/24/2012	N/A	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.06	N/A	< 0.05	N/A	N/A	< 0.05	N/A	< 0.05	< 0.05	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Hexachlorobutadiene, ug/L (CAS NO - 87-68-3)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Hexachlorocyclopentadiene, ug/L (CAS NO - 77-47-4)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 20.2	N/A	< 20.4	N/A	N/A	< 20.2	N/A	< 20.8	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 21.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Hexachloroethane, ug/L (CAS NO - 67-72-1)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Hexachloropropene, ug/L (CAS NO - 1888-71-7)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Indeno [1,2,3-cd] pyrene, ug/L (CAS NO - 193-39-5)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Indeno [1,2,3-cd] pyrene, ug/L (CAS NO - 193-39-5)	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Isobutanol, mg/L (CAS NO - 78-83-1)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	10/24/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	< 1	N/A	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	< 10	N/A	< 10	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	< 10	N/A	< 10	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Isodrin, ug/L (CAS NO - 465-73-6)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Isophorone, ug/L (CAS NO - 78-59-1)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Isosafrole, ug/L (CAS NO - 120-58-1)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Isosafrole, ug/L (CAS NO - 120-58-1)	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Kepone, ug/L (CAS NO - 143-50-0)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Methacrylonitrile, ug/L (CAS NO - 126-98-7)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	10/24/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	< 1	N/A	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	< 10	N/A	< 10	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	< 10	N/A	< 10	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Methapyrilene, ug/L (CAS NO - 91-80-5)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Methoxychlor, ug/L (CAS NO - 72-43-5)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A
	10/24/2012	N/A	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.06	N/A	< 0.05	N/A	N/A	< 0.05	N/A	< 0.05	< 0.05	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Methoxychlor, ug/L (CAS NO - 72-43-5)	4/15/2015	N/A	N/A	N/A	< 0.032	N/A	< 0.033	N/A	N/A	< 0.032	N/A	< 0.032	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 0.0348	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0348	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.034	< 0.0333	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 0.0352	N/A	< 0.034	N/A	N/A	< 0.034	N/A	< 0.033	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.064	< 0.0627	N/A	N/A	N/A	N/A	N/A
Methyl Methacrylate, ug/L (CAS NO - 80-62-6)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	10/24/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	11/28/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	< 1	N/A	< 1	< 1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 2	N/A	< 2	N/A	N/A	< 2	N/A	< 2	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 2	N/A	< 2	N/A	N/A	< 2	N/A	< 2	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A
Methyl Methanesulfonate, ug/L (CAS NO - 66-27-3)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Naphthalene, ug/L (CAS NO - 91-20-3)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 5	N/A	< 5	N/A	N/A	< 5	N/A	< 5	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 5	N/A	< 5	N/A	N/A	< 5	N/A	< 5	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
Nitrobenzene, ug/L (CAS NO - 98-95-3)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Nitrobenzene, ug/L (CAS NO - 98-95-3)	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
N-Nitrosodiethylamine, ug/L (CAS NO - 55-18-5)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
N-Nitrosodimethylamine, ug/L (CAS NO - 62-75-9)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
N-Nitrosodi-n-butylamine, ug/L (CAS NO - 924-16-3)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
N-Nitrosodi-n-propylamine, ug/L (CAS NO - 621-64-7)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
N-Nitrosodiphenylamine, ug/L (CAS NO - 86-30-6)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
N-Nitrosomethylethylamine, ug/L (CAS NO - 10595-95-6)	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
N-Nitrosopiperidine, ug/L (CAS NO - 100-75-4)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
N-Nitrosopyrrolidine, ug/L (CAS NO - 930-55-2)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
N-Nitrosopyrrolidine, ug/L (CAS NO - 930-55-2)	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
O,O,O-Triethyl Phosphorothioate, ug/L (CAS NO - 126-68-1)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4	N/A
	10/24/2012	N/A	N/A	N/A	< 0.4	N/A	< 0.4	N/A	N/A	< 0.4	N/A	< 0.4	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.4	N/A	< 0.4	N/A	N/A	< 0.4	N/A	< 0.4	< 0.4	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4	< 0.4	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4	< 0.4	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
O-Toluidine, ug/L (CAS NO - 95-53-4)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Parathion-Ethyl, ug/L (CAS NO - 56-38-2)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4	N/A
	10/24/2012	N/A	N/A	N/A	< 0.4	N/A	< 0.4	N/A	N/A	< 0.4	N/A	< 0.4	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.4	N/A	< 0.4	N/A	N/A	< 0.4	N/A	< 0.4	< 0.4	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4	< 0.4	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4	< 0.4	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Parathion-Methyl, ug/L (CAS NO - 298-00-0)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4	N/A
	10/24/2012	N/A	N/A	N/A	< 0.4	N/A	< 0.4	N/A	N/A	< 0.4	N/A	< 0.4	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.4	N/A	< 0.4	N/A	N/A	< 0.4	N/A	< 0.4	< 0.4	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4	< 0.4	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4	< 0.4	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
PCB-1016, ug/L (CAS NO - 12674-11-2)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A
	10/24/2012	N/A	N/A	N/A	< 0.1	N/A	< 0.1	N/A	N/A	< 0.1	N/A	< 0.1	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.13	N/A	< 0.1	N/A	N/A	< 0.1	N/A	< 0.1	< 0.1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	< 0.1	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	< 0.1	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 0.833	N/A	< 0.825	N/A	N/A	< 0.816	N/A	< 0.851	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.842	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.842	< 0.842	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 0.879	N/A	< 0.851	N/A	N/A	< 0.851	N/A	< 0.825	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 0.842	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	< 0.784	N/A	N/A	N/A	N/A	N/A
PCB-1221, ug/L (CAS NO - 11104-28-2)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.2	N/A
	10/24/2012	N/A	N/A	N/A	< 0.2	N/A	< 0.2	N/A	N/A	< 0.2	N/A	< 0.2	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.26	N/A	< 0.2	N/A	N/A	< 0.2	N/A	< 0.2	< 0.2	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.2	< 0.2	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.2	< 0.2	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 0.833	N/A	< 0.825	N/A	N/A	< 0.816	N/A	< 0.851	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.842	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.842	< 0.842	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 0.879	N/A	< 0.851	N/A	N/A	< 0.851	N/A	< 0.825	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 0.842	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	< 0.784	N/A	N/A	N/A	N/A	N/A
PCB-1232, ug/L (CAS NO - 11141-16-5)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.2	N/A
	10/24/2012	N/A	N/A	N/A	< 0.2	N/A	< 0.2	N/A	N/A	< 0.2	N/A	< 0.2	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.26	N/A	< 0.2	N/A	N/A	< 0.2	N/A	< 0.2	< 0.2	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.2	< 0.2	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.2	< 0.2	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 0.833	N/A	< 0.825	N/A	N/A	< 0.816	N/A	< 0.851	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.842	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.842	< 0.842	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 0.879	N/A	< 0.851	N/A	N/A	< 0.851	N/A	< 0.825	N/A	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
PCB-1232, ug/L (CAS NO - 11141-16-5)	3/23/2021	N/A	N/A	N/A	N/A	< 0.842	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	< 0.784	N/A	N/A	N/A	N/A	N/A
PCB-1242, ug/L (CAS NO - 53469-21-9)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.2	N/A
	10/24/2012	N/A	N/A	N/A	< 0.2	N/A	< 0.2	N/A	N/A	< 0.2	N/A	< 0.2	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.26	N/A	< 0.2	N/A	N/A	< 0.2	N/A	< 0.2	< 0.2	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.2	< 0.2	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.2	< 0.2	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 0.833	N/A	< 0.825	N/A	N/A	< 0.816	N/A	< 0.851	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.842	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.842	< 0.842	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 0.879	N/A	< 0.851	N/A	N/A	< 0.851	N/A	< 0.825	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 0.842	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	< 0.784	N/A	N/A	N/A	N/A	N/A
PCB-1248, ug/L (CAS NO - 12672-29-6)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.2	N/A
	10/24/2012	N/A	N/A	N/A	< 0.2	N/A	< 0.2	N/A	N/A	< 0.2	N/A	< 0.2	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.26	N/A	< 0.2	N/A	N/A	< 0.2	N/A	< 0.2	< 0.2	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.2	< 0.2	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.2	< 0.2	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 0.833	N/A	< 0.825	N/A	N/A	< 0.816	N/A	< 0.851	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.842	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.842	< 0.842	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 0.879	N/A	< 0.851	N/A	N/A	< 0.851	N/A	< 0.825	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 0.842	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	< 0.784	N/A	N/A	N/A	N/A	N/A
PCB-1254, ug/L (CAS NO - 11097-69-1)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A
	10/24/2012	N/A	N/A	N/A	< 0.1	N/A	< 0.1	N/A	N/A	< 0.1	N/A	< 0.1	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.13	N/A	< 0.1	N/A	N/A	< 0.1	N/A	< 0.1	< 0.1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	< 0.1	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	< 0.1	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 0.833	N/A	< 0.825	N/A	N/A	< 0.816	N/A	< 0.851	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.842	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.842	< 0.842	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 0.879	N/A	< 0.851	N/A	N/A	< 0.851	N/A	< 0.825	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 0.842	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	< 0.784	N/A	N/A	N/A	N/A	N/A
PCB-1260, ug/L (CAS NO - 11096-82-5)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A
	10/24/2012	N/A	N/A	N/A	< 0.1	N/A	< 0.1	N/A	N/A	< 0.1	N/A	< 0.1	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.13	N/A	< 0.1	N/A	N/A	< 0.1	N/A	< 0.1	< 0.1	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	< 0.1	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	< 0.1	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 0.833	N/A	< 0.825	N/A	N/A	< 0.816	N/A	< 0.851	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.842	N/A

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Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
PCB-1260, ug/L (CAS NO - 11096-82-5)	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.842	< 0.842	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 0.879	N/A	< 0.851	N/A	N/A	< 0.851	N/A	< 0.825	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 0.842	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	< 0.784	N/A	N/A	N/A	N/A	N/A
Pentachlorobenzene, ug/L (CAS NO - 608-93-5)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Pentachloronitrobenzene, ug/L (CAS NO - 82-68-8)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Pentachlorophenol [2C], ug/L (CAS NO - 87-86-5)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Phenacetin, ug/L (CAS NO - 62-44-2)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A

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Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Phenacetin, ug/L (CAS NO - 62-44-2)	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Phenanthrene, ug/L (CAS NO - 85-01-8)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Phenol, ug/L (CAS NO - 108-95-2)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Phorate, ug/L (CAS NO - 298-02-2)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4	N/A
	10/24/2012	N/A	N/A	N/A	< 0.4	N/A	< 0.4	N/A	N/A	< 0.4	N/A	< 0.4	N/A	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4	< 0.4	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4	< 0.4	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Pronamide, ug/L (CAS NO - 23950-58-5)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Pronamide, ug/L (CAS NO - 23950-58-5)	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Propionitrile, ug/L (CAS NO - 107-12-0)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	10/24/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	11/28/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	< 10	N/A	< 10	< 10	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	< 10	N/A	< 10	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	< 10	N/A	< 10	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Pyrene, ug/L (CAS NO - 129-00-0)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Safrole, ug/L (CAS NO - 94-59-7)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8	N/A
	10/24/2012	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 8	N/A	< 8	N/A	N/A	< 8	N/A	< 8	< 8	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Sulfide, mg/L (CAS NO - 18496-25-8)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A
	10/24/2012	N/A	N/A	N/A	< 0.1	N/A	< 0.1	N/A	N/A	< 0.1	N/A	< 0.1	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.1	N/A	< 0.1	N/A	N/A	< 0.1	N/A	< 0.1	< 0.3	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Sulfide, mg/L (CAS NO - 18496-25-8)	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	**0.15**	**0.36**	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	**0.11**	**1.1**	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	**0.13**	N/A	< 0.1	< 0.1	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	10/12/2015	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	4/12/2016	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/22/2016	N/A	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/20/2017	< 1	< 1	**43.6**	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/20/2017	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2017	< 1	< 1	**16.8**	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/24/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	N/A	**2.49**	N/A	0.393*	< 1	N/A	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	5/29/2019	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	< 1	N/A
	9/19/2019	N/A	N/A	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	8/19/2020	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/2021	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/28/2022	N/A	N/A	N/A	N/A	0.886*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2023	N/A	N/A	< 1	N/A	0.832*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	< 1	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
Thionazin, ug/L (CAS NO - 297-97-2)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4	N/A
	10/24/2012	N/A	N/A	N/A	< 0.4	N/A	< 0.4	N/A	N/A	< 0.4	N/A	< 0.4	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.4	N/A	< 0.4	N/A	N/A	< 0.4	N/A	< 0.4	< 0.4	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4	< 0.4	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4	< 0.4	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 10.1	N/A	< 10.2	N/A	N/A	< 10.1	N/A	< 10.4	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	< 10.5	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 10.6	N/A	< 10.6	N/A	N/A	< 10.6	N/A	< 10.8	N/A	N/A
	3/23/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
Toxaphene, ug/L (CAS NO - 8001-35-2)	1/6/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.2	N/A
	10/24/2012	N/A	N/A	N/A	< 0.2	N/A	< 0.2	N/A	N/A	< 0.2	N/A	< 0.2	N/A	N/A
	5/7/2013	N/A	N/A	N/A	< 0.26	N/A	< 0.2	N/A	N/A	< 0.2	N/A	< 0.2	< 0.2	N/A
	3/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.2	< 0.2	N/A	N/A	N/A	N/A	N/A
	9/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.2	< 0.2	N/A	N/A	N/A	N/A	N/A
	2/24/2015	N/A	N/A	N/A	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2015	N/A	N/A	N/A	< 2	N/A	< 2.06	N/A	N/A	< 2	N/A	< 2	N/A	N/A
	9/22/2016	N/A	N/A	N/A	N/A	< 2.17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.17	N/A
	5/29/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 2.13	< 2.08	N/A	N/A	N/A	N/A	N/A
	3/11/2020	N/A	N/A	N/A	< 2.2	N/A	< 2.13	N/A	N/A	< 2.13	N/A	< 2.06	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-4 UPG	MW-11 UPG	MW-7 DNG	MW-9R DNG	MW-10R DNG	MW-12 DNG	MW-13R DNG	MW-14R DNG	MW-15C DNG	MW-15R DNG	MW-39 DNG	MW-44 DNG
Toxaphene, ug/L (CAS NO - 8001-35-2)	3/23/2021	N/A	N/A	N/A	N/A	< 2.11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 1.96	N/A	N/A	N/A	N/A	N/A

Note: * indicates 'J flag'. Detection is below the reporting limit, but greater than the MDL (Method Detection Limit). The concentration is estimated.

Denotes Detection.
Denotes Confirmed Outlier. Statistically Excluded.

Sampling performed over multiple dates is recorded on the first date sampled. Refer to field forms for exact sample date.

Appendix C-2

Summary of Groundwater Chemistry – Open MSWLF Unit

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Total Metals Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Antimony, mg/L (CAS NO - 7440-36-0)	2/21/2008	< 0.005	N/A	N/A	N/A	N/A
	4/17/2008	< 0.005	< 0.005	N/A	N/A	N/A
	6/19/2008	< 0.005	< 0.005	N/A	N/A	N/A
	8/7/2008	< 0.005	< 0.005	N/A	N/A	N/A
	10/1/2008	< 0.005	< 0.005	N/A	N/A	N/A
	12/2/2008	< 0.005	< 0.005	N/A	N/A	N/A
	4/15/2009	< 0.005	< 0.005	N/A	N/A	N/A
	10/19/2009	< 0.005	< 0.005	< 0.005	N/A	N/A
	5/20/2010	< 0.005	< 0.005	< 0.005	N/A	N/A
	10/1/2010	< 0.005	< 0.005	< 0.005	N/A	N/A
	4/29/2011	< 0.005	< 0.005	< 0.005	N/A	N/A
	9/28/2011	0.0101	0.0249	0.0332	N/A	N/A
	4/26/2012	< 0.002	< 0.002	< 0.002	N/A	N/A
	10/24/2012	< 0.002	< 0.002	**0.0027**	N/A	N/A
	5/7/2013	< 0.002	< 0.002	**0.0034**	N/A	N/A
	10/18/2013	< 0.002	< 0.002	< 0.002	N/A	N/A
	3/25/2014	< 0.002	< 0.002	< 0.002	N/A	N/A
	9/30/2014	< 0.002	< 0.002	< 0.002	N/A	N/A
	4/15/2015	< 0.001	N/A	**0.00151**	N/A	< 0.001
	10/12/2015	< 0.001	N/A	0.000485*	N/A	< 0.001
	10/12/2015	< 0.001	N/A	N/A	N/A	N/A
	4/12/2016	< 0.001	N/A	0.000651*	N/A	< 0.001
	4/12/2016	< 0.001	N/A	N/A	N/A	N/A
	6/21/2016	< 0.003	N/A	N/A	N/A	N/A
	9/23/2016	< 0.001	N/A	0.000779*	N/A	N/A
	9/23/2016	< 0.001	N/A	N/A	N/A	N/A
	3/21/2017	< 0.001	0.000388*	0.000379*	N/A	N/A
	3/21/2017	N/A	N/A	0.000552*	N/A	N/A
	7/24/2017	< 0.001	< 0.001	< 0.001	N/A	N/A
	7/24/2017	< 0.001	N/A	N/A	N/A	N/A
	5/15/2018	< 0.001	< 0.001	< 0.001	N/A	N/A
	5/15/2018	< 0.001	N/A	N/A	N/A	N/A
	8/22/2018	< 0.001	< 0.001	< 0.001	N/A	N/A
	8/22/2018	< 0.001	N/A	N/A	N/A	N/A
	5/29/2019	< 0.003	< 0.003	< 0.003	< 0.003	N/A
	5/29/2019	N/A	N/A	< 0.003	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 0.015	N/A
	9/19/2019	< 0.001	< 0.001	< 0.001	N/A	N/A
	9/19/2019	< 0.001	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	**0.00423**	N/A
	1/23/2020	N/A	N/A	N/A	**0.00289**	N/A
	3/11/2020	< 0.001	< 0.001	< 0.001	**0.00184**	< 0.001
	3/11/2020	N/A	< 0.001	N/A	N/A	N/A
	8/19/2020	< 0.001	< 0.001	< 0.001	**0.00104**	N/A
	8/19/2020	N/A	N/A	N/A	**0.00105**	N/A
	3/23/2021	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	3/23/2021	< 0.002	N/A	N/A	N/A	N/A
	9/16/2021	< 0.002	< 0.002	< 0.002	< 0.002	N/A
	9/16/2021	N/A	< 0.002	N/A	N/A	N/A
	5/10/2022	< 0.002	< 0.002	< 0.008	< 0.002	N/A
	5/10/2022	N/A	N/A	< 0.002	N/A	N/A
	9/28/2022	< 0.002	< 0.002	< 0.002	< 0.002	N/A
	9/28/2022	N/A	N/A	N/A	< 0.002	N/A

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Total Metals Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Antimony, mg/L (CAS NO - 7440-36-0)	3/7/2023	< 0.002	< 0.002	< 0.002	0.00125*	N/A
	3/7/2023	N/A	N/A	N/A	< 0.002	N/A
	9/26/2023	< 0.002	< 0.002	< 0.002	< 0.002	N/A
	9/26/2023	< 0.002	N/A	N/A	N/A	N/A
	5/29/2024	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	5/29/2024	N/A	< 0.002	N/A	N/A	N/A
	10/23/2024	< 0.002	< 0.002	< 0.002	< 0.002	N/A
	10/23/2024	N/A	< 0.002	N/A	N/A	N/A
Arsenic, mg/L (CAS NO - 7440-38-2)	2/21/2008	< 0.01	N/A	N/A	N/A	N/A
	4/17/2008	< 0.01	< 0.01	N/A	N/A	N/A
	6/19/2008	< 0.01	< 0.01	N/A	N/A	N/A
	8/7/2008	< 0.01	< 0.01	N/A	N/A	N/A
	10/1/2008	< 0.01	< 0.01	N/A	N/A	N/A
	12/2/2008	< 0.01	< 0.01	N/A	N/A	N/A
	4/15/2009	0.01	< 0.01	N/A	N/A	N/A
	10/19/2009	< 0.01	< 0.01	< 0.01	N/A	N/A
	5/20/2010	< 0.005	< 0.005	< 0.005	N/A	N/A
	10/1/2010	< 0.005	< 0.005	< 0.005	N/A	N/A
	4/29/2011	< 0.005	< 0.005	< 0.005	N/A	N/A
	9/28/2011	< 0.0172	< 0.0172	< 0.0172	N/A	N/A
	4/26/2012	< 0.004	< 0.004	< 0.004	N/A	N/A
	10/24/2012	< 0.004	< 0.004	**0.0116**	N/A	N/A
	5/7/2013	< 0.004	< 0.004	**0.0079**	N/A	N/A
	10/18/2013	< 0.004	< 0.004	**0.0099**	N/A	N/A
	3/25/2014	< 0.004	< 0.004	**0.01**	N/A	N/A
	9/30/2014	< 0.004	< 0.004	**0.0074**	N/A	N/A
	4/15/2015	< 0.002	N/A	**0.0071**	N/A	< 0.002
	10/12/2015	< 0.002	N/A	0.00112*	N/A	**0.0154**
	10/12/2015	< 0.002	N/A	N/A	N/A	N/A
	4/12/2016	< 0.002	N/A	0.00166*	N/A	**0.0334**
	4/12/2016	< 0.002	N/A	N/A	N/A	N/A
	6/21/2016	< 0.001	N/A	N/A	N/A	N/A
	9/23/2016	< 0.002	N/A	< 0.002	N/A	N/A
	9/23/2016	< 0.002	N/A	N/A	N/A	N/A
	3/21/2017	< 0.002	< 0.002	< 0.002	N/A	N/A
	3/21/2017	N/A	N/A	< 0.002	N/A	N/A
	7/24/2017	< 0.002	< 0.002	0.000881*	N/A	N/A
	7/24/2017	< 0.002	N/A	N/A	N/A	N/A
	5/15/2018	< 0.002	< 0.002	< 0.002	N/A	N/A
	5/15/2018	< 0.002	N/A	N/A	N/A	N/A
	8/22/2018	< 0.002	< 0.002	0.00107*	N/A	N/A
	8/22/2018	< 0.002	N/A	N/A	N/A	N/A
	5/29/2019	0.000415*	0.000425*	0.000727*	**0.00129**	N/A
	5/29/2019	N/A	N/A	0.000662*	N/A	N/A
	8/1/2019	N/A	N/A	N/A	0.0298	N/A
	9/19/2019	< 0.002	< 0.002	0.00105*	N/A	N/A
	9/19/2019	< 0.002	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	0.0011*	N/A
	1/23/2020	N/A	N/A	N/A	0.00087*	N/A
	3/11/2020	< 0.002	< 0.002	0.00126*	< 0.002	**0.00374**
	3/11/2020	N/A	< 0.002	N/A	N/A	N/A
	8/19/2020	< 0.002	< 0.002	0.000959*	0.0009*	N/A
	8/19/2020	N/A	N/A	N/A	< 0.002	N/A

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Total Metals Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Arsenic, mg/L (CAS NO - 7440-38-2)	3/23/2021	< 0.002	< 0.002	< 0.002	< 0.002	0.0013*
	3/23/2021	< 0.002	N/A	N/A	N/A	N/A
	9/16/2021	< 0.002	< 0.002	< 0.002	0.000903*	N/A
	9/16/2021	N/A	< 0.002	N/A	N/A	N/A
	5/10/2022	< 0.002	< 0.002	< 0.008	< 0.002	N/A
	5/10/2022	N/A	N/A	< 0.002	N/A	N/A
	9/28/2022	< 0.002	< 0.002	0.000849*	0.000881*	N/A
	9/28/2022	N/A	N/A	N/A	0.00081*	N/A
	3/7/2023	< 0.002	< 0.002	< 0.002	0.00139*	N/A
	3/7/2023	N/A	N/A	N/A	< 0.002	N/A
	9/26/2023	< 0.002	< 0.002	0.000912*	0.00102*	N/A
	9/26/2023	< 0.002	N/A	N/A	N/A	N/A
	5/29/2024	< 0.002	< 0.002	< 0.002	< 0.002	**0.00698**
	5/29/2024	N/A	< 0.002	N/A	N/A	N/A
	10/23/2024	< 0.002	< 0.002	0.00216	< 0.002	N/A
	10/23/2024	N/A	< 0.002	N/A	N/A	N/A
Barium, mg/L (CAS NO - 7440-39-3)	2/21/2008	0.18	N/A	N/A	N/A	N/A
	4/17/2008	0.17	< 0.05	N/A	N/A	N/A
	6/19/2008	0.32	< 0.05	N/A	N/A	N/A
	8/7/2008	0.2	< 0.05	N/A	N/A	N/A
	10/1/2008	0.021	< 0.05	N/A	N/A	N/A
	12/2/2008	0.25	< 0.05	N/A	N/A	N/A
	4/15/2009	0.33	< 0.05	N/A	N/A	N/A
	10/19/2009	0.26	< 0.05	0.46	N/A	N/A
	5/20/2010	0.3	< 0.05	**0.1**	N/A	N/A
	10/1/2010	0.27	< 0.05	**0.06**	N/A	N/A
	4/29/2011	0.29	< 0.05	< 0.05	N/A	N/A
	9/28/2011	0.278	0.0413	0.05895	N/A	N/A
	4/26/2012	0.323	0.0359	**0.046**	N/A	N/A
	10/24/2012	0.28	0.0337	**0.0426**	N/A	N/A
	5/7/2013	0.324	0.0364	**0.0411**	N/A	N/A
	10/18/2013	0.277	0.0322	**0.03**	N/A	N/A
	3/25/2014	0.31	0.0301	**0.0404**	N/A	N/A
	9/30/2014	0.289	0.0313	**0.0313**	N/A	N/A
	4/15/2015	**0.296**	N/A	**0.0258**	N/A	**0.335**
	10/12/2015	**0.33**	N/A	**0.042**	N/A	**1.75**
	10/12/2015	**0.331**	N/A	N/A	N/A	N/A
	4/12/2016	**0.342**	N/A	**0.0318**	N/A	**2.04**
	4/12/2016	**0.307**	N/A	N/A	N/A	N/A
	6/21/2016	**0.335**	N/A	N/A	N/A	N/A
	9/23/2016	**0.326**	N/A	**0.0376**	N/A	N/A
	9/23/2016	**0.336**	N/A	N/A	N/A	N/A
	3/21/2017	**0.377**	**0.0339**	**0.0294**	N/A	N/A
	3/21/2017	N/A	N/A	**0.0263**	N/A	N/A
	7/24/2017	**0.309**	**0.0327**	**0.0198**	N/A	N/A
	7/24/2017	**0.321**	N/A	N/A	N/A	N/A
	5/15/2018	**0.332**	**0.0336**	**0.0187**	N/A	N/A
	5/15/2018	**0.311**	N/A	N/A	N/A	N/A
	8/22/2018	**0.385**	**0.036**	**0.021**	N/A	N/A
	8/22/2018	**0.352**	N/A	N/A	N/A	N/A
	5/29/2019	**0.313**	**0.0326**	**0.0172**	**0.0315**	N/A
	5/29/2019	N/A	N/A	**0.0165**	N/A	N/A
	8/1/2019	N/A	N/A	N/A	0.0245	N/A

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Total Metals Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Barium, mg/L (CAS NO - 7440-39-3)	9/19/2019	0.353	0.0379	0.0206	N/A	N/A
	9/19/2019	0.34	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	0.03	N/A
	1/23/2020	N/A	N/A	N/A	0.0294	N/A
	3/11/2020	0.333	0.0355	0.0199	0.029	0.229
	3/11/2020	N/A	0.0346	N/A	N/A	N/A
	8/19/2020	0.305	0.0369	0.0192	0.0254	N/A
	8/19/2020	N/A	N/A	N/A	0.025	N/A
	3/23/2021	0.273	0.0333	0.0184	0.0225	0.216
	3/23/2021	0.269	N/A	N/A	N/A	N/A
	9/16/2021	0.268	0.0317	0.0188	0.0228	N/A
	9/16/2021	N/A	0.0329	N/A	N/A	N/A
	5/10/2022	0.262	0.0339	0.0179	0.0191	N/A
	5/10/2022	N/A	N/A	0.0174	N/A	N/A
	9/28/2022	0.257	0.0332	0.0211	0.0209	N/A
	9/28/2022	N/A	N/A	N/A	0.0202	N/A
	3/7/2023	0.245	0.0337	0.0181	0.0192	N/A
	3/7/2023	N/A	N/A	N/A	0.0189	N/A
	9/26/2023	0.251	0.0337	0.0183	0.0196	N/A
	9/26/2023	0.264	N/A	N/A	N/A	N/A
	5/29/2024	0.221	0.0323	0.017	0.0158	0.336
	5/29/2024	N/A	0.0315	N/A	N/A	N/A
	10/23/2024	0.171	0.0319	0.0532	0.0177	N/A
	10/23/2024	N/A	0.0318	N/A	N/A	N/A
Beryllium, mg/L (CAS NO - 7440-41-7)	2/21/2008	< 0.02	N/A	N/A	N/A	N/A
	4/17/2008	< 0.02	< 0.02	N/A	N/A	N/A
	6/19/2008	< 0.02	< 0.02	N/A	N/A	N/A
	8/7/2008	< 0.02	< 0.02	N/A	N/A	N/A
	10/1/2008	< 0.02	< 0.02	N/A	N/A	N/A
	12/2/2008	< 0.02	< 0.02	N/A	N/A	N/A
	4/15/2009	< 0.02	< 0.02	N/A	N/A	N/A
	10/19/2009	< 0.02	< 0.02	< 0.02	N/A	N/A
	5/20/2010	< 0.002	< 0.002	< 0.002	N/A	N/A
	10/1/2010	< 0.002	< 0.002	< 0.002	N/A	N/A
	4/29/2011	< 0.002	< 0.002	< 0.002	N/A	N/A
	9/28/2011	0.0187	0.0187	0.0184	N/A	N/A
	4/26/2012	< 0.004	< 0.004	< 0.004	N/A	N/A
	10/24/2012	< 0.004	< 0.004	< 0.004	N/A	N/A
	5/7/2013	< 0.004	< 0.004	< 0.004	N/A	N/A
	10/18/2013	< 0.004	< 0.004	< 0.004	N/A	N/A
	3/25/2014	< 0.004	< 0.004	< 0.004	N/A	N/A
	9/30/2014	< 0.004	< 0.004	< 0.004	N/A	N/A
	4/15/2015	< 0.001	N/A	< 0.001	N/A	< 0.001
	10/12/2015	0.000047*	N/A	< 0.001	N/A	0.000076*
	10/12/2015	< 0.001	N/A	N/A	N/A	N/A
	4/12/2016	< 0.001	N/A	< 0.001	N/A	< 0.001
	4/12/2016	< 0.001	N/A	N/A	N/A	N/A
	6/21/2016	< 0.001	N/A	N/A	N/A	N/A
	9/23/2016	< 0.001	N/A	< 0.001	N/A	N/A
	9/23/2016	< 0.001	N/A	N/A	N/A	N/A
	3/21/2017	< 0.001	< 0.001	< 0.001	N/A	N/A
	3/21/2017	N/A	N/A	< 0.001	N/A	N/A
	7/24/2017	< 0.001	< 0.001	< 0.001	N/A	N/A
	7/24/2017	< 0.001	N/A	N/A	N/A	N/A

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Total Metals Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Beryllium, mg/L (CAS NO - 7440-41-7)	5/15/2018	< 0.001	< 0.001	< 0.001	N/A	N/A
	5/15/2018	< 0.001	N/A	N/A	N/A	N/A
	8/22/2018	< 0.001	< 0.001	< 0.001	N/A	N/A
	8/22/2018	< 0.001	N/A	N/A	N/A	N/A
	5/29/2019	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	5/29/2019	N/A	N/A	< 0.001	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 0.001	N/A
	9/19/2019	< 0.001	< 0.001	< 0.001	N/A	N/A
	9/19/2019	< 0.001	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 0.001	N/A
	1/23/2020	N/A	N/A	N/A	< 0.001	N/A
	3/11/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	3/11/2020	N/A	< 0.001	N/A	N/A	N/A
	8/19/2020	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	8/19/2020	N/A	N/A	N/A	< 0.001	N/A
	3/23/2021	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	3/23/2021	< 0.001	N/A	N/A	N/A	N/A
	9/16/2021	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	9/16/2021	N/A	< 0.001	N/A	N/A	N/A
	5/10/2022	< 0.001	< 0.001	< 0.004	< 0.001	N/A
	5/10/2022	N/A	N/A	< 0.001	N/A	N/A
	9/28/2022	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	9/28/2022	N/A	N/A	N/A	< 0.001	N/A
	3/7/2023	< 0.001	< 0.001	< 0.001	0.000448*	N/A
	3/7/2023	N/A	N/A	N/A	< 0.001	N/A
	9/26/2023	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	9/26/2023	< 0.001	N/A	N/A	N/A	N/A
	5/29/2024	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	5/29/2024	N/A	< 0.001	N/A	N/A	N/A
	10/23/2024	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	10/23/2024	N/A	< 0.001	N/A	N/A	N/A
Cadmium, mg/L (CAS NO - 7440-43-9)	2/21/2008	< 0.001	N/A	N/A	N/A	N/A
	4/17/2008	< 0.001	< 0.001	N/A	N/A	N/A
	6/19/2008	0.002	< 0.001	N/A	N/A	N/A
	8/7/2008	< 0.001	0.001	N/A	N/A	N/A
	10/1/2008	< 0.001	< 0.001	N/A	N/A	N/A
	12/2/2008	< 0.001	< 0.001	N/A	N/A	N/A
	4/15/2009	0.002	< 0.001	N/A	N/A	N/A
	10/19/2009	0.011	< 0.001	< 0.001	N/A	N/A
	3/2/2010	< 0.001	N/A	N/A	N/A	N/A
	5/20/2010	< 0.00025	< 0.00025	< 0.00025	N/A	N/A
	10/1/2010	< 0.00025	< 0.00025	< 0.00025	N/A	N/A
	4/29/2011	< 0.00025	< 0.00025	< 0.00025	N/A	N/A
	9/28/2011	0.0164	0.0162	0.0164	N/A	N/A
	4/26/2012	< 0.0008	< 0.0008	< 0.0008	N/A	N/A
	10/24/2012	< 0.0008	< 0.0008	< 0.0008	N/A	N/A
	5/7/2013	< 0.0008	< 0.0008	< 0.0008	N/A	N/A
	10/18/2013	< 0.0008	< 0.0008	< 0.0008	N/A	N/A
	3/25/2014	< 0.0008	< 0.0008	< 0.0008	N/A	N/A
	9/30/2014	< 0.0008	< 0.0008	< 0.0008	N/A	N/A
	4/15/2015	< 0.0005	N/A	0.000119*	N/A	< 0.0005
	10/12/2015	< 0.0005	N/A	0.000378*	N/A	**0.000678**
	10/12/2015	< 0.0005	N/A	N/A	N/A	N/A

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Total Metals Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Cadmium, mg/L (CAS NO - 7440-43-9)	4/12/2016	0.000041*	N/A	0.000308*	N/A	**0.00145**
	4/12/2016	0.000061*	N/A	N/A	N/A	N/A
	6/21/2016	< 0.0005	N/A	N/A	N/A	N/A
	9/23/2016	0.000063*	N/A	0.000076*	N/A	N/A
	9/23/2016	0.000054*	N/A	N/A	N/A	N/A
	3/21/2017	0.000073*	< 0.0005	< 0.0005	N/A	N/A
	3/21/2017	N/A	N/A	< 0.0005	N/A	N/A
	7/24/2017	< 0.0005	< 0.0005	< 0.0005	N/A	N/A
	7/24/2017	< 0.0005	N/A	N/A	N/A	N/A
	5/15/2018	< 0.0005	< 0.0005	< 0.0005	N/A	N/A
	5/15/2018	< 0.0005	N/A	N/A	N/A	N/A
	8/22/2018	< 0.0005	< 0.0005	< 0.0005	N/A	N/A
	8/22/2018	< 0.0005	N/A	N/A	N/A	N/A
	5/29/2019	< 0.0005	< 0.0005	0.000329*	< 0.0005	N/A
	5/29/2019	N/A	N/A	0.000338*	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 0.0025	N/A
	9/19/2019	< 0.0001	< 0.0001	< 0.0001	N/A	N/A
	9/19/2019	< 0.0001	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	**0.000173**	N/A
	1/23/2020	N/A	N/A	N/A	**0.000184**	N/A
	3/11/2020	< 0.0001	< 0.0001	< 0.0001	**0.000185**	< 0.0001
	3/11/2020	N/A	< 0.0001	N/A	N/A	N/A
	8/19/2020	< 0.0001	< 0.0001	< 0.0001	**0.000272**	N/A
	8/19/2020	N/A	N/A	N/A	**0.000262**	N/A
	3/23/2021	**0.0003**	< 0.0001	0.000059*	**0.000222**	**0.000594**
	3/23/2021	**0.000267**	N/A	N/A	N/A	N/A
	9/16/2021	< 0.0001	< 0.0001	< 0.0001	0.000058*	N/A
	9/16/2021	N/A	< 0.0001	N/A	N/A	N/A
	5/10/2022	0.000094*	< 0.0001	< 0.0004	**0.000197**	N/A
	5/10/2022	N/A	N/A	< 0.0001	N/A	N/A
	9/28/2022	0.000064*	< 0.0001	< 0.0001	**0.00012**	N/A
	9/28/2022	N/A	N/A	N/A	**0.00012**	N/A
	3/7/2023	**0.000149**	< 0.0001	< 0.0001	**0.000598**	N/A
	3/7/2023	N/A	N/A	N/A	**0.00018**	N/A
	9/26/2023	< 0.0002	< 0.0002	0.000122*	< 0.0002	N/A
	9/26/2023	< 0.0002	N/A	N/A	N/A	N/A
	5/29/2024	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
	5/29/2024	N/A	< 0.0002	N/A	N/A	N/A
	10/23/2024	< 0.0002	< 0.0002	0.000437	0.000148*	N/A
	10/23/2024	N/A	< 0.0002	N/A	N/A	N/A
Chromium, mg/L (CAS NO - 7440-47-3)	2/21/2008	< 0.02	N/A	N/A	N/A	N/A
	4/17/2008	< 0.02	< 0.02	N/A	N/A	N/A
	6/19/2008	< 0.02	< 0.02	N/A	N/A	N/A
	8/7/2008	< 0.02	< 0.02	N/A	N/A	N/A
	10/1/2008	< 0.02	< 0.02	N/A	N/A	N/A
	12/2/2008	< 0.02	< 0.02	N/A	N/A	N/A
	4/15/2009	< 0.02	< 0.02	N/A	N/A	N/A
	10/19/2009	< 0.02	< 0.02	< 0.02	N/A	N/A
	5/20/2010	< 0.01	< 0.01	< 0.01	N/A	N/A
	10/1/2010	< 0.01	< 0.01	< 0.01	N/A	N/A
	4/29/2011	< 0.01	< 0.01	< 0.01	N/A	N/A
	9/28/2011	0.0109	0.0111	0.0173	N/A	N/A
	4/26/2012	< 0.008	< 0.008	< 0.008	N/A	N/A
	10/24/2012	< 0.008	< 0.008	< 0.008	N/A	N/A

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Total Metals Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Chromium, mg/L (CAS NO - 7440-47-3)	5/7/2013	< 0.008	< 0.008	< 0.008	N/A	N/A
	10/18/2013	< 0.008	< 0.008	< 0.008	N/A	N/A
	3/25/2014	< 0.008	< 0.008	< 0.008	N/A	N/A
	9/30/2014	< 0.008	< 0.008	< 0.008	N/A	N/A
	4/15/2015	< 0.005	N/A	< 0.005	N/A	< 0.005
	10/12/2015	< 0.005	N/A	< 0.005	N/A	< 0.005
	10/12/2015	< 0.005	N/A	N/A	N/A	N/A
	4/12/2016	< 0.005	N/A	< 0.005	N/A	0.000809*
	4/12/2016	< 0.005	N/A	N/A	N/A	N/A
	6/21/2016	< 0.005	N/A	N/A	N/A	N/A
	9/23/2016	< 0.005	N/A	0.000441*	N/A	N/A
	9/23/2016	< 0.005	N/A	N/A	N/A	N/A
	3/21/2017	< 0.005	< 0.005	< 0.005	N/A	N/A
	3/21/2017	N/A	N/A	< 0.005	N/A	N/A
	7/24/2017	< 0.005	0.000737*	< 0.005	N/A	N/A
	7/24/2017	< 0.005	N/A	N/A	N/A	N/A
	5/15/2018	< 0.005	< 0.005	< 0.005	N/A	N/A
	5/15/2018	< 0.005	N/A	N/A	N/A	N/A
	8/22/2018	< 0.005	0.000785*	< 0.005	N/A	N/A
	8/22/2018	< 0.005	N/A	N/A	N/A	N/A
	5/29/2019	< 0.005	< 0.005	0.00293*	0.00138*	N/A
	5/29/2019	N/A	N/A	< 0.005	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 0.025	N/A
	9/19/2019	< 0.005	< 0.005	< 0.005	N/A	N/A
	9/19/2019	< 0.005	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 0.005	N/A
	1/23/2020	N/A	N/A	N/A	< 0.005	N/A
	3/11/2020	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	3/11/2020	N/A	< 0.005	N/A	N/A	N/A
	8/19/2020	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	8/19/2020	N/A	N/A	N/A	< 0.005	N/A
	3/23/2021	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	3/23/2021	< 0.005	N/A	N/A	N/A	N/A
	9/16/2021	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	9/16/2021	N/A	< 0.005	N/A	N/A	N/A
	5/10/2022	< 0.005	< 0.005	< 0.02	< 0.005	N/A
	5/10/2022	N/A	N/A	< 0.005	N/A	N/A
	9/28/2022	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	9/28/2022	N/A	N/A	N/A	< 0.005	N/A
	3/7/2023	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	3/7/2023	N/A	N/A	N/A	< 0.005	N/A
	9/26/2023	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	9/26/2023	< 0.005	N/A	N/A	N/A	N/A
	5/29/2024	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	5/29/2024	N/A	< 0.005	N/A	N/A	N/A
	10/23/2024	< 0.005	< 0.005	0.00142*	< 0.005	N/A
	10/23/2024	N/A	< 0.005	N/A	N/A	N/A
Cobalt, mg/L (CAS NO - 7440-48-4)	2/21/2008	< 0.05	N/A	N/A	N/A	N/A
	4/17/2008	< 0.05	< 0.05	N/A	N/A	N/A
	6/19/2008	< 0.05	< 0.05	N/A	N/A	N/A
	8/7/2008	< 0.05	< 0.05	N/A	N/A	N/A
	10/1/2008	< 0.05	< 0.05	N/A	N/A	N/A
	12/2/2008	< 0.05	< 0.05	N/A	N/A	N/A
	4/15/2009	< 0.05	< 0.05	N/A	N/A	N/A

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Total Metals Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Cobalt, mg/L (CAS NO - 7440-48-4)	10/19/2009	< 0.05	< 0.05	< 0.05	N/A	N/A
	5/20/2010	< 0.02	< 0.02	< 0.02	N/A	N/A
	10/1/2010	< 0.02	< 0.02	< 0.02	N/A	N/A
	4/29/2011	< 0.02	< 0.02	< 0.02	N/A	N/A
	9/28/2011	0.0997	0.011	0.0237	N/A	N/A
	4/26/2012	< 0.004	< 0.004	**0.0112**	N/A	N/A
	10/24/2012	< 0.004	< 0.004	**0.0422**	N/A	N/A
	5/7/2013	< 0.004	< 0.004	**0.0326**	N/A	N/A
	10/18/2013	< 0.004	< 0.004	**0.0202**	N/A	N/A
	3/25/2014	< 0.004	< 0.004	**0.0505**	N/A	N/A
	9/30/2014	< 0.0008	< 0.0008	**0.0406**	N/A	N/A
	4/15/2015	0.00018*	N/A	**0.0307**	N/A	0.000068*
	10/12/2015	0.000317*	N/A	**0.0196**	N/A	**0.00652**
	10/12/2015	0.000301*	N/A	N/A	N/A	N/A
	4/12/2016	**0.000526**	N/A	**0.0209**	N/A	**0.015**
	4/12/2016	0.000453*	N/A	N/A	N/A	N/A
	6/21/2016	0.00026*	N/A	N/A	N/A	N/A
	9/23/2016	0.00024*	N/A	**0.0022**	N/A	N/A
	9/23/2016	0.000245*	N/A	N/A	N/A	N/A
	3/21/2017	0.000172*	0.00012*	**0.00118**	N/A	N/A
	3/21/2017	N/A	N/A	**0.00109**	N/A	N/A
	7/24/2017	0.000305*	0.000046*	**0.00462**	N/A	N/A
	7/24/2017	0.000304*	N/A	N/A	N/A	N/A
	5/15/2018	0.000136*	< 0.0005	**0.000683**	N/A	N/A
	5/15/2018	0.000126*	N/A	N/A	N/A	N/A
	8/22/2018	0.000301*	< 0.0005	**0.00462**	N/A	N/A
	8/22/2018	0.000304*	N/A	N/A	N/A	N/A
	5/29/2019	< 0.001	< 0.001	**0.00208**	**0.00386**	N/A
	5/29/2019	N/A	N/A	**0.00218**	N/A	N/A
	8/1/2019	N/A	N/A	N/A	0.00583	N/A
	9/19/2019	0.000107*	< 0.0005	**0.00802**	N/A	N/A
	9/19/2019	0.000106*	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	**0.0046**	N/A
	1/23/2020	N/A	N/A	N/A	**0.00358**	N/A
	3/11/2020	0.000116*	< 0.0005	**0.00784**	**0.00394**	**0.00539**
	3/11/2020	N/A	< 0.0005	N/A	N/A	N/A
	8/19/2020	0.000099*	0.000133*	**0.00553**	**0.00341**	N/A
	8/19/2020	N/A	N/A	N/A	**0.00344**	N/A
	3/23/2021	0.000222*	< 0.0005	**0.00264**	**0.00386**	**0.00205**
	3/23/2021	0.000224*	N/A	N/A	N/A	N/A
	9/16/2021	0.000254*	< 0.0005	**0.00641**	**0.00463**	N/A
	9/16/2021	N/A	0.000247*	N/A	N/A	N/A
	5/10/2022	0.000257*	< 0.0005	**0.00391**	**0.00512**	N/A
	5/10/2022	N/A	N/A	**0.00206**	N/A	N/A
	9/28/2022	< 0.0005	< 0.0005	**0.0114**	**0.00499**	N/A
	9/28/2022	N/A	N/A	N/A	**0.00487**	N/A
	3/7/2023	< 0.0005	< 0.0005	**0.00598**	**0.0056**	N/A
	3/7/2023	N/A	N/A	N/A	**0.00528**	N/A
	9/26/2023	< 0.0005	< 0.0005	**0.00519**	**0.00819**	N/A
	9/26/2023	< 0.0005	N/A	N/A	N/A	N/A
	3/4/2024	N/A	N/A	N/A	**0.00535**	N/A
	5/29/2024	< 0.0005	< 0.0005	**0.00329**	**0.00365**	**0.00636**
	5/29/2024	N/A	< 0.0005	N/A	N/A	N/A

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Total Metals Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Cobalt, mg/L (CAS NO - 7440-48-4)	10/23/2024	< 0.0005	< 0.0005	0.0372	**0.00505**	N/A
	10/23/2024	N/A	< 0.0005	N/A	N/A	N/A
Copper, mg/L (CAS NO - 7440-50-8)	2/21/2008	< 0.01	N/A	N/A	N/A	N/A
	4/17/2008	< 0.01	< 0.01	N/A	N/A	N/A
	6/19/2008	0.02	< 0.01	N/A	N/A	N/A
	8/7/2008	< 0.01	< 0.01	N/A	N/A	N/A
	10/1/2008	< 0.01	< 0.01	N/A	N/A	N/A
	12/2/2008	< 0.01	< 0.01	N/A	N/A	N/A
	4/15/2009	0.02	< 0.01	N/A	N/A	N/A
	10/19/2009	< 0.01	< 0.01	< 0.01	N/A	N/A
	5/20/2010	< 0.005	< 0.005	< 0.005	N/A	N/A
	10/1/2010	< 0.005	< 0.005	< 0.005	N/A	N/A
	4/29/2011	< 0.005	< 0.005	< 0.005	N/A	N/A
	9/28/2011	0.0106	0.0099	0.0085	N/A	N/A
	4/26/2012	< 0.004	< 0.004	< 0.004	N/A	N/A
	10/24/2012	< 0.004	< 0.004	< 0.004	N/A	N/A
	5/7/2013	0.0047	< 0.004	< 0.004	N/A	N/A
	10/18/2013	< 0.004	< 0.004	< 0.004	N/A	N/A
	3/25/2014	0.0082	< 0.004	< 0.004	N/A	N/A
	9/30/2014	< 0.004	< 0.004	< 0.004	N/A	N/A
	4/15/2015	0.000517*	N/A	**0.0102**	N/A	0.000706*
	7/28/2015	N/A	N/A	**0.0212**	N/A	N/A
	10/12/2015	< 0.002	N/A	0.00131*	N/A	0.00168*
	10/12/2015	< 0.002	N/A	N/A	N/A	N/A
	4/12/2016	< 0.005	N/A	< 0.005	N/A	0.00367*
	4/12/2016	< 0.005	N/A	N/A	N/A	N/A
	6/21/2016	< 0.002	N/A	N/A	N/A	N/A
	9/23/2016	< 0.005	N/A	< 0.005	N/A	N/A
	9/23/2016	0.00128*	N/A	N/A	N/A	N/A
	3/21/2017	< 0.005	< 0.005	< 0.005	N/A	N/A
	3/21/2017	N/A	N/A	< 0.005	N/A	N/A
	7/24/2017	< 0.005	< 0.005	< 0.005	N/A	N/A
	7/24/2017	< 0.005	N/A	N/A	N/A	N/A
	5/15/2018	< 0.005	< 0.005	< 0.005	N/A	N/A
	5/15/2018	< 0.005	N/A	N/A	N/A	N/A
	8/22/2018	< 0.005	< 0.005	< 0.005	N/A	N/A
	8/22/2018	< 0.005	N/A	N/A	N/A	N/A
	5/29/2019	0.00136*	0.00102*	**0.0033**	**0.00905**	N/A
	5/29/2019	N/A	N/A	**0.00298**	N/A	N/A
	8/1/2019	N/A	N/A	N/A	0.00793	N/A
	9/19/2019	< 0.005	< 0.005	< 0.005	N/A	N/A
	9/19/2019	< 0.005	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 0.005	N/A
	1/23/2020	N/A	N/A	N/A	0.00219*	N/A
	3/11/2020	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	3/11/2020	N/A	< 0.005	N/A	N/A	N/A
	8/19/2020	< 0.005	< 0.005	< 0.005	0.00449*	N/A
	8/19/2020	N/A	N/A	N/A	0.00389*	N/A
	3/23/2021	0.0106	< 0.005	< 0.005	0.00292*	0.00455*
	3/23/2021	0.0103	N/A	N/A	N/A	N/A
	9/16/2021	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	9/16/2021	N/A	< 0.005	N/A	N/A	N/A
	5/10/2022	< 0.005	< 0.005	< 0.02	0.00276*	N/A
	5/10/2022	N/A	N/A	< 0.005	N/A	N/A

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Total Metals Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Copper, mg/L (CAS NO - 7440-50-8)	9/28/2022	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	9/28/2022	N/A	N/A	N/A	< 0.005	N/A
	3/7/2023	< 0.005	< 0.005	< 0.005	0.00389*	N/A
	3/7/2023	N/A	N/A	N/A	0.00293*	N/A
	9/26/2023	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	9/26/2023	< 0.005	N/A	N/A	N/A	N/A
	5/29/2024	< 0.005	< 0.005	< 0.005	0.00222*	< 0.005
	5/29/2024	N/A	< 0.005	N/A	N/A	N/A
	10/23/2024	< 0.005	< 0.005	0.00792	0.00463*	N/A
	10/23/2024	N/A	< 0.005	N/A	N/A	N/A
Lead, mg/L (CAS NO - 7439-92-1)	2/21/2008	< 0.01	N/A	N/A	N/A	N/A
	4/17/2008	< 0.01	< 0.01	N/A	N/A	N/A
	6/19/2008	0.01	< 0.01	N/A	N/A	N/A
	8/7/2008	< 0.01	< 0.01	N/A	N/A	N/A
	10/1/2008	< 0.01	< 0.01	N/A	N/A	N/A
	12/2/2008	< 0.01	< 0.01	N/A	N/A	N/A
	4/15/2009	0.01	< 0.01	N/A	N/A	N/A
	10/19/2009	< 0.01	< 0.01	< 0.01	N/A	N/A
	5/20/2010	< 0.001	< 0.001	< 0.001	N/A	N/A
	10/1/2010	< 0.001	< 0.001	< 0.001	N/A	N/A
	4/29/2011	< 0.001	< 0.001	< 0.001	N/A	N/A
	9/28/2011	< 0.008	0.0091	0.0107	N/A	N/A
	4/26/2012	< 0.004	< 0.004	< 0.004	N/A	N/A
	10/24/2012	< 0.004	< 0.004	< 0.004	N/A	N/A
	5/7/2013	< 0.004	< 0.004	< 0.004	N/A	N/A
	10/18/2013	< 0.004	< 0.004	< 0.004	N/A	N/A
	3/25/2014	< 0.004	< 0.004	< 0.004	N/A	N/A
	9/30/2014	< 0.004	< 0.004	< 0.004	N/A	N/A
	4/15/2015	0.000135*	N/A	0.000342*	N/A	< 0.0005
	10/12/2015	0.000266*	N/A	0.000126*	N/A	0.000387*
	10/12/2015	0.000174*	N/A	N/A	N/A	N/A
	4/12/2016	< 0.0005	N/A	0.000286*	N/A	**0.00114**
	4/12/2016	< 0.0005	N/A	N/A	N/A	N/A
	6/21/2016	0.000209*	N/A	N/A	N/A	N/A
	9/23/2016	0.000486*	N/A	< 0.0005	N/A	N/A
	9/23/2016	0.00047*	N/A	N/A	N/A	N/A
	3/21/2017	< 0.0005	< 0.0005	0.000334*	N/A	N/A
	3/21/2017	N/A	N/A	< 0.0005	N/A	N/A
	7/24/2017	< 0.0005	< 0.0005	< 0.0005	N/A	N/A
	7/24/2017	< 0.0005	N/A	N/A	N/A	N/A
	5/15/2018	< 0.0005	< 0.0005	< 0.0005	N/A	N/A
	5/15/2018	< 0.0005	N/A	N/A	N/A	N/A
	8/22/2018	< 0.0005	< 0.0005	< 0.0005	N/A	N/A
	8/22/2018	< 0.0005	N/A	N/A	N/A	N/A
	5/29/2019	< 0.0005	< 0.0005	< 0.0005	0.000323*	N/A
	5/29/2019	N/A	N/A	< 0.0005	N/A	N/A
	8/1/2019	N/A	N/A	N/A	0.00125*	N/A
	9/19/2019	< 0.0005	< 0.0005	< 0.0005	N/A	N/A
	9/19/2019	< 0.0005	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 0.0005	N/A
	1/23/2020	N/A	N/A	N/A	< 0.0005	N/A
	3/11/2020	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	3/11/2020	N/A	< 0.0005	N/A	N/A	N/A

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Total Metals Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Lead, mg/L (CAS NO - 7439-92-1)	8/19/2020	< 0.0005	< 0.0005	< 0.0005	< 0.0005	N/A
	8/19/2020	N/A	N/A	N/A	< 0.0005	N/A
	3/23/2021	0.000345*	< 0.0005	< 0.0005	< 0.0005	**0.00168**
	3/23/2021	0.000322*	N/A	N/A	N/A	N/A
	9/16/2021	< 0.0005	< 0.0005	< 0.0005	< 0.0005	N/A
	9/16/2021	N/A	0.000228*	N/A	N/A	N/A
	5/10/2022	< 0.0005	< 0.0005	< 0.002	< 0.0005	N/A
	5/10/2022	N/A	N/A	< 0.0005	N/A	N/A
	9/28/2022	0.000423*	< 0.0005	< 0.0005	< 0.0005	N/A
	9/28/2022	N/A	N/A	N/A	< 0.0005	N/A
	3/7/2023	< 0.0005	< 0.0005	< 0.0005	**0.00102**	N/A
	3/7/2023	N/A	N/A	N/A	< 0.0005	N/A
	9/26/2023	< 0.0005	< 0.0005	< 0.0005	< 0.0005	N/A
	9/26/2023	< 0.0005	N/A	N/A	N/A	N/A
	5/29/2024	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	5/29/2024	N/A	< 0.0005	N/A	N/A	N/A
	10/23/2024	< 0.0005	< 0.0005	0.00264	< 0.0005	N/A
	10/23/2024	N/A	< 0.0005	N/A	N/A	N/A
Mercury, mg/L (CAS NO - 7439-97-6)	10/12/2015	N/A	N/A	< 0.0002	N/A	N/A
	6/21/2016	< 0.0002	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 0.0002	N/A	N/A
	3/21/2017	< 0.0002	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 0.0002	N/A	N/A
	5/10/2022	< 0.0002	N/A	N/A	N/A	N/A
Nickel, mg/L (CAS NO - 7440-02-0)	2/21/2008	< 0.05	N/A	N/A	N/A	N/A
	4/17/2008	< 0.05	< 0.05	N/A	N/A	N/A
	6/19/2008	< 0.05	< 0.05	N/A	N/A	N/A
	8/7/2008	< 0.05	< 0.05	N/A	N/A	N/A
	10/1/2008	< 0.05	< 0.05	N/A	N/A	N/A
	12/2/2008	< 0.05	< 0.05	N/A	N/A	N/A
	4/15/2009	< 0.05	< 0.05	N/A	N/A	N/A
	10/19/2009	< 0.05	< 0.05	< 0.05	N/A	N/A
	5/20/2010	< 0.001	< 0.001	< 0.001	N/A	N/A
	10/1/2010	0.006	< 0.001	< 0.001	N/A	N/A
	4/29/2011	0.006	0.007	**0.046**	N/A	N/A
	9/28/2011	0.0149	0.0147	0.046	N/A	N/A
	4/26/2012	0.0118	0.013	**0.054**	N/A	N/A
	10/24/2012	0.0097	0.0116	**0.227**	N/A	N/A
	5/7/2013	0.0122	0.0068	**0.158**	N/A	N/A
	10/18/2013	0.0049	< 0.004	**0.0733**	N/A	N/A
	3/25/2014	0.005	< 0.004	**0.16**	N/A	N/A
	9/30/2014	0.0042	< 0.004	**0.13**	N/A	N/A
	4/15/2015	0.00348*	N/A	**0.114**	N/A	0.00157*
	10/12/2015	**0.00577**	N/A	**0.0631**	N/A	**0.0176**
	10/12/2015	**0.00545**	N/A	N/A	N/A	N/A
	4/12/2016	**0.0111**	N/A	**0.0628**	N/A	**0.0276**
	4/12/2016	**0.00963**	N/A	N/A	N/A	N/A
	6/21/2016	**0.00409**	N/A	N/A	N/A	N/A
	9/23/2016	0.00425*	N/A	**0.00799**	N/A	N/A
	9/23/2016	0.00448*	N/A	N/A	N/A	N/A
	3/21/2017	**0.00679**	< 0.005	**0.00536**	N/A	N/A
	3/21/2017	N/A	N/A	0.0045*	N/A	N/A
	7/24/2017	**0.0125**	< 0.005	**0.0157**	N/A	N/A
	7/24/2017	**0.0126**	N/A	N/A	N/A	N/A

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Total Metals Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Nickel, mg/L (CAS NO - 7440-02-0)	5/15/2018	0.00696	< 0.005	0.011	N/A	N/A
	5/15/2018	0.00696	N/A	N/A	N/A	N/A
	8/22/2018	0.0126	< 0.005	0.0208	N/A	N/A
	8/22/2018	0.0129	N/A	N/A	N/A	N/A
	5/29/2019	0.00638	< 0.002	0.033	0.0469	N/A
	5/29/2019	N/A	N/A	0.0325	N/A	N/A
	8/1/2019	N/A	N/A	N/A	0.024	N/A
	9/19/2019	0.00739	< 0.005	0.0333	N/A	N/A
	9/19/2019	0.00709	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	0.0244	N/A
	1/23/2020	N/A	N/A	N/A	0.0203	N/A
	3/11/2020	0.00812	< 0.005	0.0277	0.0205	0.0197
	3/11/2020	N/A	< 0.005	N/A	N/A	N/A
	8/19/2020	0.00851	< 0.005	0.0343	0.0243	N/A
	8/19/2020	N/A	N/A	N/A	0.0233	N/A
	3/23/2021	0.00894	< 0.005	0.0229	0.0167	0.0211
	3/23/2021	0.0087	N/A	N/A	N/A	N/A
	9/16/2021	0.00873	< 0.005	0.0249	0.016	N/A
	9/16/2021	N/A	< 0.005	N/A	N/A	N/A
	5/10/2022	0.0121	< 0.005	0.0332	0.0143	N/A
	5/10/2022	N/A	N/A	0.0196	N/A	N/A
	9/28/2022	0.00721	< 0.005	0.0334	0.0152	N/A
	9/28/2022	N/A	N/A	N/A	0.0144	N/A
	3/7/2023	0.00849	< 0.005	0.0305	0.0148	N/A
	3/7/2023	N/A	N/A	N/A	0.0141	N/A
	9/26/2023	0.00737	< 0.005	0.029	0.0146	N/A
	9/26/2023	0.00763	N/A	N/A	N/A	N/A
	5/29/2024	0.00716	< 0.005	0.0243	0.01	0.0216
	5/29/2024	N/A	< 0.005	N/A	N/A	N/A
	10/23/2024	0.00784	< 0.005	0.0606	0.0136	N/A
	10/23/2024	N/A	< 0.005	N/A	N/A	N/A
Selenium, mg/L (CAS NO - 7782-49-2)	2/21/2008	< 0.01	N/A	N/A	N/A	N/A
	4/17/2008	< 0.01	< 0.01	N/A	N/A	N/A
	6/19/2008	< 0.01	< 0.01	N/A	N/A	N/A
	8/7/2008	< 0.01	< 0.01	N/A	N/A	N/A
	10/1/2008	< 0.01	< 0.01	N/A	N/A	N/A
	12/2/2008	< 0.01	< 0.01	N/A	N/A	N/A
	4/15/2009	< 0.01	< 0.01	N/A	N/A	N/A
	10/19/2009	< 0.01	< 0.01	< 0.01	N/A	N/A
	5/20/2010	< 0.005	< 0.005	< 0.005	N/A	N/A
	10/1/2010	< 0.005	< 0.005	< 0.005	N/A	N/A
	4/29/2011	< 0.005	< 0.005	< 0.005	N/A	N/A
	9/28/2011	< 0.01	< 0.01	< 0.01	N/A	N/A
	4/26/2012	< 0.004	< 0.004	< 0.004	N/A	N/A
	10/24/2012	< 0.004	< 0.004	< 0.004	N/A	N/A
	5/7/2013	< 0.004	< 0.004	< 0.004	N/A	N/A
	10/18/2013	< 0.004	< 0.004	< 0.004	N/A	N/A
	3/25/2014	< 0.004	< 0.004	< 0.004	N/A	N/A
	9/30/2014	< 0.004	< 0.004	< 0.004	N/A	N/A
	4/15/2015	< 0.005	N/A	< 0.005	N/A	< 0.005
	10/12/2015	< 0.005	N/A	< 0.005	N/A	< 0.005
	10/12/2015	< 0.005	N/A	N/A	N/A	N/A
	4/12/2016	< 0.005	N/A	0.00288*	N/A	0.000661*
	4/12/2016	< 0.005	N/A	N/A	N/A	N/A

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Total Metals Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Selenium, mg/L (CAS NO - 7782-49-2)	6/21/2016	< 0.0025	N/A	N/A	N/A	N/A
	9/23/2016	< 0.005	N/A	< 0.005	N/A	N/A
	9/23/2016	< 0.005	N/A	N/A	N/A	N/A
	3/21/2017	< 0.005	< 0.005	< 0.005	N/A	N/A
	3/21/2017	N/A	N/A	< 0.005	N/A	N/A
	7/24/2017	< 0.005	< 0.005	< 0.005	N/A	N/A
	7/24/2017	< 0.005	N/A	N/A	N/A	N/A
	5/15/2018	< 0.005	< 0.005	< 0.005	N/A	N/A
	5/15/2018	< 0.005	N/A	N/A	N/A	N/A
	8/22/2018	< 0.005	< 0.005	< 0.005	N/A	N/A
	8/22/2018	< 0.005	N/A	N/A	N/A	N/A
	5/29/2019	< 0.0025	< 0.0025	< 0.0025	0.00227*	N/A
	5/29/2019	N/A	N/A	< 0.0025	N/A	N/A
	8/1/2019	N/A	N/A	N/A	0.00208*	N/A
	9/19/2019	< 0.005	< 0.005	< 0.005	N/A	N/A
	9/19/2019	< 0.005	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	**0.0114**	N/A
	1/23/2020	N/A	N/A	N/A	**0.00542**	N/A
	3/11/2020	< 0.005	< 0.005	< 0.005	0.00408*	< 0.005
	3/11/2020	N/A	< 0.005	N/A	N/A	N/A
	8/19/2020	< 0.005	< 0.005	< 0.005	**0.00744**	N/A
	8/19/2020	N/A	N/A	N/A	**0.0075**	N/A
	3/23/2021	< 0.005	< 0.005	< 0.005	0.00144*	0.00119*
	3/23/2021	< 0.005	N/A	N/A	N/A	N/A
	9/16/2021	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	9/16/2021	N/A	< 0.005	N/A	N/A	N/A
	5/10/2022	< 0.005	< 0.005	< 0.02	0.00112*	N/A
	5/10/2022	N/A	N/A	< 0.005	N/A	N/A
	9/28/2022	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	9/28/2022	N/A	N/A	N/A	< 0.005	N/A
	3/7/2023	< 0.005	< 0.005	< 0.005	0.00246*	N/A
	3/7/2023	N/A	N/A	N/A	< 0.005	N/A
	9/26/2023	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	9/26/2023	< 0.005	N/A	N/A	N/A	N/A
	5/29/2024	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	5/29/2024	N/A	< 0.005	N/A	N/A	N/A
	10/23/2024	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	10/23/2024	N/A	< 0.005	N/A	N/A	N/A
Silver, mg/L (CAS NO - 7440-22-4)	2/21/2008	< 0.01	N/A	N/A	N/A	N/A
	4/17/2008	< 0.01	< 0.01	N/A	N/A	N/A
	6/19/2008	< 0.01	< 0.01	N/A	N/A	N/A
	8/7/2008	< 0.01	< 0.01	N/A	N/A	N/A
	10/1/2008	< 0.01	< 0.01	N/A	N/A	N/A
	12/2/2008	< 0.01	< 0.01	N/A	N/A	N/A
	4/15/2009	< 0.01	< 0.01	N/A	N/A	N/A
	10/19/2009	< 0.01	< 0.01	< 0.01	N/A	N/A
	5/20/2010	< 0.001	< 0.001	< 0.001	N/A	N/A
	10/1/2010	< 0.001	< 0.001	< 0.001	N/A	N/A
	4/29/2011	< 0.001	< 0.001	< 0.001	N/A	N/A
	9/28/2011	0.0162	0.0161	0.0183	N/A	N/A
	4/26/2012	< 0.008	< 0.008	< 0.008	N/A	N/A
	10/24/2012	< 0.004	< 0.004	< 0.004	N/A	N/A
	5/7/2013	< 0.004	< 0.004	< 0.004	N/A	N/A
	10/18/2013	< 0.004	< 0.004	< 0.004	N/A	N/A

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Total Metals Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Silver, mg/L (CAS NO - 7440-22-4)	3/25/2014	< 0.004	< 0.004	< 0.004	N/A	N/A
	9/30/2014	< 0.004	< 0.004	< 0.004	N/A	N/A
	4/15/2015	< 0.001	N/A	< 0.001	N/A	< 0.001
	10/12/2015	< 0.001	N/A	< 0.001	N/A	< 0.001
	10/12/2015	< 0.001	N/A	N/A	N/A	N/A
	4/12/2016	< 0.001	N/A	< 0.001	N/A	< 0.001
	4/12/2016	< 0.001	N/A	N/A	N/A	N/A
	6/21/2016	< 0.0005	N/A	N/A	N/A	N/A
	9/23/2016	< 0.001	N/A	< 0.001	N/A	N/A
	9/23/2016	< 0.001	N/A	N/A	N/A	N/A
	3/21/2017	< 0.001	< 0.001	< 0.001	N/A	N/A
	3/21/2017	N/A	N/A	< 0.001	N/A	N/A
	7/24/2017	< 0.001	< 0.001	< 0.001	N/A	N/A
	7/24/2017	< 0.001	N/A	N/A	N/A	N/A
	5/15/2018	< 0.001	< 0.001	< 0.001	N/A	N/A
	5/15/2018	< 0.001	N/A	N/A	N/A	N/A
	8/22/2018	< 0.001	< 0.001	< 0.001	N/A	N/A
	8/22/2018	< 0.001	N/A	N/A	N/A	N/A
	5/29/2019	< 0.0005	< 0.0005	< 0.0005	< 0.0005	N/A
	5/29/2019	N/A	N/A	< 0.0005	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 0.0005	N/A
	9/19/2019	< 0.001	< 0.001	< 0.001	N/A	N/A
	9/19/2019	< 0.001	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 0.001	N/A
	1/23/2020	N/A	N/A	N/A	< 0.001	N/A
	3/11/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	3/11/2020	N/A	< 0.001	N/A	N/A	N/A
	8/19/2020	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	8/19/2020	N/A	N/A	N/A	< 0.001	N/A
	3/23/2021	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	3/23/2021	< 0.001	N/A	N/A	N/A	N/A
	9/16/2021	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	9/16/2021	N/A	< 0.001	N/A	N/A	N/A
	5/10/2022	< 0.001	< 0.001	< 0.004	< 0.001	N/A
	5/10/2022	N/A	N/A	< 0.001	N/A	N/A
	9/28/2022	0.000752*	< 0.001	< 0.001	< 0.001	N/A
	9/28/2022	N/A	N/A	N/A	< 0.001	N/A
	3/7/2023	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	3/7/2023	N/A	N/A	N/A	< 0.001	N/A
	9/26/2023	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	9/26/2023	< 0.001	N/A	N/A	N/A	N/A
	5/29/2024	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	5/29/2024	N/A	< 0.001	N/A	N/A	N/A
	10/23/2024	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	10/23/2024	N/A	< 0.001	N/A	N/A	N/A
Thallium, mg/L (CAS NO - 7440-28-0)	2/21/2008	< 0.001	N/A	N/A	N/A	N/A
	4/17/2008	< 0.001	< 0.001	N/A	N/A	N/A
	6/19/2008	< 0.001	< 0.001	N/A	N/A	N/A
	8/7/2008	< 0.001	< 0.001	N/A	N/A	N/A
	10/1/2008	< 0.001	< 0.001	N/A	N/A	N/A
	12/2/2008	< 0.001	< 0.001	N/A	N/A	N/A
	4/15/2009	< 0.001	< 0.001	N/A	N/A	N/A
	10/19/2009	< 0.001	< 0.001	< 0.001	N/A	N/A
	5/20/2010	< 0.00025	< 0.00025	< 0.00025	N/A	N/A

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Total Metals Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Thallium, mg/L (CAS NO - 7440-28-0)	10/1/2010	< 0.00025	< 0.00025	< 0.00025	N/A	N/A
	4/29/2011	< 0.00025	< 0.00025	< 0.00025	N/A	N/A
	9/28/2011	0.045	0.0308	< 0.01	N/A	N/A
	4/26/2012	< 0.002	< 0.002	< 0.002	N/A	N/A
	10/24/2012	< 0.002	< 0.002	< 0.002	N/A	N/A
	5/7/2013	< 0.002	< 0.002	< 0.002	N/A	N/A
	10/18/2013	< 0.004	< 0.004	< 0.004	N/A	N/A
	3/25/2014	< 0.004	< 0.004	< 0.004	N/A	N/A
	9/30/2014	< 0.004	< 0.004	< 0.004	N/A	N/A
	4/15/2015	< 0.001	N/A	0.000045*	N/A	< 0.001
	10/12/2015	< 0.001	N/A	0.000123*	N/A	< 0.001
	10/12/2015	< 0.001	N/A	N/A	N/A	N/A
	4/12/2016	< 0.001	N/A	0.000139*	N/A	< 0.001
	4/12/2016	< 0.001	N/A	N/A	N/A	N/A
	6/21/2016	< 0.002	N/A	N/A	N/A	N/A
	9/23/2016	0.000028*	N/A	< 0.001	N/A	N/A
	9/23/2016	0.00003*	N/A	N/A	N/A	N/A
	3/21/2017	< 0.001	< 0.001	< 0.001	N/A	N/A
	3/21/2017	N/A	N/A	< 0.001	N/A	N/A
	7/24/2017	< 0.001	< 0.001	< 0.001	N/A	N/A
	7/24/2017	< 0.001	N/A	N/A	N/A	N/A
	5/15/2018	< 0.001	< 0.001	< 0.001	N/A	N/A
	5/15/2018	< 0.001	N/A	N/A	N/A	N/A
	8/22/2018	< 0.001	< 0.001	< 0.001	N/A	N/A
	8/22/2018	< 0.001	N/A	N/A	N/A	N/A
	5/29/2019	< 0.002	< 0.002	< 0.002	< 0.002	N/A
	5/29/2019	N/A	N/A	< 0.002	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 0.01	N/A
	9/19/2019	< 0.001	< 0.001	< 0.001	N/A	N/A
	9/19/2019	< 0.001	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 0.001	N/A
	1/23/2020	N/A	N/A	N/A	< 0.001	N/A
	3/11/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	3/11/2020	N/A	< 0.001	N/A	N/A	N/A
	8/19/2020	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	8/19/2020	N/A	N/A	N/A	< 0.001	N/A
	3/23/2021	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	3/23/2021	< 0.001	N/A	N/A	N/A	N/A
	9/16/2021	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	9/16/2021	N/A	< 0.001	N/A	N/A	N/A
	5/10/2022	< 0.001	< 0.001	< 0.004	< 0.001	N/A
	5/10/2022	N/A	N/A	< 0.001	N/A	N/A
	9/28/2022	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	9/28/2022	N/A	N/A	N/A	< 0.001	N/A
	3/7/2023	< 0.001	< 0.001	< 0.001	0.000837*	N/A
	3/7/2023	N/A	N/A	N/A	< 0.001	N/A
	9/26/2023	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	9/26/2023	< 0.001	N/A	N/A	N/A	N/A
	5/29/2024	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	5/29/2024	N/A	< 0.001	N/A	N/A	N/A
	10/23/2024	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	10/23/2024	N/A	< 0.001	N/A	N/A	N/A
Tin, mg/L (CAS NO - 7440-31-5)	10/12/2015	N/A	N/A	< 0.005	N/A	N/A
	6/21/2016	< 0.005	N/A	N/A	N/A	N/A

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Total Metals Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Tin, mg/L (CAS NO - 7440-31-5)	9/23/2016	N/A	N/A	< 0.005	N/A	N/A
	3/21/2017	< 0.005	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 0.005	N/A	N/A
	5/10/2022	< 0.005	N/A	N/A	N/A	N/A
Vanadium, mg/L (CAS NO - 7440-62-2)	2/21/2008	< 0.05	N/A	N/A	N/A	N/A
	4/17/2008	< 0.05	< 0.05	N/A	N/A	N/A
	6/19/2008	< 0.05	< 0.05	N/A	N/A	N/A
	8/7/2008	< 0.05	< 0.05	N/A	N/A	N/A
	10/1/2008	< 0.05	< 0.05	N/A	N/A	N/A
	12/2/2008	< 0.05	< 0.05	N/A	N/A	N/A
	4/15/2009	< 0.05	< 0.05	N/A	N/A	N/A
	10/19/2009	< 0.05	< 0.05	< 0.05	N/A	N/A
	5/20/2010	< 0.02	< 0.02	< 0.02	N/A	N/A
	10/1/2010	< 0.02	< 0.02	< 0.02	N/A	N/A
	4/29/2011	< 0.02	< 0.02	< 0.02	N/A	N/A
	9/28/2011	< 0.002	< 0.002	< 0.002	N/A	N/A
	4/26/2012	< 0.02	< 0.02	< 0.02	N/A	N/A
	10/24/2012	< 0.02	< 0.02	< 0.02	N/A	N/A
	5/7/2013	< 0.02	< 0.02	< 0.02	N/A	N/A
	10/18/2013	< 0.02	< 0.02	< 0.02	N/A	N/A
	3/25/2014	< 0.02	< 0.02	< 0.02	N/A	N/A
	9/30/2014	< 0.02	< 0.02	< 0.02	N/A	N/A
	4/15/2015	< 0.005	N/A	0.00427*	N/A	0.000575*
	10/12/2015	< 0.005	N/A	0.00392*	N/A	0.00267*
	10/12/2015	< 0.005	N/A	N/A	N/A	N/A
	4/12/2016	< 0.005	N/A	0.00557	N/A	0.00303*
	4/12/2016	< 0.005	N/A	N/A	N/A	N/A
	6/21/2016	< 0.005	N/A	N/A	N/A	N/A
	9/23/2016	0.000298*	N/A	0.00109*	N/A	N/A
	9/23/2016	0.000297*	N/A	N/A	N/A	N/A
	3/21/2017	< 0.005	< 0.005	< 0.005	N/A	N/A
	3/21/2017	N/A	N/A	< 0.005	N/A	N/A
	7/24/2017	< 0.005	< 0.005	< 0.005	N/A	N/A
	7/24/2017	< 0.005	N/A	N/A	N/A	N/A
	5/15/2018	< 0.005	0.000674*	< 0.005	N/A	N/A
	5/15/2018	< 0.005	N/A	N/A	N/A	N/A
	8/22/2018	< 0.005	0.000912*	< 0.005	N/A	N/A
	8/22/2018	< 0.005	N/A	N/A	N/A	N/A
	5/29/2019	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	5/29/2019	N/A	N/A	< 0.005	N/A	N/A
	8/1/2019	N/A	N/A	N/A	0.0169*	N/A
	9/19/2019	< 0.005	0.000927*	< 0.005	N/A	N/A
	9/19/2019	< 0.005	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	0.00153*	N/A
	1/23/2020	N/A	N/A	N/A	0.00138*	N/A
	3/11/2020	< 0.005	0.000978*	< 0.005	0.00123*	< 0.005
	3/11/2020	N/A	0.000882*	N/A	N/A	N/A
	8/19/2020	< 0.005	0.00141*	0.00107*	0.00186*	N/A
	8/19/2020	N/A	N/A	N/A	0.00189*	N/A
	3/23/2021	< 0.005	< 0.005	< 0.005	0.00111*	0.00195*
	3/23/2021	< 0.005	N/A	N/A	N/A	N/A
	9/16/2021	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	9/16/2021	N/A	< 0.005	N/A	N/A	N/A

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Total Metals Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Vanadium, mg/L (CAS NO - 7440-62-2)	5/10/2022	< 0.005	< 0.005	< 0.02	< 0.005	N/A
	5/10/2022	N/A	N/A	< 0.005	N/A	N/A
	9/28/2022	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	9/28/2022	N/A	N/A	N/A	< 0.005	N/A
	3/7/2023	< 0.005	< 0.005	< 0.005	0.00124*	N/A
	3/7/2023	N/A	N/A	N/A	< 0.005	N/A
	9/26/2023	< 0.005	0.00151*	0.00134*	0.00136*	N/A
	9/26/2023	0.00112*	N/A	N/A	N/A	N/A
	5/29/2024	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	5/29/2024	N/A	< 0.005	N/A	N/A	N/A
	10/23/2024	< 0.005	< 0.005	0.00493*	< 0.005	N/A
	10/23/2024	N/A	< 0.005	N/A	N/A	N/A
Zinc, mg/L (CAS NO - 7440-66-6)	2/21/2008	< 0.02	N/A	N/A	N/A	N/A
	4/17/2008	< 0.02	0.03	N/A	N/A	N/A
	6/19/2008	0.05	< 0.02	N/A	N/A	N/A
	8/7/2008	< 0.02	< 0.02	N/A	N/A	N/A
	10/1/2008	< 0.02	< 0.02	N/A	N/A	N/A
	12/2/2008	< 0.02	< 0.02	N/A	N/A	N/A
	4/15/2009	0.05	< 0.02	N/A	N/A	N/A
	10/19/2009	0.03	< 0.02	**0.04**	N/A	N/A
	5/20/2010	< 0.02	< 0.02	< 0.02	N/A	N/A
	10/1/2010	< 0.02	< 0.02	< 0.02	N/A	N/A
	4/29/2011	< 0.02	< 0.02	< 0.02	N/A	N/A
	9/28/2011	0.037	0.019	0.017	N/A	N/A
	4/26/2012	0.0171	< 0.008	**0.0109**	N/A	N/A
	10/24/2012	< 0.02	< 0.02	< 0.02	N/A	N/A
	5/7/2013	< 0.008	< 0.008	< 0.008	N/A	N/A
	10/18/2013	< 0.02	< 0.02	< 0.02	N/A	N/A
	3/25/2014	0.0139	< 0.008	< 0.02	N/A	N/A
	9/30/2014	< 0.008	< 0.008	**0.0145**	N/A	N/A
	4/15/2015	< 0.01	N/A	< 0.01	N/A	< 0.01
	10/12/2015	< 0.01	N/A	0.00839*	N/A	< 0.01
	10/12/2015	< 0.01	N/A	N/A	N/A	N/A
	4/12/2016	< 0.01	N/A	0.0057*	N/A	0.00744*
	4/12/2016	< 0.01	N/A	N/A	N/A	N/A
	6/21/2016	< 0.02	N/A	N/A	N/A	N/A
	9/23/2016	< 0.01	N/A	**0.147**	N/A	N/A
	9/23/2016	< 0.01	N/A	N/A	N/A	N/A
	3/21/2017	< 0.02	< 0.02	< 0.02	N/A	N/A
	3/21/2017	N/A	N/A	< 0.02	N/A	N/A
	7/24/2017	< 0.02	< 0.02	< 0.02	N/A	N/A
	7/24/2017	< 0.02	N/A	N/A	N/A	N/A
	5/15/2018	< 0.02	< 0.02	< 0.02	N/A	N/A
	5/15/2018	< 0.02	N/A	N/A	N/A	N/A
	8/22/2018	< 0.02	< 0.02	< 0.02	N/A	N/A
	8/22/2018	< 0.02	N/A	N/A	N/A	N/A
	5/29/2019	0.00708*	< 0.02	0.00773*	0.0191*	N/A
	5/29/2019	N/A	N/A	< 0.02	N/A	N/A
	8/1/2019	N/A	N/A	N/A	0.0263	N/A
	9/19/2019	< 0.02	< 0.02	< 0.02	N/A	N/A
	9/19/2019	< 0.02	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	0.0117*	N/A
	1/23/2020	N/A	N/A	N/A	< 0.02	N/A

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Total Metals Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Zinc, mg/L (CAS NO - 7440-66-6)	3/11/2020	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	3/11/2020	N/A	< 0.02	N/A	N/A	N/A
	8/19/2020	< 0.02	< 0.02	< 0.02	0.0136*	N/A
	8/19/2020	N/A	N/A	N/A	0.0115*	N/A
	3/23/2021	< 0.02	< 0.02	< 0.02	< 0.02	0.0108*
	3/23/2021	< 0.02	N/A	N/A	N/A	N/A
	9/16/2021	< 0.02	< 0.02	< 0.02	< 0.02	N/A
	9/16/2021	N/A	< 0.02	N/A	N/A	N/A
	5/10/2022	< 0.02	< 0.02	< 0.08	< 0.02	N/A
	5/10/2022	N/A	N/A	< 0.02	N/A	N/A
	9/28/2022	< 0.02	< 0.02	< 0.02	< 0.02	N/A
	9/28/2022	N/A	N/A	N/A	< 0.02	N/A
	3/7/2023	< 0.02	< 0.02	< 0.02	0.0148*	N/A
	3/7/2023	N/A	N/A	N/A	< 0.02	N/A
	9/26/2023	< 0.02	< 0.02	< 0.02	0.00651*	N/A
	9/26/2023	< 0.02	N/A	N/A	N/A	N/A
	5/29/2024	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	5/29/2024	N/A	< 0.02	N/A	N/A	N/A
	10/23/2024	< 0.02	< 0.02	0.0306	< 0.02	N/A
	10/23/2024	N/A	< 0.02	N/A	N/A	N/A
Total Suspended Solids, mg/L (CAS NO - TSS)	9/30/2014	29	5	**10**	N/A	N/A
	4/15/2015	**8.4**	N/A	**6.8**	N/A	< 1.88
	7/28/2015	N/A	N/A	**133**	N/A	N/A
	10/12/2015	**4.13**	N/A	**11.8**	N/A	**89.7**
	10/12/2015	**4**	N/A	N/A	N/A	N/A
	3/2/2016	N/A	N/A	**3.87**	N/A	N/A
	4/12/2016	**2.75**	N/A	**3.75**	N/A	**162**
	4/12/2016	**6.87**	N/A	N/A	N/A	N/A
	6/21/2016	1*	N/A	1.75*	N/A	N/A
	9/23/2016	**11.5**	N/A	**6.6**	N/A	N/A
	9/23/2016	**45**	N/A	N/A	N/A	N/A
	12/12/2016	N/A	N/A	**1.88**	N/A	N/A
	3/21/2017	**18.2**	**11.6**	**19**	N/A	N/A
	3/21/2017	N/A	N/A	**10.9**	N/A	N/A
	7/24/2017	< 1.88	0.875*	**3.87**	N/A	N/A
	7/24/2017	1.13*	N/A	N/A	N/A	N/A
	5/15/2018	< 1.88	< 1.88	1.25*	N/A	N/A
	5/15/2018	< 1.88	N/A	N/A	N/A	N/A
	8/22/2018	**2.75**	**1.88**	1.5*	N/A	N/A
	8/22/2018	**4.75**	N/A	N/A	N/A	N/A
	5/29/2019	0.75*	< 1.88	< 1.88	**8.38**	N/A
	5/29/2019	N/A	N/A	1*	N/A	N/A
	8/1/2019	N/A	N/A	N/A	11.3	N/A
	9/19/2019	< 1.88	< 1.88	1.13*	N/A	N/A
	9/19/2019	< 1.88	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	**45.5**	N/A
	1/23/2020	N/A	N/A	N/A	**2.38**	N/A
	3/11/2020	**8.25**	**2**	**3.63**	0.875*	**4.67**
	3/11/2020	N/A	1*	N/A	N/A	N/A
	8/19/2020	1.63*	< 1.88	**2.63**	**1.88**	N/A
	8/19/2020	N/A	N/A	N/A	1.63*	N/A
	3/23/2021	**8.75**	**4**	**3.87**	**2.38**	**8.8**
	3/23/2021	**10.1**	N/A	N/A	N/A	N/A

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Total Metals Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Total Suspended Solids, mg/L (CAS NO - TSS)	9/16/2021	**3.13**	**2.38**	**1.88**	0.875*	N/A
	9/16/2021	N/A	**1.88**	N/A	N/A	N/A
	5/10/2022	< 1.88	1.38*	1.5*	1.75*	N/A
	5/10/2022	N/A	N/A	< 1.88	N/A	N/A
	9/28/2022	**2.25**	**4.5**	**4**	1.75*	N/A
	9/28/2022	N/A	N/A	N/A	**2.25**	N/A
	3/7/2023	0.75*	**5.25**	1.25*	1.13*	N/A
	3/7/2023	N/A	N/A	N/A	1.13*	N/A
	9/26/2023	**3.75**	1.13*	**3.87**	**3.63**	N/A
	9/26/2023	< 1.88	N/A	N/A	N/A	N/A
	3/4/2024	N/A	N/A	N/A	< 1.88	N/A
	5/29/2024	< 1.88	< 1.88	**5.63**	< 1.88	**11**
	5/29/2024	N/A	< 1.88	N/A	N/A	N/A
	10/23/2024	**5.75**	**1.88**	252	**2.25**	N/A
	10/23/2024	N/A	< 1.88	N/A	N/A	N/A

Note: * indicates 'J flag'. Detection is below the reporting limit, but greater than the MDL (Method Detection Limit). The concentration is estimated.

Denotes Detection.
Denotes Confirmed Outlier. Statistically Excluded.

Sampling performed over multiple dates is recorded on the first date sampled. Refer to field forms for exact sample date.

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
1,1,1,2-Tetrachloroethane, ug/L (CAS NO - 630-20-6)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 1	N/A	< 1	N/A	< 1
	10/12/2015	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	N/A	N/A	N/A
	6/21/2016	< 1	N/A	N/A	N/A	N/A
	9/23/2016	< 1	N/A	< 1	N/A	N/A
	9/23/2016	< 1	N/A	N/A	N/A	N/A
	3/21/2017	< 1	< 1	< 1	N/A	N/A
	3/21/2017	N/A	N/A	< 1	N/A	N/A
	7/24/2017	< 1	< 1	< 1	N/A	N/A
	7/24/2017	< 1	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	N/A	N/A
	5/15/2018	< 1	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	N/A	N/A
	8/22/2018	< 1	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	N/A
	5/29/2019	N/A	N/A	< 1	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 1	N/A
	9/19/2019	< 1	< 1	< 1	N/A	N/A
	9/19/2019	< 1	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 1	N/A
	1/23/2020	N/A	N/A	N/A	< 1	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1
	3/11/2020	N/A	< 1	N/A	N/A	N/A
	8/19/2020	< 1	< 1	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1
	3/23/2021	< 1	N/A	N/A	N/A	N/A
	9/16/2021	< 1	< 1	< 1	< 1	N/A
	9/16/2021	N/A	< 1	N/A	N/A	N/A
	5/10/2022	< 1	< 1	< 1	< 1	N/A
	5/10/2022	N/A	N/A	< 1	N/A	N/A
	9/28/2022	< 1	< 1	< 1	< 1	N/A
	9/28/2022	N/A	N/A	N/A	< 1	N/A
	3/7/2023	< 1	< 1	< 1	< 1	N/A
	3/7/2023	N/A	N/A	N/A	< 1	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
1,1,1,2-Tetrachloroethane, ug/L (CAS NO - 630-20-6)	9/26/2023	< 1	< 1	< 1	< 1	N/A
	9/26/2023	< 1	N/A	N/A	N/A	N/A
	5/29/2024	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	< 1	N/A	N/A	N/A
	10/23/2024	< 1	< 1	< 1	< 1	N/A
	10/23/2024	N/A	< 1	N/A	N/A	N/A
1,1,1-Trichloroethane, ug/L (CAS NO - 71-55-6)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 1	N/A	< 1	N/A	< 1
	10/12/2015	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	N/A	N/A	N/A
	6/21/2016	< 1	N/A	N/A	N/A	N/A
	9/23/2016	< 1	N/A	< 1	N/A	N/A
	9/23/2016	< 1	N/A	N/A	N/A	N/A
	3/21/2017	< 1	< 1	< 1	N/A	N/A
	3/21/2017	N/A	N/A	< 1	N/A	N/A
	7/24/2017	< 1	< 1	< 1	N/A	N/A
	7/24/2017	< 1	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	N/A	N/A
	5/15/2018	< 1	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	N/A	N/A
	8/22/2018	< 1	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	N/A
	5/29/2019	N/A	N/A	< 1	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 1	N/A
	9/19/2019	< 1	< 1	< 1	N/A	N/A
	9/19/2019	< 1	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 1	N/A
	1/23/2020	N/A	N/A	N/A	< 1	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1
	3/11/2020	N/A	< 1	N/A	N/A	N/A
	8/19/2020	< 1	< 1	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1
	3/23/2021	< 1	N/A	N/A	N/A	N/A
	9/16/2021	< 1	< 1	< 1	< 1	N/A
	9/16/2021	N/A	< 1	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
1,1,1-Trichloroethane, ug/L (CAS NO - 71-55-6)	5/10/2022	< 1	< 1	< 1	< 1	N/A
	5/10/2022	N/A	N/A	< 1	N/A	N/A
	9/28/2022	< 1	< 1	< 1	< 1	N/A
	9/28/2022	N/A	N/A	N/A	< 1	N/A
	3/7/2023	< 1	< 1	< 1	< 1	N/A
	3/7/2023	N/A	N/A	N/A	< 1	N/A
	9/26/2023	< 1	< 1	< 1	< 1	N/A
	9/26/2023	< 1	N/A	N/A	N/A	N/A
	5/29/2024	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	< 1	N/A	N/A	N/A
	10/23/2024	< 1	< 1	< 1	< 1	N/A
	10/23/2024	N/A	< 1	N/A	N/A	N/A
1,1,2,2-Tetrachloroethane, ug/L (CAS NO - 79-34-5)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 1	N/A	< 1	N/A	< 1
	10/12/2015	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	N/A	N/A	N/A
	6/21/2016	< 1	N/A	N/A	N/A	N/A
	9/23/2016	< 1	N/A	< 1	N/A	N/A
	9/23/2016	< 1	N/A	N/A	N/A	N/A
	3/21/2017	< 1	< 1	< 1	N/A	N/A
	3/21/2017	N/A	N/A	< 1	N/A	N/A
	7/24/2017	< 1	< 1	< 1	N/A	N/A
	7/24/2017	< 1	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	N/A	N/A
	5/15/2018	< 1	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	N/A	N/A
	8/22/2018	< 1	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	N/A
	5/29/2019	N/A	N/A	< 1	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 1	N/A
	9/19/2019	< 1	< 1	< 1	N/A	N/A
	9/19/2019	< 1	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 1	N/A
	1/23/2020	N/A	N/A	N/A	< 1	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1
	3/11/2020	N/A	< 1	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
1,1,2,2-Tetrachloroethane, ug/L (CAS NO - 79-34-5)	8/19/2020	< 1	< 1	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1
	3/23/2021	< 1	N/A	N/A	N/A	N/A
	9/16/2021	< 1	< 1	< 1	< 1	N/A
	9/16/2021	N/A	< 1	N/A	N/A	N/A
	5/10/2022	< 1	< 1	< 1	< 1	N/A
	5/10/2022	N/A	N/A	< 1	N/A	N/A
	9/28/2022	< 1	< 1	< 1	< 1	N/A
	9/28/2022	N/A	N/A	N/A	< 1	N/A
	3/7/2023	< 1	< 1	< 1	< 1	N/A
	3/7/2023	N/A	N/A	N/A	< 1	N/A
	9/26/2023	< 1	< 1	< 1	< 1	N/A
	9/26/2023	< 1	N/A	N/A	N/A	N/A
	5/29/2024	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	< 1	N/A	N/A	N/A
	10/23/2024	< 1	< 1	< 1	< 1	N/A
	10/23/2024	N/A	< 1	N/A	N/A	N/A
1,1,2-Trichloroethane, ug/L (CAS NO - 79-00-5)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 1	N/A	< 1	N/A	< 1
	10/12/2015	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	N/A	N/A	N/A
	6/21/2016	< 1	N/A	N/A	N/A	N/A
	9/23/2016	< 1	N/A	< 1	N/A	N/A
	9/23/2016	< 1	N/A	N/A	N/A	N/A
	3/21/2017	< 1	< 1	< 1	N/A	N/A
	3/21/2017	N/A	N/A	< 1	N/A	N/A
	7/24/2017	< 1	< 1	< 1	N/A	N/A
	7/24/2017	< 1	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	N/A	N/A
	5/15/2018	< 1	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	N/A	N/A
	8/22/2018	< 1	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	N/A
	5/29/2019	N/A	N/A	< 1	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 1	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
1,1,2-Trichloroethane, ug/L (CAS NO - 79-00-5)	9/19/2019	< 1	< 1	< 1	N/A	N/A
	9/19/2019	< 1	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 1	N/A
	1/23/2020	N/A	N/A	N/A	< 1	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1
	3/11/2020	N/A	< 1	N/A	N/A	N/A
	8/19/2020	< 1	< 1	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1
	3/23/2021	< 1	N/A	N/A	N/A	N/A
	9/16/2021	< 1	< 1	< 1	< 1	N/A
	9/16/2021	N/A	< 1	N/A	N/A	N/A
	5/10/2022	< 1	< 1	< 1	< 1	N/A
	5/10/2022	N/A	N/A	< 1	N/A	N/A
	9/28/2022	< 1	< 1	< 1	< 1	N/A
	9/28/2022	N/A	N/A	N/A	< 1	N/A
	3/7/2023	< 1	< 1	< 1	< 1	N/A
	3/7/2023	N/A	N/A	N/A	< 1	N/A
	9/26/2023	< 1	< 1	< 1	< 1	N/A
	9/26/2023	< 1	N/A	N/A	N/A	N/A
	5/29/2024	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	< 1	N/A	N/A	N/A
	10/23/2024	< 1	< 1	< 1	< 1	N/A
	10/23/2024	N/A	< 1	N/A	N/A	N/A
1,1-Dichloroethane, ug/L (CAS NO - 75-34-3)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 1	N/A	< 1	N/A	< 1
	10/12/2015	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	N/A	N/A	N/A
	6/21/2016	< 1	N/A	N/A	N/A	N/A
	9/23/2016	< 1	N/A	< 1	N/A	N/A
	9/23/2016	< 1	N/A	N/A	N/A	N/A
	3/21/2017	< 1	< 1	< 1	N/A	N/A
	3/21/2017	N/A	N/A	< 1	N/A	N/A
	7/24/2017	< 1	< 1	< 1	N/A	N/A
	7/24/2017	< 1	N/A	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
1,1-Dichloroethane, ug/L (CAS NO - 75-34-3)	5/15/2018	< 1	< 1	< 1	N/A	N/A
	5/15/2018	< 1	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	N/A	N/A
	8/22/2018	< 1	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	N/A
	5/29/2019	N/A	N/A	< 1	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 1	N/A
	9/19/2019	< 1	< 1	< 1	N/A	N/A
	9/19/2019	< 1	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 1	N/A
	1/23/2020	N/A	N/A	N/A	< 1	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1
	3/11/2020	N/A	< 1	N/A	N/A	N/A
	8/19/2020	< 1	< 1	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1
	3/23/2021	< 1	N/A	N/A	N/A	N/A
	9/16/2021	< 1	< 1	< 1	< 1	N/A
	9/16/2021	N/A	< 1	N/A	N/A	N/A
	5/10/2022	< 1	< 1	< 1	< 1	N/A
	5/10/2022	N/A	N/A	< 1	N/A	N/A
	9/28/2022	< 1	< 1	< 1	< 1	N/A
	9/28/2022	N/A	N/A	N/A	< 1	N/A
	3/7/2023	< 1	< 1	< 1	< 1	N/A
	3/7/2023	N/A	N/A	N/A	< 1	N/A
	9/26/2023	< 1	< 1	< 1	< 1	N/A
	9/26/2023	< 1	N/A	N/A	N/A	N/A
	5/29/2024	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	< 1	N/A	N/A	N/A
	10/23/2024	< 1	< 1	< 1	< 1	N/A
	10/23/2024	N/A	< 1	N/A	N/A	N/A
1,1-Dichloroethene, ug/L (CAS NO - 75-35-4)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 2	N/A	< 2	N/A	< 2
	10/12/2015	< 2	N/A	< 2	N/A	< 2
	4/12/2016	< 2	N/A	< 2	N/A	< 2
	4/12/2016	< 2	N/A	N/A	N/A	N/A
	6/21/2016	< 2	N/A	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
1,1-Dichloroethene, ug/L (CAS NO - 75-35-4)	9/23/2016	< 2	N/A	< 2	N/A	N/A
	9/23/2016	< 2	N/A	N/A	N/A	N/A
	3/21/2017	< 2	< 2	< 2	N/A	N/A
	3/21/2017	N/A	N/A	< 2	N/A	N/A
	7/24/2017	< 2	< 2	< 2	N/A	N/A
	7/24/2017	< 2	N/A	N/A	N/A	N/A
	5/15/2018	< 2	< 2	< 2	N/A	N/A
	5/15/2018	< 2	N/A	N/A	N/A	N/A
	8/22/2018	< 2	< 2	< 2	N/A	N/A
	8/22/2018	< 2	N/A	N/A	N/A	N/A
	5/29/2019	< 2	< 2	< 2	< 2	N/A
	5/29/2019	N/A	N/A	< 2	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 2	N/A
	9/19/2019	< 2	< 2	< 2	N/A	N/A
	9/19/2019	< 2	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 2	N/A
	1/23/2020	N/A	N/A	N/A	< 2	N/A
	3/11/2020	< 2	< 2	< 2	< 2	< 2
	3/11/2020	N/A	< 2	N/A	N/A	N/A
	8/19/2020	< 2	< 2	< 2	< 2	N/A
	8/19/2020	N/A	N/A	N/A	< 2	N/A
	3/23/2021	< 2	< 2	< 2	< 2	< 2
	3/23/2021	< 2	N/A	N/A	N/A	N/A
	9/16/2021	< 2	< 2	< 2	< 2	N/A
	9/16/2021	N/A	< 2	N/A	N/A	N/A
	5/10/2022	< 2	< 2	< 2	< 2	N/A
	5/10/2022	N/A	N/A	< 2	N/A	N/A
	9/28/2022	< 2	< 2	< 2	< 2	N/A
	9/28/2022	N/A	N/A	N/A	< 2	N/A
	3/7/2023	< 2	< 2	< 2	< 2	N/A
	3/7/2023	N/A	N/A	N/A	< 2	N/A
	9/26/2023	< 2	< 2	< 2	< 2	N/A
	9/26/2023	< 2	N/A	N/A	N/A	N/A
	5/29/2024	< 2	< 2	< 2	< 2	< 2
	5/29/2024	N/A	< 2	N/A	N/A	N/A
	10/23/2024	< 2	< 2	< 2	< 2	N/A
	10/23/2024	N/A	< 2	N/A	N/A	N/A
1,2,3-Trichloropropane, ug/L (CAS NO - 96-18-4)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
1,2,3-Trichloropropane, ug/L (CAS NO - 96-18-4)	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 1	N/A	< 1	N/A	< 1
	10/12/2015	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	N/A	N/A	N/A
	6/21/2016	< 1	N/A	N/A	N/A	N/A
	9/23/2016	< 1	N/A	< 1	N/A	N/A
	9/23/2016	< 1	N/A	N/A	N/A	N/A
	3/21/2017	< 1	< 1	< 1	N/A	N/A
	3/21/2017	N/A	N/A	< 1	N/A	N/A
	7/24/2017	< 1	< 1	< 1	N/A	N/A
	7/24/2017	< 1	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	N/A	N/A
	5/15/2018	< 1	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	N/A	N/A
	8/22/2018	< 1	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	N/A
	5/29/2019	N/A	N/A	< 1	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 1	N/A
	9/19/2019	< 1	< 1	< 1	N/A	N/A
	9/19/2019	< 1	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 1	N/A
	1/23/2020	N/A	N/A	N/A	< 1	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1
	3/11/2020	N/A	< 1	N/A	N/A	N/A
	8/19/2020	< 1	< 1	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1
	3/23/2021	< 1	N/A	N/A	N/A	N/A
	9/16/2021	< 1	< 1	< 1	< 1	N/A
	9/16/2021	N/A	< 1	N/A	N/A	N/A
	5/10/2022	< 1	< 1	< 1	< 1	N/A
	5/10/2022	N/A	N/A	< 1	N/A	N/A
	9/28/2022	< 1	< 1	< 1	< 1	N/A
	9/28/2022	N/A	N/A	N/A	< 1	N/A
	3/7/2023	< 1	< 1	< 1	< 1	N/A
	3/7/2023	N/A	N/A	N/A	< 1	N/A
	9/26/2023	< 1	< 1	< 1	< 1	N/A
	9/26/2023	< 1	N/A	N/A	N/A	N/A
	5/29/2024	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	< 1	N/A	N/A	N/A
	10/23/2024	< 1	< 1	< 1	< 1	N/A
	10/23/2024	N/A	< 1	N/A	N/A	N/A
1,2-Dibromo-3-Chloropropane, ug/L (CAS NO - 96-12-8)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
1,2-Dibromo-3-Chloropropane, ug/L (CAS NO - 96-12-8)	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 0.5	N/A	< 0.5	N/A	< 0.5
	10/12/2015	< 0.5	N/A	< 0.5	N/A	< 0.5
	4/12/2016	< 0.5	N/A	< 0.5	N/A	< 0.5
	4/12/2016	< 0.5	N/A	N/A	N/A	N/A
	6/21/2016	< 0.5	N/A	N/A	N/A	N/A
	9/23/2016	< 0.5	N/A	< 0.5	N/A	N/A
	9/23/2016	< 0.5	N/A	N/A	N/A	N/A
	3/21/2017	< 0.5	< 0.5	< 0.5	N/A	N/A
	3/21/2017	N/A	N/A	< 0.5	N/A	N/A
	7/24/2017	< 0.5	< 0.5	< 0.5	N/A	N/A
	7/24/2017	< 0.5	N/A	N/A	N/A	N/A
	5/15/2018	< 0.5	< 0.5	< 0.5	N/A	N/A
	5/15/2018	< 0.5	N/A	N/A	N/A	N/A
	8/22/2018	< 0.5	< 0.5	< 0.5	N/A	N/A
	8/22/2018	< 0.5	N/A	N/A	N/A	N/A
	5/29/2019	< 1.2	< 1.2	< 1.2	< 1.2	N/A
	5/29/2019	N/A	N/A	< 1.2	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 1.2	N/A
	9/19/2019	< 1.2	< 1.2	< 1.2	N/A	N/A
	9/19/2019	< 1.2	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 1.2	N/A
	1/23/2020	N/A	N/A	N/A	< 5	N/A
	3/11/2020	< 5	< 5	< 5	< 5	< 5
	3/11/2020	N/A	< 5	N/A	N/A	N/A
	8/19/2020	< 5	< 5	< 5	< 5	N/A
	8/19/2020	N/A	N/A	N/A	< 5	N/A
	3/23/2021	< 5	< 5	< 5	< 5	< 5
	3/23/2021	< 5	N/A	N/A	N/A	N/A
	9/16/2021	< 5	< 5	< 5	< 5	N/A
	9/16/2021	N/A	< 5	N/A	N/A	N/A
	5/10/2022	< 5	< 5	< 5	< 5	N/A
	5/10/2022	N/A	N/A	< 5	N/A	N/A
	9/28/2022	< 5	< 5	< 5	< 5	N/A
	9/28/2022	N/A	N/A	N/A	< 5	N/A
	3/7/2023	< 5	< 5	< 5	< 5	N/A
	3/7/2023	N/A	N/A	N/A	< 5	N/A
	9/26/2023	< 5	< 5	< 5	< 5	N/A
	9/26/2023	< 5	N/A	N/A	N/A	N/A
	5/29/2024	< 5	< 5	< 5	< 5	< 5
	5/29/2024	N/A	< 5	N/A	N/A	N/A
	10/23/2024	< 5	< 5	< 5	< 5	N/A
	10/23/2024	N/A	< 5	N/A	N/A	N/A
1,2-Dibromoethane [EDB], ug/L (CAS NO - 106-93-4)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
1,2-Dibromoethane [EDB], ug/L (CAS NO - 106-93-4)	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 0.13	N/A	< 0.13	N/A	< 0.13
	10/12/2015	< 0.13	N/A	< 0.13	N/A	< 0.13
	4/12/2016	< 0.13	N/A	< 0.13	N/A	< 0.13
	4/12/2016	< 0.13	N/A	N/A	N/A	N/A
	6/21/2016	< 0.13	N/A	N/A	N/A	N/A
	9/23/2016	< 0.13	N/A	< 0.13	N/A	N/A
	9/23/2016	< 0.13	N/A	N/A	N/A	N/A
	3/21/2017	< 0.13	< 0.13	< 0.13	N/A	N/A
	3/21/2017	N/A	N/A	< 0.13	N/A	N/A
	7/24/2017	< 0.13	< 0.13	< 0.13	N/A	N/A
	7/24/2017	< 0.13	N/A	N/A	N/A	N/A
	5/15/2018	< 0.13	< 0.13	< 0.13	N/A	N/A
	5/15/2018	< 0.13	N/A	N/A	N/A	N/A
	8/22/2018	< 0.13	< 0.13	< 0.13	N/A	N/A
	8/22/2018	< 0.13	N/A	N/A	N/A	N/A
	5/29/2019	< 0.34	< 0.34	< 0.34	< 0.34	N/A
	5/29/2019	N/A	N/A	< 0.34	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 0.34	N/A
	9/19/2019	< 0.34	< 0.34	< 0.34	N/A	N/A
	9/19/2019	< 0.34	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 0.34	N/A
	1/23/2020	N/A	N/A	N/A	< 1	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1
	3/11/2020	N/A	< 1	N/A	N/A	N/A
	8/19/2020	< 1	< 1	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1
	3/23/2021	< 1	N/A	N/A	N/A	N/A
	9/16/2021	< 1	< 1	< 1	< 1	N/A
	9/16/2021	N/A	< 1	N/A	N/A	N/A
	5/10/2022	< 1	< 1	< 1	< 1	N/A
	5/10/2022	N/A	N/A	< 1	N/A	N/A
	9/28/2022	< 1	< 1	< 1	< 1	N/A
	9/28/2022	N/A	N/A	N/A	< 1	N/A
	3/7/2023	< 1	< 1	< 1	< 1	N/A
	3/7/2023	N/A	N/A	N/A	< 1	N/A
	9/26/2023	< 1	< 1	< 1	< 1	N/A
	9/26/2023	< 1	N/A	N/A	N/A	N/A
	5/29/2024	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	< 1	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
1,2-Dibromoethane [EDB], ug/L (CAS NO - 106-93-4)	10/23/2024	< 1	< 1	< 1	< 1	N/A
	10/23/2024	N/A	< 1	N/A	N/A	N/A
1,2-Dichlorobenzene, ug/L (CAS NO - 95-50-1)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 1	N/A	< 1	N/A	< 1
	10/12/2015	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	N/A	N/A	N/A
	6/21/2016	< 1	N/A	N/A	N/A	N/A
	9/23/2016	< 1	N/A	< 1	N/A	N/A
	9/23/2016	< 1	N/A	N/A	N/A	N/A
	3/21/2017	< 1	< 1	< 1	N/A	N/A
	3/21/2017	N/A	N/A	< 1	N/A	N/A
	7/24/2017	< 1	< 1	< 1	N/A	N/A
	7/24/2017	< 1	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	N/A	N/A
	5/15/2018	< 1	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	N/A	N/A
	8/22/2018	< 1	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	N/A
	5/29/2019	N/A	N/A	< 1	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 1	N/A
	9/19/2019	< 1	< 1	< 1	N/A	N/A
	9/19/2019	< 1	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 1	N/A
	1/23/2020	N/A	N/A	N/A	< 1	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1
	3/11/2020	N/A	< 1	N/A	N/A	N/A
	8/19/2020	< 1	< 1	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1
	3/23/2021	< 1	N/A	N/A	N/A	N/A
	9/16/2021	< 1	< 1	< 1	< 1	N/A
	9/16/2021	N/A	< 1	N/A	N/A	N/A
	5/10/2022	< 1	< 1	< 1	< 1	N/A
	5/10/2022	N/A	N/A	< 1	N/A	N/A
	9/28/2022	< 1	< 1	< 1	< 1	N/A
	9/28/2022	N/A	N/A	N/A	< 1	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
1,2-Dichlorobenzene, ug/L (CAS NO - 95-50-1)	3/7/2023	< 1	< 1	< 1	< 1	N/A
	3/7/2023	N/A	N/A	N/A	< 1	N/A
	9/26/2023	< 1	< 1	< 1	< 1	N/A
	9/26/2023	< 1	N/A	N/A	N/A	N/A
	5/29/2024	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	< 1	N/A	N/A	N/A
	10/23/2024	< 1	< 1	< 1	< 1	N/A
	10/23/2024	N/A	< 1	N/A	N/A	N/A
1,2-Dichloroethane, ug/L (CAS NO - 107-06-2)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 1	N/A	< 1	N/A	< 1
	10/12/2015	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	N/A	N/A	N/A
	6/21/2016	< 1	N/A	N/A	N/A	N/A
	9/23/2016	< 1	N/A	< 1	N/A	N/A
	9/23/2016	< 1	N/A	N/A	N/A	N/A
	3/21/2017	< 1	< 1	< 1	N/A	N/A
	3/21/2017	N/A	N/A	< 1	N/A	N/A
	7/24/2017	< 1	< 1	< 1	N/A	N/A
	7/24/2017	< 1	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	N/A	N/A
	5/15/2018	< 1	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	N/A	N/A
	8/22/2018	< 1	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	N/A
	5/29/2019	N/A	N/A	< 1	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 1	N/A
	9/19/2019	< 1	< 1	< 1	N/A	N/A
	9/19/2019	< 1	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 1	N/A
	1/23/2020	N/A	N/A	N/A	< 1	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1
	3/11/2020	N/A	< 1	N/A	N/A	N/A
	8/19/2020	< 1	< 1	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1
	3/23/2021	< 1	N/A	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
1,2-Dichloroethane, ug/L (CAS NO - 107-06-2)	9/16/2021	< 1	< 1	< 1	< 1	N/A
	9/16/2021	N/A	< 1	N/A	N/A	N/A
	5/10/2022	< 1	< 1	< 1	< 1	N/A
	5/10/2022	N/A	N/A	< 1	N/A	N/A
	9/28/2022	< 1	< 1	< 1	< 1	N/A
	9/28/2022	N/A	N/A	N/A	< 1	N/A
	3/7/2023	< 1	< 1	< 1	< 1	N/A
	3/7/2023	N/A	N/A	N/A	< 1	N/A
	9/26/2023	< 1	< 1	< 1	< 1	N/A
	9/26/2023	< 1	N/A	N/A	N/A	N/A
	5/29/2024	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	< 1	N/A	N/A	N/A
	10/23/2024	< 1	< 1	< 1	< 1	N/A
	10/23/2024	N/A	< 1	N/A	N/A	N/A
1,2-Dichloropropane, ug/L (CAS NO - 78-87-5)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 1	N/A	< 1	N/A	< 1
	10/12/2015	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	N/A	N/A	N/A
	6/21/2016	< 1	N/A	N/A	N/A	N/A
	9/23/2016	< 1	N/A	< 1	N/A	N/A
	9/23/2016	< 1	N/A	N/A	N/A	N/A
	3/21/2017	< 1	< 1	< 1	N/A	N/A
	3/21/2017	N/A	N/A	< 1	N/A	N/A
	7/24/2017	< 1	< 1	< 1	N/A	N/A
	7/24/2017	< 1	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	N/A	N/A
	5/15/2018	< 1	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	N/A	N/A
	8/22/2018	< 1	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	N/A
	5/29/2019	N/A	N/A	< 1	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 1	N/A
	9/19/2019	< 1	< 1	< 1	N/A	N/A
	9/19/2019	< 1	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 1	N/A
	1/23/2020	N/A	N/A	N/A	< 1	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
1,2-Dichloropropane, ug/L (CAS NO - 78-87-5)	3/11/2020	< 1	< 1	< 1	< 1	< 1
	3/11/2020	N/A	< 1	N/A	N/A	N/A
	8/19/2020	< 1	< 1	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1
	3/23/2021	< 1	N/A	N/A	N/A	N/A
	9/16/2021	< 1	< 1	< 1	< 1	N/A
	9/16/2021	N/A	< 1	N/A	N/A	N/A
	5/10/2022	< 1	< 1	< 1	< 1	N/A
	5/10/2022	N/A	N/A	< 1	N/A	N/A
	9/28/2022	< 1	< 1	< 1	< 1	N/A
	9/28/2022	N/A	N/A	N/A	< 1	N/A
	3/7/2023	< 1	< 1	< 1	< 1	N/A
	3/7/2023	N/A	N/A	N/A	< 1	N/A
	9/26/2023	< 1	< 1	< 1	< 1	N/A
	9/26/2023	< 1	N/A	N/A	N/A	N/A
	5/29/2024	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	< 1	N/A	N/A	N/A
	10/23/2024	< 1	< 1	< 1	< 1	N/A
	10/23/2024	N/A	< 1	N/A	N/A	N/A
1,4-Dichlorobenzene, ug/L (CAS NO - 106-46-7)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 1	N/A	< 1	N/A	< 1
	10/12/2015	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	N/A	N/A	N/A
	6/21/2016	< 1	N/A	N/A	N/A	N/A
	9/23/2016	< 1	N/A	< 1	N/A	N/A
	9/23/2016	< 1	N/A	N/A	N/A	N/A
	3/21/2017	< 1	< 1	< 1	N/A	N/A
	3/21/2017	N/A	N/A	< 1	N/A	N/A
	7/24/2017	< 1	< 1	< 1	N/A	N/A
	7/24/2017	< 1	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	N/A	N/A
	5/15/2018	< 1	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	N/A	N/A
	8/22/2018	< 1	N/A	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
1,4-Dichlorobenzene, ug/L (CAS NO - 106-46-7)	5/29/2019	< 1	< 1	< 1	< 1	N/A
	5/29/2019	N/A	N/A	< 1	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 1	N/A
	9/19/2019	< 1	< 1	< 1	N/A	N/A
	9/19/2019	< 1	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 1	N/A
	1/23/2020	N/A	N/A	N/A	< 1	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1
	3/11/2020	N/A	< 1	N/A	N/A	N/A
	8/19/2020	< 1	< 1	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1
	3/23/2021	< 1	N/A	N/A	N/A	N/A
	9/16/2021	< 1	< 1	< 1	< 1	N/A
	9/16/2021	N/A	< 1	N/A	N/A	N/A
	5/10/2022	< 1	< 1	< 1	< 1	N/A
	5/10/2022	N/A	N/A	< 1	N/A	N/A
	9/28/2022	< 1	< 1	< 1	< 1	N/A
	9/28/2022	N/A	N/A	N/A	< 1	N/A
	3/7/2023	< 1	< 1	< 1	< 1	N/A
	3/7/2023	N/A	N/A	N/A	< 1	N/A
	9/26/2023	< 1	< 1	< 1	< 1	N/A
	9/26/2023	< 1	N/A	N/A	N/A	N/A
	5/29/2024	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	< 1	N/A	N/A	N/A
	10/23/2024	< 1	< 1	< 1	< 1	N/A
	10/23/2024	N/A	< 1	N/A	N/A	N/A
2-Butanone, ug/L (CAS NO - 78-93-3)	2/21/2008	< 10	N/A	N/A	N/A	N/A
	4/17/2008	< 10	< 10	N/A	N/A	N/A
	6/19/2008	< 10	< 10	N/A	N/A	N/A
	8/7/2008	< 10	< 10	N/A	N/A	N/A
	10/1/2008	< 10	< 10	N/A	N/A	N/A
	12/2/2008	< 10	< 10	N/A	N/A	N/A
	4/15/2009	< 10	< 10	N/A	N/A	N/A
	10/19/2009	< 10	< 10	< 10	N/A	N/A
	5/20/2010	< 10	< 10	< 10	N/A	N/A
	10/1/2010	< 10	< 10	< 10	N/A	N/A
	4/29/2011	< 10	< 10	< 10	N/A	N/A
	9/28/2011	< 10	< 10	< 10	N/A	N/A
	4/26/2012	< 5	< 5	< 5	N/A	N/A
	10/24/2012	< 5	< 5	< 5	N/A	N/A
	5/7/2013	< 5	< 5	< 5	N/A	N/A
	10/18/2013	< 5	< 5	< 5	N/A	N/A
	3/25/2014	< 5	< 5	< 5	N/A	N/A
	9/30/2014	< 5	< 5	< 5	N/A	N/A
	4/15/2015	< 10	N/A	< 10	N/A	< 10
	10/12/2015	< 10	N/A	< 10	N/A	< 10
	4/12/2016	< 10	N/A	< 10	N/A	4.47*
	4/12/2016	< 10	N/A	N/A	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	< 10	N/A	< 10	N/A	N/A
	9/23/2016	< 10	N/A	N/A	N/A	N/A
	3/21/2017	< 10	< 10	< 10	N/A	N/A
	3/21/2017	N/A	N/A	< 10	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
2-Butanone, ug/L (CAS NO - 78-93-3)	7/24/2017	< 10	< 10	< 10	N/A	N/A
	7/24/2017	< 10	N/A	N/A	N/A	N/A
	5/15/2018	< 10	< 10	< 10	N/A	N/A
	5/15/2018	< 10	N/A	N/A	N/A	N/A
	8/22/2018	< 10	< 10	< 10	N/A	N/A
	8/22/2018	< 10	N/A	N/A	N/A	N/A
	5/29/2019	< 10	< 10	< 10	< 10	N/A
	5/29/2019	N/A	N/A	< 10	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 10	N/A
	9/19/2019	< 10	< 10	< 10	N/A	N/A
	9/19/2019	< 10	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 10	N/A
	1/23/2020	N/A	N/A	N/A	< 10	N/A
	3/11/2020	< 10	< 10	< 10	< 10	< 10
	3/11/2020	N/A	< 10	N/A	N/A	N/A
	8/19/2020	< 10	< 10	< 10	< 10	N/A
	8/19/2020	N/A	N/A	N/A	< 10	N/A
	3/23/2021	< 10	< 10	< 10	< 10	7.26*
	3/23/2021	< 10	N/A	N/A	N/A	N/A
	9/16/2021	< 10	< 10	< 10	< 10	N/A
	9/16/2021	N/A	< 10	N/A	N/A	N/A
	5/10/2022	< 10	< 10	< 10	< 10	N/A
	5/10/2022	N/A	N/A	< 10	N/A	N/A
	9/28/2022	< 10	< 10	< 10	< 10	N/A
	9/28/2022	N/A	N/A	N/A	< 10	N/A
	3/7/2023	< 10	< 10	< 10	< 10	N/A
	3/7/2023	N/A	N/A	N/A	< 10	N/A
	9/26/2023	< 10	< 10	< 10	< 10	N/A
	9/26/2023	< 10	N/A	N/A	N/A	N/A
	5/29/2024	< 10	< 10	< 10	< 10	< 10
	5/29/2024	N/A	< 10	N/A	N/A	N/A
	10/23/2024	< 10	< 10	< 10	< 10	N/A
	10/23/2024	N/A	< 10	N/A	N/A	N/A
2-Hexanone, ug/L (CAS NO - 591-78-6)	2/21/2008	< 10	N/A	N/A	N/A	N/A
	4/17/2008	< 10	< 10	N/A	N/A	N/A
	6/19/2008	< 10	< 10	N/A	N/A	N/A
	8/7/2008	< 10	< 10	N/A	N/A	N/A
	10/1/2008	< 10	< 10	N/A	N/A	N/A
	12/2/2008	< 10	< 10	N/A	N/A	N/A
	4/15/2009	< 10	< 10	N/A	N/A	N/A
	10/19/2009	< 10	< 10	< 10	N/A	N/A
	5/20/2010	< 10	< 10	< 10	N/A	N/A
	10/1/2010	< 10	< 10	< 10	N/A	N/A
	4/29/2011	< 10	< 10	< 10	N/A	N/A
	9/28/2011	< 10	< 10	< 10	N/A	N/A
	4/26/2012	< 5	< 5	< 5	N/A	N/A
	10/24/2012	< 5	< 5	< 5	N/A	N/A
	5/7/2013	< 5	< 5	< 5	N/A	N/A
	10/18/2013	< 5	< 5	< 5	N/A	N/A
	3/25/2014	< 5	< 5	< 5	N/A	N/A
	9/30/2014	< 5	< 5	< 5	N/A	N/A
	4/15/2015	< 10	N/A	< 10	N/A	< 10
	10/12/2015	< 10	N/A	< 10	N/A	< 10

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
2-Hexanone, ug/L (CAS NO - 591-78-6)	4/12/2016	< 10	N/A	< 10	N/A	< 10
	4/12/2016	< 10	N/A	N/A	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	< 10	N/A	< 10	N/A	N/A
	9/23/2016	< 10	N/A	N/A	N/A	N/A
	3/21/2017	< 10	< 10	< 10	N/A	N/A
	3/21/2017	N/A	N/A	< 10	N/A	N/A
	7/24/2017	< 10	< 10	< 10	N/A	N/A
	7/24/2017	< 10	N/A	N/A	N/A	N/A
	5/15/2018	< 10	< 10	< 10	N/A	N/A
	5/15/2018	< 10	N/A	N/A	N/A	N/A
	8/22/2018	< 10	< 10	< 10	N/A	N/A
	8/22/2018	< 10	N/A	N/A	N/A	N/A
	5/29/2019	< 10	< 10	< 10	< 10	N/A
	5/29/2019	N/A	N/A	< 10	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 10	N/A
	9/19/2019	< 10	< 10	< 10	N/A	N/A
	9/19/2019	< 10	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 10	N/A
	1/23/2020	N/A	N/A	N/A	< 10	N/A
	3/11/2020	< 10	< 10	< 10	< 10	< 10
	3/11/2020	N/A	< 10	N/A	N/A	N/A
	8/19/2020	< 10	< 10	< 10	< 10	N/A
	8/19/2020	N/A	N/A	N/A	< 10	N/A
	3/23/2021	< 10	< 10	< 10	< 10	< 10
	3/23/2021	< 10	N/A	N/A	N/A	N/A
	9/16/2021	< 10	< 10	< 10	< 10	N/A
	9/16/2021	N/A	< 10	N/A	N/A	N/A
	5/10/2022	< 10	< 10	< 10	< 10	N/A
	5/10/2022	N/A	N/A	< 10	N/A	N/A
	9/28/2022	< 10	< 10	< 10	< 10	N/A
	9/28/2022	N/A	N/A	N/A	< 10	N/A
	3/7/2023	< 10	< 10	< 10	< 10	N/A
	3/7/2023	N/A	N/A	N/A	< 10	N/A
	9/26/2023	< 10	< 10	< 10	< 10	N/A
	9/26/2023	< 10	N/A	N/A	N/A	N/A
	5/29/2024	< 10	< 10	< 10	< 10	< 10
	5/29/2024	N/A	< 10	N/A	N/A	N/A
	10/23/2024	< 10	< 10	< 10	< 10	N/A
	10/23/2024	N/A	< 10	N/A	N/A	N/A
4-Methyl-2-Pentanone, ug/L (CAS NO - 108-10-1)	2/21/2008	< 10	N/A	N/A	N/A	N/A
	4/17/2008	< 10	< 10	N/A	N/A	N/A
	6/19/2008	< 10	< 10	N/A	N/A	N/A
	8/7/2008	< 10	< 10	N/A	N/A	N/A
	10/1/2008	< 10	< 10	N/A	N/A	N/A
	12/2/2008	< 10	< 10	N/A	N/A	N/A
	4/15/2009	< 10	< 10	N/A	N/A	N/A
	10/19/2009	< 10	< 10	< 10	N/A	N/A
	5/20/2010	< 10	< 10	< 10	N/A	N/A
	10/1/2010	< 10	< 10	< 10	N/A	N/A
	4/29/2011	< 10	< 10	< 10	N/A	N/A
	9/28/2011	< 10	< 10	< 10	N/A	N/A
	4/26/2012	< 5	< 5	< 5	N/A	N/A
	10/24/2012	< 5	< 5	< 5	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
4-Methyl-2-Pentanone, ug/L (CAS NO - 108-10-1)	5/7/2013	< 5	< 5	< 5	N/A	N/A
	10/18/2013	< 5	< 5	< 5	N/A	N/A
	3/25/2014	< 5	< 5	< 5	N/A	N/A
	9/30/2014	< 5	< 5	< 5	N/A	N/A
	4/15/2015	< 10	N/A	< 10	N/A	< 10
	10/12/2015	< 10	N/A	< 10	N/A	< 10
	4/12/2016	< 10	N/A	< 10	N/A	< 10
	4/12/2016	< 10	N/A	N/A	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	< 10	N/A	< 10	N/A	N/A
	9/23/2016	< 10	N/A	N/A	N/A	N/A
	3/21/2017	< 10	< 10	< 10	N/A	N/A
	3/21/2017	N/A	N/A	< 10	N/A	N/A
	7/24/2017	< 10	< 10	< 10	N/A	N/A
	7/24/2017	< 10	N/A	N/A	N/A	N/A
	5/15/2018	< 10	< 10	< 10	N/A	N/A
	5/15/2018	< 10	N/A	N/A	N/A	N/A
	8/22/2018	< 10	< 10	< 10	N/A	N/A
	8/22/2018	< 10	N/A	N/A	N/A	N/A
	5/29/2019	< 10	< 10	< 10	< 10	N/A
	5/29/2019	N/A	N/A	< 10	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 10	N/A
	9/19/2019	< 10	< 10	< 10	N/A	N/A
	9/19/2019	< 10	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 10	N/A
	1/23/2020	N/A	N/A	N/A	< 10	N/A
	3/11/2020	< 10	< 10	< 10	< 10	< 10
	3/11/2020	N/A	< 10	N/A	N/A	N/A
	8/19/2020	< 10	< 10	< 10	< 10	N/A
	8/19/2020	N/A	N/A	N/A	< 10	N/A
	3/23/2021	< 10	< 10	< 10	< 10	< 10
	3/23/2021	< 10	N/A	N/A	N/A	N/A
	9/16/2021	< 10	< 10	< 10	< 10	N/A
	9/16/2021	N/A	< 10	N/A	N/A	N/A
	5/10/2022	< 10	< 10	< 10	< 10	N/A
	5/10/2022	N/A	N/A	< 10	N/A	N/A
	9/28/2022	< 10	< 10	< 10	< 10	N/A
	9/28/2022	N/A	N/A	N/A	< 10	N/A
	3/7/2023	< 10	< 10	< 10	< 10	N/A
	3/7/2023	N/A	N/A	N/A	< 10	N/A
	9/26/2023	< 10	< 10	< 10	< 10	N/A
	9/26/2023	< 10	N/A	N/A	N/A	N/A
	5/29/2024	< 10	< 10	< 10	< 10	< 10
	5/29/2024	N/A	< 10	N/A	N/A	N/A
	10/23/2024	< 10	< 10	< 10	< 10	N/A
	10/23/2024	N/A	< 10	N/A	N/A	N/A
Acetone, ug/L (CAS NO - 67-64-1)	2/21/2008	< 10	N/A	N/A	N/A	N/A
	4/17/2008	< 10	< 10	N/A	N/A	N/A
	6/19/2008	< 10	< 10	N/A	N/A	N/A
	8/7/2008	< 10	< 10	N/A	N/A	N/A
	10/1/2008	< 10	< 10	N/A	N/A	N/A
	12/2/2008	< 10	< 10	N/A	N/A	N/A
	4/15/2009	< 10	190	N/A	N/A	N/A
	10/19/2009	< 10	< 10	< 10	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Acetone, ug/L (CAS NO - 67-64-1)	5/20/2010	< 10	< 10	< 10	N/A	N/A
	10/1/2010	14	< 10	< 10	N/A	N/A
	2/15/2011	< 10	N/A	N/A	N/A	N/A
	4/29/2011	< 10	< 10	< 10	N/A	N/A
	9/28/2011	< 10	< 10	< 10	N/A	N/A
	4/26/2012	< 10	< 10	< 10	N/A	N/A
	10/24/2012	< 10	< 10	< 10	N/A	N/A
	5/7/2013	< 10	< 10	< 10	N/A	N/A
	10/18/2013	< 10	< 10	< 10	N/A	N/A
	3/25/2014	< 10	< 10	< 10	N/A	N/A
	9/30/2014	< 10	< 10	< 10	N/A	N/A
	4/15/2015	< 10	N/A	< 10	N/A	< 10
	10/12/2015	< 10	N/A	< 10	N/A	12.1
	4/12/2016	< 10	N/A	< 10	N/A	9.26*
	4/12/2016	< 10	N/A	N/A	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	< 10	N/A	< 10	N/A	N/A
	9/23/2016	< 10	N/A	N/A	N/A	N/A
	3/21/2017	< 10	4.6*	3.24*	N/A	N/A
	3/21/2017	N/A	N/A	3.43*	N/A	N/A
	7/24/2017	< 10	< 10	< 10	N/A	N/A
	7/24/2017	< 10	N/A	N/A	N/A	N/A
	5/15/2018	< 10	< 10	1.98*	N/A	N/A
	5/15/2018	< 10	N/A	N/A	N/A	N/A
	8/22/2018	< 10	< 10	< 10	N/A	N/A
	8/22/2018	< 10	N/A	N/A	N/A	N/A
	5/29/2019	< 10	< 10	3.89*	3.57*	N/A
	5/29/2019	N/A	N/A	< 10	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 10	N/A
	9/19/2019	< 10	< 10	< 10	N/A	N/A
	9/19/2019	< 10	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	4.13*	N/A
	1/23/2020	N/A	N/A	N/A	< 10	N/A
	3/11/2020	< 10	< 10	< 10	< 10	< 10
	3/11/2020	N/A	< 10	N/A	N/A	N/A
	8/19/2020	< 10	< 10	< 10	3.6*	N/A
	8/19/2020	N/A	N/A	N/A	3.92*	N/A
	3/23/2021	< 10	< 10	< 10	< 10	4.81*
	3/23/2021	< 10	N/A	N/A	N/A	N/A
	9/16/2021	< 10	< 10	< 10	< 10	N/A
	9/16/2021	N/A	< 10	N/A	N/A	N/A
	5/10/2022	< 10	< 10	< 10	< 10	N/A
	5/10/2022	N/A	N/A	< 10	N/A	N/A
	9/28/2022	< 10	5.5*	6.48*	< 10	N/A
	9/28/2022	N/A	N/A	N/A	< 10	N/A
	3/7/2023	4.42*	< 10	< 10	< 10	N/A
	3/7/2023	N/A	N/A	N/A	< 10	N/A
	9/26/2023	< 10	< 10	< 10	< 10	N/A
	9/26/2023	< 10	N/A	N/A	N/A	N/A
	5/29/2024	< 10	< 10	< 10	< 10	< 10
	5/29/2024	N/A	< 10	N/A	N/A	N/A
	10/23/2024	< 10	< 10	< 10	< 10	N/A
	10/23/2024	N/A	< 10	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Acrylonitrile, ug/L (CAS NO - 107-13-1)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 5	< 5	< 5	N/A	N/A
	10/24/2012	< 5	< 5	< 5	N/A	N/A
	5/7/2013	< 5	< 5	< 5	N/A	N/A
	10/18/2013	< 5	< 5	< 5	N/A	N/A
	3/25/2014	< 5	< 5	< 5	N/A	N/A
	9/30/2014	< 5	< 5	< 5	N/A	N/A
	4/15/2015	< 10	N/A	< 10	N/A	< 10
	10/12/2015	< 10	N/A	< 10	N/A	< 10
	4/12/2016	< 10	N/A	< 10	N/A	< 10
	4/12/2016	< 10	N/A	N/A	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	< 10	N/A	< 10	N/A	N/A
	9/23/2016	< 10	N/A	N/A	N/A	N/A
	3/21/2017	< 10	< 10	< 10	N/A	N/A
	3/21/2017	N/A	N/A	< 10	N/A	N/A
	7/24/2017	< 10	< 10	< 10	N/A	N/A
	7/24/2017	< 10	N/A	N/A	N/A	N/A
	5/15/2018	< 10	< 10	< 10	N/A	N/A
	5/15/2018	< 10	N/A	N/A	N/A	N/A
	8/22/2018	< 10	< 10	< 10	N/A	N/A
	8/22/2018	< 10	N/A	N/A	N/A	N/A
	5/29/2019	< 10	< 10	< 10	< 10	N/A
	5/29/2019	N/A	N/A	< 10	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 10	N/A
	9/19/2019	< 10	< 10	< 10	N/A	N/A
	9/19/2019	< 10	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 10	N/A
	1/23/2020	N/A	N/A	N/A	< 5	N/A
	3/11/2020	< 5	< 5	< 5	< 5	< 5
	3/11/2020	N/A	< 5	N/A	N/A	N/A
	8/19/2020	< 5	< 5	< 5	< 5	N/A
	8/19/2020	N/A	N/A	N/A	< 5	N/A
	3/23/2021	< 5	< 5	< 5	< 5	< 5
	3/23/2021	< 5	N/A	N/A	N/A	N/A
	9/16/2021	< 5	< 5	< 5	< 5	N/A
	9/16/2021	N/A	< 5	N/A	N/A	N/A
	5/10/2022	< 5	< 5	< 5	< 5	N/A
	5/10/2022	N/A	N/A	< 5	N/A	N/A
	9/28/2022	< 5	< 5	< 5	< 5	N/A
	9/28/2022	N/A	N/A	N/A	< 5	N/A
	3/7/2023	< 5	< 5	< 5	< 5	N/A
	3/7/2023	N/A	N/A	N/A	< 5	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Acrylonitrile, ug/L (CAS NO - 107-13-1)	9/26/2023	< 5	< 5	< 5	< 5	N/A
	9/26/2023	< 5	N/A	N/A	N/A	N/A
	5/29/2024	< 5	< 5	< 5	< 5	< 5
	5/29/2024	N/A	< 5	N/A	N/A	N/A
	10/23/2024	< 5	< 5	< 5	< 5	N/A
	10/23/2024	N/A	< 5	N/A	N/A	N/A
Benzene, ug/L (CAS NO - 71-43-2)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 0.5	N/A	< 0.5	N/A	< 0.5
	10/12/2015	< 0.5	N/A	< 0.5	N/A	< 0.5
	4/12/2016	< 0.5	N/A	0.131*	N/A	0.348*
	4/12/2016	< 0.5	N/A	N/A	N/A	N/A
	6/21/2016	< 0.5	N/A	N/A	N/A	N/A
	9/23/2016	< 0.5	N/A	< 0.5	N/A	N/A
	9/23/2016	< 0.5	N/A	N/A	N/A	N/A
	3/21/2017	< 0.5	< 0.5	< 0.5	N/A	N/A
	3/21/2017	N/A	N/A	< 0.5	N/A	N/A
	7/24/2017	< 0.5	< 0.5	< 0.5	N/A	N/A
	7/24/2017	< 0.5	N/A	N/A	N/A	N/A
	5/15/2018	< 0.5	< 0.5	< 0.5	N/A	N/A
	5/15/2018	< 0.5	N/A	N/A	N/A	N/A
	8/22/2018	< 0.5	< 0.5	< 0.5	N/A	N/A
	8/22/2018	< 0.5	N/A	N/A	N/A	N/A
	5/29/2019	< 0.5	< 0.5	< 0.5	< 0.5	N/A
	5/29/2019	N/A	N/A	< 0.5	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 0.5	N/A
	9/19/2019	< 0.5	< 0.5	< 0.5	N/A	N/A
	9/19/2019	< 0.5	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 0.5	N/A
	1/23/2020	N/A	N/A	N/A	< 0.5	N/A
	3/11/2020	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	3/11/2020	N/A	< 0.5	N/A	N/A	N/A
	8/19/2020	< 0.5	< 0.5	< 0.5	< 0.5	N/A
	8/19/2020	N/A	N/A	N/A	< 0.5	N/A
	3/23/2021	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	3/23/2021	< 0.5	N/A	N/A	N/A	N/A
	9/16/2021	< 0.5	< 0.5	< 0.5	< 0.5	N/A
	9/16/2021	N/A	< 0.5	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Benzene, ug/L (CAS NO - 71-43-2)	5/10/2022	< 0.5	< 0.5	< 0.5	< 0.5	N/A
	5/10/2022	N/A	N/A	< 0.5	N/A	N/A
	9/28/2022	< 0.5	< 0.5	< 0.5	< 0.5	N/A
	9/28/2022	N/A	N/A	N/A	< 0.5	N/A
	3/7/2023	< 0.5	< 0.5	< 0.5	< 0.5	N/A
	3/7/2023	N/A	N/A	N/A	< 0.5	N/A
	9/26/2023	< 0.5	< 0.5	< 0.5	< 0.5	N/A
	9/26/2023	< 0.5	N/A	N/A	N/A	N/A
	5/29/2024	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	5/29/2024	N/A	< 0.5	N/A	N/A	N/A
	10/23/2024	< 0.5	< 0.5	< 0.5	< 0.5	N/A
	10/23/2024	N/A	< 0.5	N/A	N/A	N/A
Bromochloromethane, ug/L (CAS NO - 74-97-5)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 5	N/A	< 5	N/A	< 5
	10/12/2015	< 5	N/A	< 5	N/A	< 5
	4/12/2016	< 5	N/A	< 5	N/A	< 5
	4/12/2016	< 5	N/A	N/A	N/A	N/A
	6/21/2016	< 5	N/A	N/A	N/A	N/A
	9/23/2016	< 5	N/A	< 5	N/A	N/A
	9/23/2016	< 5	N/A	N/A	N/A	N/A
	3/21/2017	< 5	< 5	< 5	N/A	N/A
	3/21/2017	N/A	N/A	< 5	N/A	N/A
	7/24/2017	< 5	< 5	< 5	N/A	N/A
	7/24/2017	< 5	N/A	N/A	N/A	N/A
	5/15/2018	< 5	< 5	< 5	N/A	N/A
	5/15/2018	< 5	N/A	N/A	N/A	N/A
	8/22/2018	< 5	< 5	< 5	N/A	N/A
	8/22/2018	< 5	N/A	N/A	N/A	N/A
	5/29/2019	< 5	< 5	< 5	< 5	N/A
	5/29/2019	N/A	N/A	< 5	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 5	N/A
	9/19/2019	< 5	< 5	< 5	N/A	N/A
	9/19/2019	< 5	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 5	N/A
	1/23/2020	N/A	N/A	N/A	< 5	N/A
	3/11/2020	< 5	< 5	< 5	< 5	< 5
	3/11/2020	N/A	< 5	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Bromochloromethane, ug/L (CAS NO - 74-97-5)	8/19/2020	< 5	< 5	< 5	< 5	N/A
	8/19/2020	N/A	N/A	N/A	< 5	N/A
	3/23/2021	< 5	< 5	< 5	< 5	< 5
	3/23/2021	< 5	N/A	N/A	N/A	N/A
	9/16/2021	< 5	< 5	< 5	< 5	N/A
	9/16/2021	N/A	< 5	N/A	N/A	N/A
	5/10/2022	< 5	< 5	< 5	< 5	N/A
	5/10/2022	N/A	N/A	< 5	N/A	N/A
	9/28/2022	< 5	< 5	< 5	< 5	N/A
	9/28/2022	N/A	N/A	N/A	< 5	N/A
	3/7/2023	< 5	< 5	< 5	< 5	N/A
	3/7/2023	N/A	N/A	N/A	< 5	N/A
	9/26/2023	< 5	< 5	< 5	< 5	N/A
	9/26/2023	< 5	N/A	N/A	N/A	N/A
	5/29/2024	< 5	< 5	< 5	< 5	< 5
	5/29/2024	N/A	< 5	N/A	N/A	N/A
	10/23/2024	< 5	< 5	< 5	< 5	N/A
	10/23/2024	N/A	< 5	N/A	N/A	N/A
Bromodichloromethane, ug/L (CAS NO - 75-27-4)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 1	N/A	< 1	N/A	< 1
	10/12/2015	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	N/A	N/A	N/A
	6/21/2016	< 1	N/A	N/A	N/A	N/A
	9/23/2016	< 1	N/A	< 1	N/A	N/A
	9/23/2016	< 1	N/A	N/A	N/A	N/A
	3/21/2017	< 1	< 1	< 1	N/A	N/A
	3/21/2017	N/A	N/A	< 1	N/A	N/A
	7/24/2017	< 1	< 1	< 1	N/A	N/A
	7/24/2017	< 1	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	N/A	N/A
	5/15/2018	< 1	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	N/A	N/A
	8/22/2018	< 1	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	N/A
	5/29/2019	N/A	N/A	< 1	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 1	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Bromodichloromethane, ug/L (CAS NO - 75-27-4)	9/19/2019	< 1	< 1	< 1	N/A	N/A
	9/19/2019	< 1	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 1	N/A
	1/23/2020	N/A	N/A	N/A	< 1	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1
	3/11/2020	N/A	< 1	N/A	N/A	N/A
	8/19/2020	< 1	< 1	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1
	3/23/2021	< 1	N/A	N/A	N/A	N/A
	9/16/2021	< 1	< 1	< 1	< 1	N/A
	9/16/2021	N/A	< 1	N/A	N/A	N/A
	5/10/2022	< 1	< 1	< 1	< 1	N/A
	5/10/2022	N/A	N/A	< 1	N/A	N/A
	9/28/2022	< 1	< 1	< 1	< 1	N/A
	9/28/2022	N/A	N/A	N/A	< 1	N/A
	3/7/2023	< 1	< 1	< 1	< 1	N/A
	3/7/2023	N/A	N/A	N/A	< 1	N/A
	9/26/2023	< 1	< 1	< 1	< 1	N/A
	9/26/2023	< 1	N/A	N/A	N/A	N/A
	5/29/2024	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	< 1	N/A	N/A	N/A
	10/23/2024	< 1	< 1	< 1	< 1	N/A
	10/23/2024	N/A	< 1	N/A	N/A	N/A
Bromoform, ug/L (CAS NO - 75-25-2)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 5	N/A	< 5	N/A	< 5
	10/12/2015	< 5	N/A	< 5	N/A	< 5
	4/12/2016	< 5	N/A	< 5	N/A	< 5
	4/12/2016	< 5	N/A	N/A	N/A	N/A
	6/21/2016	< 5	N/A	N/A	N/A	N/A
	9/23/2016	< 5	N/A	< 5	N/A	N/A
	9/23/2016	< 5	N/A	N/A	N/A	N/A
	3/21/2017	< 5	< 5	< 5	N/A	N/A
	3/21/2017	N/A	N/A	< 5	N/A	N/A
	7/24/2017	< 5	< 5	< 5	N/A	N/A
	7/24/2017	< 5	N/A	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Bromoform, ug/L (CAS NO - 75-25-2)	5/15/2018	< 5	< 5	< 5	N/A	N/A
	5/15/2018	< 5	N/A	N/A	N/A	N/A
	8/22/2018	< 5	< 5	< 5	N/A	N/A
	8/22/2018	< 5	N/A	N/A	N/A	N/A
	5/29/2019	< 5	< 5	< 5	< 5	N/A
	5/29/2019	N/A	N/A	< 5	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 5	N/A
	9/19/2019	< 5	< 5	< 5	N/A	N/A
	9/19/2019	< 5	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 5	N/A
	1/23/2020	N/A	N/A	N/A	< 5	N/A
	3/11/2020	< 5	< 5	< 5	< 5	< 5
	3/11/2020	N/A	< 5	N/A	N/A	N/A
	8/19/2020	< 5	< 5	< 5	< 5	N/A
	8/19/2020	N/A	N/A	N/A	< 5	N/A
	3/23/2021	< 5	< 5	< 5	< 5	< 5
	3/23/2021	< 5	N/A	N/A	N/A	N/A
	9/16/2021	< 5	< 5	< 5	< 5	N/A
	9/16/2021	N/A	< 5	N/A	N/A	N/A
	5/10/2022	< 5	< 5	< 5	< 5	N/A
	5/10/2022	N/A	N/A	< 5	N/A	N/A
	9/28/2022	< 5	< 5	< 5	< 5	N/A
	9/28/2022	N/A	N/A	N/A	< 5	N/A
	3/7/2023	< 5	< 5	< 5	< 5	N/A
	3/7/2023	N/A	N/A	N/A	< 5	N/A
	9/26/2023	< 5	< 5	< 5	< 5	N/A
	9/26/2023	< 5	N/A	N/A	N/A	N/A
	5/29/2024	< 5	< 5	< 5	< 5	< 5
	5/29/2024	N/A	< 5	N/A	N/A	N/A
	10/23/2024	< 5	< 5	< 5	< 5	N/A
	10/23/2024	N/A	< 5	N/A	N/A	N/A
Bromomethane, ug/L (CAS NO - 74-83-9)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	0.397*	N/A	0.363*	N/A	< 4
	10/12/2015	< 4	N/A	< 4	N/A	< 4
	4/12/2016	< 4	N/A	< 4	N/A	< 4
	4/12/2016	0.957*	N/A	N/A	N/A	N/A
	6/21/2016	< 4	N/A	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Bromomethane, ug/L (CAS NO - 74-83-9)	9/23/2016	< 4	N/A	< 4	N/A	N/A
	9/23/2016	< 4	N/A	N/A	N/A	N/A
	3/21/2017	0.244*	0.299*	< 4	N/A	N/A
	3/21/2017	N/A	N/A	< 4	N/A	N/A
	7/24/2017	< 4	< 4	< 4	N/A	N/A
	7/24/2017	< 4	N/A	N/A	N/A	N/A
	5/15/2018	< 4	< 4	< 4	N/A	N/A
	5/15/2018	< 4	N/A	N/A	N/A	N/A
	8/22/2018	< 4	< 4	< 4	N/A	N/A
	8/22/2018	< 4	N/A	N/A	N/A	N/A
	5/29/2019	< 4	< 4	< 4	< 4	N/A
	5/29/2019	N/A	N/A	< 4	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 4	N/A
	9/19/2019	< 4	< 4	< 4	N/A	N/A
	9/19/2019	< 4	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 4	N/A
	1/23/2020	N/A	N/A	N/A	< 4	N/A
	3/11/2020	< 4	< 4	< 4	< 4	< 4
	3/11/2020	N/A	< 4	N/A	N/A	N/A
	8/19/2020	< 4	< 4	< 4	< 4	N/A
	8/19/2020	N/A	N/A	N/A	< 4	N/A
	3/23/2021	< 4	< 4	< 4	< 4	< 4
	3/23/2021	< 4	N/A	N/A	N/A	N/A
	9/16/2021	< 4	< 4	< 4	< 4	N/A
	9/16/2021	N/A	< 4	N/A	N/A	N/A
	5/10/2022	< 4	< 4	< 4	< 4	N/A
	5/10/2022	N/A	N/A	< 4	N/A	N/A
	9/28/2022	< 4	< 4	< 4	< 4	N/A
	9/28/2022	N/A	N/A	N/A	< 4	N/A
	3/7/2023	< 4	< 4	< 4	< 4	N/A
	3/7/2023	N/A	N/A	N/A	< 4	N/A
	9/26/2023	< 4	< 4	< 4	< 4	N/A
	9/26/2023	< 4	N/A	N/A	N/A	N/A
	5/29/2024	< 4	< 4	< 4	< 4	< 4
	5/29/2024	N/A	< 4	N/A	N/A	N/A
	10/23/2024	< 4	< 4	< 4	< 4	N/A
	10/23/2024	N/A	< 4	N/A	N/A	N/A
Carbon Disulfide, ug/L (CAS NO - 75-15-0)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Carbon Disulfide, ug/L (CAS NO - 75-15-0)	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 1	N/A	0.334*	N/A	< 1
	10/12/2015	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	N/A	N/A	N/A
	6/21/2016	< 1	N/A	N/A	N/A	N/A
	9/23/2016	< 1	N/A	< 1	N/A	N/A
	9/23/2016	< 1	N/A	N/A	N/A	N/A
	3/21/2017	< 1	< 1	0.339*	N/A	N/A
	3/21/2017	N/A	N/A	0.325*	N/A	N/A
	7/24/2017	< 1	< 1	< 1	N/A	N/A
	7/24/2017	< 1	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	N/A	N/A
	5/15/2018	< 1	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	N/A	N/A
	8/22/2018	< 1	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	N/A
	5/29/2019	N/A	N/A	< 1	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 1	N/A
	9/19/2019	< 1	< 1	< 1	N/A	N/A
	9/19/2019	< 1	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	1	N/A
	1/23/2020	N/A	N/A	N/A	< 1	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1
	3/11/2020	N/A	< 1	N/A	N/A	N/A
	8/19/2020	< 1	< 1	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1
	3/23/2021	< 1	N/A	N/A	N/A	N/A
	9/16/2021	< 1	< 1	< 1	< 1	N/A
	9/16/2021	N/A	< 1	N/A	N/A	N/A
	5/10/2022	< 1	< 1	< 1	< 1	N/A
	5/10/2022	N/A	N/A	< 1	N/A	N/A
	9/28/2022	< 1	< 1	< 1	< 1	N/A
	9/28/2022	N/A	N/A	N/A	< 1	N/A
	3/7/2023	< 1	< 1	< 1	< 1	N/A
	3/7/2023	N/A	N/A	N/A	< 1	N/A
	9/26/2023	< 1	< 1	< 1	< 1	N/A
	9/26/2023	< 1	N/A	N/A	N/A	N/A
	5/29/2024	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	< 1	N/A	N/A	N/A
	10/23/2024	< 1	< 1	< 1	< 1	N/A
	10/23/2024	N/A	< 1	N/A	N/A	N/A
Carbon Tetrachloride, ug/L (CAS NO - 56-23-5)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Carbon Tetrachloride, ug/L (CAS NO - 56-23-5)	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 2	N/A	< 2	N/A	< 2
	10/12/2015	< 2	N/A	< 2	N/A	< 2
	4/12/2016	< 2	N/A	< 2	N/A	< 2
	4/12/2016	< 2	N/A	N/A	N/A	N/A
	6/21/2016	< 2	N/A	N/A	N/A	N/A
	9/23/2016	< 2	N/A	< 2	N/A	N/A
	9/23/2016	< 2	N/A	N/A	N/A	N/A
	3/21/2017	< 2	< 2	< 2	N/A	N/A
	3/21/2017	N/A	N/A	< 2	N/A	N/A
	7/24/2017	< 2	< 2	< 2	N/A	N/A
	7/24/2017	< 2	N/A	N/A	N/A	N/A
	5/15/2018	< 2	< 2	< 2	N/A	N/A
	5/15/2018	< 2	N/A	N/A	N/A	N/A
	8/22/2018	< 2	< 2	< 2	N/A	N/A
	8/22/2018	< 2	N/A	N/A	N/A	N/A
	5/29/2019	< 2	< 2	< 2	< 2	N/A
	5/29/2019	N/A	N/A	< 2	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 2	N/A
	9/19/2019	< 2	< 2	< 2	N/A	N/A
	9/19/2019	< 2	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 2	N/A
	1/23/2020	N/A	N/A	N/A	< 2	N/A
	3/11/2020	< 2	< 2	< 2	< 2	< 2
	3/11/2020	N/A	< 2	N/A	N/A	N/A
	8/19/2020	< 2	< 2	< 2	< 2	N/A
	8/19/2020	N/A	N/A	N/A	< 2	N/A
	3/23/2021	< 2	< 2	< 2	< 2	< 2
	3/23/2021	< 2	N/A	N/A	N/A	N/A
	9/16/2021	< 2	< 2	< 2	< 2	N/A
	9/16/2021	N/A	< 2	N/A	N/A	N/A
	5/10/2022	< 2	< 2	< 2	< 2	N/A
	5/10/2022	N/A	N/A	< 2	N/A	N/A
	9/28/2022	< 2	< 2	< 2	< 2	N/A
	9/28/2022	N/A	N/A	N/A	< 2	N/A
	3/7/2023	< 2	< 2	< 2	< 2	N/A
	3/7/2023	N/A	N/A	N/A	< 2	N/A
	9/26/2023	< 2	< 2	< 2	< 2	N/A
	9/26/2023	< 2	N/A	N/A	N/A	N/A
	5/29/2024	< 2	< 2	< 2	< 2	< 2
	5/29/2024	N/A	< 2	N/A	N/A	N/A
	10/23/2024	< 2	< 2	< 2	< 2	N/A
	10/23/2024	N/A	< 2	N/A	N/A	N/A
Chlorobenzene, ug/L (CAS NO - 108-90-7)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Chlorobenzene, ug/L (CAS NO - 108-90-7)	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 1	N/A	< 1	N/A	< 1
	10/12/2015	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	N/A	N/A	N/A
	6/21/2016	< 1	N/A	N/A	N/A	N/A
	9/23/2016	< 1	N/A	< 1	N/A	N/A
	9/23/2016	< 1	N/A	N/A	N/A	N/A
	3/21/2017	< 1	< 1	< 1	N/A	N/A
	3/21/2017	N/A	N/A	< 1	N/A	N/A
	7/24/2017	< 1	< 1	< 1	N/A	N/A
	7/24/2017	< 1	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	N/A	N/A
	5/15/2018	< 1	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	N/A	N/A
	8/22/2018	< 1	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	N/A
	5/29/2019	N/A	N/A	< 1	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 1	N/A
	9/19/2019	< 1	< 1	< 1	N/A	N/A
	9/19/2019	< 1	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 1	N/A
	1/23/2020	N/A	N/A	N/A	< 1	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1
	3/11/2020	N/A	< 1	N/A	N/A	N/A
	8/19/2020	< 1	< 1	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1
	3/23/2021	< 1	N/A	N/A	N/A	N/A
	9/16/2021	< 1	< 1	< 1	< 1	N/A
	9/16/2021	N/A	< 1	N/A	N/A	N/A
	5/10/2022	< 1	< 1	< 1	< 1	N/A
	5/10/2022	N/A	N/A	< 1	N/A	N/A
	9/28/2022	< 1	< 1	< 1	< 1	N/A
	9/28/2022	N/A	N/A	N/A	< 1	N/A
	3/7/2023	< 1	< 1	< 1	< 1	N/A
	3/7/2023	N/A	N/A	N/A	< 1	N/A
	9/26/2023	< 1	< 1	< 1	< 1	N/A
	9/26/2023	< 1	N/A	N/A	N/A	N/A
	5/29/2024	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	< 1	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Chlorobenzene, ug/L (CAS NO - 108-90-7)	10/23/2024	< 1	< 1	< 1	< 1	N/A
	10/23/2024	N/A	< 1	N/A	N/A	N/A
Chlorodibromomethane, ug/L (CAS NO - 124-48-1)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 5	N/A	< 5	N/A	< 5
	10/12/2015	< 5	N/A	< 5	N/A	< 5
	4/12/2016	< 5	N/A	< 5	N/A	< 5
	4/12/2016	< 5	N/A	N/A	N/A	N/A
	6/21/2016	< 5	N/A	N/A	N/A	N/A
	9/23/2016	< 5	N/A	< 5	N/A	N/A
	9/23/2016	< 5	N/A	N/A	N/A	N/A
	3/21/2017	< 5	< 5	< 5	N/A	N/A
	3/21/2017	N/A	N/A	< 5	N/A	N/A
	7/24/2017	< 5	< 5	< 5	N/A	N/A
	7/24/2017	< 5	N/A	N/A	N/A	N/A
	5/15/2018	< 5	< 5	< 5	N/A	N/A
	5/15/2018	< 5	N/A	N/A	N/A	N/A
	8/22/2018	< 5	< 5	< 5	N/A	N/A
	8/22/2018	< 5	N/A	N/A	N/A	N/A
	5/29/2019	< 5	< 5	< 5	< 5	N/A
	5/29/2019	N/A	N/A	< 5	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 5	N/A
	9/19/2019	< 5	< 5	< 5	N/A	N/A
	9/19/2019	< 5	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 5	N/A
	1/23/2020	N/A	N/A	N/A	< 5	N/A
	3/11/2020	< 5	< 5	< 5	< 5	< 5
	3/11/2020	N/A	< 5	N/A	N/A	N/A
	8/19/2020	< 5	< 5	< 5	< 5	N/A
	8/19/2020	N/A	N/A	N/A	< 5	N/A
	3/23/2021	< 5	< 5	< 5	< 5	< 5
	3/23/2021	< 5	N/A	N/A	N/A	N/A
	9/16/2021	< 5	< 5	< 5	< 5	N/A
	9/16/2021	N/A	< 5	N/A	N/A	N/A
	5/10/2022	< 5	< 5	< 5	< 5	N/A
	5/10/2022	N/A	N/A	< 5	N/A	N/A
	9/28/2022	< 5	< 5	< 5	< 5	N/A
	9/28/2022	N/A	N/A	N/A	< 5	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Chlorodibromomethane, ug/L (CAS NO - 124-48-1)	3/7/2023	< 5	< 5	< 5	< 5	N/A
	3/7/2023	N/A	N/A	N/A	< 5	N/A
	9/26/2023	< 5	< 5	< 5	< 5	N/A
	9/26/2023	< 5	N/A	N/A	N/A	N/A
	5/29/2024	< 5	< 5	< 5	< 5	< 5
	5/29/2024	N/A	< 5	N/A	N/A	N/A
	10/23/2024	< 5	< 5	< 5	< 5	N/A
	10/23/2024	N/A	< 5	N/A	N/A	N/A
Chloroethane, ug/L (CAS NO - 75-00-3)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 4	N/A	< 4	N/A	< 4
	10/12/2015	< 4	N/A	< 4	N/A	< 4
	4/12/2016	< 4	N/A	< 4	N/A	< 4
	4/12/2016	< 4	N/A	N/A	N/A	N/A
	6/21/2016	< 4	N/A	N/A	N/A	N/A
	9/23/2016	< 4	N/A	< 4	N/A	N/A
	9/23/2016	< 4	N/A	N/A	N/A	N/A
	3/21/2017	< 4	< 4	< 4	N/A	N/A
	3/21/2017	N/A	N/A	< 4	N/A	N/A
	7/24/2017	< 4	< 4	< 4	N/A	N/A
	7/24/2017	< 4	N/A	N/A	N/A	N/A
	5/15/2018	< 4	< 4	< 4	N/A	N/A
	5/15/2018	< 4	N/A	N/A	N/A	N/A
	8/22/2018	< 4	< 4	< 4	N/A	N/A
	8/22/2018	< 4	N/A	N/A	N/A	N/A
	5/29/2019	< 4	< 4	< 4	< 4	N/A
	5/29/2019	N/A	N/A	< 4	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 4	N/A
	9/19/2019	< 4	< 4	< 4	N/A	N/A
	9/19/2019	< 4	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 4	N/A
	1/23/2020	N/A	N/A	N/A	< 4	N/A
	3/11/2020	< 4	< 4	< 4	< 4	< 4
	3/11/2020	N/A	< 4	N/A	N/A	N/A
	8/19/2020	< 4	< 4	< 4	< 4	N/A
	8/19/2020	N/A	N/A	N/A	< 4	N/A
	3/23/2021	< 4	< 4	< 4	< 4	< 4
	3/23/2021	< 4	N/A	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Chloroethane, ug/L (CAS NO - 75-00-3)	9/16/2021	< 4	< 4	< 4	< 4	N/A
	9/16/2021	N/A	< 4	N/A	N/A	N/A
	5/10/2022	< 4	< 4	< 4	< 4	N/A
	5/10/2022	N/A	N/A	< 4	N/A	N/A
	9/28/2022	< 4	< 4	< 4	< 4	N/A
	9/28/2022	N/A	N/A	N/A	< 4	N/A
	3/7/2023	< 4	< 4	< 4	< 4	N/A
	3/7/2023	N/A	N/A	N/A	< 4	N/A
	9/26/2023	< 4	< 4	< 4	< 4	N/A
	9/26/2023	< 4	N/A	N/A	N/A	N/A
	5/29/2024	< 4	< 4	< 4	< 4	< 4
	5/29/2024	N/A	< 4	N/A	N/A	N/A
	10/23/2024	< 4	< 4	< 4	< 4	N/A
	10/23/2024	N/A	< 4	N/A	N/A	N/A
Chloroform, ug/L (CAS NO - 67-66-3)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 1	N/A	< 1	N/A	< 1
	10/12/2015	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	N/A	N/A	N/A
	6/21/2016	< 1	N/A	N/A	N/A	N/A
	9/23/2016	< 1	N/A	< 1	N/A	N/A
	9/23/2016	< 1	N/A	N/A	N/A	N/A
	3/21/2017	< 1	< 1	< 1	N/A	N/A
	3/21/2017	N/A	N/A	< 1	N/A	N/A
	7/24/2017	< 1	< 1	< 1	N/A	N/A
	7/24/2017	< 1	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	N/A	N/A
	5/15/2018	< 1	N/A	N/A	N/A	N/A
	8/22/2018	< 3	< 3	< 3	N/A	N/A
	8/22/2018	< 3	N/A	N/A	N/A	N/A
	5/29/2019	< 3	< 3	< 3	< 3	N/A
	5/29/2019	N/A	N/A	< 3	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 3	N/A
	9/19/2019	< 3	< 3	< 3	N/A	N/A
	9/19/2019	< 3	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 3	N/A
	1/23/2020	N/A	N/A	N/A	< 3	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Chloroform, ug/L (CAS NO - 67-66-3)	3/11/2020	< 3	< 3	< 3	< 3	< 3
	3/11/2020	N/A	< 3	N/A	N/A	N/A
	8/19/2020	< 3	< 3	< 3	< 3	N/A
	8/19/2020	N/A	N/A	N/A	< 3	N/A
	3/23/2021	< 3	< 3	< 3	< 3	< 3
	3/23/2021	< 3	N/A	N/A	N/A	N/A
	9/16/2021	< 3	< 3	< 3	< 3	N/A
	9/16/2021	N/A	< 3	N/A	N/A	N/A
	5/10/2022	< 3	< 3	< 3	< 3	N/A
	5/10/2022	N/A	N/A	< 3	N/A	N/A
	9/28/2022	< 3	< 3	< 3	< 3	N/A
	9/28/2022	N/A	N/A	N/A	< 3	N/A
	3/7/2023	< 3	< 3	< 3	< 3	N/A
	3/7/2023	N/A	N/A	N/A	< 3	N/A
	9/26/2023	< 3	< 3	< 3	< 3	N/A
	9/26/2023	< 3	N/A	N/A	N/A	N/A
	5/29/2024	< 3	< 3	< 3	< 3	< 3
	5/29/2024	N/A	< 3	N/A	N/A	N/A
	10/23/2024	< 3	< 3	< 3	< 3	N/A
	10/23/2024	N/A	< 3	N/A	N/A	N/A
Chloromethane, ug/L (CAS NO - 74-87-3)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 3	N/A	< 3	N/A	< 3
	10/12/2015	< 3	N/A	< 3	N/A	< 3
	4/12/2016	< 3	N/A	< 3	N/A	< 3
	4/12/2016	0.388*	N/A	N/A	N/A	N/A
	6/21/2016	< 3	N/A	N/A	N/A	N/A
	9/23/2016	< 3	N/A	< 3	N/A	N/A
	9/23/2016	< 3	N/A	N/A	N/A	N/A
	3/21/2017	< 3	< 3	< 3	N/A	N/A
	3/21/2017	N/A	N/A	< 3	N/A	N/A
	7/24/2017	< 3	< 3	< 3	N/A	N/A
	7/24/2017	< 3	N/A	N/A	N/A	N/A
	5/15/2018	< 3	< 3	< 3	N/A	N/A
	5/15/2018	< 3	N/A	N/A	N/A	N/A
	8/22/2018	< 3	< 3	< 3	N/A	N/A
	8/22/2018	< 3	N/A	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Chloromethane, ug/L (CAS NO - 74-87-3)	5/29/2019	< 3	< 3	< 3	< 3	N/A
	5/29/2019	N/A	N/A	< 3	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 3	N/A
	9/19/2019	< 3	< 3	< 3	N/A	N/A
	9/19/2019	< 3	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 3	N/A
	1/23/2020	N/A	N/A	N/A	< 3	N/A
	3/11/2020	< 3	< 3	< 3	< 3	< 3
	3/11/2020	N/A	< 3	N/A	N/A	N/A
	8/19/2020	< 3	< 3	< 3	< 3	N/A
	8/19/2020	N/A	N/A	N/A	< 3	N/A
	3/23/2021	< 3	< 3	< 3	< 3	< 3
	3/23/2021	< 3	N/A	N/A	N/A	N/A
	9/16/2021	< 3	< 3	< 3	< 3	N/A
	9/16/2021	N/A	< 3	N/A	N/A	N/A
	5/10/2022	< 3	< 3	< 3	< 3	N/A
	5/10/2022	N/A	N/A	< 3	N/A	N/A
	9/28/2022	< 3	< 3	< 3	< 3	N/A
	9/28/2022	N/A	N/A	N/A	< 3	N/A
	3/7/2023	< 3	< 3	< 3	< 3	N/A
	3/7/2023	N/A	N/A	N/A	< 3	N/A
	9/26/2023	< 3	< 3	< 3	< 3	N/A
	9/26/2023	< 3	N/A	N/A	N/A	N/A
	5/29/2024	< 3	< 3	< 3	< 3	< 3
	5/29/2024	N/A	< 3	N/A	N/A	N/A
	10/23/2024	< 3	< 3	< 3	< 3	N/A
	10/23/2024	N/A	< 3	N/A	N/A	N/A
cis-1,2-Dichloroethene, ug/L (CAS NO - 156-59-2)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 1	N/A	< 1	N/A	< 1
	10/12/2015	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	N/A	N/A	N/A
	6/21/2016	< 1	N/A	N/A	N/A	N/A
	9/23/2016	< 1	N/A	< 1	N/A	N/A
	9/23/2016	< 1	N/A	N/A	N/A	N/A
	3/21/2017	< 1	< 1	< 1	N/A	N/A
	3/21/2017	N/A	N/A	< 1	N/A	N/A

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Summary of Groundwater Chemistry

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
cis-1,2-Dichloroethene, ug/L (CAS NO - 156-59-2)	7/24/2017	< 1	< 1	< 1	N/A	N/A
	7/24/2017	< 1	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	N/A	N/A
	5/15/2018	< 1	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	N/A	N/A
	8/22/2018	< 1	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	N/A
	5/29/2019	N/A	N/A	< 1	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 1	N/A
	9/19/2019	< 1	< 1	< 1	N/A	N/A
	9/19/2019	< 1	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 1	N/A
	1/23/2020	N/A	N/A	N/A	< 1	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1
	3/11/2020	N/A	< 1	N/A	N/A	N/A
	8/19/2020	< 1	< 1	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1
	3/23/2021	< 1	N/A	N/A	N/A	N/A
	9/16/2021	< 1	< 1	< 1	< 1	N/A
	9/16/2021	N/A	< 1	N/A	N/A	N/A
	5/10/2022	< 1	< 1	< 1	< 1	N/A
	5/10/2022	N/A	N/A	< 1	N/A	N/A
	9/28/2022	< 1	< 1	< 1	< 1	N/A
	9/28/2022	N/A	N/A	N/A	< 1	N/A
	3/7/2023	< 1	< 1	< 1	< 1	N/A
	3/7/2023	N/A	N/A	N/A	< 1	N/A
	9/26/2023	< 1	< 1	< 1	< 1	N/A
	9/26/2023	< 1	N/A	N/A	N/A	N/A
	5/29/2024	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	< 1	N/A	N/A	N/A
	10/23/2024	< 1	< 1	< 1	< 1	N/A
	10/23/2024	N/A	< 1	N/A	N/A	N/A
cis-1,3-Dichloropropene, ug/L (CAS NO - 10061-01-5)	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 5	N/A	< 5	N/A	< 5
	10/12/2015	< 5	N/A	< 5	N/A	< 5
	4/12/2016	< 5	N/A	< 5	N/A	< 5
	4/12/2016	< 5	N/A	N/A	N/A	N/A
	6/21/2016	< 5	N/A	N/A	N/A	N/A
	9/23/2016	< 5	N/A	< 5	N/A	N/A
	9/23/2016	< 5	N/A	N/A	N/A	N/A
	3/21/2017	< 5	< 5	< 5	N/A	N/A
	3/21/2017	N/A	N/A	< 5	N/A	N/A
	7/24/2017	< 5	< 5	< 5	N/A	N/A
	7/24/2017	< 5	N/A	N/A	N/A	N/A
	5/15/2018	< 5	< 5	< 5	N/A	N/A
	5/15/2018	< 5	N/A	N/A	N/A	N/A
	8/22/2018	< 5	< 5	< 5	N/A	N/A
	8/22/2018	< 5	N/A	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
cis-1,3-Dichloropropene, ug/L (CAS NO - 10061-01-5)	5/29/2019	< 5	< 5	< 5	< 5	N/A
	5/29/2019	N/A	N/A	< 5	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 5	N/A
	9/19/2019	< 5	< 5	< 5	N/A	N/A
	9/19/2019	< 5	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 5	N/A
	1/23/2020	N/A	N/A	N/A	< 5	N/A
	3/11/2020	< 5	< 5	< 5	< 5	< 5
	3/11/2020	N/A	< 5	N/A	N/A	N/A
	8/19/2020	< 5	< 5	< 5	< 5	N/A
	8/19/2020	N/A	N/A	N/A	< 5	N/A
	3/23/2021	< 5	< 5	< 5	< 5	< 5
	3/23/2021	< 5	N/A	N/A	N/A	N/A
	9/16/2021	< 5	< 5	< 5	< 5	N/A
	9/16/2021	N/A	< 5	N/A	N/A	N/A
	5/10/2022	< 5	< 5	< 5	< 5	N/A
	5/10/2022	N/A	N/A	< 5	N/A	N/A
	9/28/2022	< 5	< 5	< 5	< 5	N/A
	9/28/2022	N/A	N/A	N/A	< 5	N/A
	3/7/2023	< 5	< 5	< 5	< 5	N/A
	3/7/2023	N/A	N/A	N/A	< 5	N/A
	9/26/2023	< 5	< 5	< 5	< 5	N/A
	9/26/2023	< 5	N/A	N/A	N/A	N/A
	5/29/2024	< 5	< 5	< 5	< 5	< 5
	5/29/2024	N/A	< 5	N/A	N/A	N/A
	10/23/2024	< 5	< 5	< 5	< 5	N/A
	10/23/2024	N/A	< 5	N/A	N/A	N/A
Ethylbenzene, ug/L (CAS NO - 100-41-4)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 1	N/A	< 1	N/A	< 1
	10/12/2015	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	N/A	N/A	N/A
	6/21/2016	< 1	N/A	N/A	N/A	N/A
	9/23/2016	< 1	N/A	< 1	N/A	N/A
	9/23/2016	< 1	N/A	N/A	N/A	N/A
	3/21/2017	< 1	< 1	< 1	N/A	N/A
	3/21/2017	N/A	N/A	< 1	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Ethylbenzene, ug/L (CAS NO - 100-41-4)	7/24/2017	< 1	< 1	< 1	N/A	N/A
	7/24/2017	< 1	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	N/A	N/A
	5/15/2018	< 1	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	N/A	N/A
	8/22/2018	< 1	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	0.388*	N/A
	5/29/2019	N/A	N/A	< 1	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 1	N/A
	9/19/2019	< 1	< 1	< 1	N/A	N/A
	9/19/2019	< 1	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 1	N/A
	1/23/2020	N/A	N/A	N/A	0.357*	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1
	3/11/2020	N/A	< 1	N/A	N/A	N/A
	8/19/2020	< 1	< 1	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1
	3/23/2021	< 1	N/A	N/A	N/A	N/A
	9/16/2021	< 1	< 1	< 1	< 1	N/A
	9/16/2021	N/A	< 1	N/A	N/A	N/A
	5/10/2022	< 1	< 1	< 1	< 1	N/A
	5/10/2022	N/A	N/A	< 1	N/A	N/A
	9/28/2022	< 1	< 1	< 1	< 1	N/A
	9/28/2022	N/A	N/A	N/A	< 1	N/A
	3/7/2023	< 1	< 1	< 1	< 1	N/A
	3/7/2023	N/A	N/A	N/A	< 1	N/A
	9/26/2023	< 1	< 1	< 1	< 1	N/A
	9/26/2023	< 1	N/A	N/A	N/A	N/A
	5/29/2024	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	< 1	N/A	N/A	N/A
	10/23/2024	< 1	< 1	< 1	< 1	N/A
	10/23/2024	N/A	< 1	N/A	N/A	N/A
Iodomethane, ug/L (CAS NO - 74-88-4)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 10	N/A	< 10	N/A	< 10
	10/12/2015	< 10	N/A	< 10	N/A	< 10

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Iodomethane, ug/L (CAS NO - 74-88-4)	4/12/2016	< 10	N/A	< 10	N/A	< 10
	4/12/2016	< 10	N/A	N/A	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	< 10	N/A	< 10	N/A	N/A
	9/23/2016	< 10	N/A	N/A	N/A	N/A
	3/21/2017	< 10	< 10	< 10	N/A	N/A
	3/21/2017	N/A	N/A	< 10	N/A	N/A
	7/24/2017	< 10	< 10	< 10	N/A	N/A
	7/24/2017	< 10	N/A	N/A	N/A	N/A
	5/15/2018	< 10	< 10	< 10	N/A	N/A
	5/15/2018	< 10	N/A	N/A	N/A	N/A
	8/22/2018	< 10	< 10	< 10	N/A	N/A
	8/22/2018	< 10	N/A	N/A	N/A	N/A
	5/29/2019	< 10	< 10	< 10	< 10	N/A
	5/29/2019	N/A	N/A	< 10	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 10	N/A
	9/19/2019	< 10	< 10	< 10	N/A	N/A
	9/19/2019	< 10	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 10	N/A
	1/23/2020	N/A	N/A	N/A	< 10	N/A
	3/11/2020	< 10	< 10	< 10	< 10	< 10
	3/11/2020	N/A	< 10	N/A	N/A	N/A
	8/19/2020	< 10	< 10	< 10	< 10	N/A
	8/19/2020	N/A	N/A	N/A	< 10	N/A
	3/23/2021	< 10	< 10	< 10	< 10	< 10
	3/23/2021	< 10	N/A	N/A	N/A	N/A
	9/16/2021	< 10	< 10	< 10	< 10	N/A
	9/16/2021	N/A	< 10	N/A	N/A	N/A
	5/10/2022	< 10	< 10	< 10	< 10	N/A
	5/10/2022	N/A	N/A	< 10	N/A	N/A
	9/28/2022	< 10	< 10	< 10	< 10	N/A
	9/28/2022	N/A	N/A	N/A	< 10	N/A
	3/7/2023	< 10	< 10	< 10	< 10	N/A
	3/7/2023	N/A	N/A	N/A	< 10	N/A
	9/26/2023	< 10	< 10	< 10	< 10	N/A
	9/26/2023	< 10	N/A	N/A	N/A	N/A
	5/29/2024	< 10	< 10	< 10	< 10	< 10
	5/29/2024	N/A	< 10	N/A	N/A	N/A
	10/23/2024	< 10	< 10	< 10	< 10	N/A
	10/23/2024	N/A	< 10	N/A	N/A	N/A
Methylene Bromide, ug/L (CAS NO - 74-95-3)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Methylene Bromide, ug/L (CAS NO - 74-95-3)	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 1	N/A	< 1	N/A	< 1
	10/12/2015	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	N/A	N/A	N/A
	6/21/2016	< 1	N/A	N/A	N/A	N/A
	9/23/2016	< 1	N/A	< 1	N/A	N/A
	9/23/2016	< 1	N/A	N/A	N/A	N/A
	3/21/2017	< 1	< 1	< 1	N/A	N/A
	3/21/2017	N/A	N/A	< 1	N/A	N/A
	7/24/2017	< 1	< 1	< 1	N/A	N/A
	7/24/2017	< 1	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	N/A	N/A
	5/15/2018	< 1	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	N/A	N/A
	8/22/2018	< 1	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	N/A
	5/29/2019	N/A	N/A	< 1	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 1	N/A
	9/19/2019	< 1	< 1	< 1	N/A	N/A
	9/19/2019	< 1	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 1	N/A
	1/23/2020	N/A	N/A	N/A	< 1	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1
	3/11/2020	N/A	< 1	N/A	N/A	N/A
	8/19/2020	< 1	< 1	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1
	3/23/2021	< 1	N/A	N/A	N/A	N/A
	9/16/2021	< 1	< 1	< 1	< 1	N/A
	9/16/2021	N/A	< 1	N/A	N/A	N/A
	5/10/2022	< 1	< 1	< 1	< 1	N/A
	5/10/2022	N/A	N/A	< 1	N/A	N/A
	9/28/2022	< 1	< 1	< 1	< 1	N/A
	9/28/2022	N/A	N/A	N/A	< 1	N/A
	3/7/2023	< 1	< 1	< 1	< 1	N/A
	3/7/2023	N/A	N/A	N/A	< 1	N/A
	9/26/2023	< 1	< 1	< 1	< 1	N/A
	9/26/2023	< 1	N/A	N/A	N/A	N/A
	5/29/2024	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	< 1	N/A	N/A	N/A
	10/23/2024	< 1	< 1	< 1	< 1	N/A
	10/23/2024	N/A	< 1	N/A	N/A	N/A
Methylene Chloride, ug/L (CAS NO - 75-09-2)	2/21/2008	< 10	N/A	N/A	N/A	N/A
	4/17/2008	< 10	< 10	N/A	N/A	N/A
	6/19/2008	< 10	< 10	N/A	N/A	N/A
	8/7/2008	< 10	< 10	N/A	N/A	N/A
	10/1/2008	< 10	< 10	N/A	N/A	N/A
	12/2/2008	< 10	< 10	N/A	N/A	N/A
	4/15/2009	< 10	< 10	N/A	N/A	N/A
	10/19/2009	< 10	< 10	< 10	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Methylene Chloride, ug/L (CAS NO - 75-09-2)	5/20/2010	< 10	< 10	< 10	N/A	N/A
	10/1/2010	< 10	< 10	< 10	N/A	N/A
	4/29/2011	< 10	< 10	< 10	N/A	N/A
	9/28/2011	< 10	< 10	< 10	N/A	N/A
	4/26/2012	< 5	< 5	< 5	N/A	N/A
	10/24/2012	< 5	< 5	< 5	N/A	N/A
	5/7/2013	< 5	< 5	< 5	N/A	N/A
	10/18/2013	< 5	< 5	< 5	N/A	N/A
	3/25/2014	< 5	< 5	< 5	N/A	N/A
	9/30/2014	< 5	< 5	< 5	N/A	N/A
	4/15/2015	0.19*	N/A	0.259*	N/A	< 5
	10/12/2015	< 5	N/A	< 5	N/A	< 5
	4/12/2016	< 5	N/A	< 5	N/A	< 5
	4/12/2016	< 5	N/A	N/A	N/A	N/A
	6/21/2016	0.281*	N/A	N/A	N/A	N/A
	9/23/2016	< 5	N/A	< 5	N/A	N/A
	9/23/2016	< 5	N/A	N/A	N/A	N/A
	3/21/2017	< 5	< 5	< 5	N/A	N/A
	3/21/2017	N/A	N/A	< 5	N/A	N/A
	7/24/2017	0.185*	< 5	< 5	N/A	N/A
	7/24/2017	< 5	N/A	N/A	N/A	N/A
	5/15/2018	< 5	< 5	< 5	N/A	N/A
	5/15/2018	< 5	N/A	N/A	N/A	N/A
	8/22/2018	< 5	< 5	< 5	N/A	N/A
	8/22/2018	< 5	N/A	N/A	N/A	N/A
	5/29/2019	< 5	< 5	< 5	< 5	N/A
	5/29/2019	N/A	N/A	< 5	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 5	N/A
	9/19/2019	< 5	< 5	< 5	N/A	N/A
	9/19/2019	< 5	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 5	N/A
	1/23/2020	N/A	N/A	N/A	< 5	N/A
	3/11/2020	< 5	< 5	< 5	< 5	< 5
	3/11/2020	N/A	< 5	N/A	N/A	N/A
	8/19/2020	< 5	< 5	< 5	< 5	N/A
	8/19/2020	N/A	N/A	N/A	< 5	N/A
	3/23/2021	< 5	< 5	< 5	< 5	< 5
	3/23/2021	< 5	N/A	N/A	N/A	N/A
	9/16/2021	< 5	< 5	< 5	< 5	N/A
	9/16/2021	N/A	< 5	N/A	N/A	N/A
	5/10/2022	< 5	< 5	< 5	< 5	N/A
	5/10/2022	N/A	N/A	< 5	N/A	N/A
	9/28/2022	< 5	< 5	< 5	< 5	N/A
	9/28/2022	N/A	N/A	N/A	< 5	N/A
	3/7/2023	< 5	< 5	< 5	< 5	N/A
	3/7/2023	N/A	N/A	N/A	< 5	N/A
	9/26/2023	< 5	< 5	< 5	< 5	N/A
	9/26/2023	< 5	N/A	N/A	N/A	N/A
	5/29/2024	< 5	< 5	< 5	< 5	< 5
	5/29/2024	N/A	< 5	N/A	N/A	N/A
	10/23/2024	< 5	< 5	< 5	< 5	N/A
	10/23/2024	N/A	< 5	N/A	N/A	N/A
Styrene, ug/L (CAS NO - 100-42-5)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Styrene, ug/L (CAS NO - 100-42-5)	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 1	N/A	< 1	N/A	< 1
	10/12/2015	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	N/A	N/A	N/A
	6/21/2016	< 1	N/A	N/A	N/A	N/A
	9/23/2016	< 1	N/A	< 1	N/A	N/A
	9/23/2016	< 1	N/A	N/A	N/A	N/A
	3/21/2017	< 1	< 1	< 1	N/A	N/A
	3/21/2017	N/A	N/A	< 1	N/A	N/A
	7/24/2017	< 1	< 1	< 1	N/A	N/A
	7/24/2017	< 1	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	N/A	N/A
	5/15/2018	< 1	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	N/A	N/A
	8/22/2018	< 1	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	N/A
	5/29/2019	N/A	N/A	< 1	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 1	N/A
	9/19/2019	< 1	< 1	< 1	N/A	N/A
	9/19/2019	< 1	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 1	N/A
	1/23/2020	N/A	N/A	N/A	< 1	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1
	3/11/2020	N/A	< 1	N/A	N/A	N/A
	8/19/2020	< 1	< 1	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1
	3/23/2021	< 1	N/A	N/A	N/A	N/A
	9/16/2021	< 1	< 1	< 1	< 1	N/A
	9/16/2021	N/A	< 1	N/A	N/A	N/A
	5/10/2022	< 1	< 1	< 1	< 1	N/A
	5/10/2022	N/A	N/A	< 1	N/A	N/A
	9/28/2022	< 1	< 1	< 1	< 1	N/A
	9/28/2022	N/A	N/A	N/A	< 1	N/A
	3/7/2023	< 1	< 1	< 1	< 1	N/A
	3/7/2023	N/A	N/A	N/A	< 1	N/A
	9/26/2023	< 1	< 1	< 1	< 1	N/A
	9/26/2023	< 1	N/A	N/A	N/A	N/A

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Cherokee County Solid Waste Commission - 18-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Styrene, ug/L (CAS NO - 100-42-5)	5/29/2024	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	< 1	N/A	N/A	N/A
	10/23/2024	< 1	< 1	< 1	< 1	N/A
	10/23/2024	N/A	< 1	N/A	N/A	N/A
Tetrachloroethene, ug/L (CAS NO - 127-18-4)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 1	N/A	< 1	N/A	< 1
	10/12/2015	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	N/A	N/A	N/A
	6/21/2016	< 1	N/A	N/A	N/A	N/A
	9/23/2016	< 1	N/A	< 1	N/A	N/A
	9/23/2016	< 1	N/A	N/A	N/A	N/A
	3/21/2017	< 1	0.208*	0.2*	N/A	N/A
	3/21/2017	N/A	N/A	0.189*	N/A	N/A
	7/24/2017	< 1	< 1	< 1	N/A	N/A
	7/24/2017	< 1	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	N/A	N/A
	5/15/2018	< 1	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	N/A	N/A
	8/22/2018	< 1	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	N/A
	5/29/2019	N/A	N/A	< 1	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 1	N/A
	9/19/2019	< 1	< 1	< 1	N/A	N/A
	9/19/2019	< 1	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 1	N/A
	1/23/2020	N/A	N/A	N/A	< 1	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1
	3/11/2020	N/A	< 1	N/A	N/A	N/A
	8/19/2020	< 1	< 1	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1
	3/23/2021	< 1	N/A	N/A	N/A	N/A
	9/16/2021	< 1	< 1	< 1	< 1	N/A
	9/16/2021	N/A	< 1	N/A	N/A	N/A
	5/10/2022	< 1	< 1	< 1	< 1	N/A
	5/10/2022	N/A	N/A	< 1	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Tetrachloroethene, ug/L (CAS NO - 127-18-4)	9/28/2022	< 1	< 1	< 1	< 1	N/A
	9/28/2022	N/A	N/A	N/A	< 1	N/A
	3/7/2023	< 1	< 1	< 1	< 1	N/A
	3/7/2023	N/A	N/A	N/A	< 1	N/A
	9/26/2023	< 1	< 1	< 1	< 1	N/A
	9/26/2023	< 1	N/A	N/A	N/A	N/A
	5/29/2024	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	< 1	N/A	N/A	N/A
	10/23/2024	< 1	< 1	< 1	< 1	N/A
	10/23/2024	N/A	< 1	N/A	N/A	N/A
Toluene, ug/L (CAS NO - 108-88-3)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 1	N/A	< 1	N/A	< 1
	10/12/2015	< 1	N/A	< 1	N/A	**10.4**
	4/12/2016	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	N/A	N/A	N/A
	6/21/2016	< 1	N/A	N/A	N/A	N/A
	9/23/2016	< 1	N/A	< 1	N/A	N/A
	9/23/2016	< 1	N/A	N/A	N/A	N/A
	3/21/2017	< 1	< 1	< 1	N/A	N/A
	3/21/2017	N/A	N/A	< 1	N/A	N/A
	7/24/2017	< 1	< 1	< 1	N/A	N/A
	7/24/2017	< 1	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	N/A	N/A
	5/15/2018	< 1	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	N/A	N/A
	8/22/2018	< 1	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	N/A
	5/29/2019	N/A	N/A	< 1	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 1	N/A
	9/19/2019	< 1	< 1	< 1	N/A	N/A
	9/19/2019	< 1	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 1	N/A
	1/23/2020	N/A	N/A	N/A	**1.26**	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1
	3/11/2020	N/A	< 1	N/A	N/A	N/A
	8/19/2020	< 1	< 1	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Toluene, ug/L (CAS NO - 108-88-3)	3/23/2021	< 1	< 1	< 1	< 1	< 1
	3/23/2021	< 1	N/A	N/A	N/A	N/A
	9/16/2021	< 1	< 1	< 1	< 1	N/A
	9/16/2021	N/A	< 1	N/A	N/A	N/A
	5/10/2022	< 1	< 1	< 1	< 1	N/A
	5/10/2022	N/A	N/A	< 1	N/A	N/A
	9/28/2022	< 1	< 1	< 1	< 1	N/A
	9/28/2022	N/A	N/A	N/A	< 1	N/A
	3/7/2023	< 1	< 1	< 1	< 1	N/A
	3/7/2023	N/A	N/A	N/A	< 1	N/A
	9/26/2023	< 1	< 1	< 1	< 1	N/A
	9/26/2023	< 1	N/A	N/A	N/A	N/A
	5/29/2024	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	< 1	N/A	N/A	N/A
	10/23/2024	< 1	< 1	< 1	< 1	N/A
	10/23/2024	N/A	< 1	N/A	N/A	N/A
trans-1,2-Dichloroethene, ug/L (CAS NO - 156-60-5)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 1	N/A	< 1	N/A	< 1
	10/12/2015	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	N/A	N/A	N/A
	6/21/2016	< 1	N/A	N/A	N/A	N/A
	9/23/2016	< 1	N/A	< 1	N/A	N/A
	9/23/2016	< 1	N/A	N/A	N/A	N/A
	3/21/2017	< 1	< 1	< 1	N/A	N/A
	3/21/2017	N/A	N/A	< 1	N/A	N/A
	7/24/2017	< 1	< 1	< 1	N/A	N/A
	7/24/2017	< 1	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	N/A	N/A
	5/15/2018	< 1	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	N/A	N/A
	8/22/2018	< 1	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	N/A
	5/29/2019	N/A	N/A	< 1	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 1	N/A
	9/19/2019	< 1	< 1	< 1	N/A	N/A
	9/19/2019	< 1	N/A	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
trans-1,2-Dichloroethene, ug/L (CAS NO - 156-60-5)	10/10/2019	N/A	N/A	N/A	< 1	N/A
	1/23/2020	N/A	N/A	N/A	< 1	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1
	3/11/2020	N/A	< 1	N/A	N/A	N/A
	8/19/2020	< 1	< 1	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1
	3/23/2021	< 1	N/A	N/A	N/A	N/A
	9/16/2021	< 1	< 1	< 1	< 1	N/A
	9/16/2021	N/A	< 1	N/A	N/A	N/A
	5/10/2022	< 1	< 1	< 1	< 1	N/A
	5/10/2022	N/A	N/A	< 1	N/A	N/A
	9/28/2022	< 1	< 1	< 1	< 1	N/A
	9/28/2022	N/A	N/A	N/A	< 1	N/A
	3/7/2023	< 1	< 1	< 1	< 1	N/A
	3/7/2023	N/A	N/A	N/A	< 1	N/A
	9/26/2023	< 1	< 1	< 1	< 1	N/A
	9/26/2023	< 1	N/A	N/A	N/A	N/A
	5/29/2024	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	< 1	N/A	N/A	N/A
	10/23/2024	< 1	< 1	< 1	< 1	N/A
	10/23/2024	N/A	< 1	N/A	N/A	N/A
trans-1,3-Dichloropropene, ug/L (CAS NO - 10061-02-6)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 5	N/A	< 5	N/A	< 5
	10/12/2015	< 5	N/A	< 5	N/A	< 5
	4/12/2016	< 5	N/A	< 5	N/A	< 5
	4/12/2016	< 5	N/A	N/A	N/A	N/A
	6/21/2016	< 5	N/A	N/A	N/A	N/A
	9/23/2016	< 5	N/A	< 5	N/A	N/A
	9/23/2016	< 5	N/A	N/A	N/A	N/A
	3/21/2017	< 5	< 5	< 5	N/A	N/A
	3/21/2017	N/A	N/A	< 5	N/A	N/A
	7/24/2017	< 5	< 5	< 5	N/A	N/A
	7/24/2017	< 5	N/A	N/A	N/A	N/A
	5/15/2018	< 5	< 5	< 5	N/A	N/A
	5/15/2018	< 5	N/A	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
trans-1,3-Dichloropropene, ug/L (CAS NO - 10061-02-6)	8/22/2018	< 5	< 5	< 5	N/A	N/A
	8/22/2018	< 5	N/A	N/A	N/A	N/A
	5/29/2019	< 5	< 5	< 5	< 5	N/A
	5/29/2019	N/A	N/A	< 5	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 5	N/A
	9/19/2019	< 5	< 5	< 5	N/A	N/A
	9/19/2019	< 5	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 5	N/A
	1/23/2020	N/A	N/A	N/A	< 5	N/A
	3/11/2020	< 5	< 5	< 5	< 5	< 5
	3/11/2020	N/A	< 5	N/A	N/A	N/A
	8/19/2020	< 5	< 5	< 5	< 5	N/A
	8/19/2020	N/A	N/A	N/A	< 5	N/A
	3/23/2021	< 5	< 5	< 5	< 5	< 5
	3/23/2021	< 5	N/A	N/A	N/A	N/A
	9/16/2021	< 5	< 5	< 5	< 5	N/A
	9/16/2021	N/A	< 5	N/A	N/A	N/A
	5/10/2022	< 5	< 5	< 5	< 5	N/A
	5/10/2022	N/A	N/A	< 5	N/A	N/A
	9/28/2022	< 5	< 5	< 5	< 5	N/A
	9/28/2022	N/A	N/A	N/A	< 5	N/A
	3/7/2023	< 5	< 5	< 5	< 5	N/A
	3/7/2023	N/A	N/A	N/A	< 5	N/A
	9/26/2023	< 5	< 5	< 5	< 5	N/A
	9/26/2023	< 5	N/A	N/A	N/A	N/A
	5/29/2024	< 5	< 5	< 5	< 5	< 5
	5/29/2024	N/A	< 5	N/A	N/A	N/A
	10/23/2024	< 5	< 5	< 5	< 5	N/A
	10/23/2024	N/A	< 5	N/A	N/A	N/A
trans-1,4-Dichloro-2-Butene, ug/L (CAS NO - 110-57-6)	2/21/2008	< 20	N/A	N/A	N/A	N/A
	4/17/2008	< 20	< 20	N/A	N/A	N/A
	6/19/2008	< 20	< 20	N/A	N/A	N/A
	8/7/2008	< 20	< 20	N/A	N/A	N/A
	10/1/2008	< 20	< 20	N/A	N/A	N/A
	12/2/2008	< 20	< 20	N/A	N/A	N/A
	4/15/2009	< 20	< 20	N/A	N/A	N/A
	10/19/2009	< 20	< 20	< 20	N/A	N/A
	5/20/2010	< 20	< 20	< 20	N/A	N/A
	10/1/2010	< 20	< 20	< 20	N/A	N/A
	4/29/2011	< 20	< 20	< 20	N/A	N/A
	9/28/2011	< 20	< 20	< 20	N/A	N/A
	4/26/2012	< 5	< 5	< 5	N/A	N/A
	10/24/2012	< 5	< 5	< 5	N/A	N/A
	5/7/2013	< 5	< 5	< 5	N/A	N/A
	10/18/2013	< 5	< 5	< 5	N/A	N/A
	3/25/2014	< 5	< 5	< 5	N/A	N/A
	9/30/2014	< 5	< 5	< 5	N/A	N/A
	4/15/2015	< 10	N/A	< 10	N/A	< 10
	10/12/2015	< 10	N/A	< 10	N/A	< 10
	4/12/2016	< 10	N/A	< 10	N/A	< 10
	4/12/2016	< 10	N/A	N/A	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	< 10	N/A	< 10	N/A	N/A
	9/23/2016	< 10	N/A	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
trans-1,4-Dichloro-2-Butene, ug/L (CAS NO - 110-57-6)	3/21/2017	< 10	< 10	< 10	N/A	N/A
	3/21/2017	N/A	N/A	< 10	N/A	N/A
	7/24/2017	< 10	< 10	< 10	N/A	N/A
	7/24/2017	< 10	N/A	N/A	N/A	N/A
	5/15/2018	< 10	< 10	< 10	N/A	N/A
	5/15/2018	< 10	N/A	N/A	N/A	N/A
	8/22/2018	< 10	< 10	< 10	N/A	N/A
	8/22/2018	< 10	N/A	N/A	N/A	N/A
	5/29/2019	< 10	< 10	< 10	< 10	N/A
	5/29/2019	N/A	N/A	< 10	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 10	N/A
	9/19/2019	< 10	< 10	< 10	N/A	N/A
	9/19/2019	< 10	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 10	N/A
	1/23/2020	N/A	N/A	N/A	< 10	N/A
	3/11/2020	< 10	< 10	< 10	< 10	< 10
	3/11/2020	N/A	< 10	N/A	N/A	N/A
	8/19/2020	< 10	< 10	< 10	< 10	N/A
	8/19/2020	N/A	N/A	N/A	< 10	N/A
	3/23/2021	< 10	< 10	< 10	< 10	< 10
	3/23/2021	< 10	N/A	N/A	N/A	N/A
	9/16/2021	< 10	< 10	< 10	< 10	N/A
	9/16/2021	N/A	< 10	N/A	N/A	N/A
	5/10/2022	< 10	< 10	< 10	< 10	N/A
	5/10/2022	N/A	N/A	< 10	N/A	N/A
	9/28/2022	< 10	< 10	< 10	< 10	N/A
	9/28/2022	N/A	N/A	N/A	< 10	N/A
	3/7/2023	< 10	< 10	< 10	< 10	N/A
	3/7/2023	N/A	N/A	N/A	< 10	N/A
	9/26/2023	< 10	< 10	< 10	< 10	N/A
	9/26/2023	< 10	N/A	N/A	N/A	N/A
	5/29/2024	< 10	< 10	< 10	< 10	< 10
	5/29/2024	N/A	< 10	N/A	N/A	N/A
	10/23/2024	< 10	< 10	< 10	< 10	N/A
	10/23/2024	N/A	< 10	N/A	N/A	N/A
Trichloroethene, ug/L (CAS NO - 79-01-6)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 1	N/A	< 1	N/A	< 1

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Trichloroethene, ug/L (CAS NO - 79-01-6)	10/12/2015	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	N/A	N/A	N/A
	6/21/2016	< 1	N/A	N/A	N/A	N/A
	9/23/2016	< 1	N/A	< 1	N/A	N/A
	9/23/2016	< 1	N/A	N/A	N/A	N/A
	3/21/2017	< 1	< 1	< 1	N/A	N/A
	3/21/2017	N/A	N/A	< 1	N/A	N/A
	7/24/2017	< 1	< 1	< 1	N/A	N/A
	7/24/2017	< 1	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	N/A	N/A
	5/15/2018	< 1	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	N/A	N/A
	8/22/2018	< 1	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	N/A
	5/29/2019	N/A	N/A	< 1	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 1	N/A
	9/19/2019	< 1	< 1	< 1	N/A	N/A
	9/19/2019	< 1	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 1	N/A
	1/23/2020	N/A	N/A	N/A	< 1	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1
	3/11/2020	N/A	< 1	N/A	N/A	N/A
	8/19/2020	< 1	< 1	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1
	3/23/2021	< 1	N/A	N/A	N/A	N/A
	9/16/2021	< 1	< 1	< 1	< 1	N/A
	9/16/2021	N/A	< 1	N/A	N/A	N/A
	5/10/2022	< 1	< 1	< 1	< 1	N/A
	5/10/2022	N/A	N/A	< 1	N/A	N/A
	9/28/2022	< 1	< 1	< 1	< 1	N/A
	9/28/2022	N/A	N/A	N/A	< 1	N/A
	3/7/2023	< 1	< 1	< 1	< 1	N/A
	3/7/2023	N/A	N/A	N/A	< 1	N/A
	9/26/2023	< 1	< 1	< 1	< 1	N/A
	9/26/2023	< 1	N/A	N/A	N/A	N/A
	5/29/2024	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	< 1	N/A	N/A	N/A
	10/23/2024	< 1	< 1	< 1	< 1	N/A
	10/23/2024	N/A	< 1	N/A	N/A	N/A
Trichlorofluoromethane, ug/L (CAS NO - 75-69-4)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Trichlorofluoromethane, ug/L (CAS NO - 75-69-4)	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 4	N/A	< 4	N/A	< 4
	10/12/2015	< 4	N/A	< 4	N/A	< 4
	4/12/2016	< 4	N/A	< 4	N/A	< 4
	4/12/2016	< 4	N/A	N/A	N/A	N/A
	6/21/2016	< 4	N/A	N/A	N/A	N/A
	9/23/2016	< 4	N/A	< 4	N/A	N/A
	9/23/2016	< 4	N/A	N/A	N/A	N/A
	3/21/2017	< 4	< 4	< 4	N/A	N/A
	3/21/2017	N/A	N/A	< 4	N/A	N/A
	7/24/2017	< 4	< 4	< 4	N/A	N/A
	7/24/2017	< 4	N/A	N/A	N/A	N/A
	5/15/2018	< 4	< 4	< 4	N/A	N/A
	5/15/2018	< 4	N/A	N/A	N/A	N/A
	8/22/2018	< 4	< 4	< 4	N/A	N/A
	8/22/2018	< 4	N/A	N/A	N/A	N/A
	5/29/2019	< 4	< 4	< 4	< 4	N/A
	5/29/2019	N/A	N/A	< 4	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 4	N/A
	9/19/2019	< 4	< 4	< 4	N/A	N/A
	9/19/2019	< 4	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 4	N/A
	1/23/2020	N/A	N/A	N/A	< 4	N/A
	3/11/2020	< 4	< 4	< 4	< 4	< 4
	3/11/2020	N/A	< 4	N/A	N/A	N/A
	8/19/2020	< 4	< 4	< 4	< 4	N/A
	8/19/2020	N/A	N/A	N/A	< 4	N/A
	3/23/2021	< 4	< 4	< 4	< 4	< 4
	3/23/2021	< 4	N/A	N/A	N/A	N/A
	9/16/2021	< 4	< 4	< 4	< 4	N/A
	9/16/2021	N/A	< 4	N/A	N/A	N/A
	5/10/2022	< 4	< 4	< 4	< 4	N/A
	5/10/2022	N/A	N/A	< 4	N/A	N/A
	9/28/2022	< 4	< 4	< 4	< 4	N/A
	9/28/2022	N/A	N/A	N/A	< 4	N/A
	3/7/2023	< 4	< 4	< 4	< 4	N/A
	3/7/2023	N/A	N/A	N/A	< 4	N/A
	9/26/2023	< 4	< 4	< 4	< 4	N/A
	9/26/2023	< 4	N/A	N/A	N/A	N/A
	5/29/2024	< 4	< 4	< 4	< 4	< 4
	5/29/2024	N/A	< 4	N/A	N/A	N/A
	10/23/2024	< 4	< 4	< 4	< 4	N/A
	10/23/2024	N/A	< 4	N/A	N/A	N/A
Vinyl Acetate, ug/L (CAS NO - 108-05-4)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Vinyl Acetate, ug/L (CAS NO - 108-05-4)	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 5	< 5	< 5	N/A	N/A
	10/24/2012	< 5	< 5	< 5	N/A	N/A
	5/7/2013	< 5	< 5	< 5	N/A	N/A
	10/18/2013	< 5	< 5	< 5	N/A	N/A
	3/25/2014	< 5	< 5	< 5	N/A	N/A
	9/30/2014	< 5	< 5	< 5	N/A	N/A
	4/15/2015	< 10	N/A	< 10	N/A	< 10
	10/12/2015	< 10	N/A	< 10	N/A	< 10
	4/12/2016	< 10	N/A	< 10	N/A	< 10
	4/12/2016	< 10	N/A	N/A	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	< 10	N/A	< 10	N/A	N/A
	9/23/2016	< 10	N/A	N/A	N/A	N/A
	3/21/2017	< 10	< 10	< 10	N/A	N/A
	3/21/2017	N/A	N/A	< 10	N/A	N/A
	7/24/2017	< 10	< 10	< 10	N/A	N/A
	7/24/2017	< 10	N/A	N/A	N/A	N/A
	5/15/2018	< 10	< 10	< 10	N/A	N/A
	5/15/2018	< 10	N/A	N/A	N/A	N/A
	8/22/2018	< 10	< 10	< 10	N/A	N/A
	8/22/2018	< 10	N/A	N/A	N/A	N/A
	5/29/2019	< 10	< 10	< 10	< 10	N/A
	5/29/2019	N/A	N/A	< 10	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 10	N/A
	9/19/2019	< 10	< 10	< 10	N/A	N/A
	9/19/2019	< 10	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 10	N/A
	1/23/2020	N/A	N/A	N/A	< 10	N/A
	3/11/2020	< 10	< 10	< 10	< 10	< 10
	3/11/2020	N/A	< 10	N/A	N/A	N/A
	8/19/2020	< 10	< 10	< 10	< 10	N/A
	8/19/2020	N/A	N/A	N/A	< 10	N/A
	3/23/2021	< 10	< 10	< 10	< 10	< 10
	3/23/2021	< 10	N/A	N/A	N/A	N/A
	9/16/2021	< 10	< 10	< 10	< 10	N/A
	9/16/2021	N/A	< 10	N/A	N/A	N/A
	5/10/2022	< 10	< 10	< 10	< 10	N/A
	5/10/2022	N/A	N/A	< 10	N/A	N/A
	9/28/2022	< 10	< 10	< 10	< 10	N/A
	9/28/2022	N/A	N/A	N/A	< 10	N/A
	3/7/2023	< 10	< 10	< 10	< 10	N/A
	3/7/2023	N/A	N/A	N/A	< 10	N/A
	9/26/2023	< 10	< 10	< 10	< 10	N/A
	9/26/2023	< 10	N/A	N/A	N/A	N/A
	5/29/2024	< 10	< 10	< 10	< 10	< 10
	5/29/2024	N/A	< 10	N/A	N/A	N/A
	10/23/2024	< 10	< 10	< 10	< 10	N/A
	10/23/2024	N/A	< 10	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Vinyl Chloride, ug/L (CAS NO - 75-01-4)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 1	< 1	< 1	N/A	N/A
	10/24/2012	< 1	< 1	< 1	N/A	N/A
	5/7/2013	< 1	< 1	< 1	N/A	N/A
	10/18/2013	< 1	< 1	< 1	N/A	N/A
	3/25/2014	< 1	< 1	< 1	N/A	N/A
	9/30/2014	< 1	< 1	< 1	N/A	N/A
	4/15/2015	< 1	N/A	< 1	N/A	< 1
	10/12/2015	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	< 1	N/A	< 1
	4/12/2016	< 1	N/A	N/A	N/A	N/A
	6/21/2016	< 1	N/A	N/A	N/A	N/A
	9/23/2016	< 1	N/A	< 1	N/A	N/A
	9/23/2016	< 1	N/A	N/A	N/A	N/A
	3/21/2017	< 1	< 1	< 1	N/A	N/A
	3/21/2017	N/A	N/A	< 1	N/A	N/A
	7/24/2017	< 1	< 1	< 1	N/A	N/A
	7/24/2017	< 1	N/A	N/A	N/A	N/A
	5/15/2018	< 1	< 1	< 1	N/A	N/A
	5/15/2018	< 1	N/A	N/A	N/A	N/A
	8/22/2018	< 1	< 1	< 1	N/A	N/A
	8/22/2018	< 1	N/A	N/A	N/A	N/A
	5/29/2019	< 1	< 1	< 1	< 1	N/A
	5/29/2019	N/A	N/A	< 1	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 1	N/A
	9/19/2019	< 1	< 1	< 1	N/A	N/A
	9/19/2019	< 1	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 1	N/A
	1/23/2020	N/A	N/A	N/A	< 1	N/A
	3/11/2020	< 1	< 1	< 1	< 1	< 1
	3/11/2020	N/A	< 1	N/A	N/A	N/A
	8/19/2020	< 1	< 1	< 1	< 1	N/A
	8/19/2020	N/A	N/A	N/A	< 1	N/A
	3/23/2021	< 1	< 1	< 1	< 1	< 1
	3/23/2021	< 1	N/A	N/A	N/A	N/A
	9/16/2021	< 1	< 1	< 1	< 1	N/A
	9/16/2021	N/A	< 1	N/A	N/A	N/A
	5/10/2022	< 1	< 1	< 1	< 1	N/A
	5/10/2022	N/A	N/A	< 1	N/A	N/A
	9/28/2022	< 1	< 1	< 1	< 1	N/A
	9/28/2022	N/A	N/A	N/A	< 1	N/A
	3/7/2023	< 1	< 1	< 1	< 1	N/A
	3/7/2023	N/A	N/A	N/A	< 1	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Vinyl Chloride, ug/L (CAS NO - 75-01-4)	9/26/2023	< 1	< 1	< 1	< 1	N/A
	9/26/2023	< 1	N/A	N/A	N/A	N/A
	5/29/2024	< 1	< 1	< 1	< 1	< 1
	5/29/2024	N/A	< 1	N/A	N/A	N/A
	10/23/2024	< 1	< 1	< 1	< 1	N/A
	10/23/2024	N/A	< 1	N/A	N/A	N/A
Xylenes, total, ug/L (CAS NO - 1330-20-7)	2/21/2008	< 5	N/A	N/A	N/A	N/A
	4/17/2008	< 5	< 5	N/A	N/A	N/A
	6/19/2008	< 5	< 5	N/A	N/A	N/A
	8/7/2008	< 5	< 5	N/A	N/A	N/A
	10/1/2008	< 5	< 5	N/A	N/A	N/A
	12/2/2008	< 5	< 5	N/A	N/A	N/A
	4/15/2009	< 5	< 5	N/A	N/A	N/A
	10/19/2009	< 5	< 5	< 5	N/A	N/A
	5/20/2010	< 5	< 5	< 5	N/A	N/A
	10/1/2010	< 5	< 5	< 5	N/A	N/A
	4/29/2011	< 5	< 5	< 5	N/A	N/A
	9/28/2011	< 5	< 5	< 5	N/A	N/A
	4/26/2012	< 2	< 2	< 2	N/A	N/A
	10/24/2012	< 2	< 2	< 2	N/A	N/A
	5/7/2013	< 2	< 2	< 2	N/A	N/A
	10/18/2013	< 2	< 2	< 2	N/A	N/A
	3/25/2014	< 2	< 2	< 2	N/A	N/A
	9/30/2014	< 2	< 2	< 2	N/A	N/A
	4/15/2015	< 3	N/A	< 3	N/A	< 3
	10/12/2015	< 3	N/A	< 3	N/A	< 3
	4/12/2016	< 3	N/A	< 3	N/A	< 3
	4/12/2016	< 3	N/A	N/A	N/A	N/A
	6/21/2016	< 3	N/A	N/A	N/A	N/A
	9/23/2016	< 3	N/A	< 3	N/A	N/A
	9/23/2016	< 3	N/A	N/A	N/A	N/A
	3/21/2017	< 3	< 3	0.158*	N/A	N/A
	3/21/2017	N/A	N/A	0.187*	N/A	N/A
	7/24/2017	< 3	< 3	< 3	N/A	N/A
	7/24/2017	< 3	N/A	N/A	N/A	N/A
	5/15/2018	< 3	< 3	< 3	N/A	N/A
	5/15/2018	< 3	N/A	N/A	N/A	N/A
	8/22/2018	< 3	< 3	< 3	N/A	N/A
	8/22/2018	< 3	N/A	N/A	N/A	N/A
	5/29/2019	< 3	< 3	< 3	< 3	N/A
	5/29/2019	N/A	N/A	< 3	N/A	N/A
	8/1/2019	N/A	N/A	N/A	< 3	N/A
	9/19/2019	< 3	< 3	< 3	N/A	N/A
	9/19/2019	< 3	N/A	N/A	N/A	N/A
	10/10/2019	N/A	N/A	N/A	< 3	N/A
	1/23/2020	N/A	N/A	N/A	2.25*	N/A
	3/11/2020	< 3	< 3	< 3	0.645*	< 3
	3/11/2020	N/A	< 3	N/A	N/A	N/A
	8/19/2020	< 3	< 3	< 3	< 3	N/A
	8/19/2020	N/A	N/A	N/A	< 3	N/A
	3/23/2021	< 3	< 3	< 3	< 3	< 3
	3/23/2021	< 3	N/A	N/A	N/A	N/A
	9/16/2021	< 3	< 3	< 3	< 3	N/A
	9/16/2021	N/A	< 3	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Xylenes, total, ug/L (CAS NO - 1330-20-7)	5/10/2022	< 3	< 3	< 3	< 3	N/A
	5/10/2022	N/A	N/A	< 3	N/A	N/A
	9/28/2022	< 3	< 3	< 3	< 3	N/A
	9/28/2022	N/A	N/A	N/A	< 3	N/A
	3/7/2023	< 3	< 3	< 3	< 3	N/A
	3/7/2023	N/A	N/A	N/A	< 3	N/A
	9/26/2023	< 3	< 3	< 3	< 3	N/A
	9/26/2023	< 3	N/A	N/A	N/A	N/A
	5/29/2024	< 3	< 3	< 3	< 3	< 3
	5/29/2024	N/A	< 3	N/A	N/A	N/A
	10/23/2024	< 3	< 3	< 3	< 3	N/A
	10/23/2024	N/A	< 3	N/A	N/A	N/A

Note: * indicates 'J flag'. Detection is below the reporting limit, but greater than the MDL (Method Detection Limit). The concentration is estimated.

Denotes Detection.

Denotes Confirmed Outlier. Statistically Excluded.

Sampling performed over multiple dates is recorded on the first date sampled. Refer to field forms for exact sample date.

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Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
1,1-Dichloropropene, ug/L (CAS NO - 563-58-6)	10/12/2015	N/A	N/A	< 1	N/A	N/A
	6/21/2016	< 1	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 1	N/A	N/A
	3/21/2017	< 1	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 1	N/A	N/A
	5/10/2022	< 1	N/A	N/A	N/A	N/A
1,2,4,5-Tetrachlorobenzene, ug/L (CAS NO - 95-94-3)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
1,2,4-Trichlorobenzene, ug/L (CAS NO - 120-82-1)	10/12/2015	N/A	N/A	< 5	N/A	N/A
	6/21/2016	< 5	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 5	N/A	N/A
	3/21/2017	< 5	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 5	N/A	N/A
	5/10/2022	< 5	N/A	N/A	N/A	N/A
1,3,5-Trinitrobenzene, ug/L (CAS NO - 99-35-4)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
1,3-Dichlorobenzene, ug/L (CAS NO - 541-73-1)	10/12/2015	N/A	N/A	< 1	N/A	N/A
	6/21/2016	< 1	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 1	N/A	N/A
	3/21/2017	< 1	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 1	N/A	N/A
	5/10/2022	< 1	N/A	N/A	N/A	N/A
1,3-Dichloropropane, ug/L (CAS NO - 142-28-9)	10/12/2015	N/A	N/A	< 1	N/A	N/A
	6/21/2016	< 1	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 1	N/A	N/A
	3/21/2017	< 1	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 1	N/A	N/A
	5/10/2022	< 1	N/A	N/A	N/A	N/A
1,3-Dinitrobenzene, ug/L (CAS NO - 99-65-0)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
1,4-Naphthoquinone, ug/L (CAS NO - 130-15-4)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
1,4-Phenylenediamine, ug/L (CAS NO - 106-50-3)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
1-Naphthylamine, ug/L (CAS NO - 134-32-7)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
2,2-Dichloropropane, ug/L (CAS NO - 594-20-7)	10/12/2015	N/A	N/A	< 4	N/A	N/A
	6/21/2016	< 4	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 4	N/A	N/A
	3/21/2017	< 4	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 4	N/A	N/A
	5/10/2022	< 4	N/A	N/A	N/A	N/A
2,3,4,6-Tetrachlorophenol, ug/L (CAS NO - 58-90-2)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
2,4,5-T [2C], ug/L (CAS NO - 93-76-5)	10/12/2015	N/A	N/A	< 1.06	N/A	N/A
	6/21/2016	< 1.04	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 1.13	N/A	N/A
	3/21/2017	< 1.1	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 1.08	N/A	N/A
	5/10/2022	< 0.15	N/A	N/A	N/A	N/A
2,4,5-TP [Silvex] [2C], ug/L (CAS NO - 93-72-1)	10/12/2015	N/A	N/A	< 1.06	N/A	N/A
	6/21/2016	< 1.04	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 1.13	N/A	N/A
	3/21/2017	< 1.1	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 1.08	N/A	N/A
	5/10/2022	< 0.0501	N/A	N/A	N/A	N/A
2,4,5-Trichlorophenol, ug/L (CAS NO - 95-95-4)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
2,4,6-Trichlorophenol, ug/L (CAS NO - 88-06-2)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
2,4-D [2C], ug/L (CAS NO - 94-75-7)	10/12/2015	N/A	N/A	< 1.06	N/A	N/A
	6/21/2016	< 1.04	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 1.13	N/A	N/A
	3/21/2017	< 1.1	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 1.08	N/A	N/A
	5/10/2022	< 0.601	N/A	N/A	N/A	N/A
2,4-Dichlorophenol, ug/L (CAS NO - 120-83-2)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A

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Other Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
2,4-Dimethylphenol, ug/L (CAS NO - 105-67-9)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
2,4-Dinitrophenol, ug/L (CAS NO - 51-28-5)	10/12/2015	N/A	N/A	< 20.6	N/A	N/A
	6/21/2016	< 20	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 20.8	N/A	N/A
	3/21/2017	< 21.7	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 21.5	N/A	N/A
	5/10/2022	< 20	N/A	N/A	N/A	N/A
2,4-Dinitrotoluene, ug/L (CAS NO - 121-14-2)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
2,6-Dichlorophenol, ug/L (CAS NO - 87-65-0)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
2,6-Dinitrotoluene, ug/L (CAS NO - 606-20-2)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
2-Acetylaminofluorene, ug/L (CAS NO - 53-96-3)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
2-Chloronaphthalene, ug/L (CAS NO - 91-58-7)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
2-Chlorophenol, ug/L (CAS NO - 95-57-8)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
2-Methylnaphthalene, ug/L (CAS NO - 91-57-6)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A

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Other Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
2-Methylphenol, ug/L (CAS NO - 95-48-7)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
2-Naphthylamine, ug/L (CAS NO - 91-59-8)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
2-Nitroaniline, ug/L (CAS NO - 88-74-4)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
2-Nitrophenol, ug/L (CAS NO - 88-75-5)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
3,3-Dichlorobenzidine, ug/L (CAS NO - 91-94-1)	10/12/2015	N/A	N/A	< 51.5	N/A	N/A
	6/21/2016	< 50	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 52.1	N/A	N/A
	3/21/2017	< 54.3	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
3,3-Dimethylbenzidine, ug/L (CAS NO - 119-93-7)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
3/4-Methylphenol, ug/L (CAS NO - T-34MP)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	0.315*	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
3-Chloropropene, ug/L (CAS NO - 107-05-1)	10/12/2015	N/A	N/A	< 2	N/A	N/A
	6/21/2016	< 2	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 2	N/A	N/A
	3/21/2017	< 2	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 2	N/A	N/A
	5/10/2022	< 2	N/A	N/A	N/A	N/A
3-Methylcholanthrene, ug/L (CAS NO - 56-49-5)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A

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Other Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
3-Nitroaniline, ug/L (CAS NO - 99-09-2)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
4,4`-DDD, ug/L (CAS NO - 72-54-8)	10/12/2015	N/A	N/A	< 0.0327	N/A	N/A
	6/21/2016	< 0.032	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 0.168	N/A	N/A
	3/21/2017	0.00838*	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 0.034	N/A	N/A
	5/10/2022	< 0.064	N/A	N/A	N/A	N/A
4,4`-DDE, ug/L (CAS NO - 72-55-9)	10/12/2015	N/A	N/A	< 0.0327	N/A	N/A
	6/21/2016	< 0.032	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 0.168	N/A	N/A
	3/21/2017	< 0.0352	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 0.034	N/A	N/A
	5/10/2022	< 0.064	N/A	N/A	N/A	N/A
4,4`-DDT, ug/L (CAS NO - 50-29-3)	10/12/2015	N/A	N/A	< 0.0327	N/A	N/A
	6/21/2016	< 0.032	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 0.168	N/A	N/A
	3/21/2017	< 0.0352	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 0.034	N/A	N/A
	5/10/2022	< 0.064	N/A	N/A	N/A	N/A
4,6-Dinitro-2-methylphenol, ug/L (CAS NO - 534-52-1)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
4-Aminobiphenyl, ug/L (CAS NO - 92-67-1)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
4-Bromophenyl phenyl ether, ug/L (CAS NO - 101-55-3)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
4-Chloro-3-methylphenol, ug/L (CAS NO - 59-50-7)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
4-Chloroaniline, ug/L (CAS NO - 106-47-8)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A

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Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
4-Chlorophenyl phenyl ether, ug/L (CAS NO - 7005-72-3)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
4-Nitroaniline, ug/L (CAS NO - 100-01-6)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
4-Nitrophenol, ug/L (CAS NO - 100-02-7)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
5-Nitro-o-toluidine, ug/L (CAS NO - 99-55-8)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
7,12-Dimethylbenz [a] anthracene, ug/L (CAS NO - 57-97-6)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Acenaphthene, ug/L (CAS NO - 83-32-9)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Acenaphthylene, ug/L (CAS NO - 208-96-8)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Acetonitrile, ug/L (CAS NO - 75-05-8)	10/12/2015	N/A	N/A	< 10000	N/A	N/A
	6/21/2016	< 10000	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10000	N/A	N/A
	3/21/2017	< 10000	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10000	N/A	N/A
	5/10/2022	< 10000	N/A	N/A	N/A	N/A
Acetophenone, ug/L (CAS NO - 98-86-2)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A

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Other Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Acrolein, ug/L (CAS NO - 107-02-8)	10/12/2015	N/A	N/A	< 10	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10	N/A	N/A
	3/21/2017	< 10	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Aldrin, ug/L (CAS NO - 309-00-2)	10/12/2015	N/A	N/A	< 0.0327	N/A	N/A
	6/21/2016	< 0.032	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 0.168	N/A	N/A
	3/21/2017	< 0.0352	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 0.034	N/A	N/A
	5/10/2022	< 0.064	N/A	N/A	N/A	N/A
Anthracene, ug/L (CAS NO - 120-12-7)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Benzo [a] anthracene, ug/L (CAS NO - 56-55-3)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Benzo [a] pyrene, ug/L (CAS NO - 50-32-8)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Benzo [b] fluoranthene, ug/L (CAS NO - 205-99-2)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Benzo [g,h,i] perylene, ug/L (CAS NO - 191-24-2)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Benzo [k] fluoranthene, ug/L (CAS NO - 207-08-9)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Benzyl alcohol, ug/L (CAS NO - 100-51-6)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	0.266*	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	0.484*	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A

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Other Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Alpha-BHC, ug/L (CAS NO - 319-84-6)	10/12/2015	N/A	N/A	< 0.0327	N/A	N/A
	6/21/2016	< 0.032	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 0.168	N/A	N/A
	3/21/2017	< 0.0352	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 0.034	N/A	N/A
	5/10/2022	< 0.064	N/A	N/A	N/A	N/A
Beta-BHC, ug/L (CAS NO - 319-85-7)	10/12/2015	N/A	N/A	< 0.0327	N/A	N/A
	6/21/2016	< 0.032	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 0.168	N/A	N/A
	3/21/2017	0.00608*	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 0.034	N/A	N/A
	5/10/2022	< 0.064	N/A	N/A	N/A	N/A
Delta-BHC, ug/L (CAS NO - 319-86-8)	10/12/2015	N/A	N/A	< 0.0327	N/A	N/A
	6/21/2016	< 0.032	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 0.168	N/A	N/A
	3/21/2017	< 0.0352	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 0.034	N/A	N/A
	5/10/2022	< 0.064	N/A	N/A	N/A	N/A
Gamma-BHC [Lindane], ug/L (CAS NO - 58-89-9)	10/12/2015	N/A	N/A	< 0.0327	N/A	N/A
	6/21/2016	< 0.032	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 0.168	N/A	N/A
	3/21/2017	< 0.0352	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 0.034	N/A	N/A
	5/10/2022	< 0.064	N/A	N/A	N/A	N/A
Bis[2-chloroethoxy]methane, ug/L (CAS NO - 111-91-1)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Bis[2-chloroethyl]ether, ug/L (CAS NO - 111-44-4)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Bis[2-chloroisopropyl]ether, ug/L (CAS NO - 108-60-1)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Bis[2-ethylhexyl]phthalate, ug/L (CAS NO - 117-81-7)	10/12/2015	N/A	N/A	8.73*	N/A	N/A
	6/21/2016	4.94*	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	0.995*	N/A	N/A
	3/21/2017	2.03*	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Butyl benzyl phthalate, ug/L (CAS NO - 85-68-7)	10/12/2015	N/A	N/A	1.8*	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A

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Other Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Chlordane, ug/L (CAS NO - 57-74-9)	10/12/2015	N/A	N/A	< 2.04	N/A	N/A
	6/21/2016	< 2	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.5	N/A	N/A
	3/21/2017	< 2.2	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 2.13	N/A	N/A
	5/10/2022	< 2	N/A	N/A	N/A	N/A
Chlorobenzilate, ug/L (CAS NO - 510-15-6)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Chloroprene, ug/L (CAS NO - 126-99-8)	10/12/2015	N/A	N/A	< 1	N/A	N/A
	6/21/2016	< 1	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 1	N/A	N/A
	3/21/2017	< 1	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 1	N/A	N/A
	5/10/2022	< 1	N/A	N/A	N/A	N/A
Chrysene, ug/L (CAS NO - 218-01-9)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Cyanide, mg/L (CAS NO - 57-12-5)	10/12/2015	N/A	N/A	< 0.01	N/A	N/A
	6/21/2016	< 0.01	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 0.01	N/A	N/A
	3/21/2017	< 0.01	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 0.01	N/A	N/A
	5/10/2022	< 0.01	N/A	N/A	N/A	N/A
Diallate [cis or trans], ug/L (CAS NO - 2303-16-4)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Dibenz [a,h] anthracene, ug/L (CAS NO - 53-70-3)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Dibenzofuran, ug/L (CAS NO - 132-64-9)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Dichlorodifluoromethane, ug/L (CAS NO - 75-71-8)	10/12/2015	N/A	N/A	< 3	N/A	N/A
	6/21/2016	< 3	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 3	N/A	N/A
	3/21/2017	< 3	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 3	N/A	N/A
	5/10/2022	< 3	N/A	N/A	N/A	N/A

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Other Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Dieldrin, ug/L (CAS NO - 60-57-1)	10/12/2015	N/A	N/A	< 0.0327	N/A	N/A
	6/21/2016	< 0.032	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 0.168	N/A	N/A
	3/21/2017	< 0.0352	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 0.034	N/A	N/A
	5/10/2022	< 0.064	N/A	N/A	N/A	N/A
Diethyl phthalate, ug/L (CAS NO - 84-66-2)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Dimethoate, ug/L (CAS NO - 60-51-5)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Dimethyl phthalate, ug/L (CAS NO - 131-11-3)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Dimethylaminoazobenzene, ug/L (CAS NO - 60-11-7)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Di-n-butyl phthalate, ug/L (CAS NO - 84-74-2)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Di-n-octyl phthalate, ug/L (CAS NO - 117-84-0)	10/12/2015	N/A	N/A	< 20.6	N/A	N/A
	6/21/2016	< 20	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 20.8	N/A	N/A
	3/21/2017	< 21.7	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 21.5	N/A	N/A
	5/10/2022	< 20	N/A	N/A	N/A	N/A
Dinoseb, ug/L (CAS NO - 88-85-7)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Diphenylamine, ug/L (CAS NO - 122-39-4)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A

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Other Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Disulfoton, ug/L (CAS NO - 298-04-4)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Endosulfan I, ug/L (CAS NO - 959-98-8)	10/12/2015	N/A	N/A	< 0.0327	N/A	N/A
	6/21/2016	< 0.032	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 0.168	N/A	N/A
	3/21/2017	< 0.0352	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 0.034	N/A	N/A
	5/10/2022	< 0.064	N/A	N/A	N/A	N/A
Endosulfan II, ug/L (CAS NO - 33213-65-9)	10/12/2015	N/A	N/A	< 0.0327	N/A	N/A
	6/21/2016	< 0.032	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 0.168	N/A	N/A
	3/21/2017	< 0.0352	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 0.034	N/A	N/A
	5/10/2022	< 0.064	N/A	N/A	N/A	N/A
Endosulfan sulfate, ug/L (CAS NO - 1031-07-8)	10/12/2015	N/A	N/A	< 0.0327	N/A	N/A
	6/21/2016	< 0.032	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 0.168	N/A	N/A
	3/21/2017	< 0.0352	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 0.034	N/A	N/A
	5/10/2022	< 0.064	N/A	N/A	N/A	N/A
Endrin, ug/L (CAS NO - 72-20-8)	10/12/2015	N/A	N/A	< 0.0327	N/A	N/A
	6/21/2016	< 0.032	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 0.168	N/A	N/A
	3/21/2017	< 0.0352	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 0.034	N/A	N/A
	5/10/2022	< 0.064	N/A	N/A	N/A	N/A
Endrin aldehyde, ug/L (CAS NO - 7421-93-4)	10/12/2015	N/A	N/A	**0.195**	N/A	N/A
	3/2/2016	N/A	N/A	**0.304**	N/A	N/A
	4/12/2016	N/A	N/A	**0.339**	N/A	N/A
	6/21/2016	< 0.032	N/A	**0.251**	N/A	N/A
	9/23/2016	N/A	N/A	< 0.168	N/A	N/A
	3/21/2017	< 0.0352	N/A	< 0.0356	N/A	N/A
	7/24/2017	0.0194*	N/A	N/A	N/A	N/A
	9/20/2017	N/A	N/A	< 0.034	N/A	N/A
	5/15/2018	N/A	N/A	< 0.0333	N/A	N/A
	8/22/2018	N/A	N/A	< 0.0337	N/A	N/A
	5/29/2019	N/A	N/A	< 0.0337	N/A	N/A
	9/19/2019	N/A	N/A	< 0.0337	N/A	N/A
	3/11/2020	N/A	N/A	< 0.0344	N/A	N/A
	8/19/2020	N/A	N/A	< 0.0337	N/A	N/A
	3/23/2021	N/A	N/A	< 0.034	N/A	N/A
	9/16/2021	N/A	N/A	< 0.0337	N/A	N/A
	5/10/2022	< 0.064	N/A	< 0.064	N/A	N/A
Ethyl Methacrylate, ug/L (CAS NO - 97-63-2)	10/12/2015	N/A	N/A	< 2	N/A	N/A
	6/21/2016	< 2	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 2	N/A	N/A
	3/21/2017	< 2	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 2	N/A	N/A
	5/10/2022	< 2	N/A	N/A	N/A	N/A

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Other Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Ethyl Methanesulfonate, ug/L (CAS NO - 62-50-0)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Famphur, ug/L (CAS NO - 52-85-7)	10/12/2015	N/A	N/A	< 20.6	N/A	N/A
	6/21/2016	< 20	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 20.8	N/A	N/A
	3/21/2017	< 21.7	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Fluoranthene, ug/L (CAS NO - 206-44-0)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Fluorene, ug/L (CAS NO - 86-73-7)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Heptachlor, ug/L (CAS NO - 76-44-8)	10/12/2015	N/A	N/A	0.00572*	N/A	N/A
	6/21/2016	< 0.032	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 0.168	N/A	N/A
	3/21/2017	0.00647*	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 0.034	N/A	N/A
	5/10/2022	< 0.064	N/A	N/A	N/A	N/A
Heptachlor Epoxide, ug/L (CAS NO - 1024-57-3)	10/12/2015	N/A	N/A	< 0.0327	N/A	N/A
	6/21/2016	< 0.032	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 0.168	N/A	N/A
	3/21/2017	< 0.0352	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 0.034	N/A	N/A
	5/10/2022	< 0.064	N/A	N/A	N/A	N/A
Hexachlorobenzene, ug/L (CAS NO - 118-74-1)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Hexachlorobutadiene, ug/L (CAS NO - 87-68-3)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Hexachlorocyclopentadiene, ug/L (CAS NO - 77-47-4)	10/12/2015	N/A	N/A	< 20.6	N/A	N/A
	6/21/2016	< 20	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 20.8	N/A	N/A
	3/21/2017	< 21.7	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A

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Other Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Hexachloroethane, ug/L (CAS NO - 67-72-1)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Hexachloropropene, ug/L (CAS NO - 1888-71-7)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Indeno [1,2,3-cd] pyrene, ug/L (CAS NO - 193-39-5)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Isobutanol, mg/L (CAS NO - 78-83-1)	10/12/2015	N/A	N/A	< 10	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10	N/A	N/A
	3/21/2017	< 10	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Isodrin, ug/L (CAS NO - 465-73-6)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Isophorone, ug/L (CAS NO - 78-59-1)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Isosafrole, ug/L (CAS NO - 120-58-1)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Kepone, ug/L (CAS NO - 143-50-0)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Methacrylonitrile, ug/L (CAS NO - 126-98-7)	10/12/2015	N/A	N/A	< 10	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10	N/A	N/A
	3/21/2017	< 10	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A

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Other Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Methapyrilene, ug/L (CAS NO - 91-80-5)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Methoxychlor, ug/L (CAS NO - 72-43-5)	10/12/2015	N/A	N/A	< 0.0327	N/A	N/A
	6/21/2016	< 0.032	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 0.168	N/A	N/A
	3/21/2017	< 0.0352	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 0.034	N/A	N/A
	5/10/2022	< 0.064	N/A	N/A	N/A	N/A
Methyl Methacrylate, ug/L (CAS NO - 80-62-6)	10/12/2015	N/A	N/A	< 2	N/A	N/A
	6/21/2016	< 2	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 2	N/A	N/A
	3/21/2017	< 2	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 2	N/A	N/A
	5/10/2022	< 2	N/A	N/A	N/A	N/A
Methyl Methanesulfonate, ug/L (CAS NO - 66-27-3)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Naphthalene, ug/L (CAS NO - 91-20-3)	10/12/2015	N/A	N/A	< 5	N/A	N/A
	6/21/2016	< 5	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 5	N/A	N/A
	3/21/2017	< 5	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 5	N/A	N/A
	5/10/2022	< 5	N/A	N/A	N/A	N/A
Nitrobenzene, ug/L (CAS NO - 98-95-3)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
N-Nitrosodiethylamine, ug/L (CAS NO - 55-18-5)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
N-Nitrosodimethylamine, ug/L (CAS NO - 62-75-9)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
N-Nitrosodi-n-butylamine, ug/L (CAS NO - 924-16-3)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A

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Other Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
N-Nitrosodi-n-propylamine, ug/L (CAS NO - 621-64-7)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
N-Nitrosodiphenylamine, ug/L (CAS NO - 86-30-6)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
N-Nitrosomethylethylamine, ug/L (CAS NO - 10595-95-6)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
N-Nitrosopiperidine, ug/L (CAS NO - 100-75-4)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
N-Nitrosopyrrolidine, ug/L (CAS NO - 930-55-2)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
O,O,O-Triethyl Phosphorothioate, ug/L (CAS NO - 126-68-1)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
O-Toluidine, ug/L (CAS NO - 95-53-4)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Parathion-Ethyl, ug/L (CAS NO - 56-38-2)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Parathion-Methyl, ug/L (CAS NO - 298-00-0)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A

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Other Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
PCB-1016, ug/L (CAS NO - 12674-11-2)	10/12/2015	N/A	N/A	< 0.8	N/A	N/A
	6/21/2016	< 0.8	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 0.833	N/A	N/A
	3/21/2017	< 0.87	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 0.851	N/A	N/A
	5/10/2022	< 0.8	N/A	N/A	N/A	N/A
PCB-1221, ug/L (CAS NO - 11104-28-2)	10/12/2015	N/A	N/A	< 0.8	N/A	N/A
	6/21/2016	< 0.8	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 0.833	N/A	N/A
	3/21/2017	< 0.87	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 0.851	N/A	N/A
	5/10/2022	< 0.8	N/A	N/A	N/A	N/A
PCB-1232, ug/L (CAS NO - 11141-16-5)	10/12/2015	N/A	N/A	< 0.8	N/A	N/A
	6/21/2016	< 0.8	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 0.833	N/A	N/A
	3/21/2017	< 0.87	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 0.851	N/A	N/A
	5/10/2022	< 0.8	N/A	N/A	N/A	N/A
PCB-1242, ug/L (CAS NO - 53469-21-9)	10/12/2015	N/A	N/A	< 0.8	N/A	N/A
	6/21/2016	< 0.8	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 0.833	N/A	N/A
	3/21/2017	< 0.87	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 0.851	N/A	N/A
	5/10/2022	< 0.8	N/A	N/A	N/A	N/A
PCB-1248, ug/L (CAS NO - 12672-29-6)	10/12/2015	N/A	N/A	< 0.8	N/A	N/A
	6/21/2016	< 0.8	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 0.833	N/A	N/A
	3/21/2017	< 0.87	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 0.851	N/A	N/A
	5/10/2022	< 0.8	N/A	N/A	N/A	N/A
PCB-1254, ug/L (CAS NO - 11097-69-1)	10/12/2015	N/A	N/A	< 0.8	N/A	N/A
	6/21/2016	< 0.8	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 0.833	N/A	N/A
	3/21/2017	< 0.87	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 0.851	N/A	N/A
	5/10/2022	< 0.8	N/A	N/A	N/A	N/A
PCB-1260, ug/L (CAS NO - 11096-82-5)	10/12/2015	N/A	N/A	< 0.8	N/A	N/A
	6/21/2016	< 0.8	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 0.833	N/A	N/A
	3/21/2017	< 0.87	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 0.851	N/A	N/A
	5/10/2022	< 0.8	N/A	N/A	N/A	N/A
Pentachlorobenzene, ug/L (CAS NO - 608-93-5)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Pentachloronitrobenzene, ug/L (CAS NO - 82-68-8)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Pentachlorophenol [2C], ug/L (CAS NO - 87-86-5)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Phenacetin, ug/L (CAS NO - 62-44-2)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Phenanthrene, ug/L (CAS NO - 85-01-8)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Phenol, ug/L (CAS NO - 108-95-2)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Phorate, ug/L (CAS NO - 298-02-2)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Pronamide, ug/L (CAS NO - 23950-58-5)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Propionitrile, ug/L (CAS NO - 107-12-0)	10/12/2015	N/A	N/A	< 10	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10	N/A	N/A
	3/21/2017	< 10	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Pyrene, ug/L (CAS NO - 129-00-0)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Safrole, ug/L (CAS NO - 94-59-7)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Cherokee County Solid Waste Commission - 18-SDP-01-75P

Other Constituents	Sample Date	MW-16 DNG	MW-27 DNG	MW-35 DNG	MW-42R DNG	GWD-2 DNG
Sulfide, mg/L (CAS NO - 18496-25-8)	10/12/2015	N/A	N/A	< 1	N/A	N/A
	6/21/2016	< 1	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	**11.3**	N/A	N/A
	12/12/2016	N/A	N/A	**6.64**	N/A	N/A
	3/21/2017	< 1	N/A	N/A	N/A	N/A
	9/20/2017	N/A	N/A	< 1	N/A	N/A
	2/14/2018	N/A	N/A	< 1	N/A	N/A
	5/15/2018	N/A	N/A	< 1.42	N/A	N/A
	8/22/2018	N/A	N/A	< 1	N/A	N/A
	5/29/2019	N/A	N/A	< 1	N/A	N/A
	9/19/2019	N/A	N/A	< 1	N/A	N/A
	3/11/2020	N/A	N/A	< 1	N/A	N/A
	8/19/2020	N/A	N/A	10.4	N/A	N/A
	3/23/2021	N/A	N/A	< 10	N/A	N/A
	9/16/2021	N/A	N/A	< 1	N/A	N/A
	5/10/2022	< 1	N/A	< 1	N/A	N/A
	9/28/2022	N/A	N/A	< 1	N/A	N/A
	3/7/2023	N/A	N/A	< 1	N/A	N/A
	9/26/2023	N/A	N/A	< 1	N/A	N/A
Thionazin, ug/L (CAS NO - 297-97-2)	10/12/2015	N/A	N/A	< 10.3	N/A	N/A
	6/21/2016	< 10	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.4	N/A	N/A
	3/21/2017	< 10.9	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 10.8	N/A	N/A
	5/10/2022	< 10	N/A	N/A	N/A	N/A
Toxaphene, ug/L (CAS NO - 8001-35-2)	10/12/2015	N/A	N/A	< 2.04	N/A	N/A
	6/21/2016	< 2	N/A	N/A	N/A	N/A
	9/23/2016	N/A	N/A	< 10.5	N/A	N/A
	3/21/2017	< 2.2	N/A	N/A	N/A	N/A
	3/23/2021	N/A	N/A	< 2.13	N/A	N/A
	5/10/2022	< 2	N/A	N/A	N/A	N/A

Note: * indicates 'J flag'. Detection is below the reporting limit, but greater than the MDL (Method Detection Limit). The concentration is estimated.

Denotes Detection.
Denotes Confirmed Outlier. Statistically Excluded.

Sampling performed over multiple dates is recorded on the first date sampled. Refer to field forms for exact sample date.

Appendix D

Statistical Method and Output

Statistical Method and Output

Purpose

The purpose of this document is to provide the statistical evaluation of groundwater analytical data collected from the groundwater monitoring networks of both the Closed municipal solid waste landfill (MSWLF) unit and the Open MSWLF unit at the Cherokee County Sanitary Landfill (Landfill).

Diagnostic and Exploratory Evaluations and Tests of Assumptions

The detection and assessment/corrective action monitoring statistical programs include diagnostic and exploratory evaluations and statistical tests of assumptions, as appropriate, including the following:

- Time Series Plots
- Shapiro-Wilk test for normality
- Ohio Environmental Protection Agency (EPA) Method for outliers
- Mann-Kendall/Sen's Slope trend test

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-detect, simple substitution is used, where non-detect values are assigned a concentration of one-half (½) of the practical quantification limit (PQL). If greater than 15% but less than 50% of the data are non-detect, 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 are evaluated for outliers using the Ohio EPA Method as included in the Sanitas™ statistical software program and described below, which includes the use of Dixon's, Rosner's, and Tukey's outlier tests, as appropriate based on the diagnostic tests, for the datasets that contain less than 75% of the measured concentrations below the PQL. Outliers are not confirmed unless a physical cause or explanation for the outlier is determined.

Management of Data (ND data < 75%)

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

- A parametric dataset with $n < 20$ was evaluated with the Dixon's outlier test.
- A parametric dataset with $n \geq 20$ was evaluated with the Rosner's outlier test.
- A non-parametric dataset was evaluated with the Tukey's outlier test.

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

Management of Data (ND data ≥ 75%)

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

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

Confirmed outliers, if any, are shown in the Summary of Groundwater Chemistry included in the Annual Water Quality Report.

Management of Data (ND data ≥ 75%)

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

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

Confirmed outliers, if any, are shown in the Summary of Groundwater Chemistry included in the Annual Water Quality Report.

Detection Monitoring Statistical Program

Closed MSWLF Unit

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

Interwell Prediction Limits with Retesting

- If the dataset has a normal distribution (or can be transformed to a normal distribution using Ladder of Powers), parametric interwell prediction limits are calculated if at least five datasets have been collected from the background monitoring point(s).
- If the dataset does not have a normal distribution (and cannot be transformed to a normal distribution using Ladder of Powers) or has greater than 50% non-detects, nonparametric

interwell prediction limits are calculated if at least five datasets have been collected from the background monitoring point(s).

- If an SSI above the prediction limit is indicated, retesting samples using the 1-of-2 retesting scheme should be collected prior to the next regularly scheduled sampling event with temporal sample spacing consideration to provide samples with greater independence. If the retesting result is above the prediction limit, the SSI is confirmed, and the monitoring point should be placed into the assessment monitoring program. If the retesting sample concentration is below the prediction limit, the SSI is not confirmed, and the monitoring point continues in the detection monitoring program.

Double Quantification Method

The quasi-statistical "double quantification" method is used for constituents not detected in the associated background data set. If a constituent is detected in the compliance dataset that has not been historically detected in the background dataset, that constituent must be retested before the next regularly scheduled sampling event. If the retesting results confirm the original detection with a quantifiable detection, the SSI is confirmed, and the monitoring point must be placed into the assessment monitoring program.

Open MSWLF Unit

The detection monitoring statistical program for the Open MSWLF unit is defined by Iowa Administrative Code (IAC) 567-113.10(4)"g." Intrawell prediction limits with retesting were selected as the appropriate statistical method for the determination of statistically significant increases (SSIs) over background for inorganic constituents with historical detections in the background dataset. Monitoring well MW-15C in the Closed MSWLF unit is also evaluated with intrawell prediction limits. Prediction limits are established using the process below. Data from the most recent sampling event is compared to the prediction limits for the determination of SSIs.

Intrawell Prediction Limits with Retesting

- If the dataset has a normal distribution (or can be transformed to a normal distribution using Ladder of Powers), parametric intrawell prediction limits are calculated if at least six datasets have been collected.
- If the dataset does not have a normal distribution (and cannot be transformed to a normal distribution using Ladder of Powers) or has greater than 50% non-detects, nonparametric intrawell prediction limits are calculated if at least six datasets have been collected.
- If an SSI above the prediction limit is indicated, retesting samples using the 1-of-2 retesting scheme should be collected prior to the next regularly scheduled sampling event with temporal sample spacing consideration to provide samples with greater independence. If the retesting result is above the prediction limit, the SSI is confirmed, and the monitoring point should be placed into the assessment monitoring program or the discharge treated with the leachate for groundwater underdrain discharge points. If the retesting sample concentration is below the prediction limit, the SSI is not confirmed, and the monitoring point continues in the detection monitoring program.

Updating the Background Dataset for Intrawell Prediction Limits

If no SSI is confirmed for any two-year period, the intrawell background dataset will be updated using the following procedure:

- Test for normality (normal distribution) of the dataset either outright or through a transformation using Ladder of Powers:
  - Shapiro-Wilk test
- Test for statistically significant trends:
  - Mann-Kendall/Sen's Slope trend test

If an increasing trend is detected, the monitoring point will be placed into the assessment monitoring program or the discharge treated with the leachate for groundwater underdrain discharge points.

- If the dataset has a normal distribution and no trend is present, conduct a two-sample Welch's t-test at a 0.01 significance level to compare current background to the most recent two years of detection monitoring data.

If Welch's t-test test is significant and shows that the most recent two years of concentration data appear to be increasing, the background will not be updated.

- If the dataset does not a have normal distribution and no trend is present, conduct a two-sample non-parametric Wilcoxon rank-sum test (also known as the Mann-Whitney test) at a 0.01 significance level to compare current background to the most recent two years of detection monitoring data.

If the Wilcoxon rank-sum test is significant and shows that the most recent two years of concentration data appear to be increasing, the background will not be updated.

- If the Welch's t-test and the Wilcoxon rank-sum test are not significant, the most recent two years of detection monitoring data will be added to the intrawell background dataset.
- Establish prediction limits based on the updated intrawell background dataset.

The process will repeat every two years in which an SSI is not confirmed.

Double Quantification Method

The quasi-statistical "double quantification" method is used for constituents not detected in the associated background data set. If a constituent is detected in the compliance dataset that has not been historically detected in the background dataset, that constituent must be retested before the next regularly scheduled sampling event. If the retesting results confirm the original detection with a quantifiable detection, the SSI is confirmed, and the monitoring point must be placed into the assessment monitoring program.

Assessment Monitoring/Corrective Action Statistical Program

Closed and Open MSWLF Units

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

If 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 for the Closed MSWLF unit was approved in the revised permit dated March 31, 2021 (Doc #100117).

Statistical Software Output

Sanitas™ statistical software was used to perform the statistical evaluations. The statistical outputs for the 1st and 2nd 2024 statistical evaluations are included in Attachments A and B of this appendix, respectively.

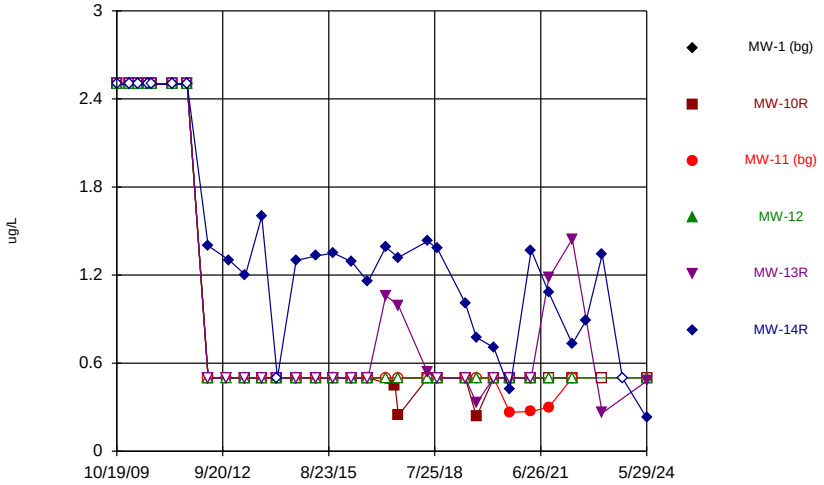
Attachment A

1st 2024 Statistical Evaluation Output

Time Series Plots – Closed MSWLF Unit

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

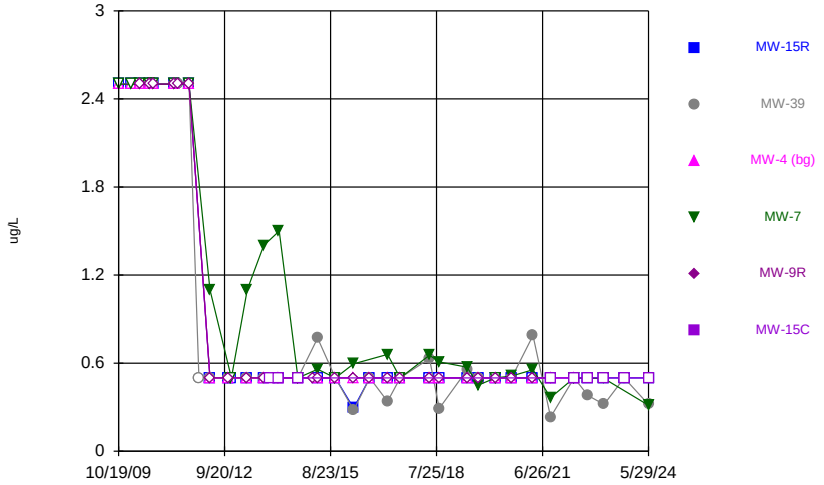
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 9/12/2024 2:01 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

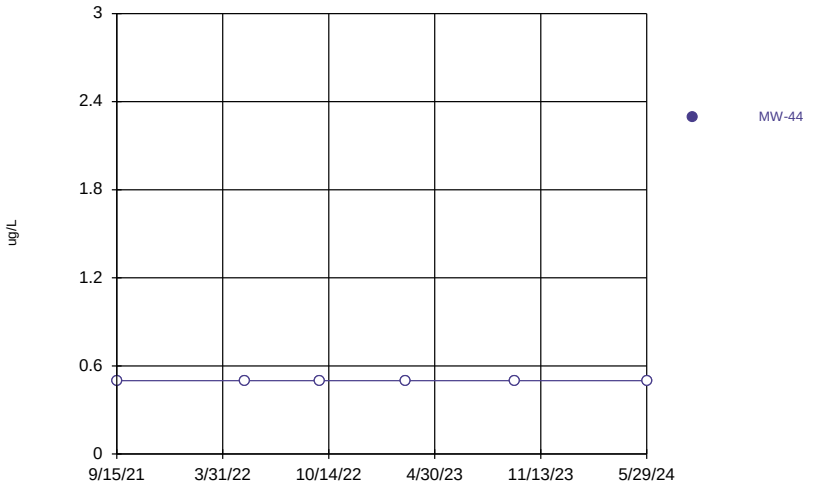
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 9/12/2024 2:01 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

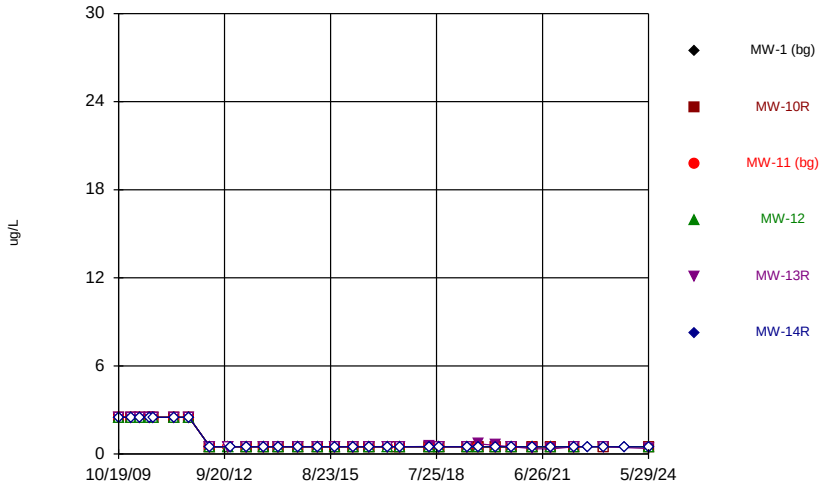
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 9/12/2024 2:01 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

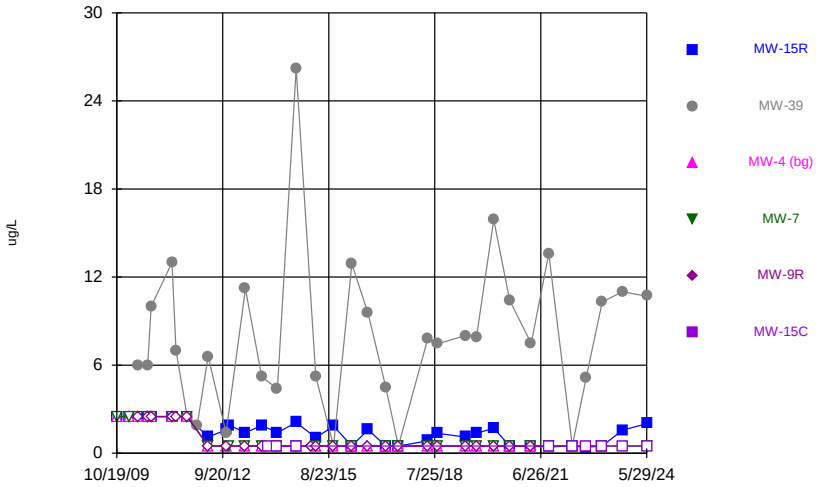
Time Series



Constituent: 1,4-Dichlorobenzene Analysis Run 9/12/2024 2:01 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

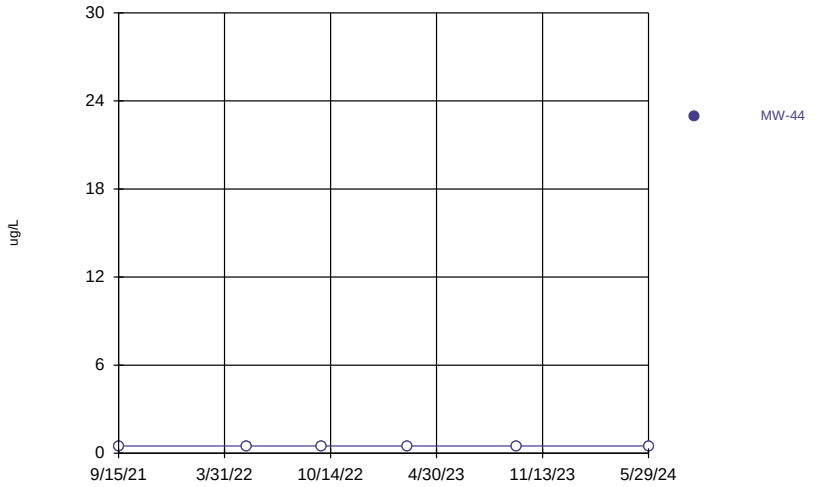
Time Series



Constituent: 1,4-Dichlorobenzene Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

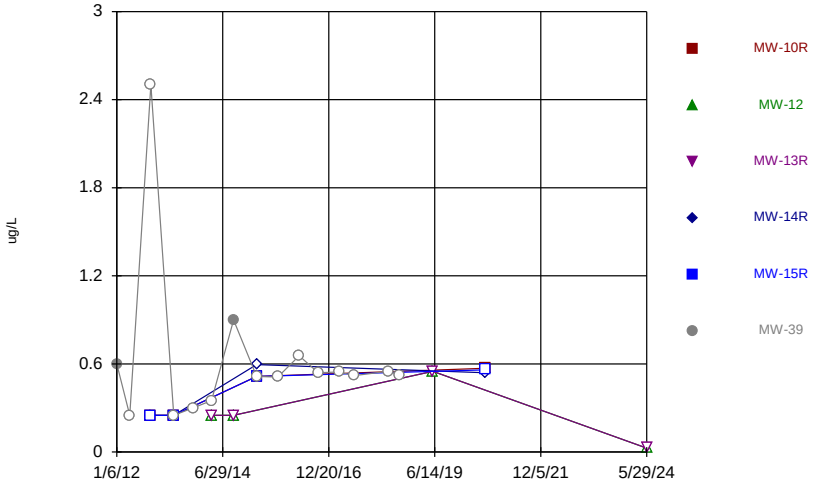
Time Series



Constituent: 1,4-Dichlorobenzene Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

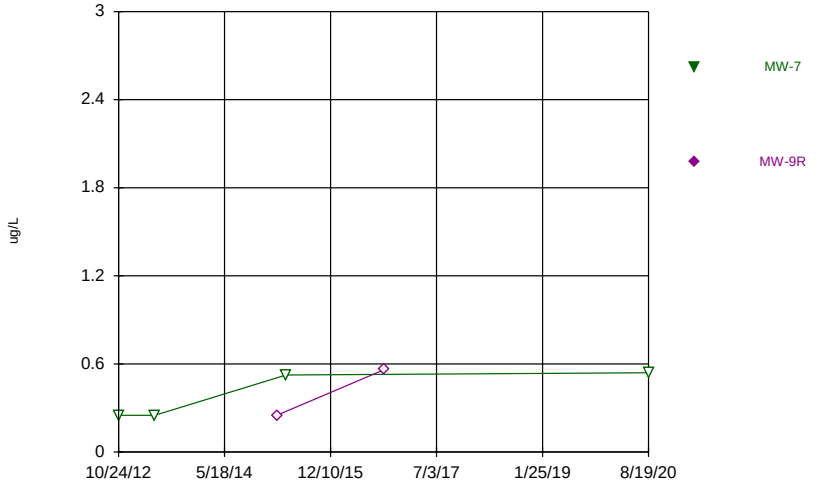
Time Series



Constituent: 2,4,5-TP [Silvex] [2C] Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

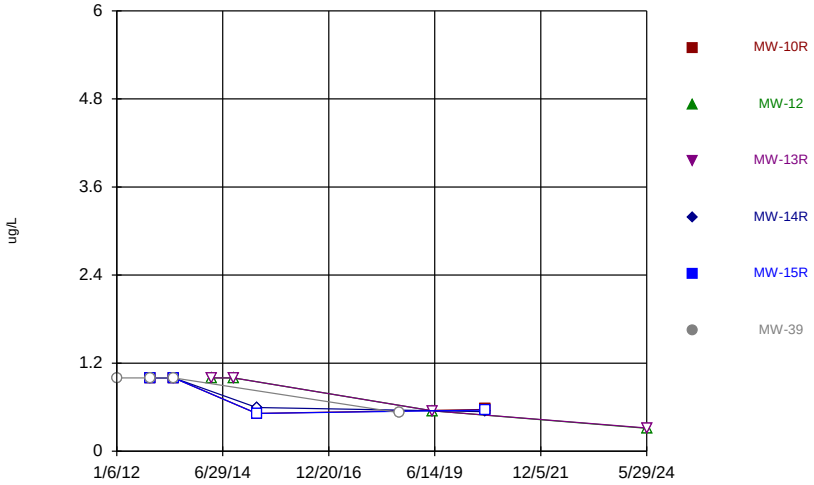
Time Series



Constituent: 2,4,5-TP [Silvex] [2C] Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

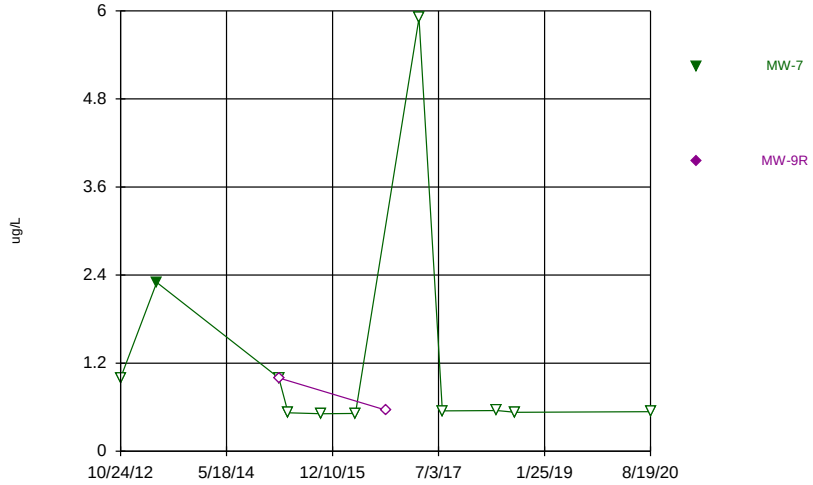
Time Series



Constituent: 2,4-D [2C] Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

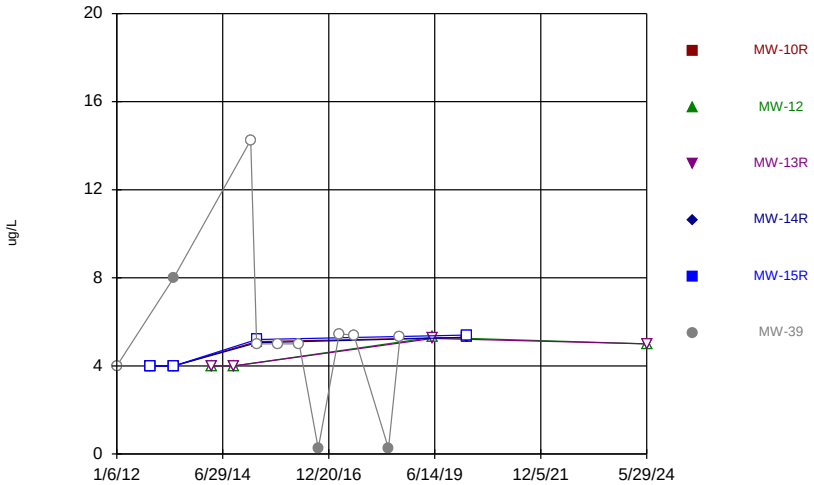
Time Series



Constituent: 2,4-D [2C] Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

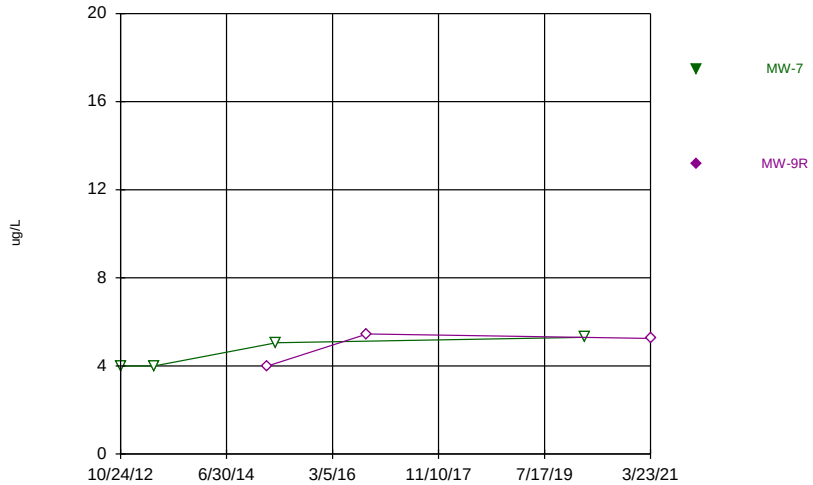
Time Series



Constituent: 3/4-Methylphenol Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

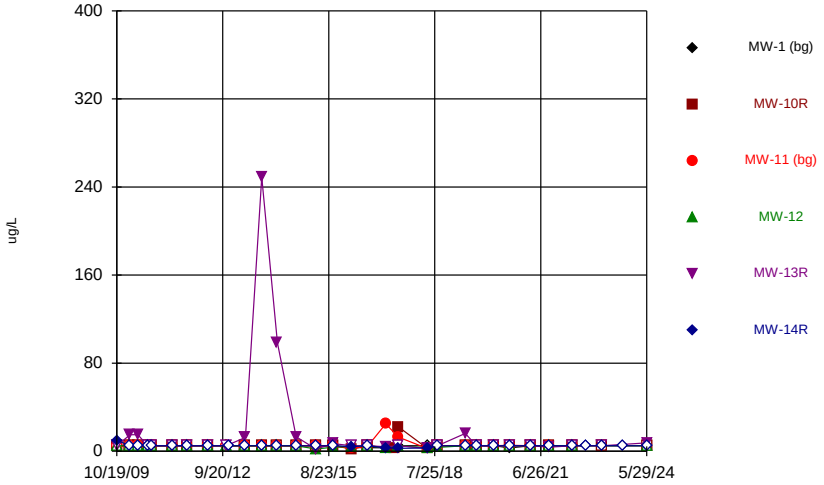
Time Series



Constituent: 3/4-Methylphenol Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

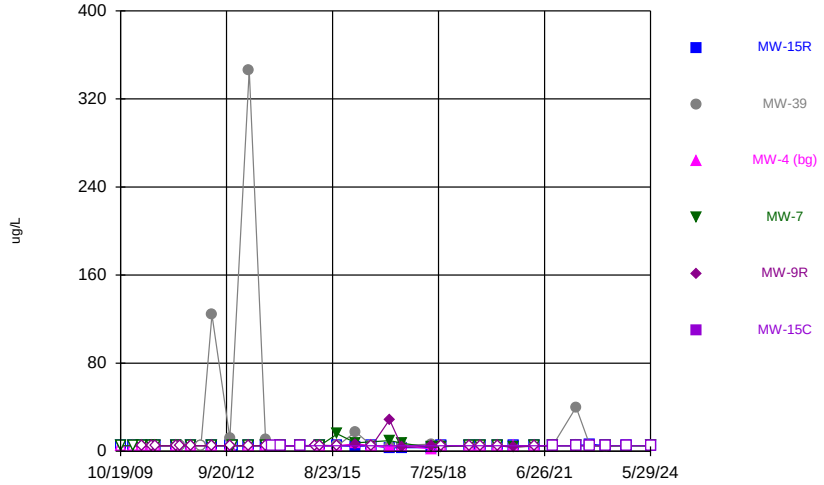
Time Series



Constituent: Acetone Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

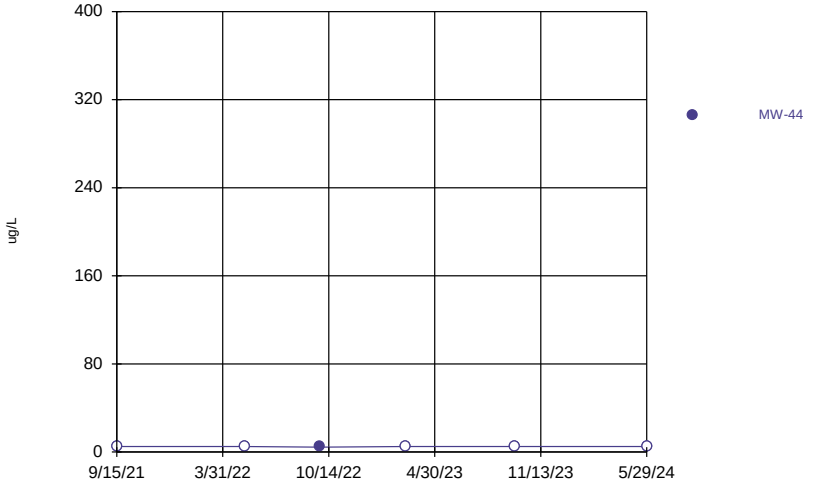
Time Series



Constituent: Acetone Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

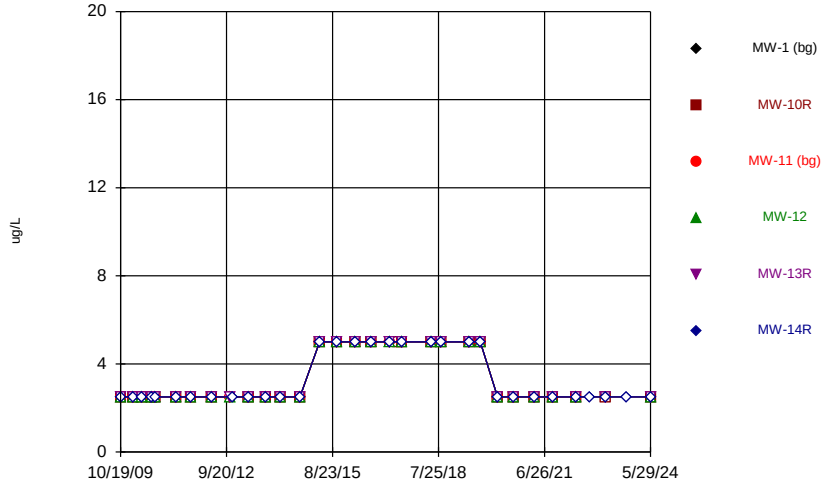
Time Series



Constituent: Acetone Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

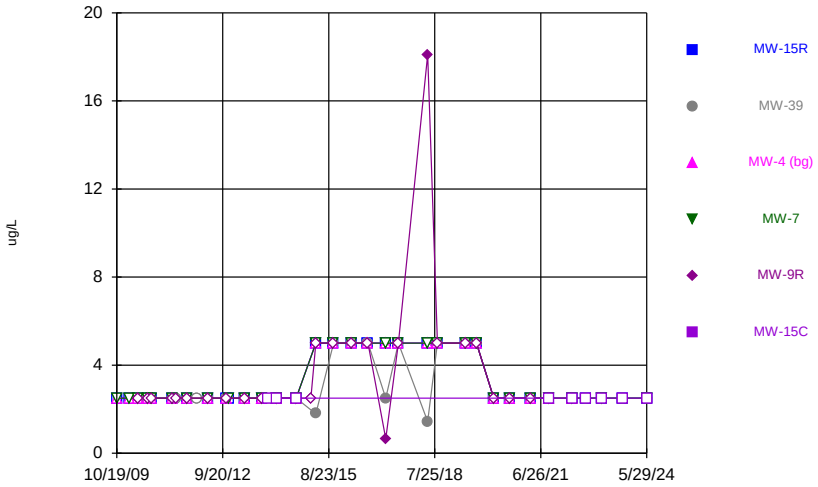
Time Series



Constituent: Acrylonitrile Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

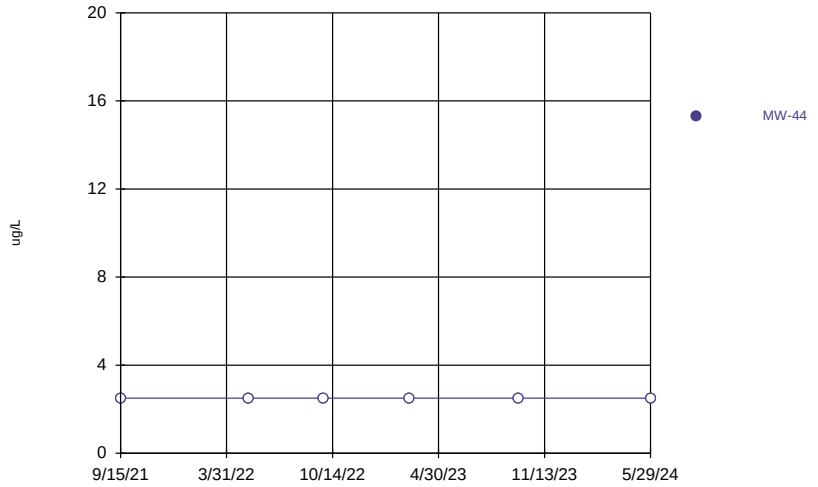
Time Series



Constituent: Acrylonitrile Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

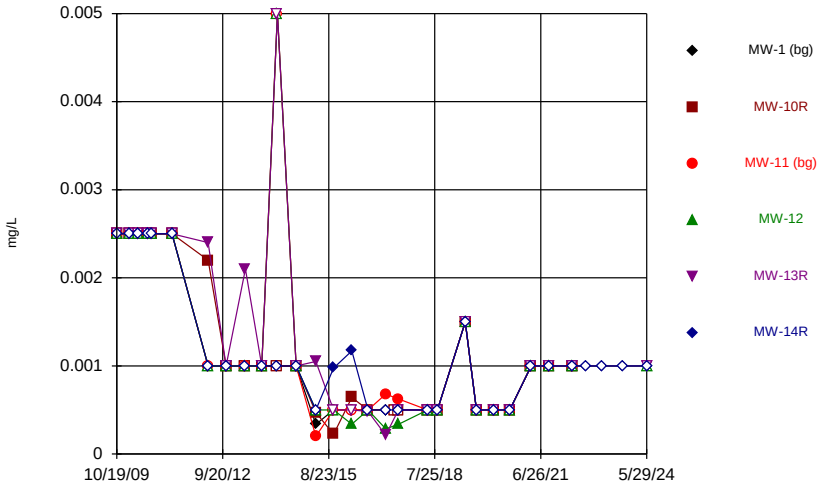
Time Series



Constituent: Acrylonitrile Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

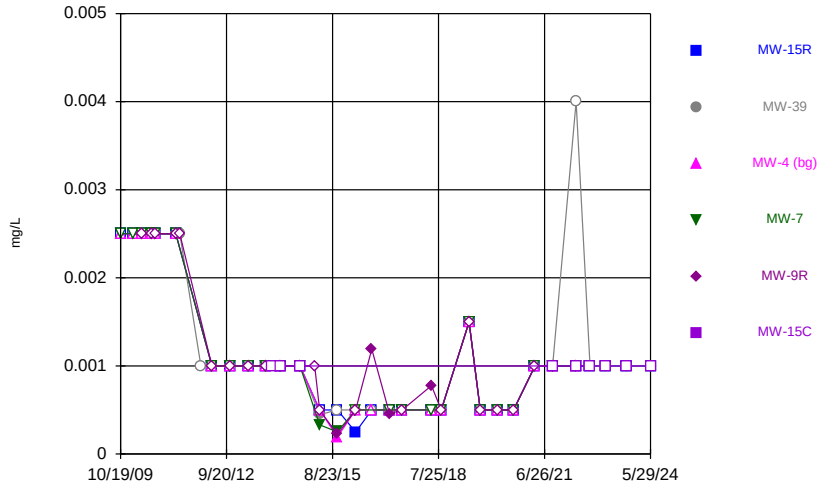
Time Series



Constituent: Antimony Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

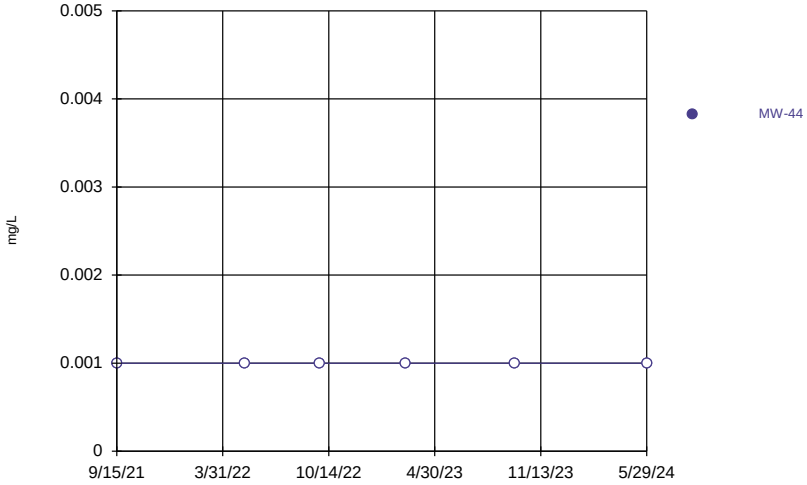
Time Series



Constituent: Antimony Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

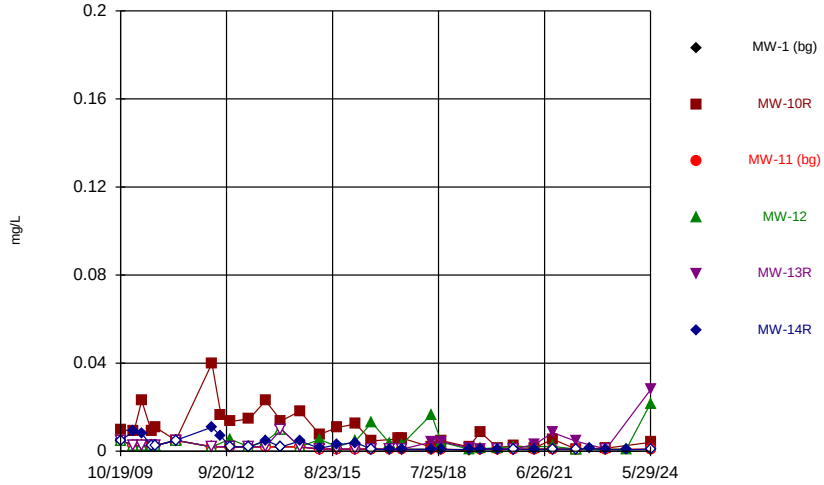
Time Series



Constituent: Antimony Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

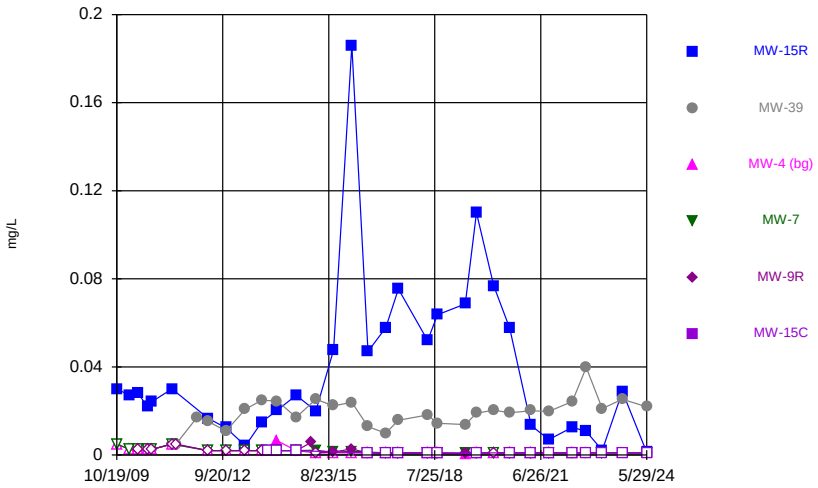
Time Series



Constituent: Arsenic Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

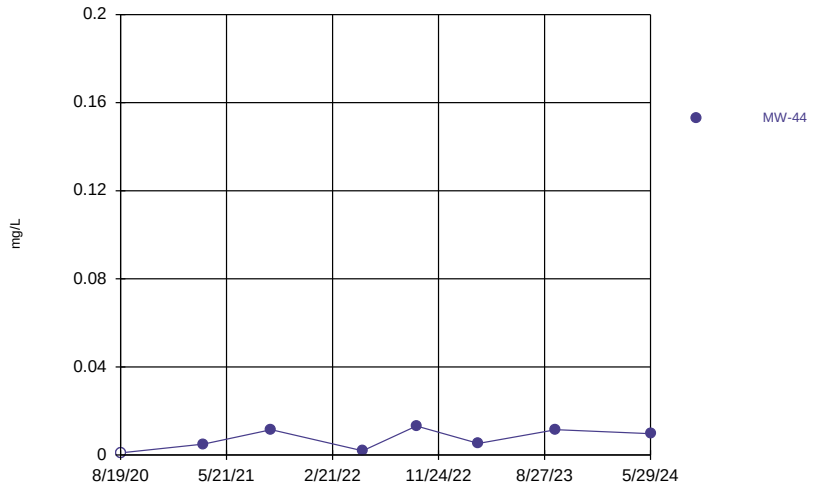
Time Series



Constituent: Arsenic Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

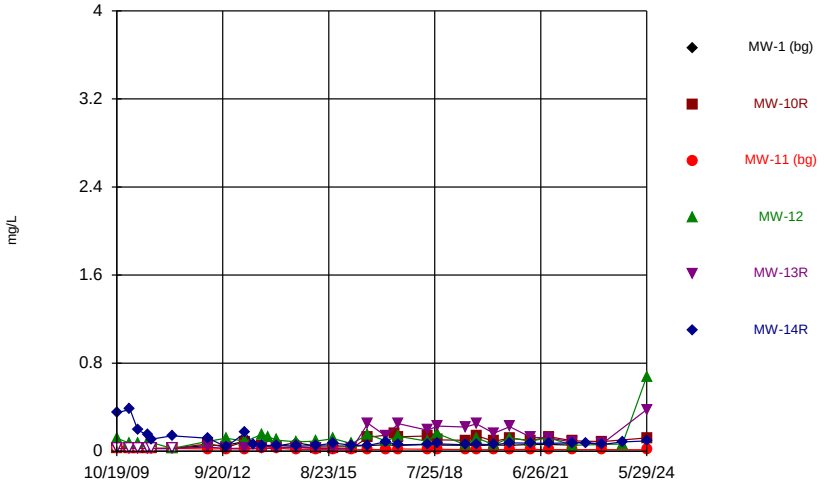
Time Series



Constituent: Arsenic Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

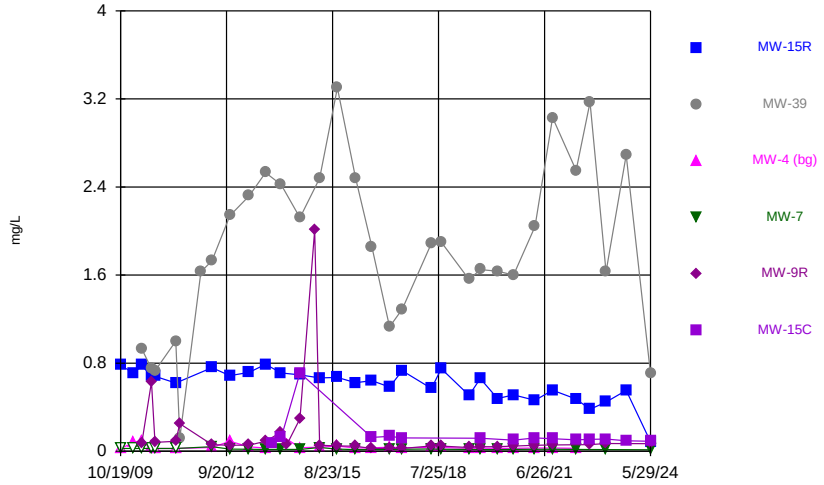
Time Series



Constituent: Barium Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

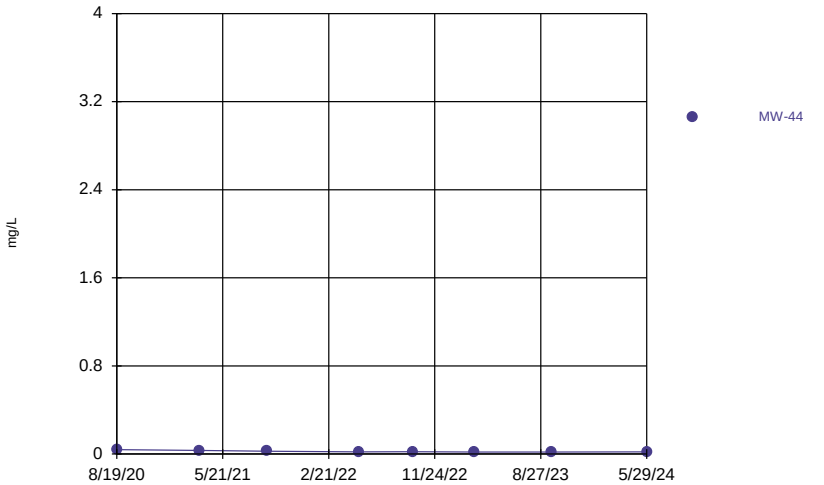
Time Series



Constituent: Barium Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

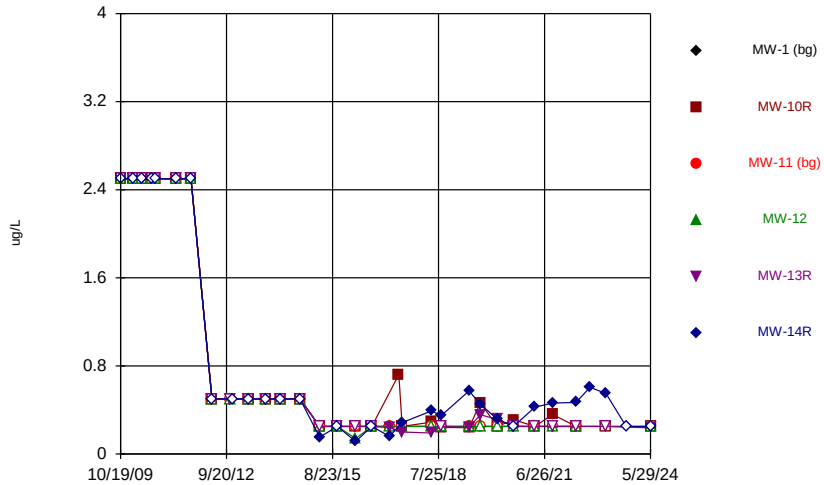
Time Series



Constituent: Barium Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

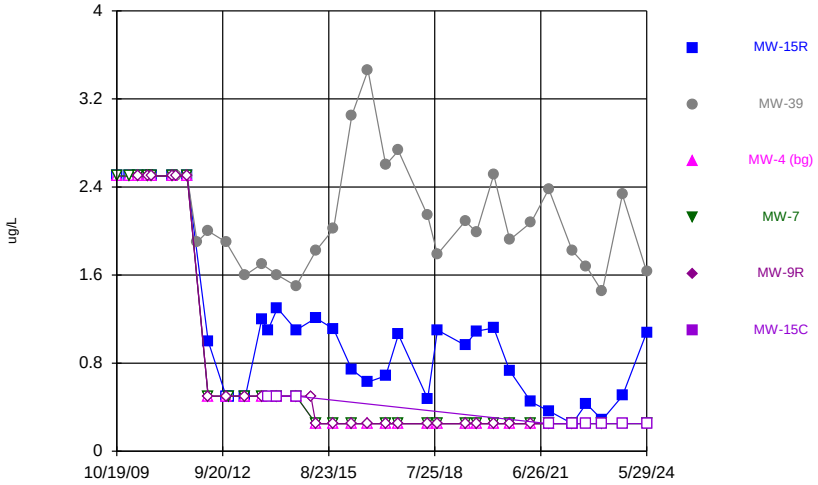
Time Series



Constituent: Benzene Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

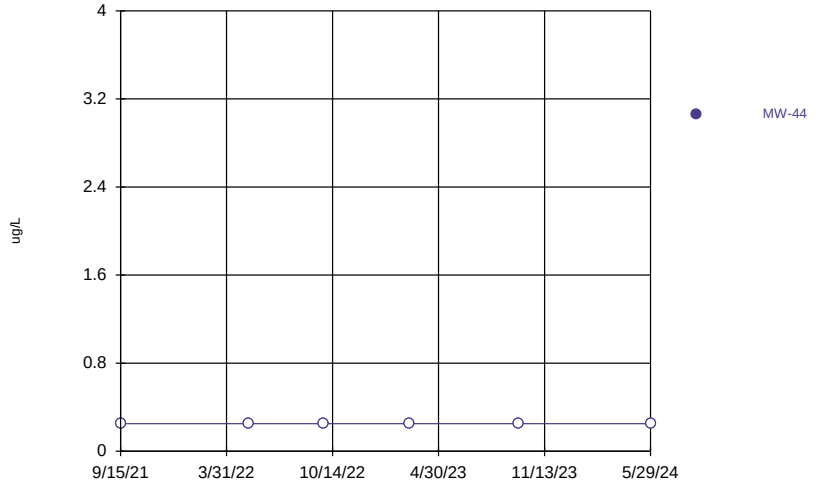
Time Series



Constituent: Benzene Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

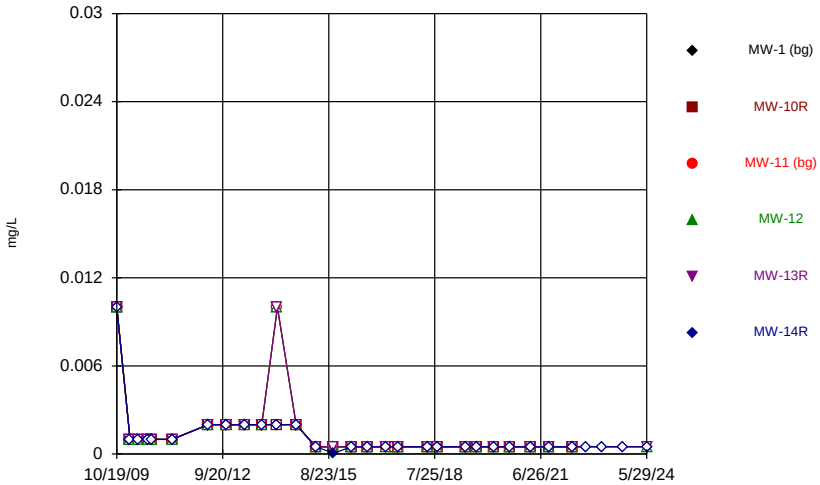
Time Series



Constituent: Benzene Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

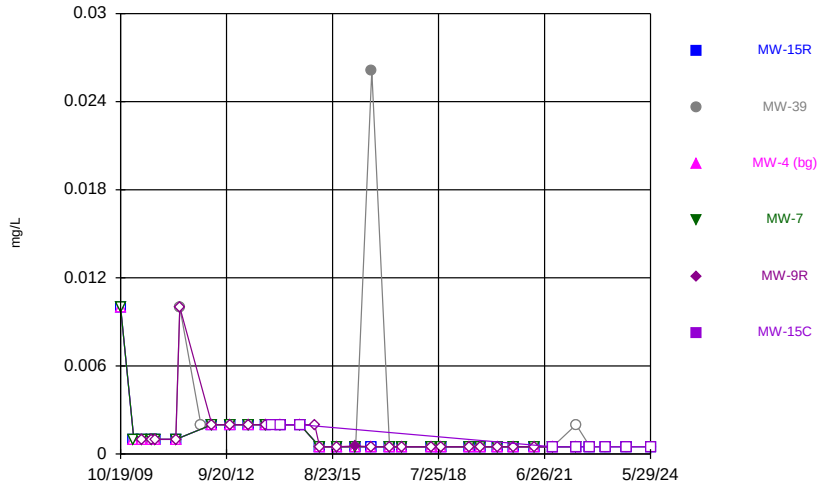
Time Series



Constituent: Beryllium Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

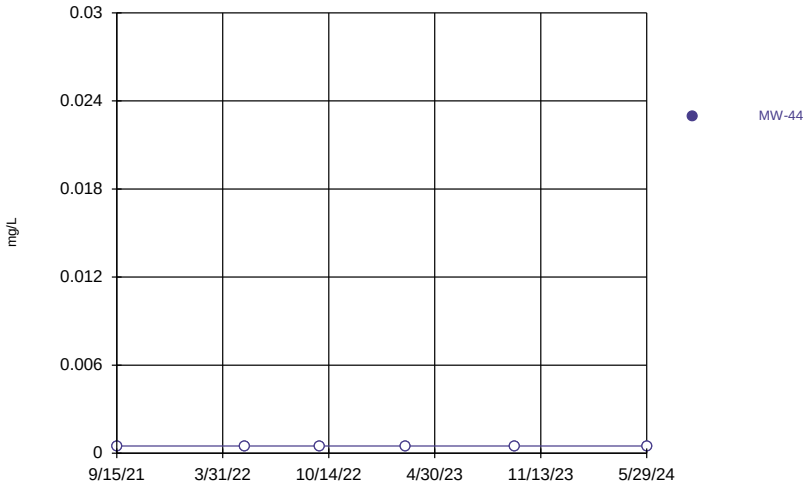
Time Series



Constituent: Beryllium Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

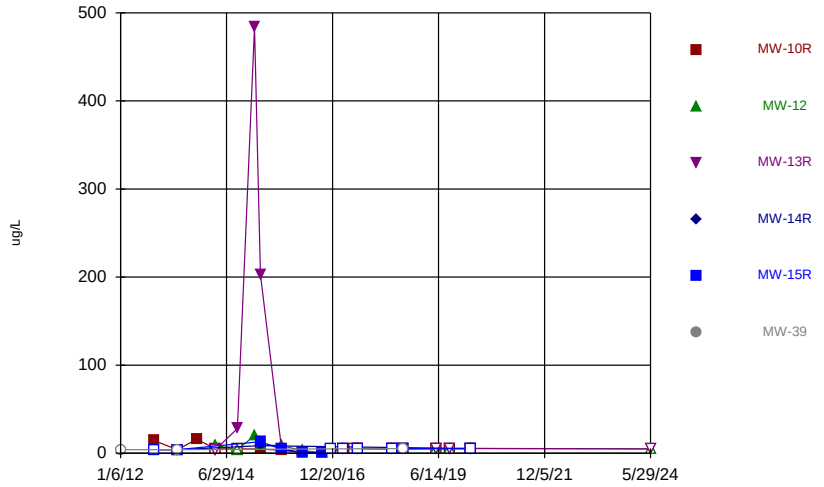
Time Series



Constituent: Beryllium Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

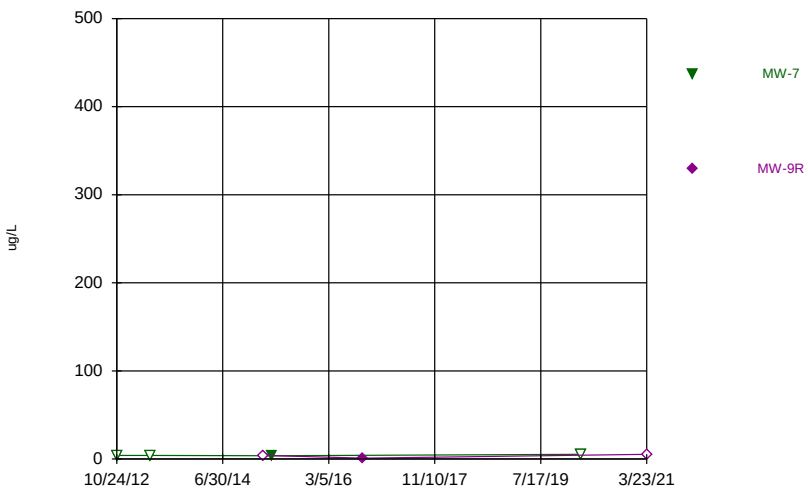
Time Series



Constituent: Bis[2-ethylhexyl]phthalate Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

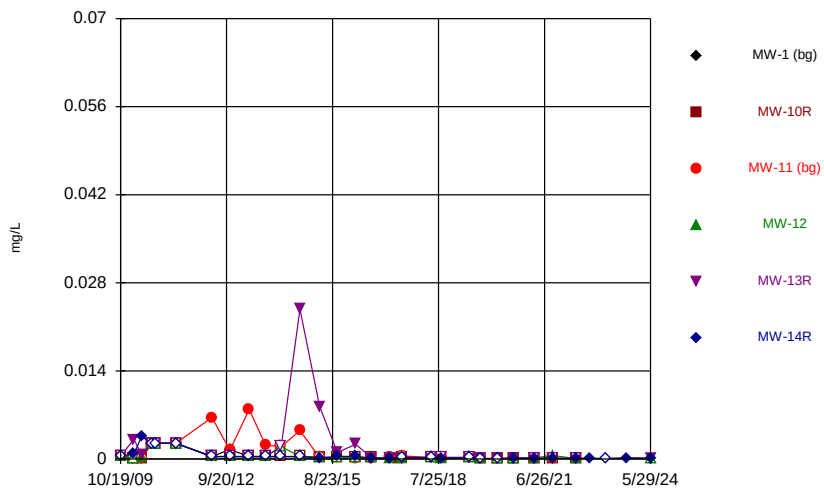
Time Series



Constituent: Bis[2-ethylhexyl]phthalate Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

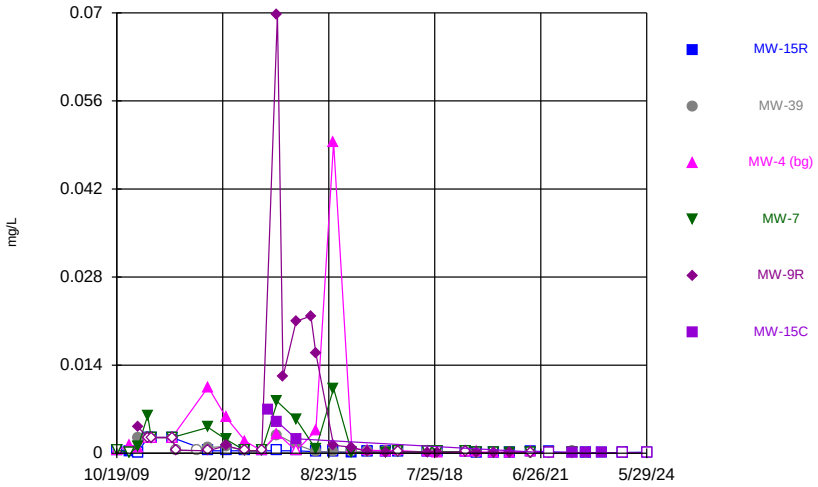
Time Series



Constituent: Cadmium Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

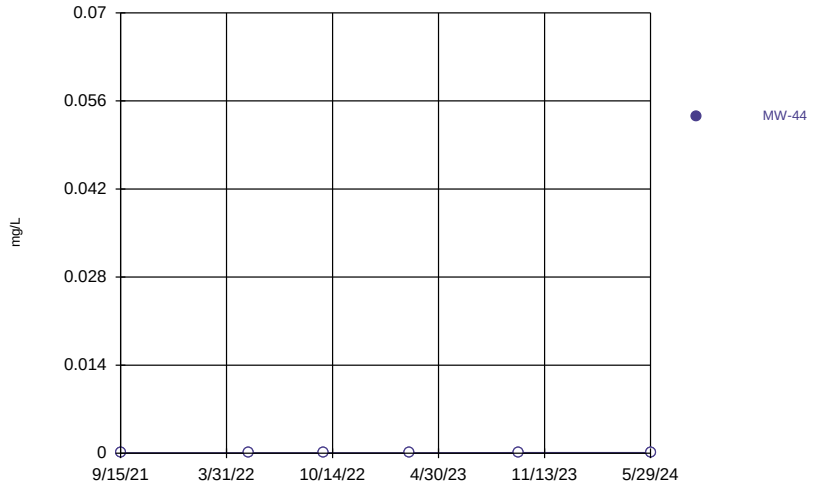
Time Series



Constituent: Cadmium Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

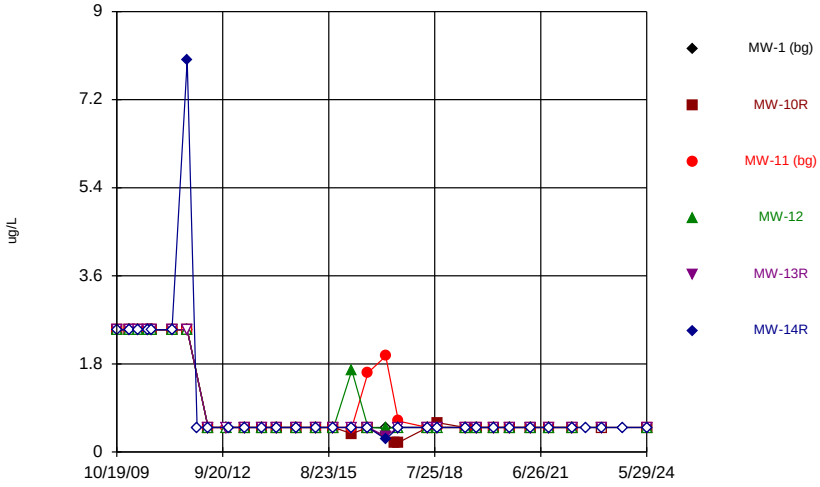
Time Series



Constituent: Cadmium Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

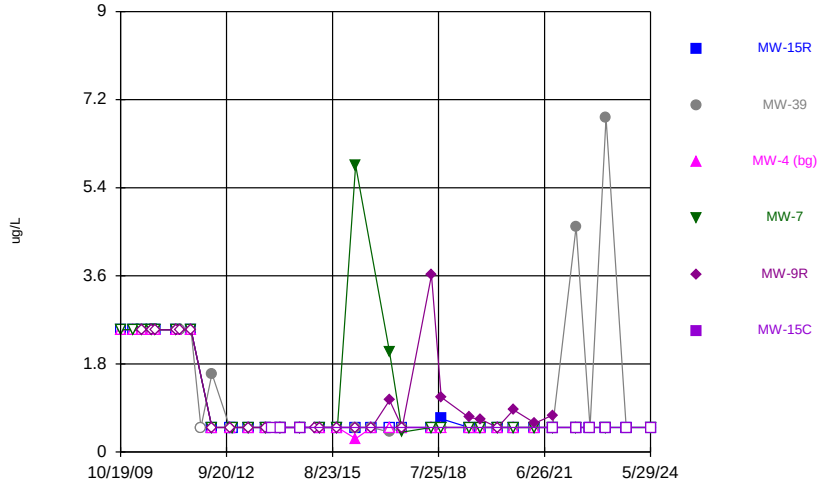
Time Series



Constituent: Carbon Disulfide Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

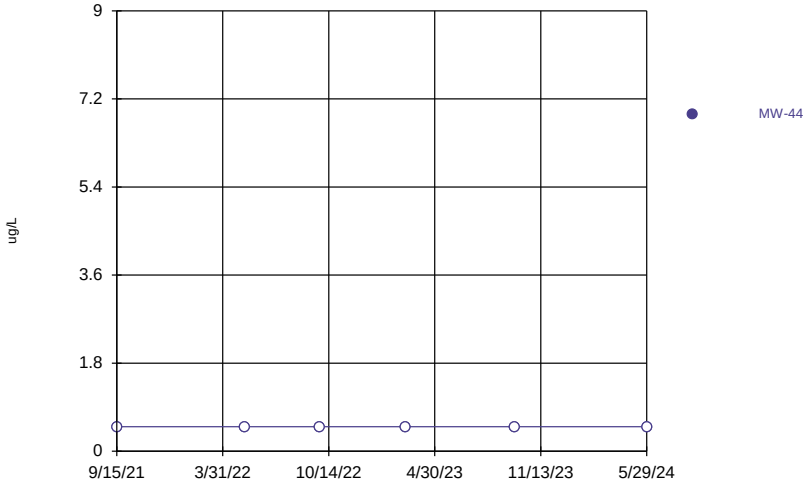
Time Series



Constituent: Carbon Disulfide Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

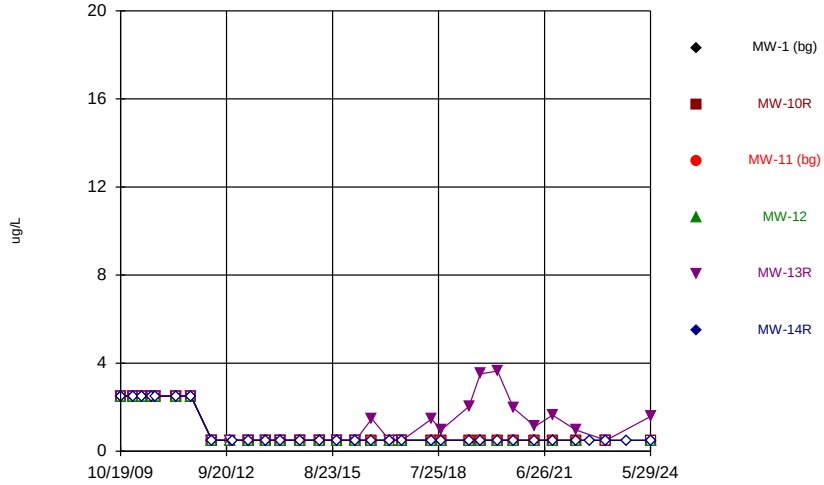
Time Series



Constituent: Carbon Disulfide Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

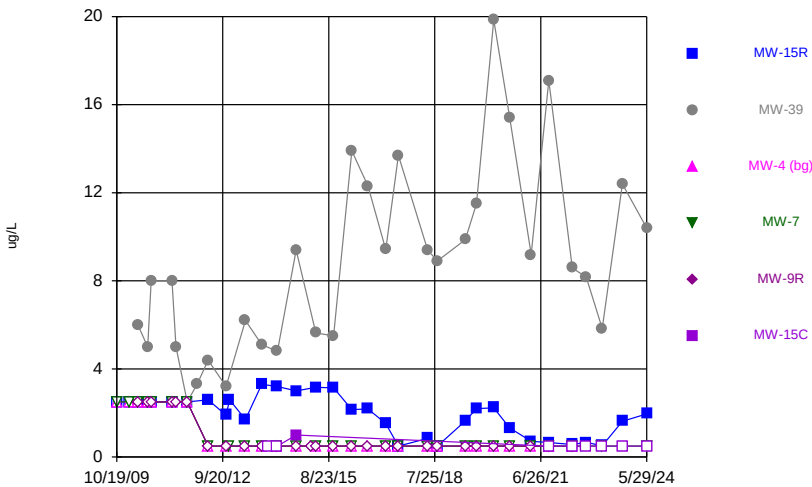
Time Series



Constituent: Chlorobenzene Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

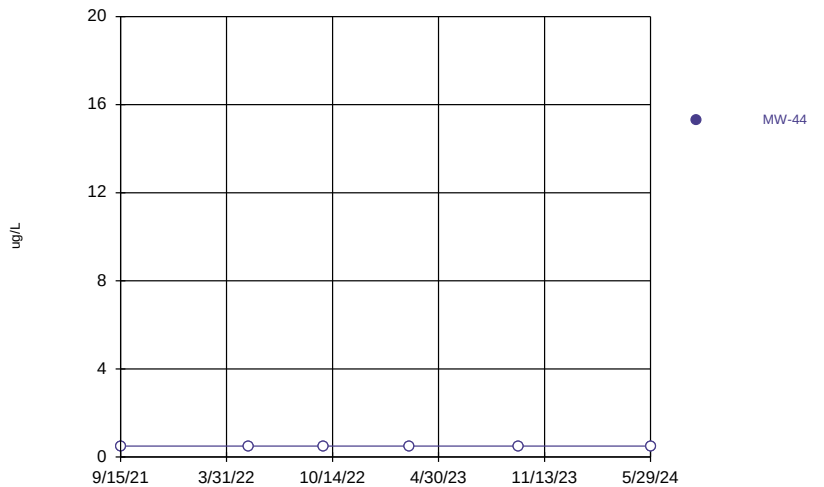
Time Series



Constituent: Chlorobenzene Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

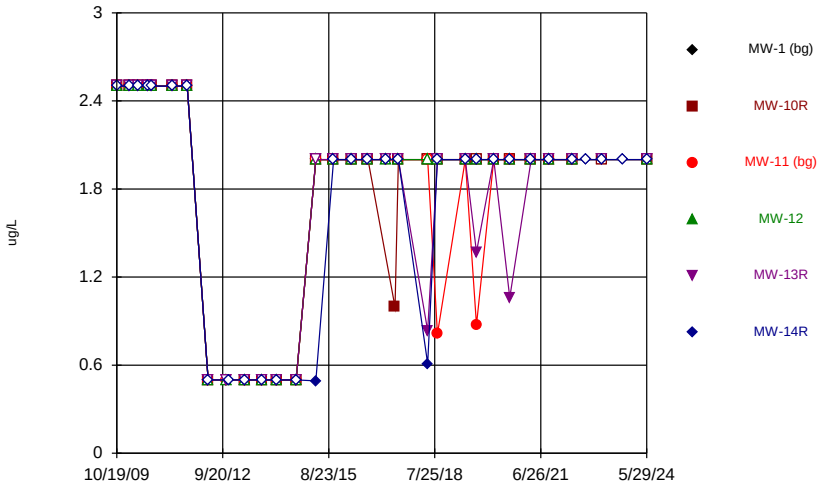
Time Series



Constituent: Chlorobenzene Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

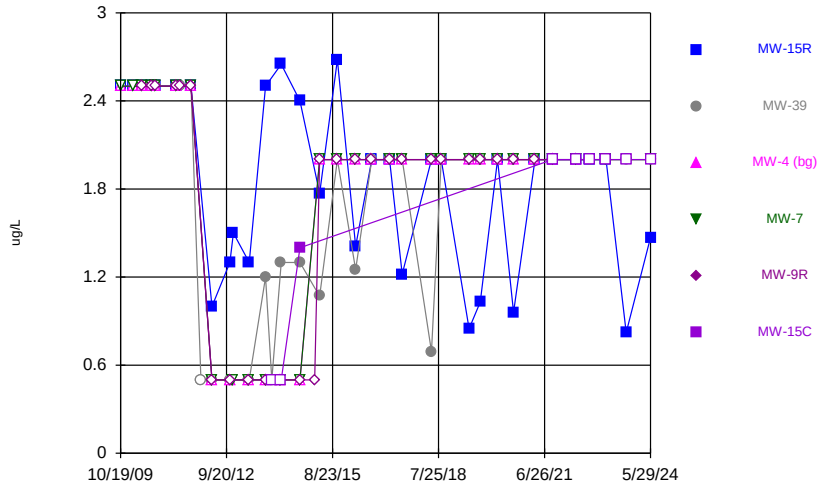
Time Series



Constituent: Chloroethane Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Chloroethane Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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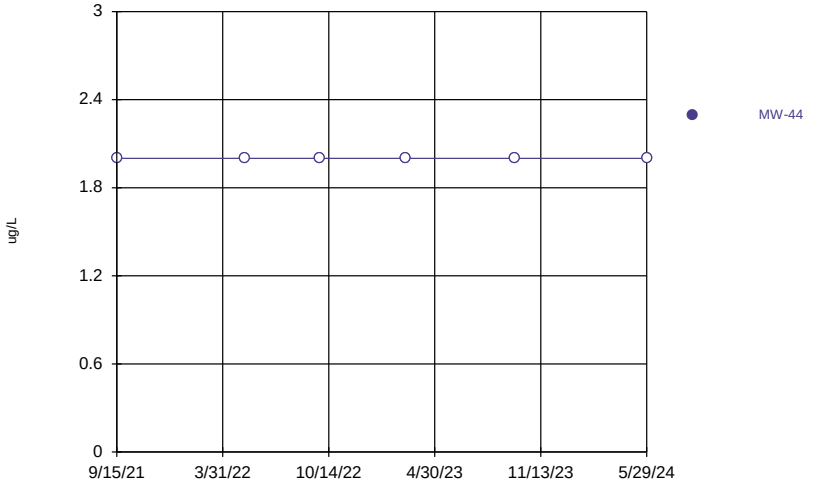
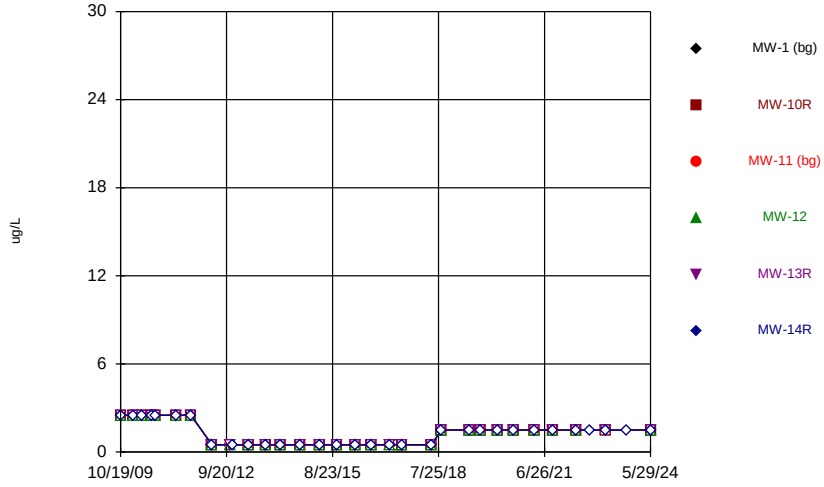
Time Series



Constituent: Chloroethane Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

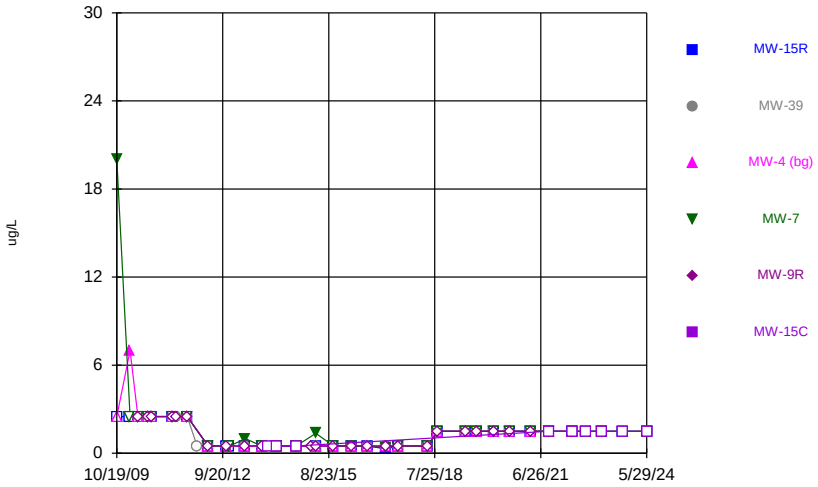
Time Series



Constituent: Chloroform Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

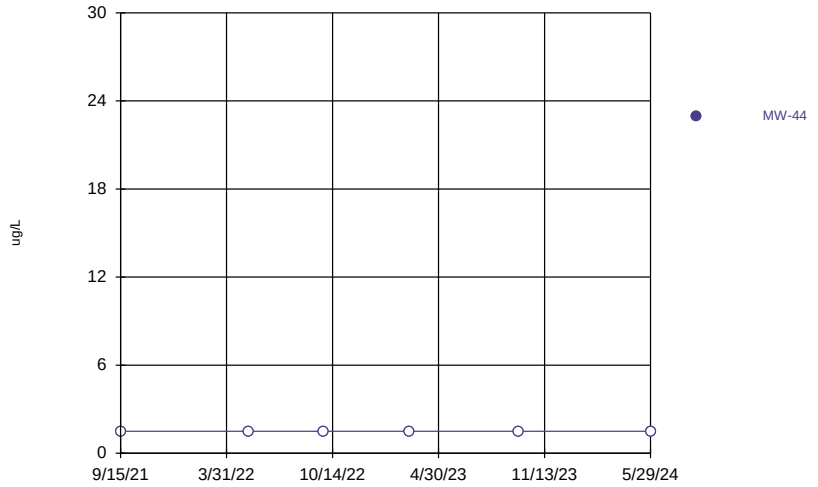
Time Series



Constituent: Chloroform Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

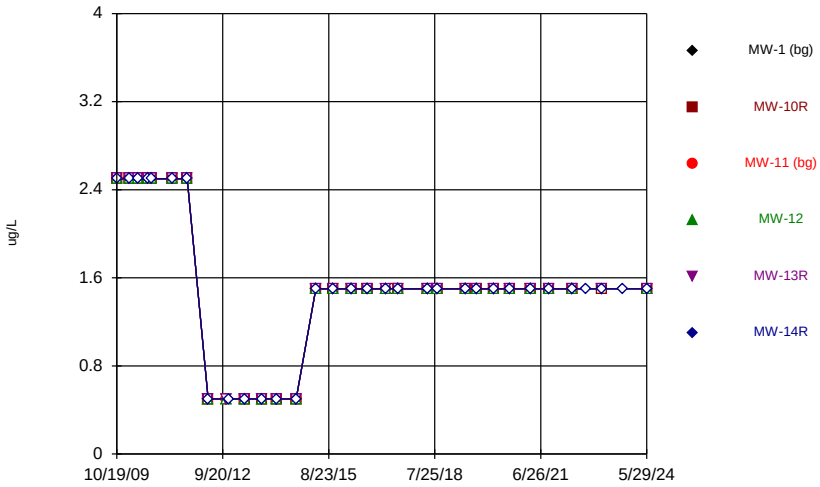
Time Series



Constituent: Chloroform Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

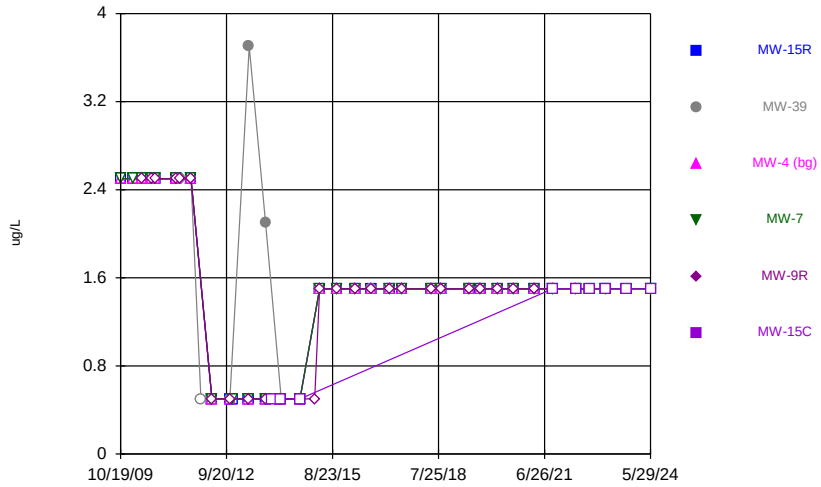
Time Series



Constituent: Chloromethane Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

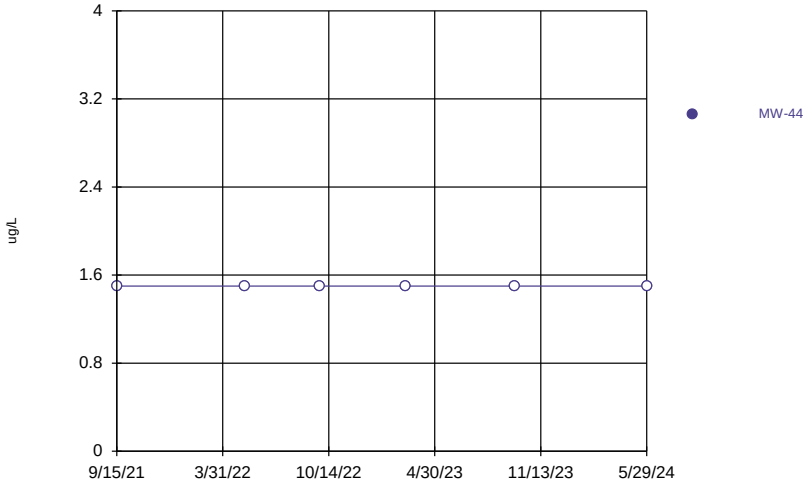
Time Series



Constituent: Chloromethane Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

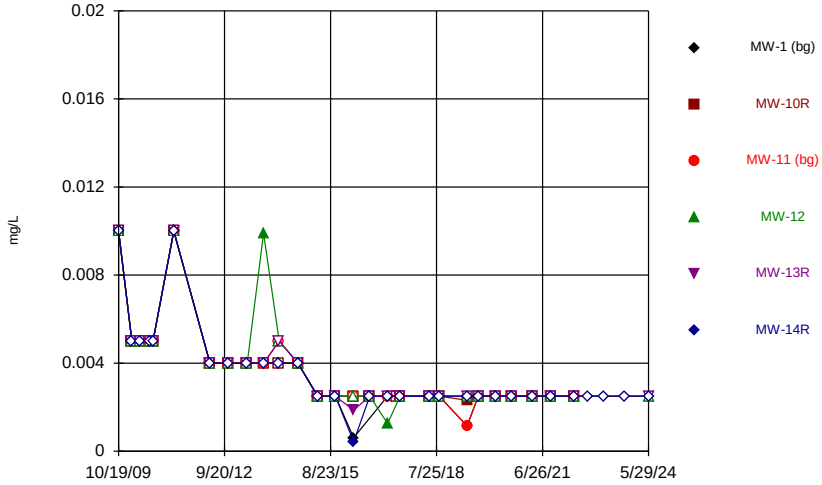
Time Series



Constituent: Chloromethane Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

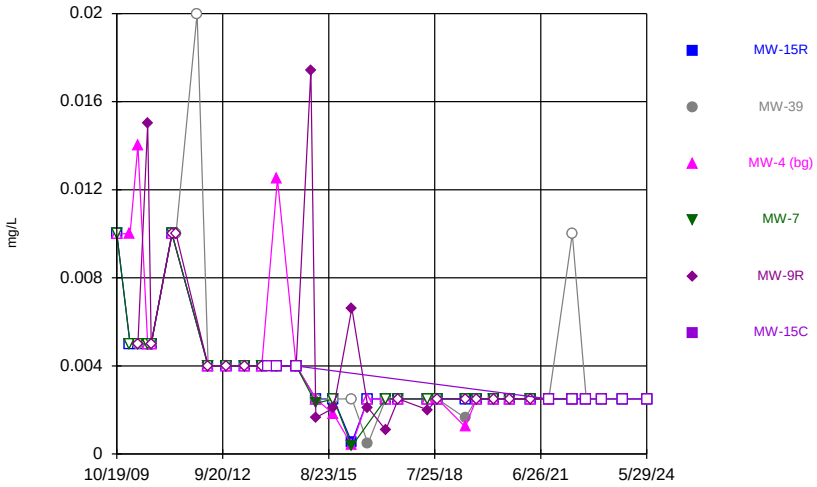
Time Series



Constituent: Chromium Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

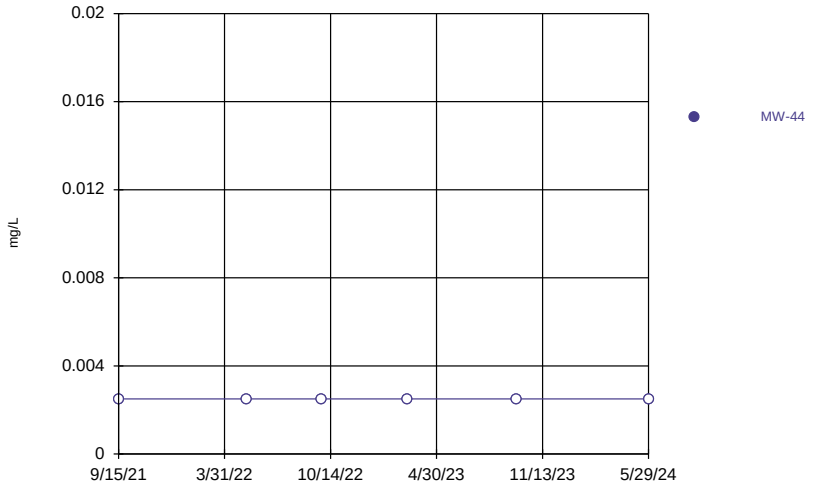
Time Series



Constituent: Chromium Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

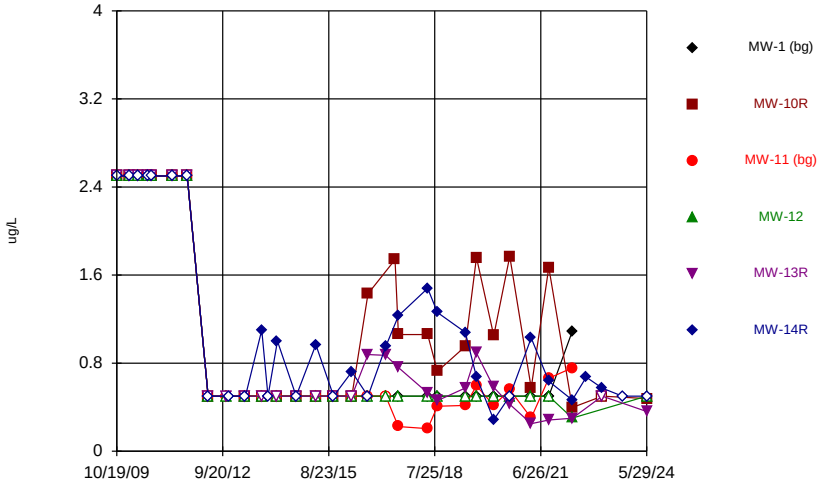
Time Series



Constituent: Chromium Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

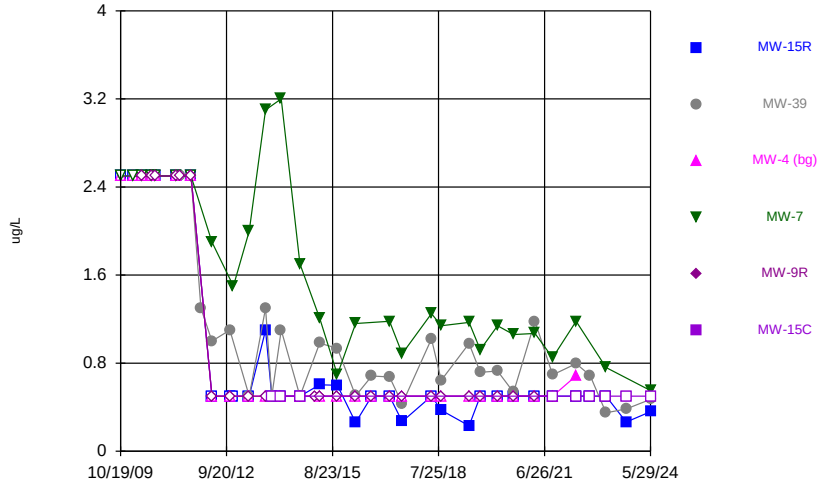
Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

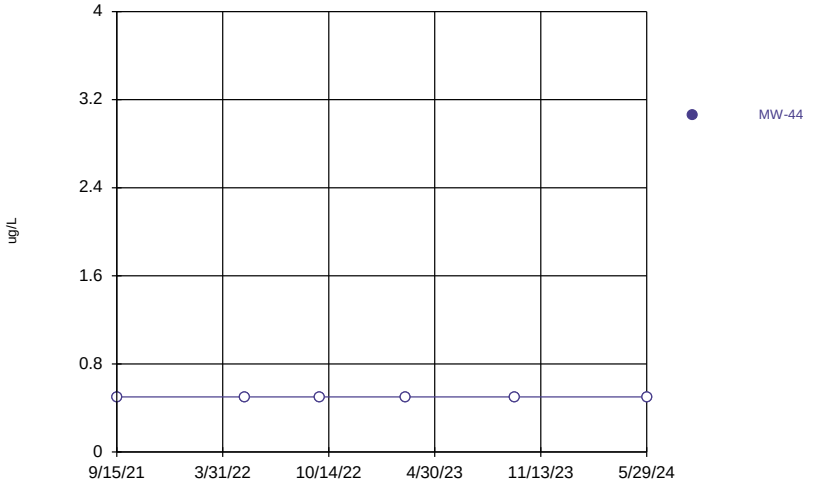
Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

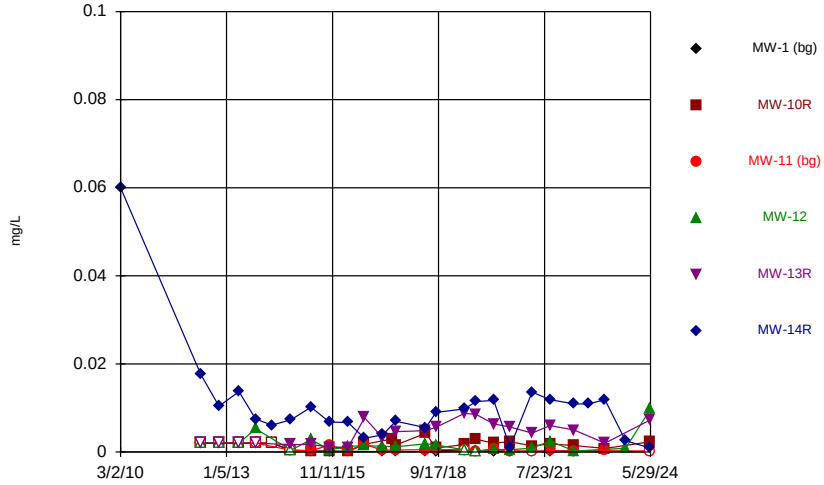
Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

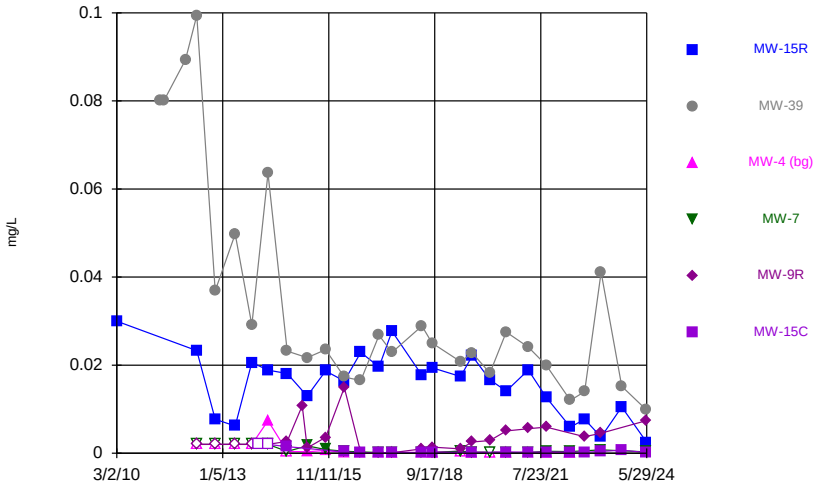
Time Series



Constituent: Cobalt Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

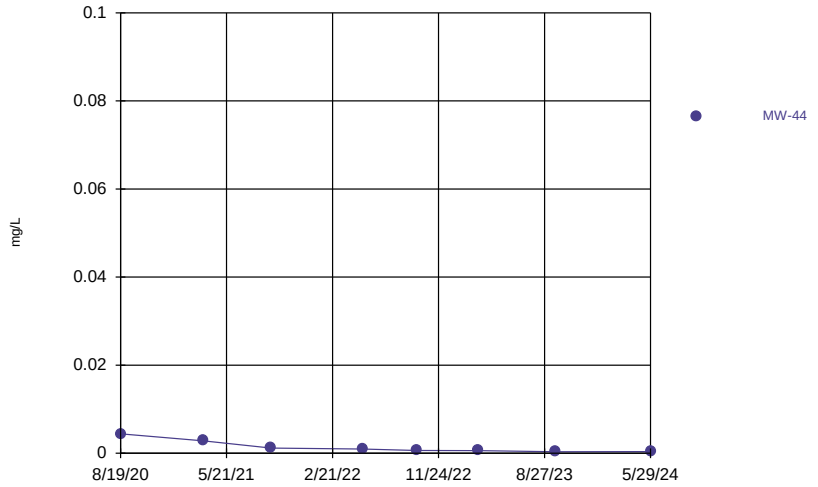
Time Series



Constituent: Cobalt Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Time Series



Constituent: Cobalt Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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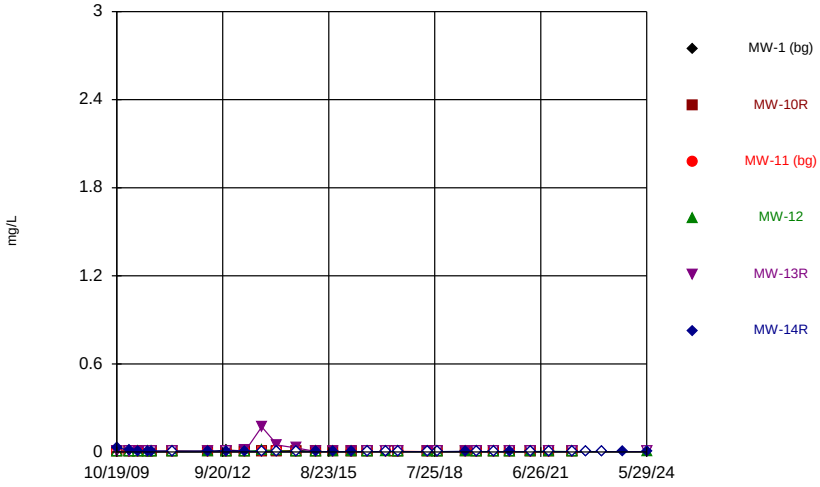
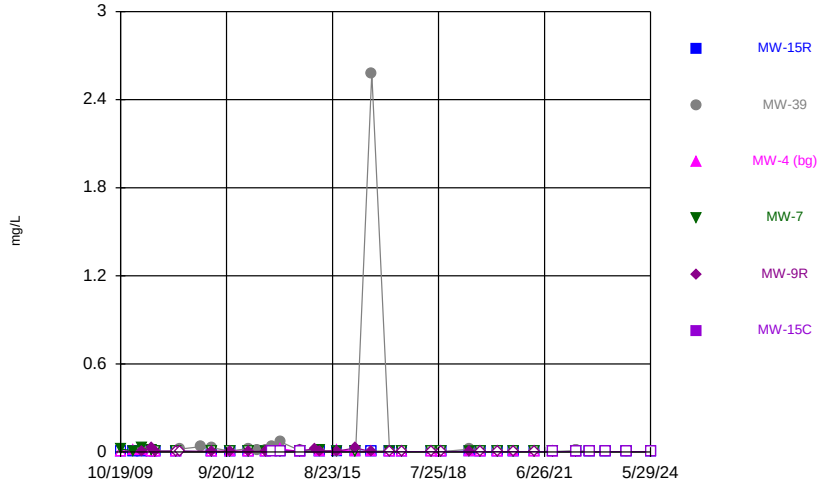
Time Series



Constituent: Copper Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

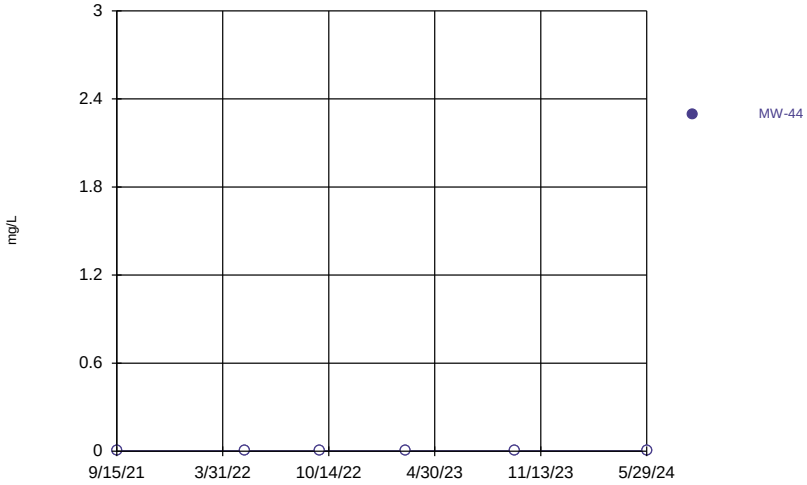
Time Series



Constituent: Copper Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

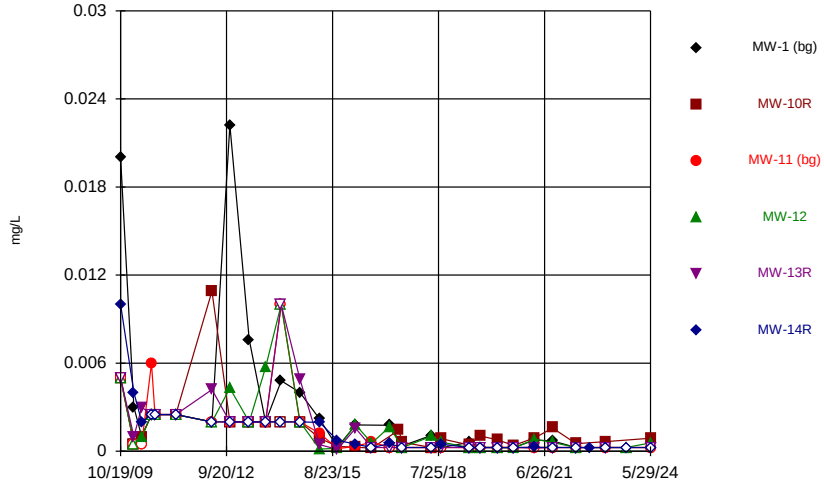
Time Series



Constituent: Copper Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

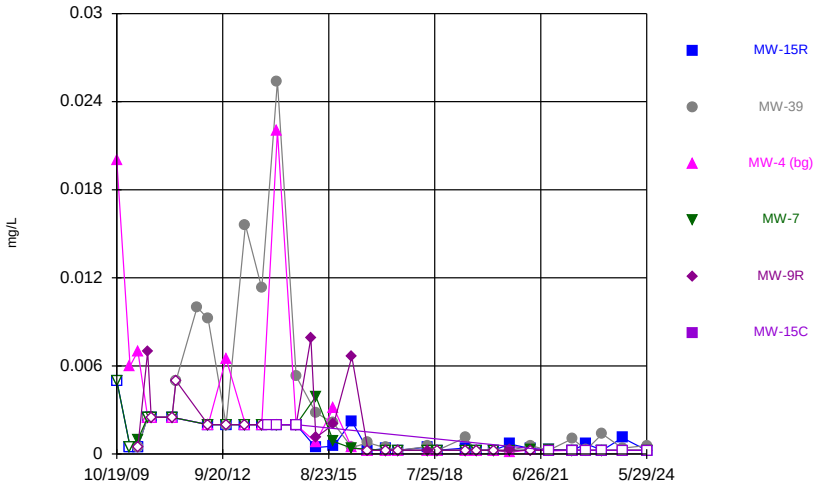
Time Series



Constituent: Lead Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

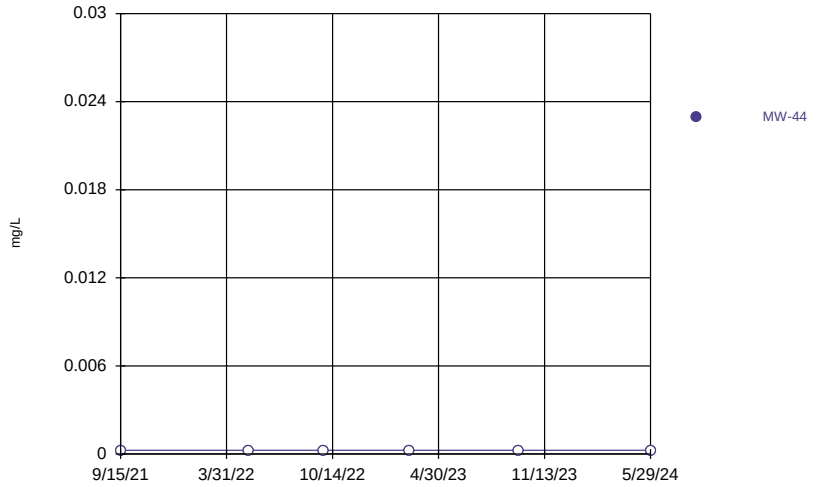
Time Series



Constituent: Lead Analysis Run 9/12/2024 2:02 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

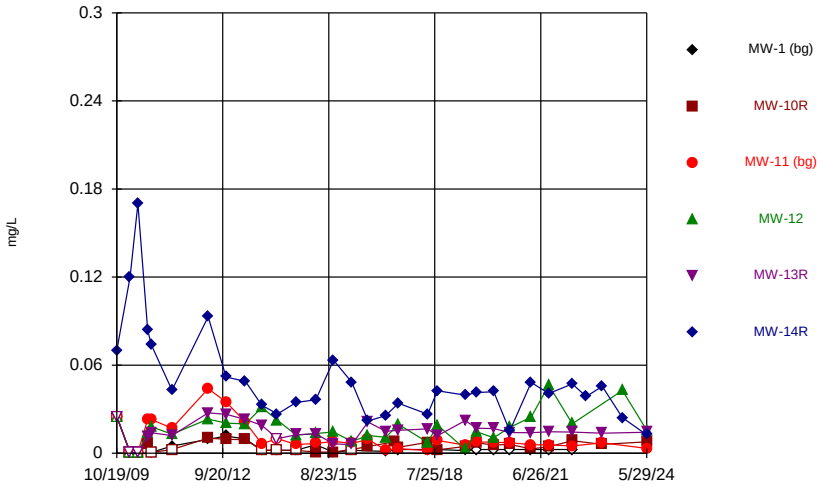
Time Series



Constituent: Lead Analysis Run 9/12/2024 2:03 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

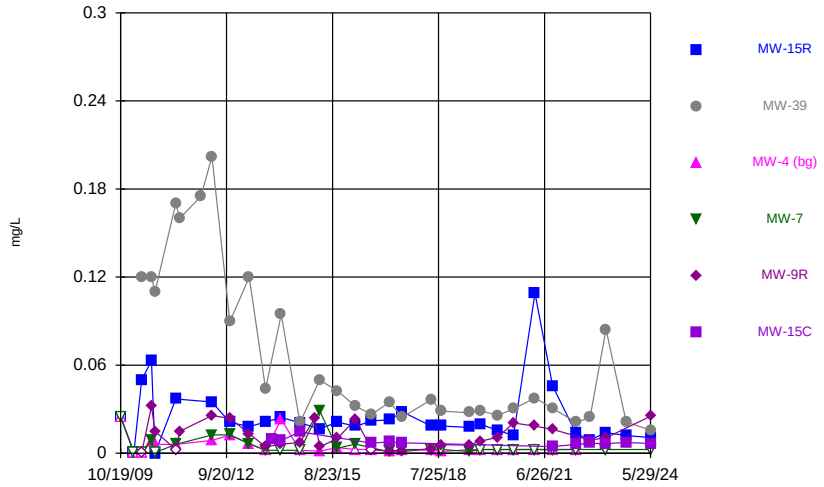
Time Series



Constituent: Nickel Analysis Run 9/12/2024 2:03 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

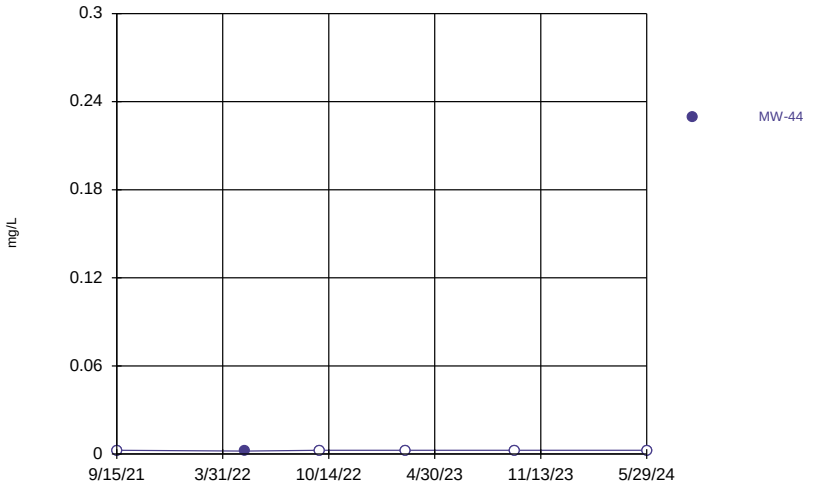
Time Series



Constituent: Nickel Analysis Run 9/12/2024 2:03 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

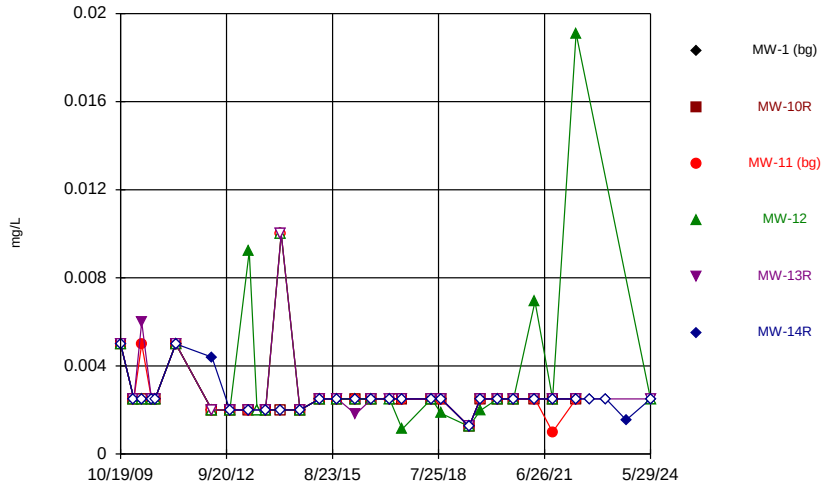
Time Series



Constituent: Nickel Analysis Run 9/12/2024 2:03 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

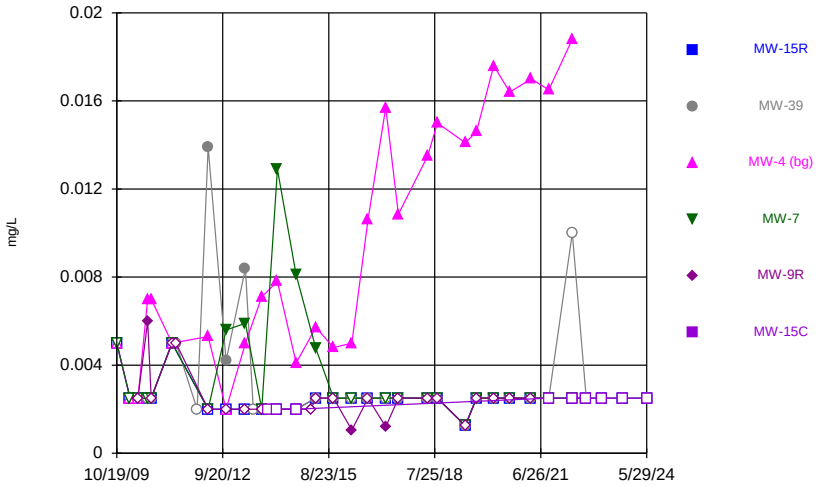
Time Series



Constituent: Selenium Analysis Run 9/12/2024 2:03 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

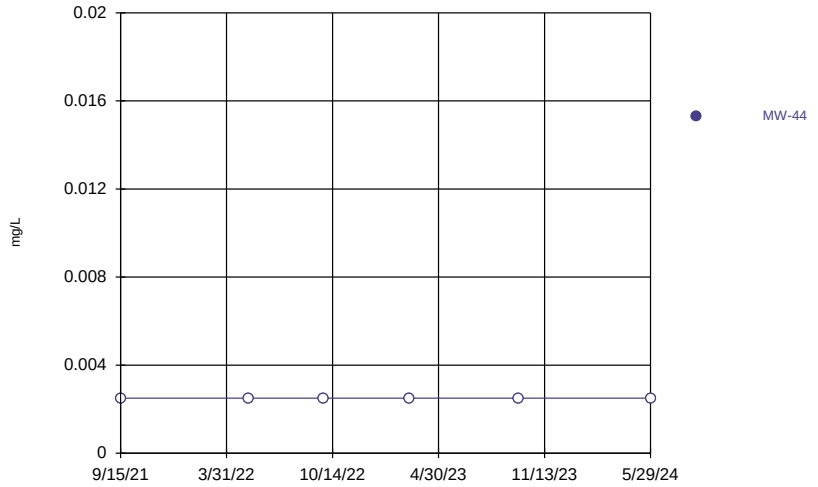
Time Series



Constituent: Selenium Analysis Run 9/12/2024 2:03 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

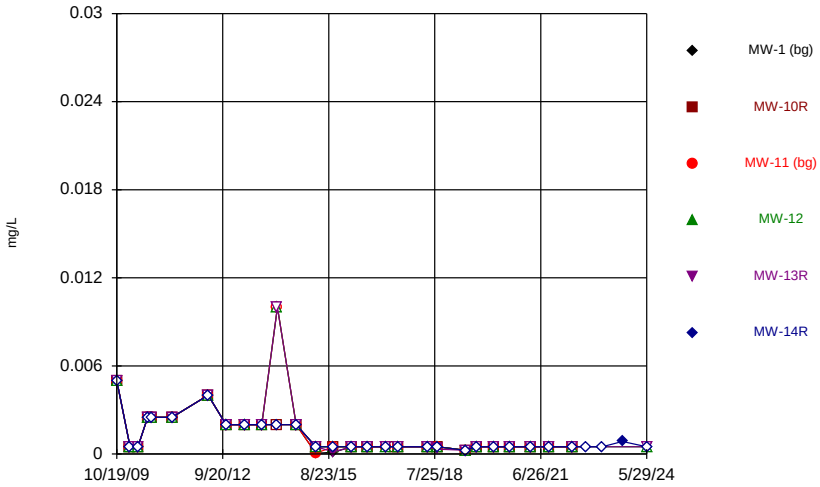
Time Series



Constituent: Selenium Analysis Run 9/12/2024 2:03 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

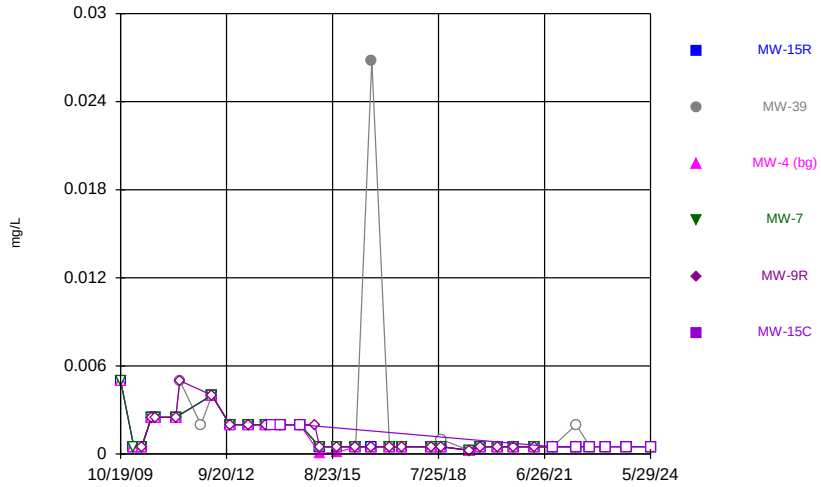
Time Series



Constituent: Silver Analysis Run 9/12/2024 2:03 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

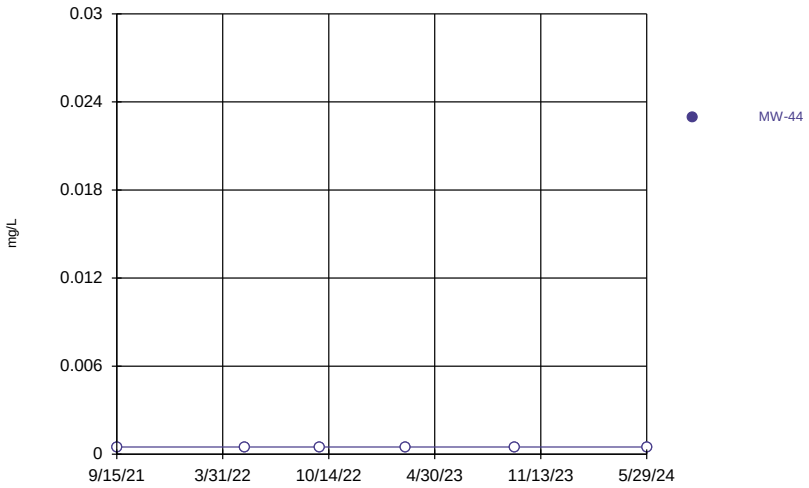
Time Series



Constituent: Silver Analysis Run 9/12/2024 2:03 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

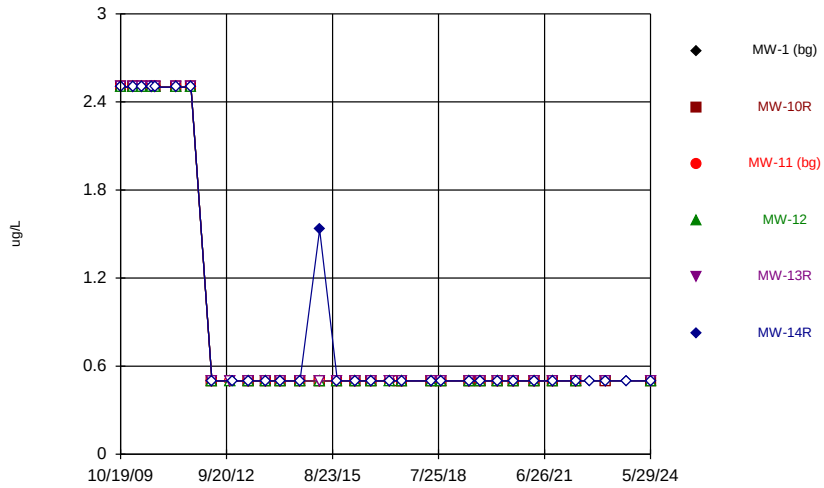
Time Series



Constituent: Silver Analysis Run 9/12/2024 2:03 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

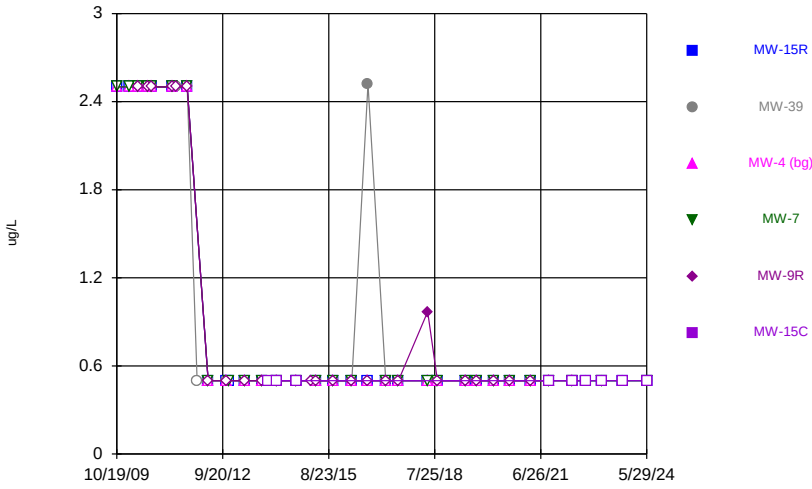
Time Series



Constituent: Styrene Analysis Run 9/12/2024 2:03 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

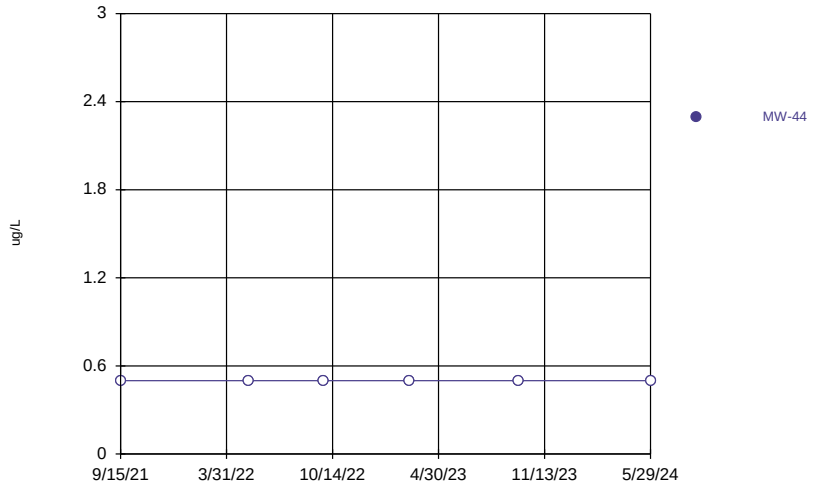
Time Series



Constituent: Styrene Analysis Run 9/12/2024 2:03 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Styrene Analysis Run 9/12/2024 2:03 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

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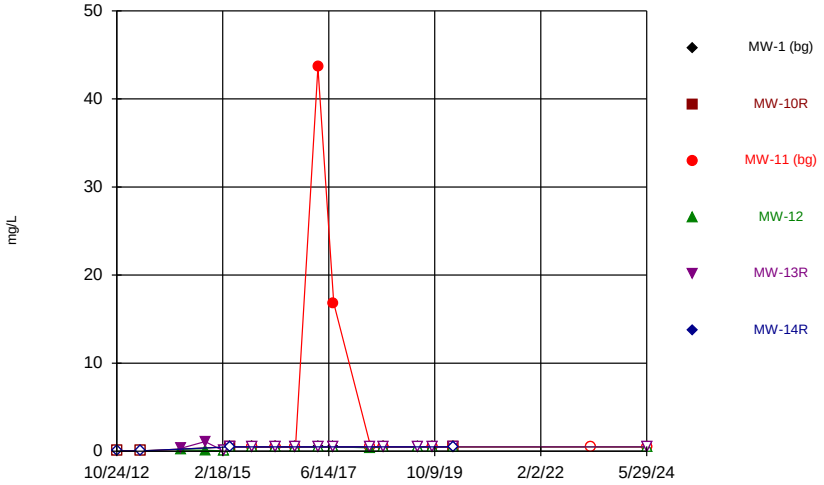
Hollow symbols indicate censored values.

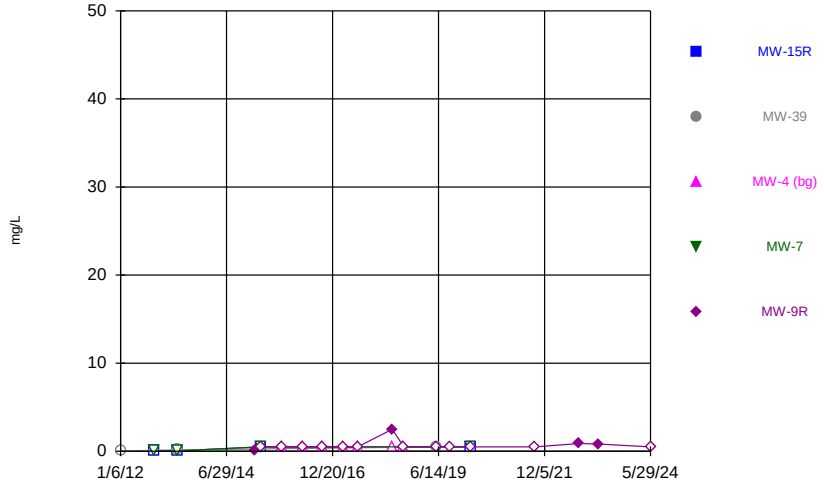
Time Series



Constituent: Sulfide Analysis Run 9/12/2024 2:03 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

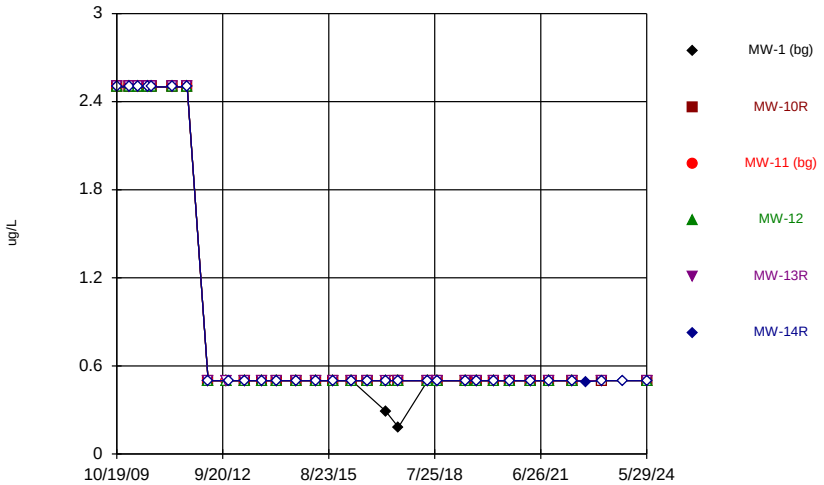
Time Series



Constituent: Sulfide Analysis Run 9/12/2024 2:03 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

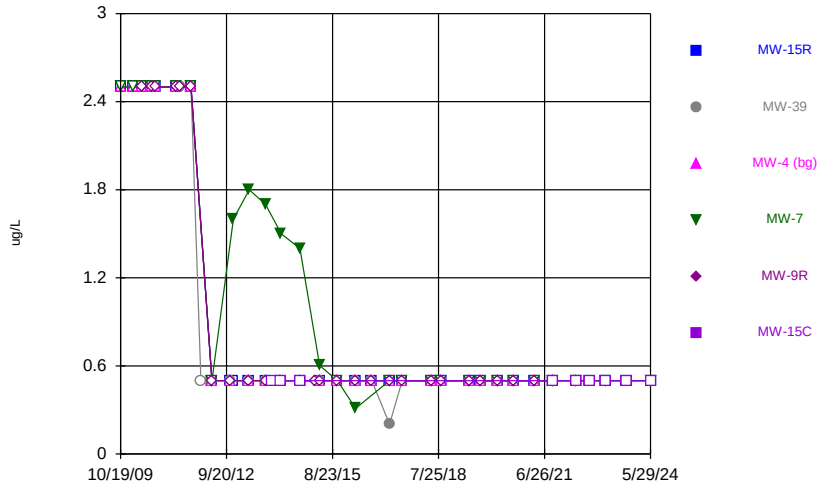
Time Series



Constituent: Tetrachloroethene Analysis Run 9/12/2024 2:03 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

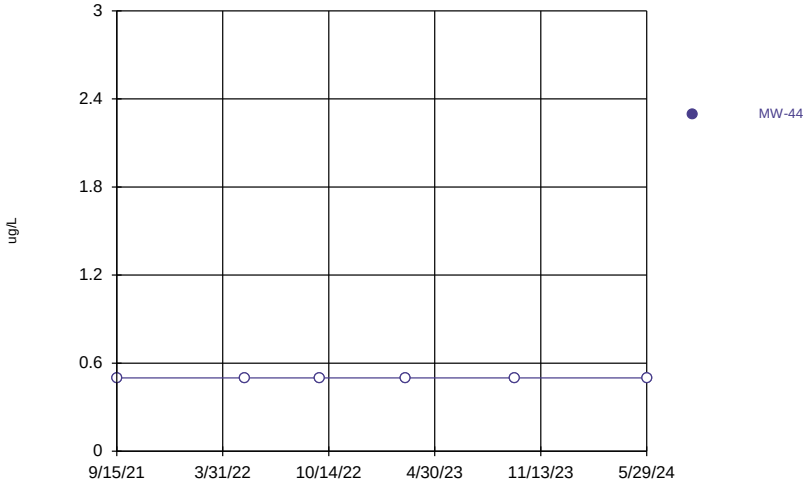
Time Series



Constituent: Tetrachloroethene Analysis Run 9/12/2024 2:03 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

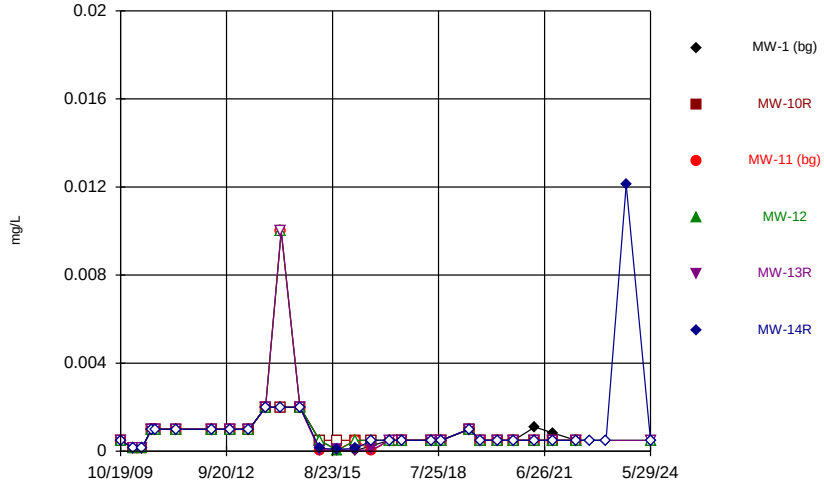
Time Series



Constituent: Tetrachloroethene Analysis Run 9/12/2024 2:03 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

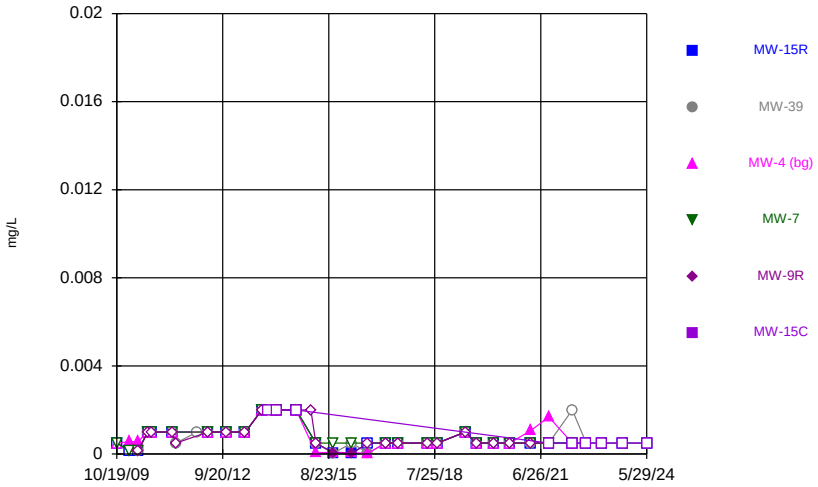
Time Series



Constituent: Thallium Analysis Run 9/12/2024 2:03 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

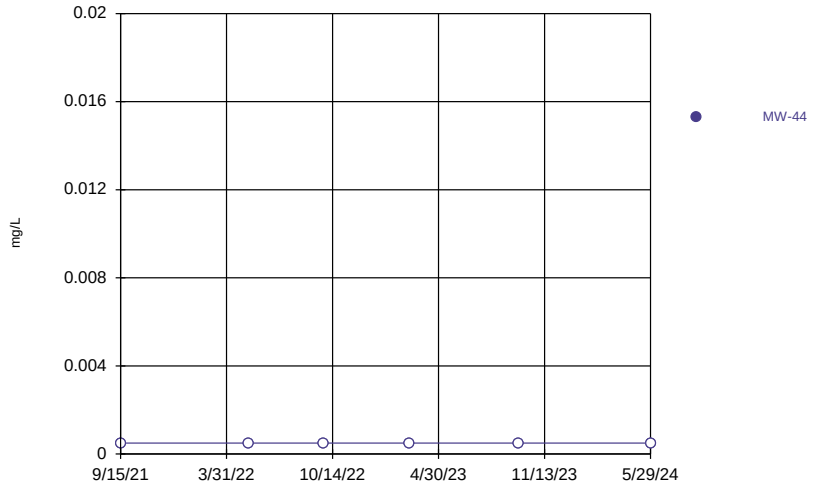
Time Series



Constituent: Thallium Analysis Run 9/12/2024 2:03 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

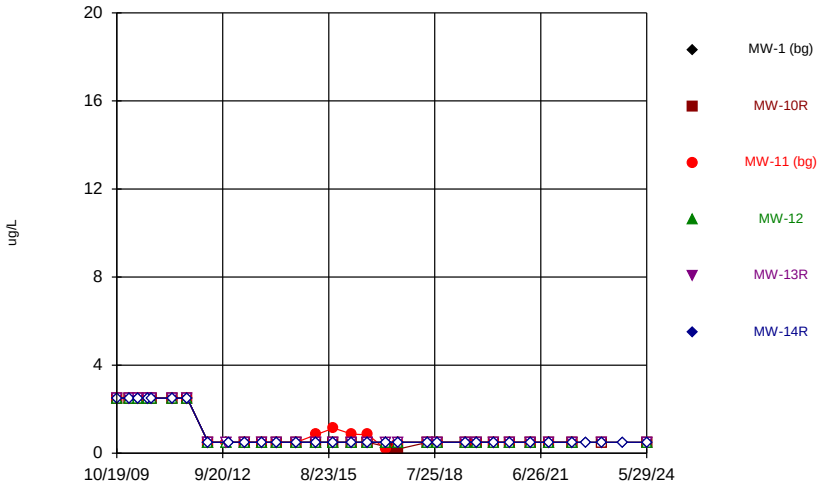
Time Series



Constituent: Thallium Analysis Run 9/12/2024 2:03 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

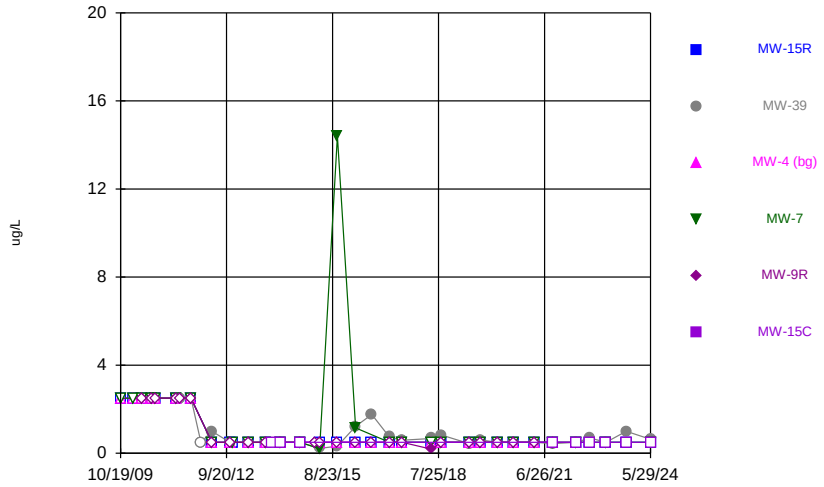
Time Series



Constituent: Toluene Analysis Run 9/12/2024 2:03 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

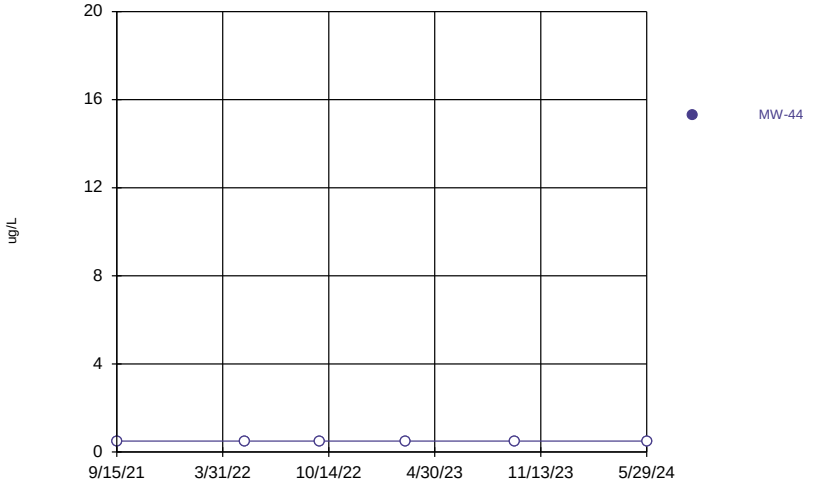
Time Series



Constituent: Toluene Analysis Run 9/12/2024 2:03 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

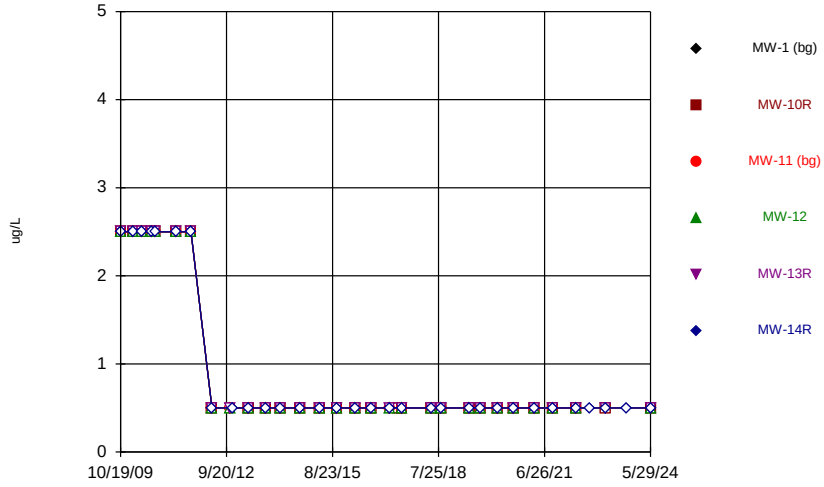
Time Series



Constituent: Toluene Analysis Run 9/12/2024 2:03 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

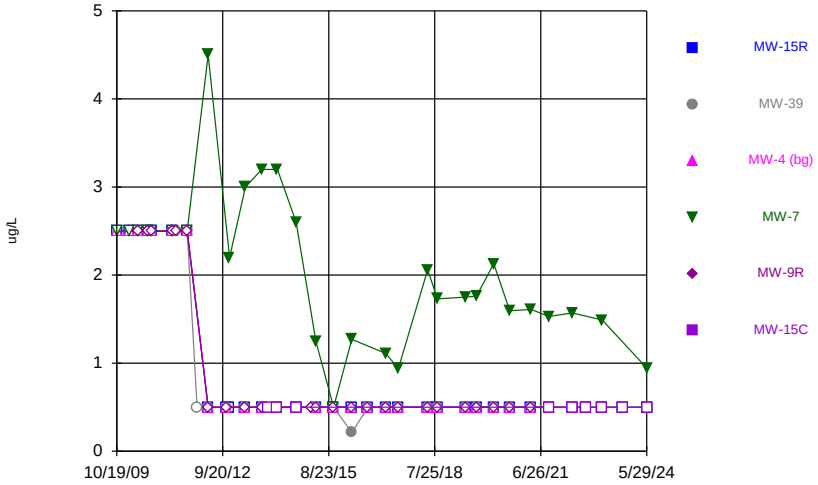
Time Series



Constituent: Trichloroethene Analysis Run 9/12/2024 2:03 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

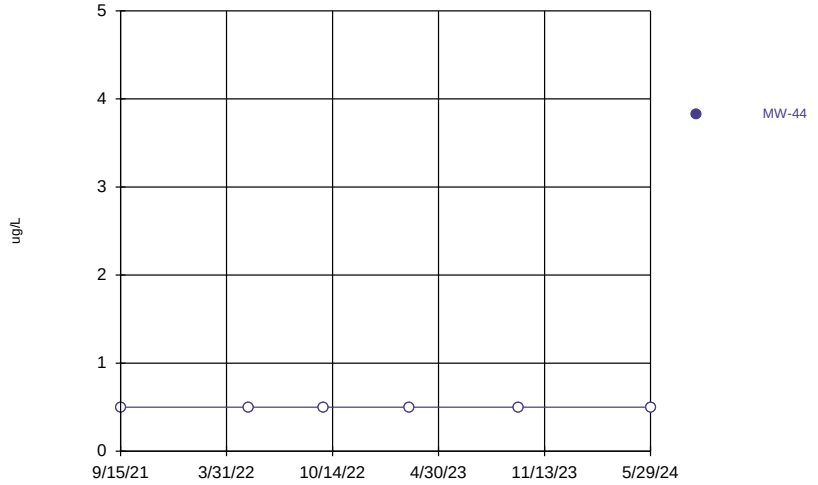
Time Series



Constituent: Trichloroethene Analysis Run 9/12/2024 2:03 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

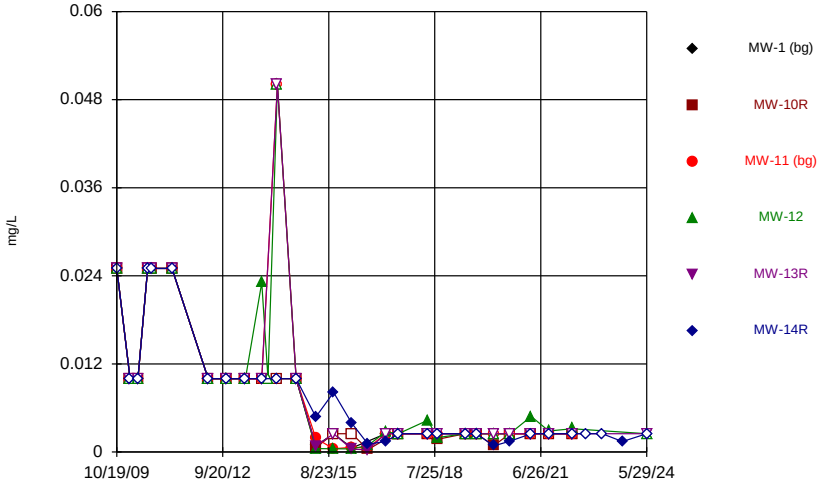
Time Series



Constituent: Trichloroethene Analysis Run 9/12/2024 2:03 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Vanadium Analysis Run 9/12/2024 2:03 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

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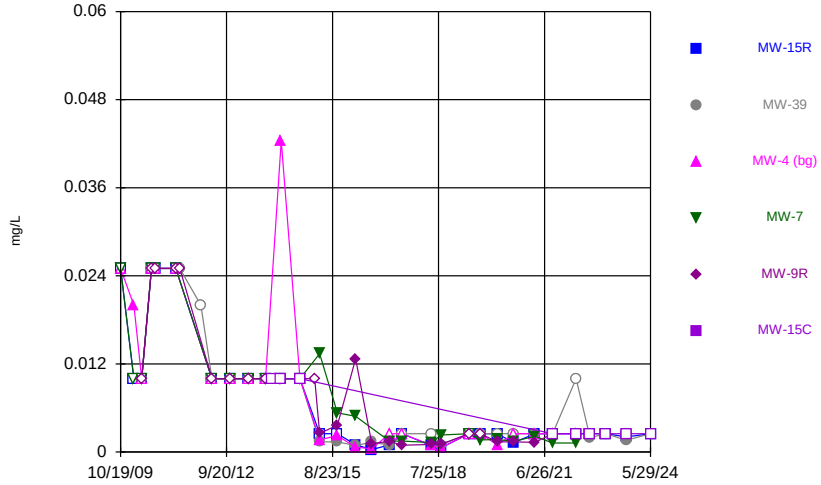
Hollow symbols indicate censored values.

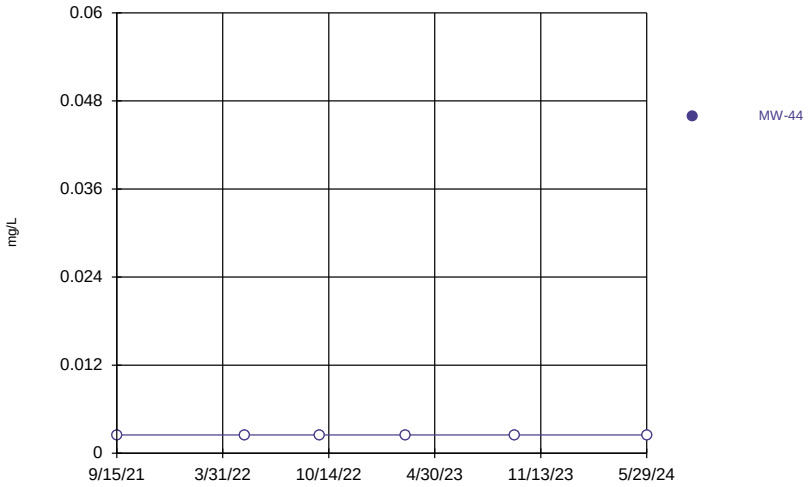
Time Series



Constituent: Vanadium Analysis Run 9/12/2024 2:03 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

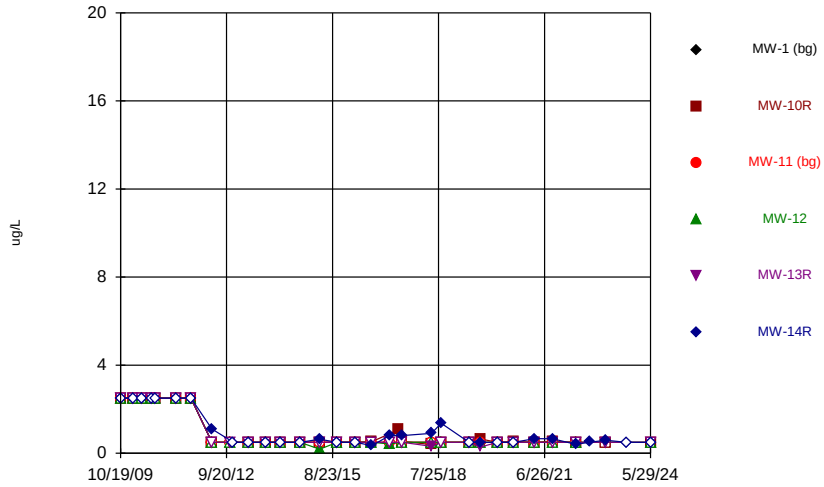
Time Series



Constituent: Vanadium Analysis Run 9/12/2024 2:03 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

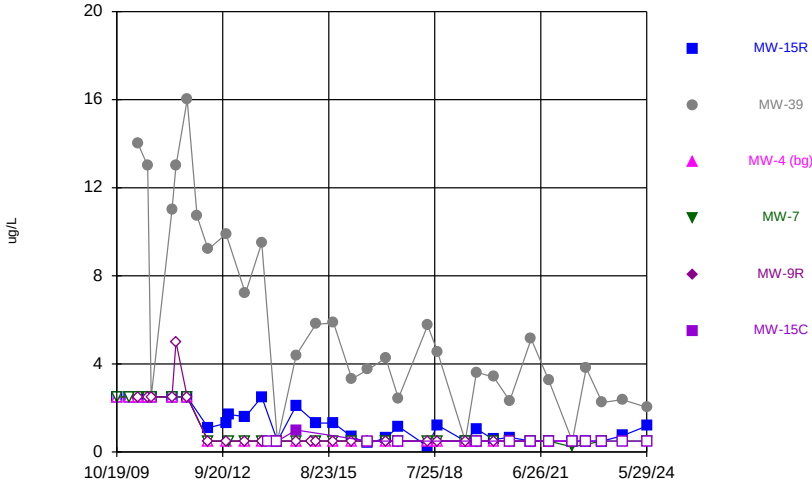
Time Series



Constituent: Vinyl Chloride Analysis Run 9/12/2024 2:03 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

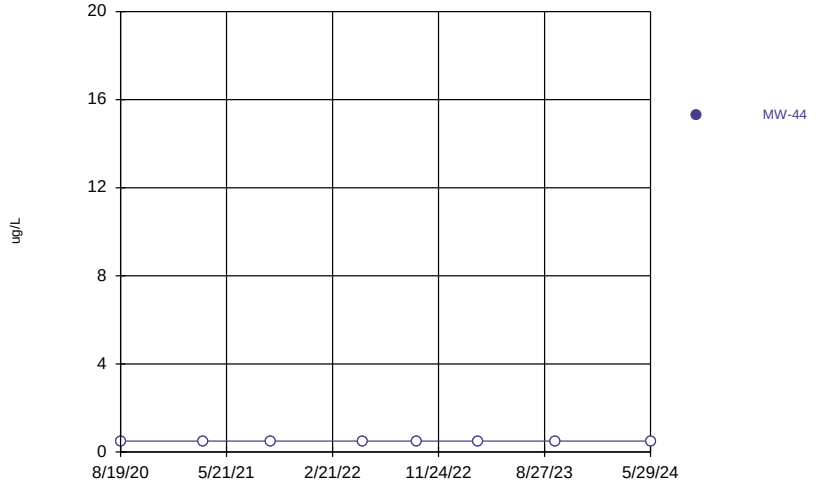
Time Series



Constituent: Vinyl Chloride Analysis Run 9/12/2024 2:03 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Vinyl Chloride Analysis Run 9/12/2024 2:03 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

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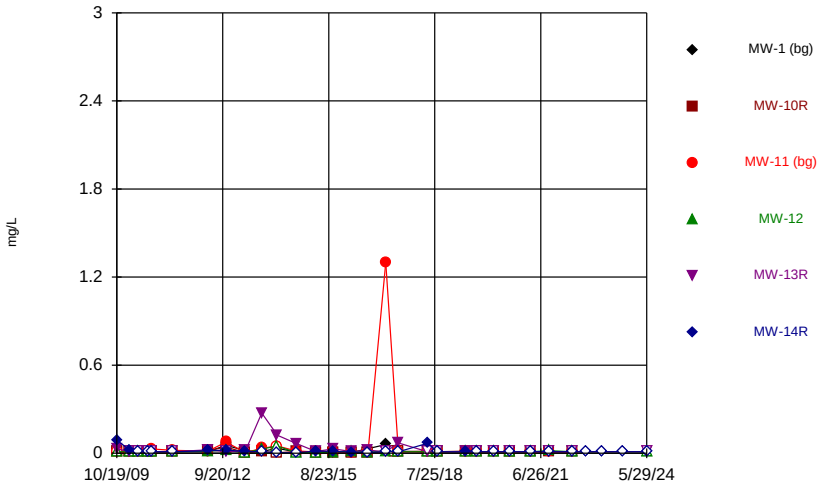
Hollow symbols indicate censored values.

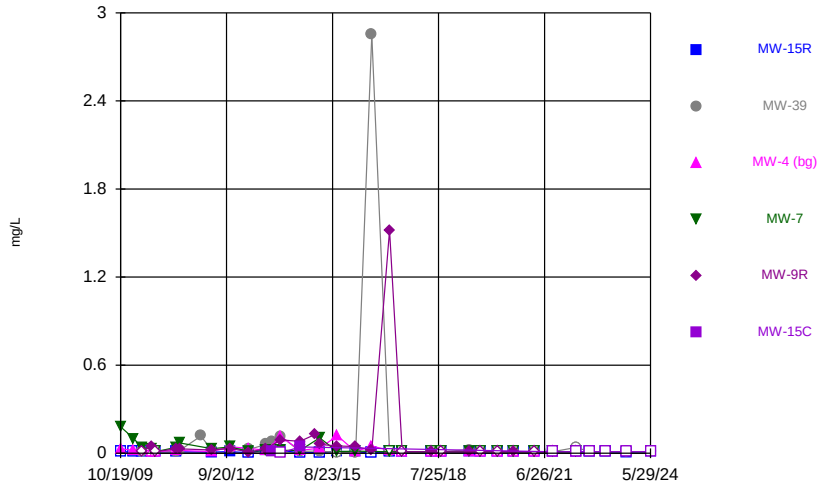
Time Series



Constituent: Zinc Analysis Run 9/12/2024 2:03 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Zinc Analysis Run 9/12/2024 2:03 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

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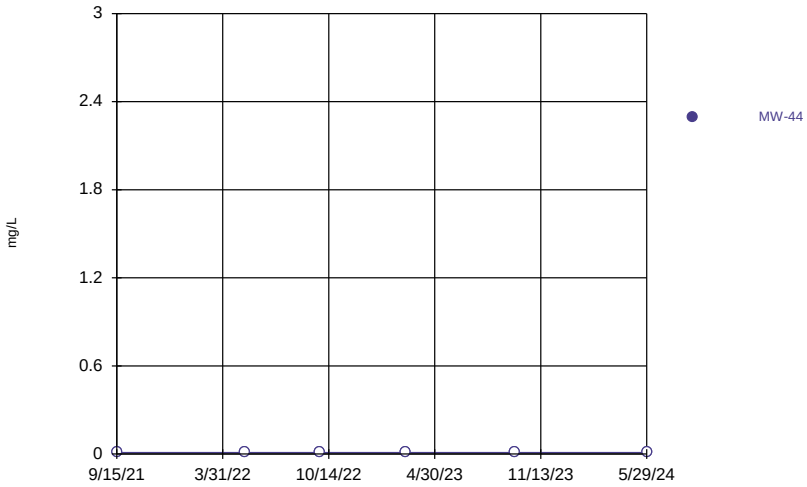
Hollow symbols indicate censored values.

Time Series



Constituent: Zinc Analysis Run 9/12/2024 2:03 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Time Series Plots – Open MSWLF Unit

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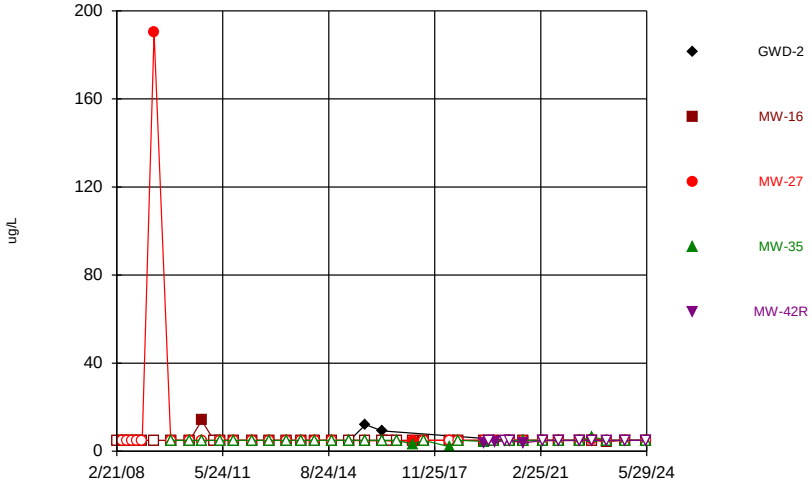
Time Series



Constituent: Acetone Analysis Run 9/4/2024 12:54 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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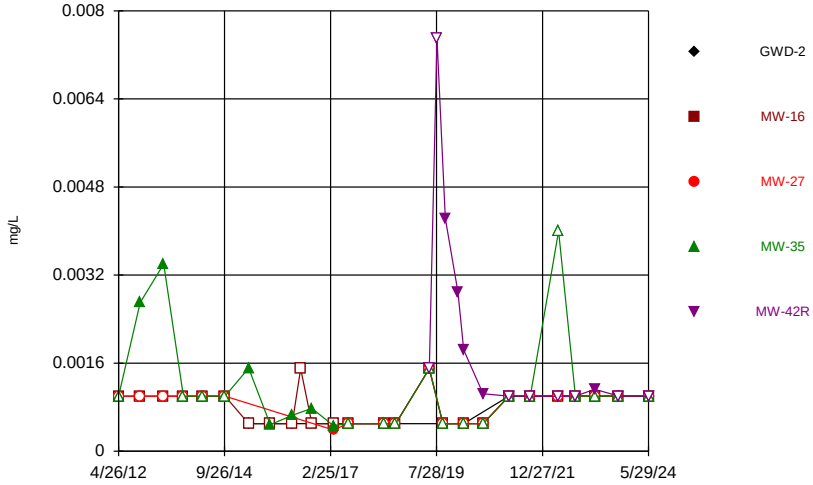
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Analysis Run 9/4/2024 12:54 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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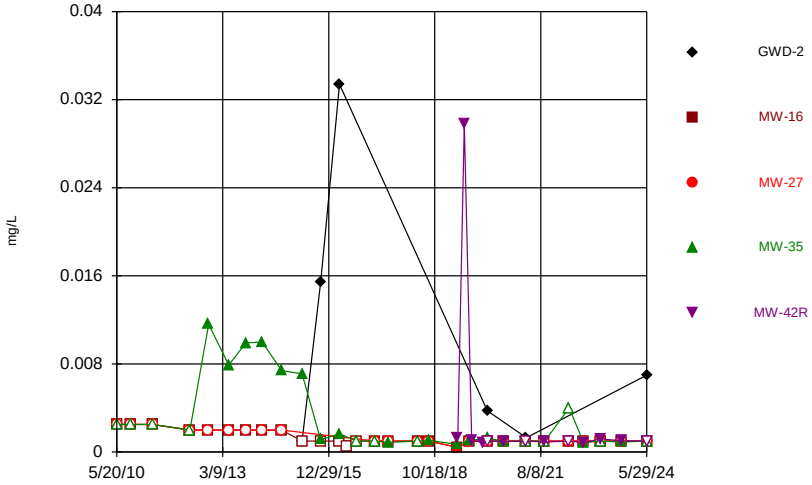
Hollow symbols indicate censored values.

Time Series



Constituent: Arsenic Analysis Run 9/4/2024 12:54 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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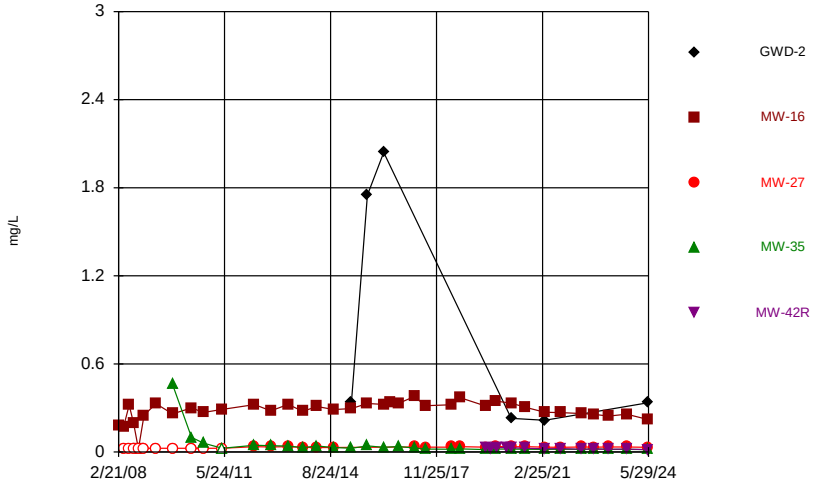
Hollow symbols indicate censored values.

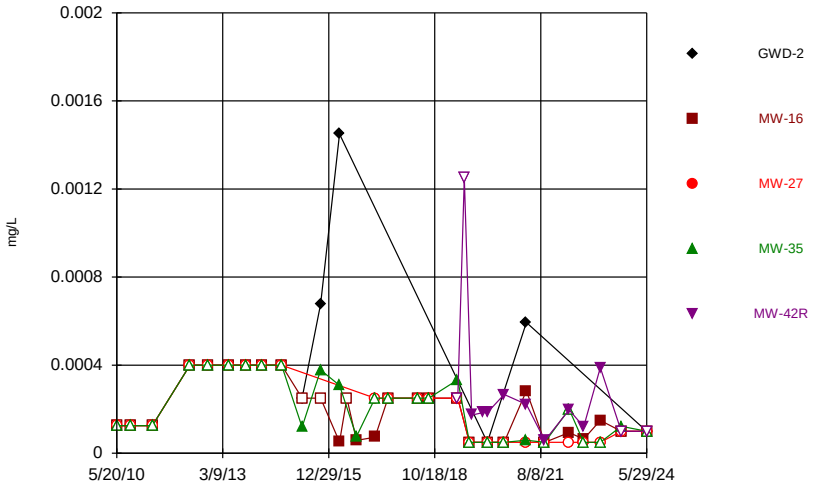
Time Series



Constituent: Barium Analysis Run 9/4/2024 12:54 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

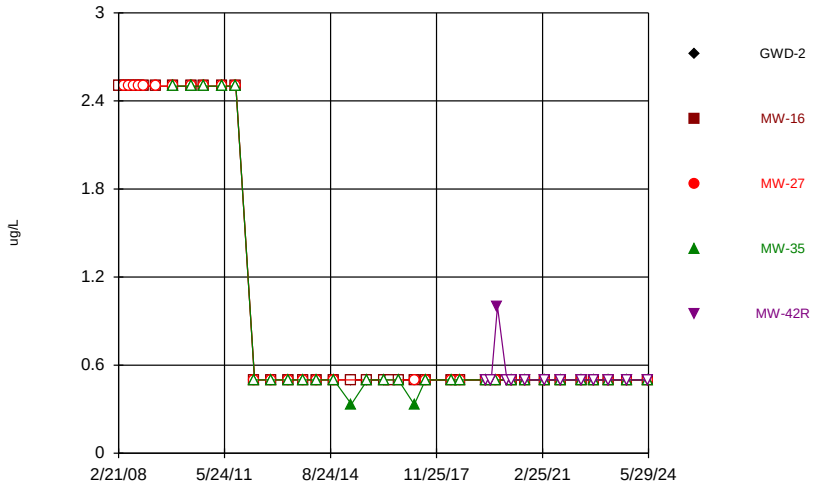
Time Series



Constituent: Cadmium Analysis Run 9/4/2024 12:54 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

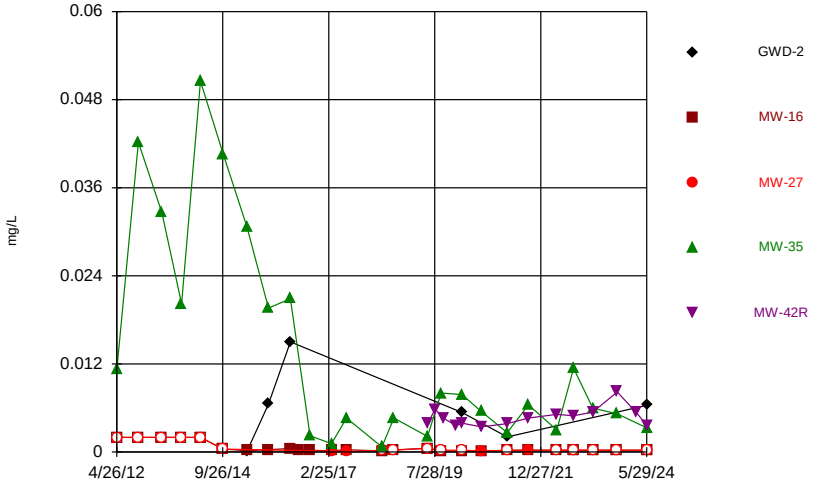
Time Series



Constituent: Carbon Disulfide Analysis Run 9/4/2024 12:54 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

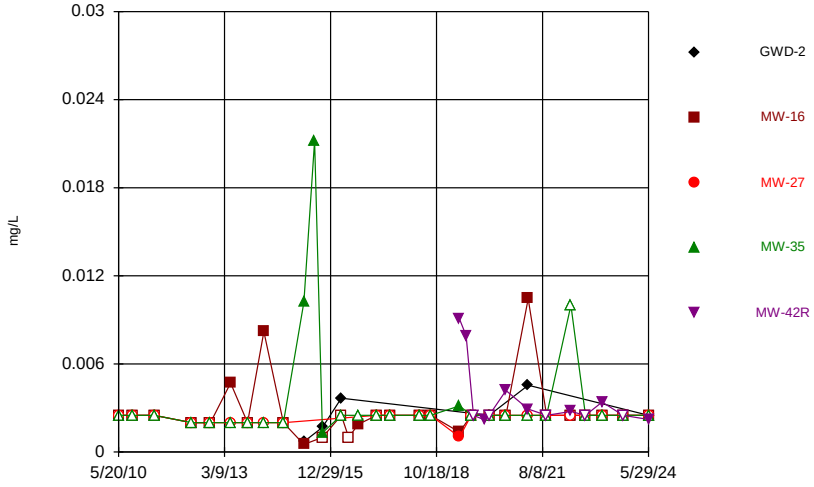
Time Series



Constituent: Cobalt Analysis Run 9/4/2024 12:54 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

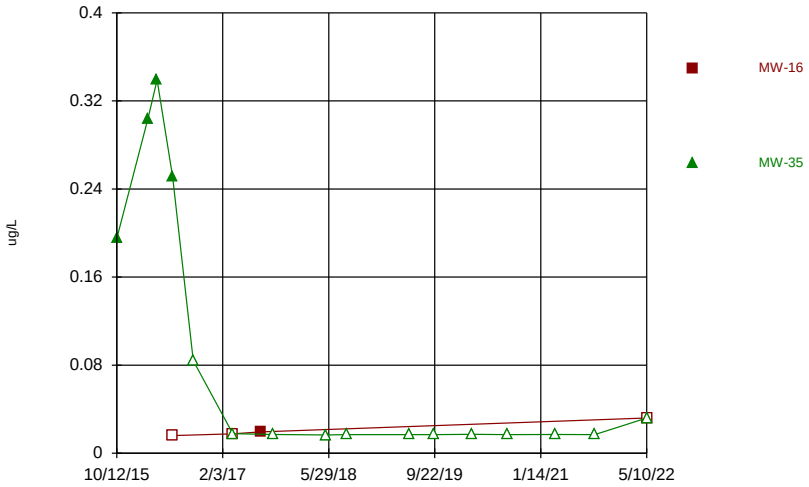
Time Series



Constituent: Copper Analysis Run 9/4/2024 12:54 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

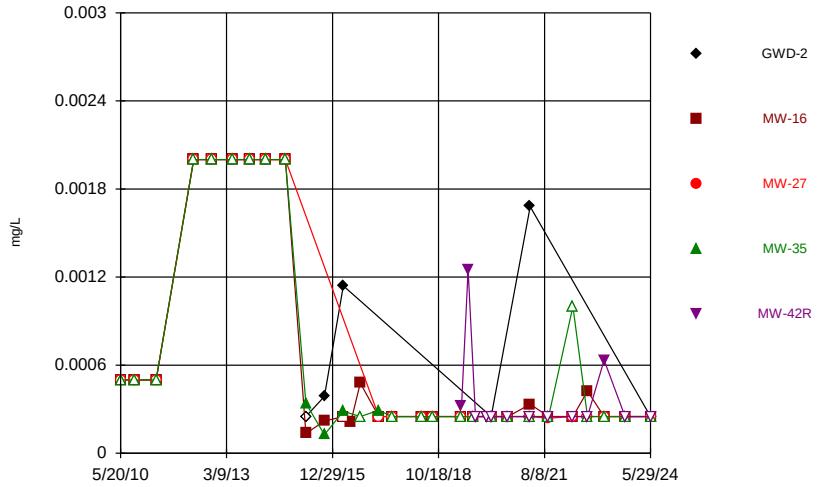
Time Series



Constituent: Endrin aldehyde Analysis Run 9/4/2024 12:54 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

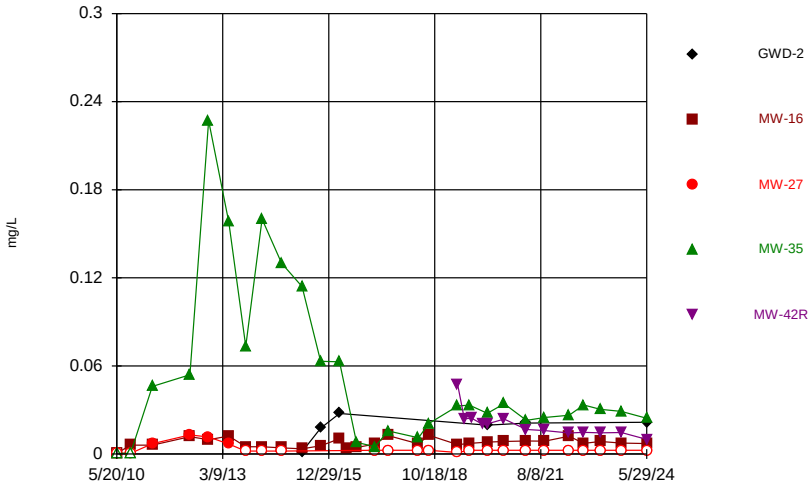
Time Series



Constituent: Lead Analysis Run 9/4/2024 12:54 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

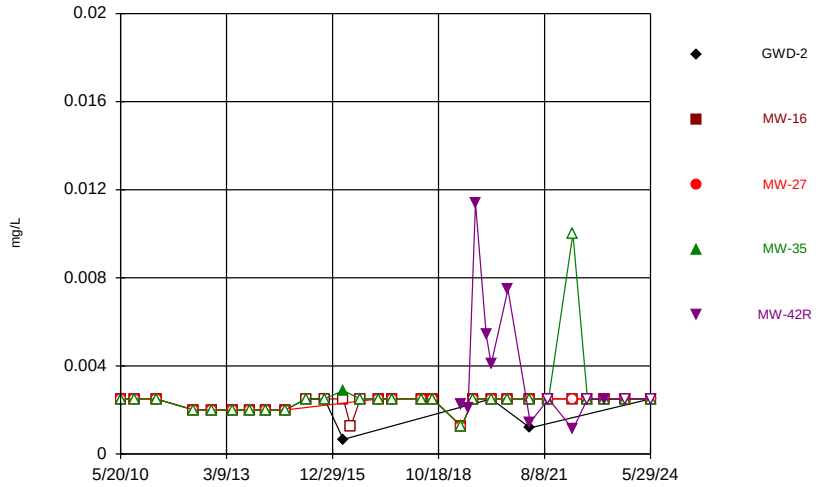
Time Series



Constituent: Nickel Analysis Run 9/4/2024 12:54 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

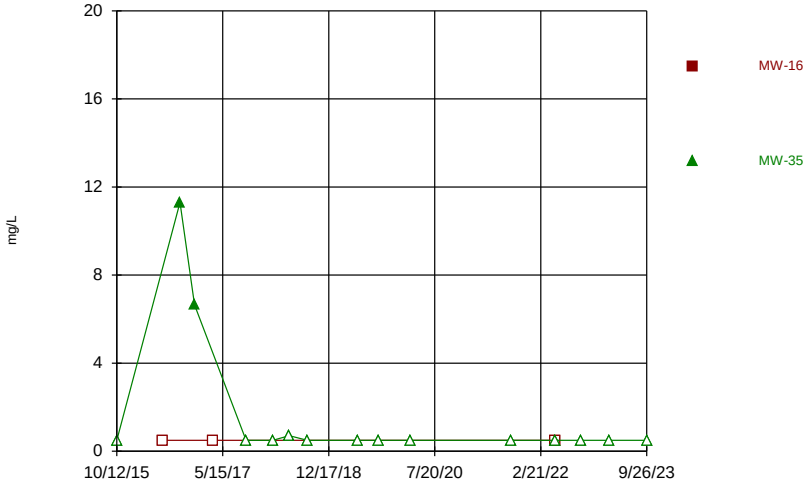
Time Series



Constituent: Selenium Analysis Run 9/4/2024 12:54 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

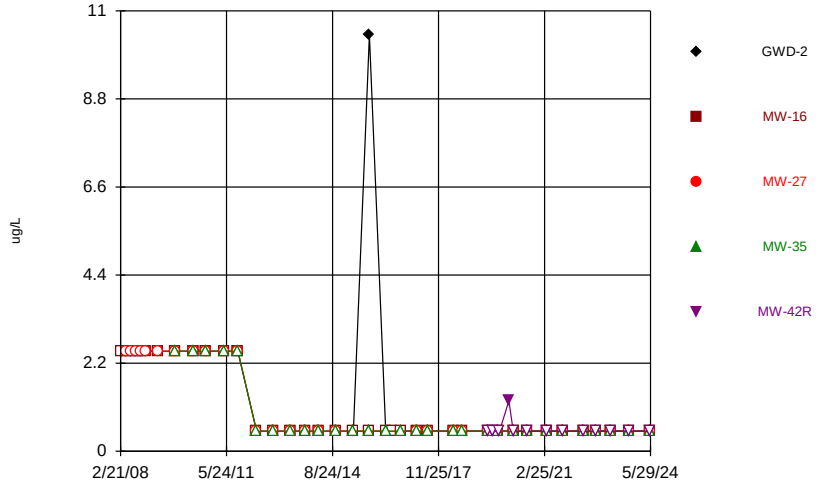
Time Series



Constituent: Sulfide Analysis Run 9/4/2024 12:54 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Toluene Analysis Run 9/4/2024 12:54 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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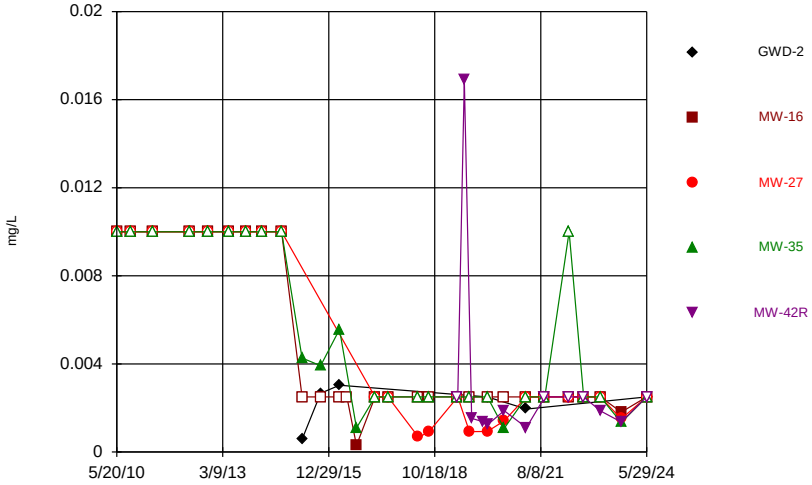
Hollow symbols indicate censored values.

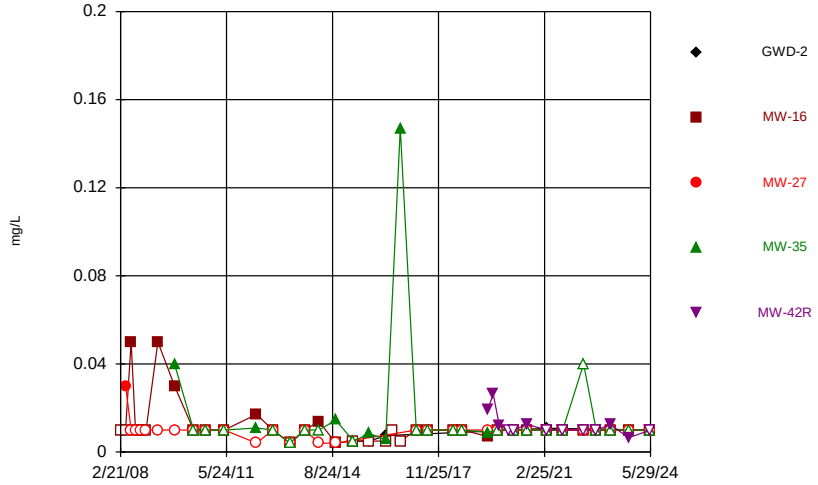
Time Series



Constituent: Vanadium Analysis Run 9/4/2024 12:54 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Zinc Analysis Run 9/4/2024 12:54 PM View: 2024SSN - Time Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Outlier Test Summary Table and Graphs – Closed MSWLF Unit

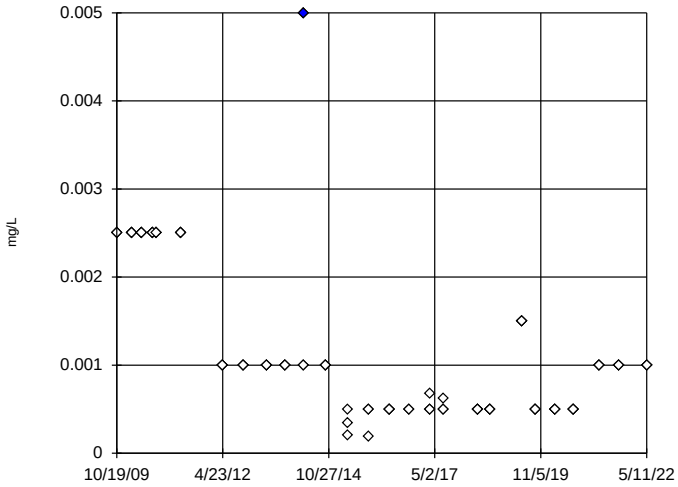
Outlier Analysis

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master Printed 9/12/2024, 2:57 PM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Normality Test
Antimony (mg/L)	**MW-1,MW-11,MW-4**	**Yes**	**0.005**	**n/a w/combined bg**	**OH**	**NaN**	**80**	**0.0012**	**0.0008913**	**n/a**
Arsenic (mg/L)	**MW-1,MW-11,MW-4**	**Yes**	**0.0064,0.005,0.005**	**n/a w/combined bg**	**OH**	**NaN**	**81**	**0.001752**	**0.001243**	**n/a**
Barium (mg/L)	MW-11,MW-1,MW-4	No	n/a	n/a w/combined bg	EPA/OH	0.05	82	0.03684	0.02306	ShapiroFrancia
Cadmium (mg/L)	**MW-1,MW-11,MW-4**	**Yes**	**0.0066,0.0079,0.0105,0.0494**	**n/a w/combined bg**	**NP (nrm)/OH**	**NaN**	**80**	**0.001727**	**0.005707**	**ShapiroFrancia**
Chromium (mg/L)	**MW-1,MW-11,MW-4**	**Yes**	**0.014,0.0125,0.01,0.01,0.01**	**n/a w/combined bg**	**OH**	**NaN**	**80**	**0.00396**	**0.002695**	**n/a**
Cobalt (mg/L)	**MW-1,MW-11,MW-4**	**Yes**	**0.0074**	**n/a w/combined bg**	**NP (nrm)/OH**	**NaN**	**63**	**0.0007968**	**0.001114**	**ShapiroFrancia**
Copper (mg/L)	**MW-1,MW-11,MW-4**	**Yes**	**0.005,0.005,0.005,0.0133,0.0068,0.0051,0.0111,0.0**	**n/a w/combined bg**	**NP (nrm)/OH**	**NaN**	**80**	**0.003762**	**0.00356**	**ShapiroFrancia**
Lead (mg/L)	MW-1,MW-11,MW-4	No	n/a	n/a w/combined bg	NP (nrm)/OH	NaN	82	0.002582	0.004646	ShapiroFrancia
Nickel (mg/L)	MW-11,MW-4,MW-1	No	n/a	n/a w/combined bg	EPA/OH	0.05	82	0.006801	0.008193	ShapiroFrancia
Selenium (mg/L)	MW-1,MW-11,MW-4	No	n/a	n/a w/combined bg	NP (nrm)/OH	NaN	80	0.004993	0.004639	ShapiroFrancia
Silver (mg/L)	**MW-1,MW-11,MW-4**	**Yes**	**0.01,0.005,0.004,0.0025,0.0025,0.0025**	**n/a w/combined bg**	**OH**	**NaN**	**80**	**0.001371**	**0.001574**	**n/a**
Thallium (mg/L)	**MW-1,MW-11,MW-4**	**Yes**	**0.01,0.002,0.002**	**n/a w/combined bg**	**OH**	**NaN**	**80**	**0.0008656**	**0.001166**	**n/a**
Vanadium (mg/L)	**MW-1,MW-11,MW-4**	**Yes**	**0.05,0.0424**	**n/a w/combined bg**	**OH**	**NaN**	**80**	**0.008904**	**0.01017**	**n/a**
Zinc (mg/L)	**MW-1,MW-11,MW-4**	**Yes**	**0.0551,0.0598,0.0772,0.05,1.3,0.113,0.119**	**n/a w/combined bg**	**NP (nrm)/OH**	**NaN**	**80**	**0.03498**	**0.1447**	**ShapiroFrancia**

Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-11,MW-4



n = 80

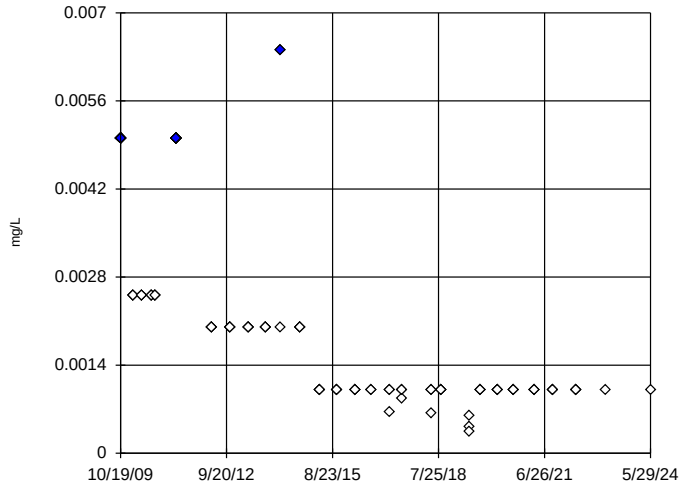
Statistical outlier is drawn as solid.
Outlier per Ohio method.

Constituent: Antimony Analysis Run 9/12/2024 2:40 PM View: 2024SSN - BG Outliers

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-11,MW-4



n = 81

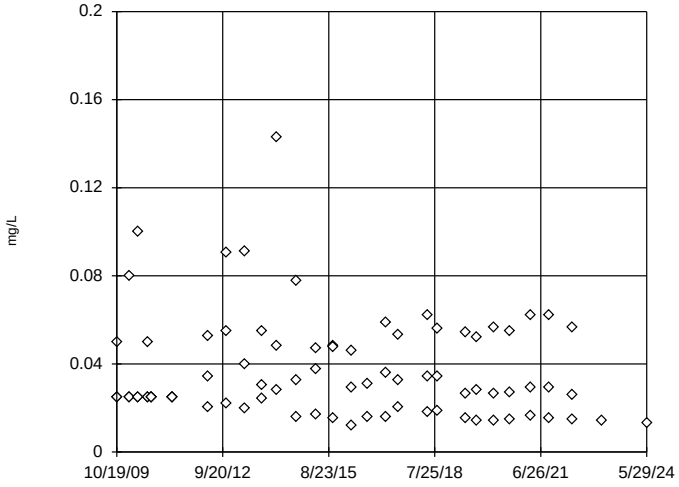
Statistical outliers are drawn as solid.
Outliers per Ohio method.

Constituent: Arsenic Analysis Run 9/12/2024 2:40 PM View: 2024SSN - BG Outliers

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

EPA Screening (suspected outliers for Rosner's Test)

MW-11,MW-1,MW-4



n = 82

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.03684, std. dev. 0.02306, critical Tn 3.139

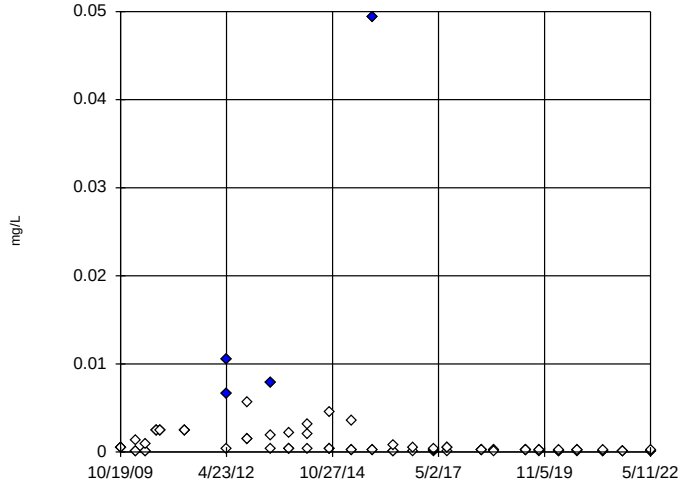
Normality test used:
Shapiro Francia@alpha = 0.01
Calculated = 0.9662
Critical = 0.959 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Barium Analysis Run 9/12/2024 2:40 PM View: 2024SSN - BG Outliers

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-11,MW-4



n = 80

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Francia normality test failed at the 0.01 alpha level.

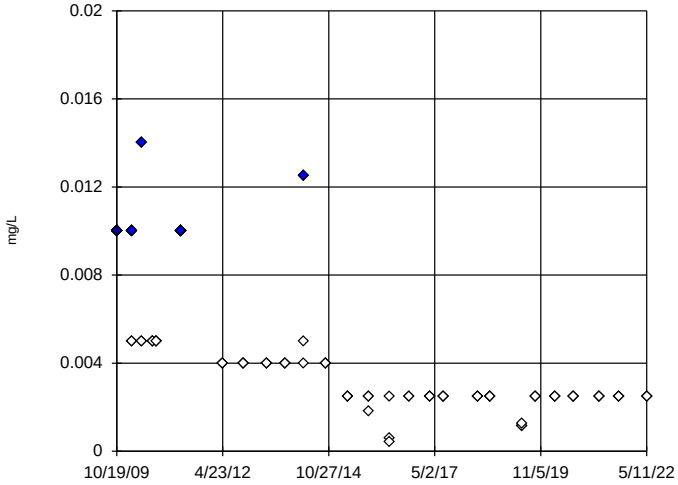
High cutoff = 0.006404, low cutoff = -0.004572, based on IQR multiplier of 3.

Constituent: Cadmium Analysis Run 9/12/2024 2:40 PM View: 2024SSN - BG Outliers

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-11,MW-4



n = 80

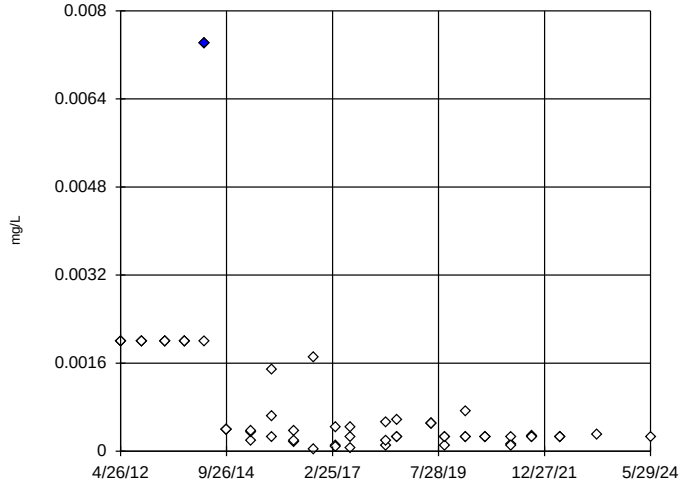
Statistical outliers are drawn as solid.
Outliers per Ohio method.

Constituent: Chromium Analysis Run 9/12/2024 2:40 PM View: 2024SSN - BG Outliers

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-11,MW-4



n = 63

Outlier is drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Francia normality test failed at the 0.01 alpha level.

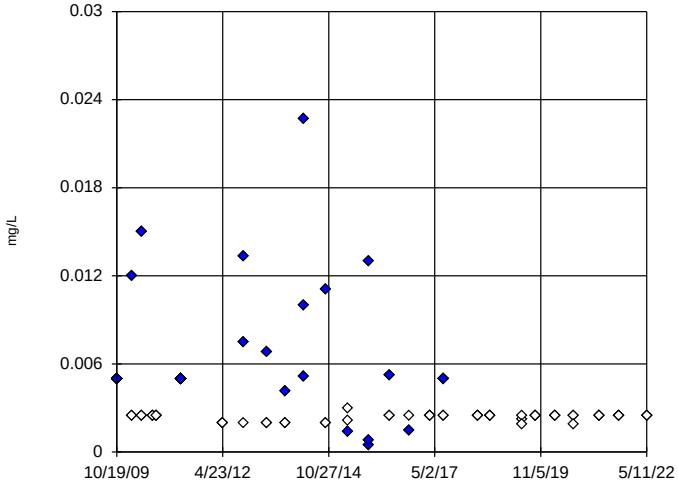
High cutoff = 0.00521, low cutoff = -0.00347, based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 9/12/2024 2:40 PM View: 2024SSN - BG Outliers

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-11,MW-4



n = 80

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Francia normality test failed at the 0.01 alpha level.

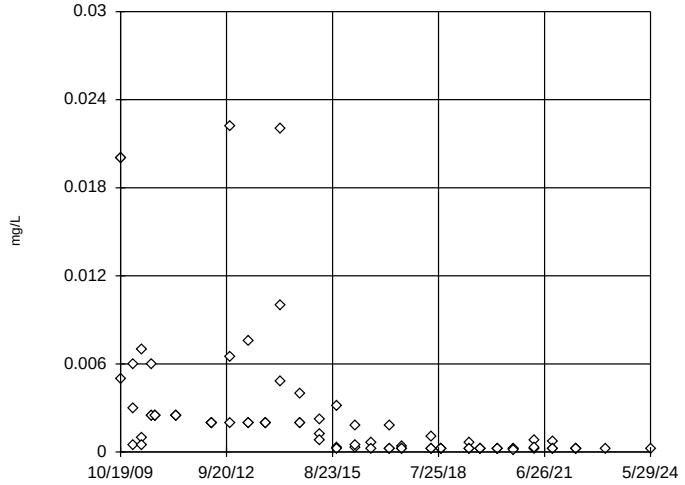
High cutoff = 0.0034, low cutoff = 0.001825, based on IQR multiplier of 3.

Constituent: Copper Analysis Run 9/12/2024 2:40 PM View: 2024SSN - BG Outliers

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-11,MW-4



n = 82

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Francia normality test failed at the 0.01 alpha level.

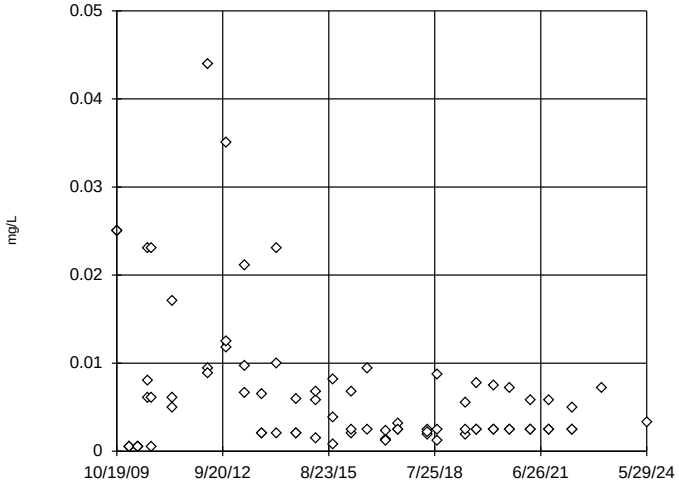
The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Lead Analysis Run 9/12/2024 2:40 PM View: 2024SSN - BG Outliers

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

EPA Screening (suspected outliers for Rosner's Test)

MW-11,MW-4,MW-1



n = 82

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.006801, std. dev. 0.008193, critical Tn 3.139

Normality test used:
Shapiro Francia@alpha = 0.01
Calculated = 0.9642
Critical = 0.959 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Nickel Analysis Run 9/12/2024 2:40 PM View: 2024SSN - BG Outliers

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

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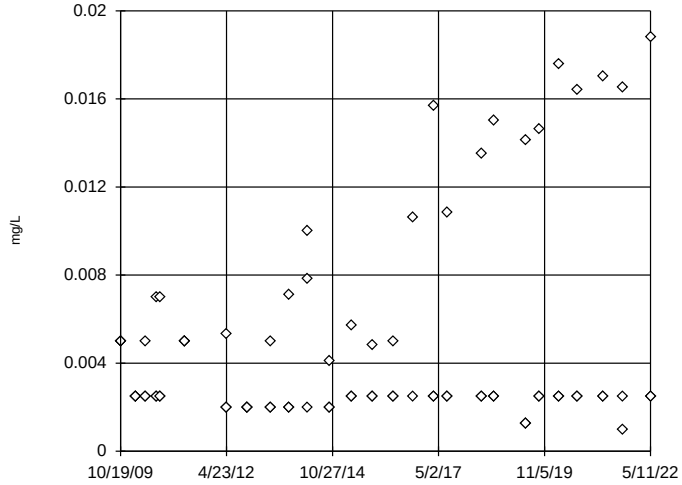
Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-11,MW-4



n = 80

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Francia normality test failed at the 0.01 alpha level.

The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Selenium Analysis Run 9/12/2024 2:41 PM View: 2024SSN - BG Outliers

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

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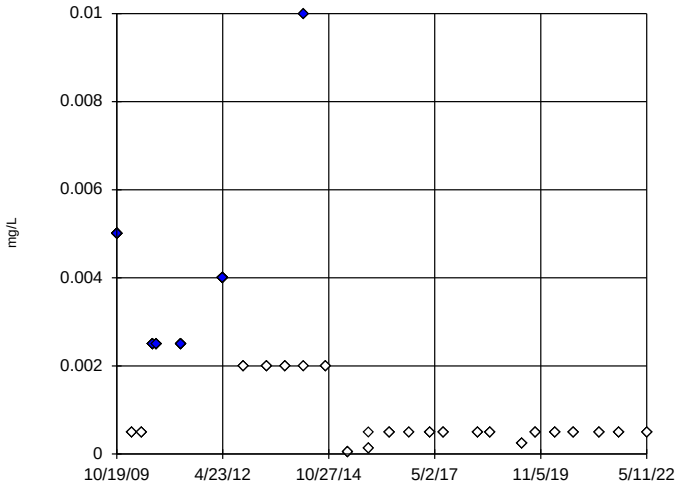
Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-11,MW-4



n = 80

Statistical outliers are drawn as solid.
Outliers per Ohio method.

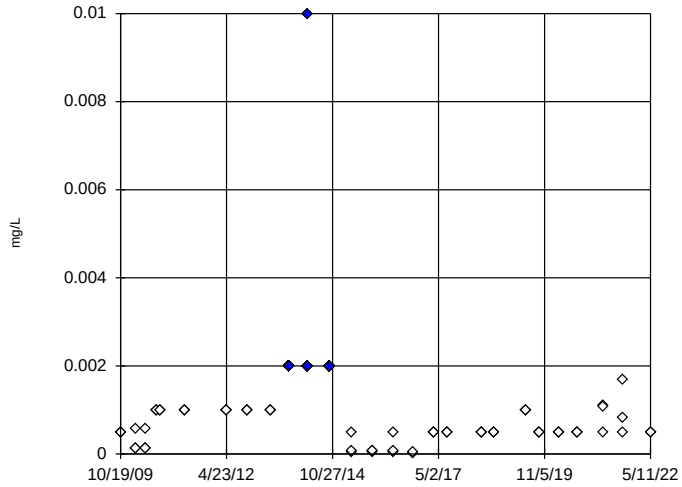
Constituent: Silver Analysis Run 9/12/2024 2:41 PM View: 2024SSN - BG Outliers

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-11,MW-4



n = 80

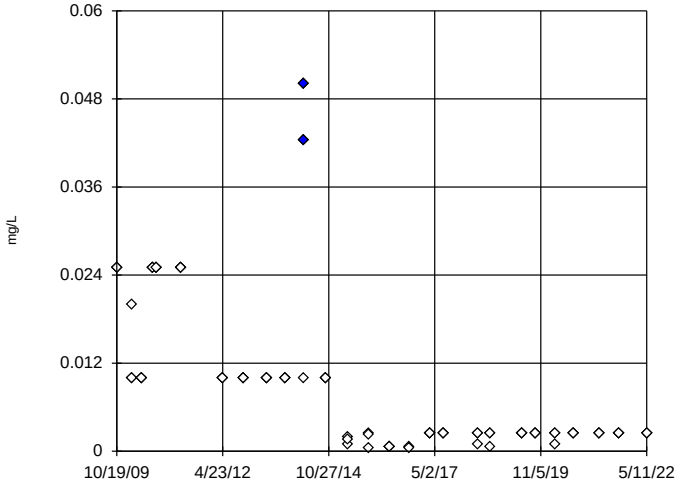
Statistical outliers are drawn as solid.
Outliers per Ohio method.

Constituent: Thallium Analysis Run 9/12/2024 2:41 PM View: 2024SSN - BG Outliers

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-11,MW-4



n = 80

Statistical outliers are drawn as solid.
Outliers per Ohio method.

Constituent: Vanadium Analysis Run 9/12/2024 2:41 PM View: 2024SSN - BG Outliers

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

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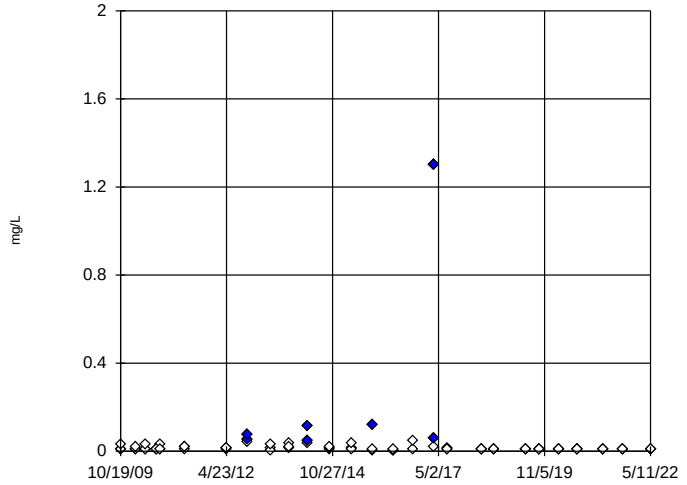
Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-11,MW-4



n = 80

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Francia normality test failed at the 0.01 alpha level.

High cutoff = 0.05, low cutoff = -0.02, based on IQR multiplier of 3.

Constituent: Zinc Analysis Run 9/12/2024 2:41 PM View: 2024SSN - BG Outliers

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

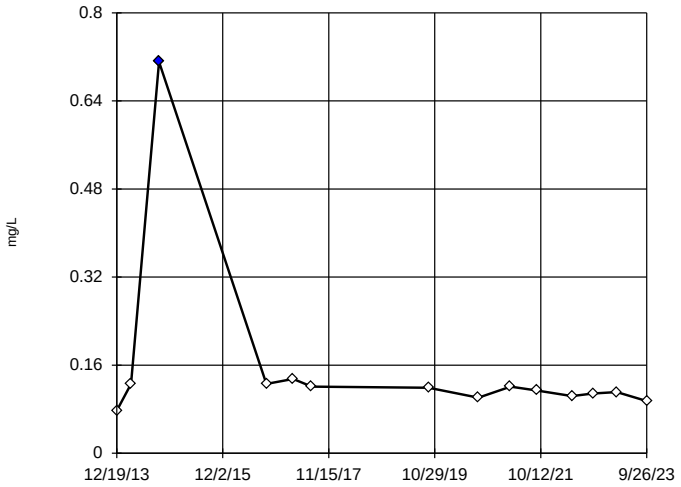
Outlier Analysis

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master Printed 9/12/2024, 5:34 PM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Normality Test
Barium (mg/L)	**MW-15C**	**Yes**	**0.711**	**9/30/2014**	**Dixon/OH**	**0.01**	**14**	**0.155**	**0.1607**	**ShapiroWilk**
Cadmium (mg/L)	MW-15C	No	n/a	n/a	EPA/OH	0.05	8	0.001839	0.002733	ShapiroWilk
Cobalt (mg/L)	MW-15C	No	n/a	n/a	EPA/OH	0.05	17	0.0005391	0.0006417	ShapiroWilk
Nickel (mg/L)	MW-15C	No	n/a	n/a	EPA/OH	0.05	11	0.007845	0.002621	ShapiroWilk
Zinc (mg/L)	**MW-15C**	**Yes**	**0.0426**	**9/30/2014**	**OH**	**NaN**	**8**	**0.01342**	**0.01199**	**n/a**

Dixon's Outlier Test / Ohio EPA 0715 Outlier Algorithm

MW-15C



n = 14

Statistical outlier is drawn as solid.
Testing for 1 high and 1 low outliers.
Mean = 0.155.
Std. Dev. = 0.1607.
0.711: c = 0.959
tabl = 0.641.
0.0774: c = 0.4856
tabl = 0.641.
Alpha = 0.01.

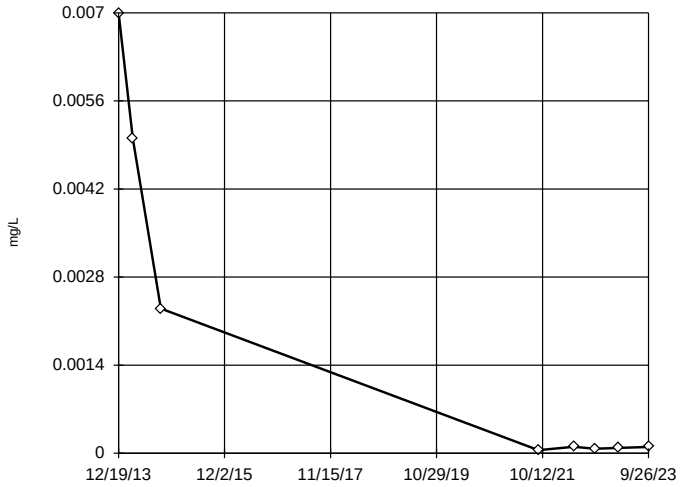
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.981
Critical = 0.805
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Barium Analysis Run 9/12/2024 5:31 PM View: 2024SSN MW-15C BG Update

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

EPA Screening (suspected outliers for Dixon's Test)

MW-15C



n = 8

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.001839, std. dev. 0.002733, critical Tn 2.032

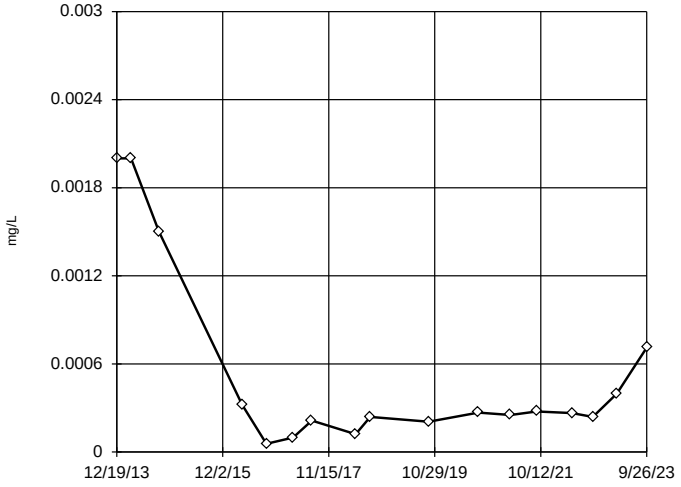
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.7789
Critical = 0.749 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Cadmium Analysis Run 9/12/2024 5:31 PM View: 2024SSN MW-15C BG Update

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

EPA Screening (suspected outliers for Dixon's Test)

MW-15C



n = 17

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.0005391, std. dev. 0.0006417, critical Tn 2.475

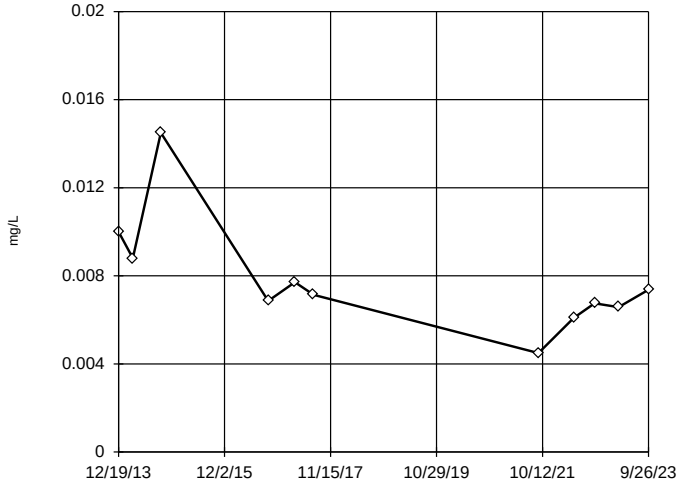
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9059
Critical = 0.851 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Cobalt Analysis Run 9/12/2024 5:31 PM View: 2024SSN MW-15C BG Update

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

EPA Screening (suspected outliers for Dixon's Test)

MW-15C



n = 11

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.007845, std. dev. 0.002621, critical Tn 2.234

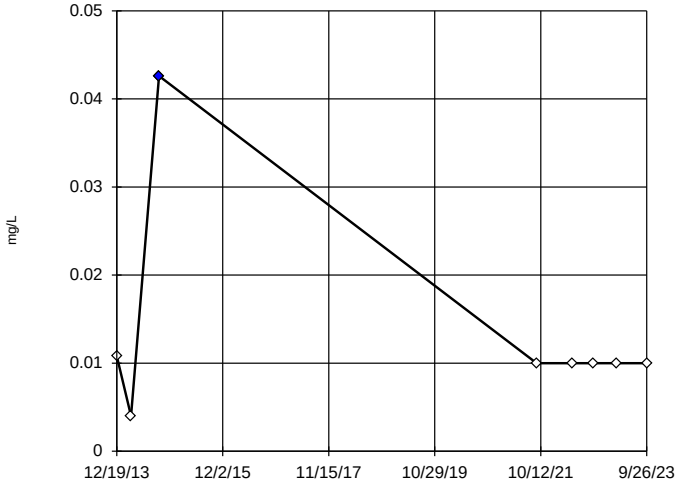
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8358
Critical = 0.792
The distribution was found to be normally distributed.

Constituent: Nickel Analysis Run 9/12/2024 5:31 PM View: 2024SSN MW-15C BG Update

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Ohio EPA 0715 Outlier Algorithm

MW-15C



n = 8

Statistical outlier is drawn as solid.
Outlier per Ohio method.

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8358
Critical = 0.792
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Zinc Analysis Run 9/12/2024 5:31 PM View: 2024SSN MW-15C BG Update

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

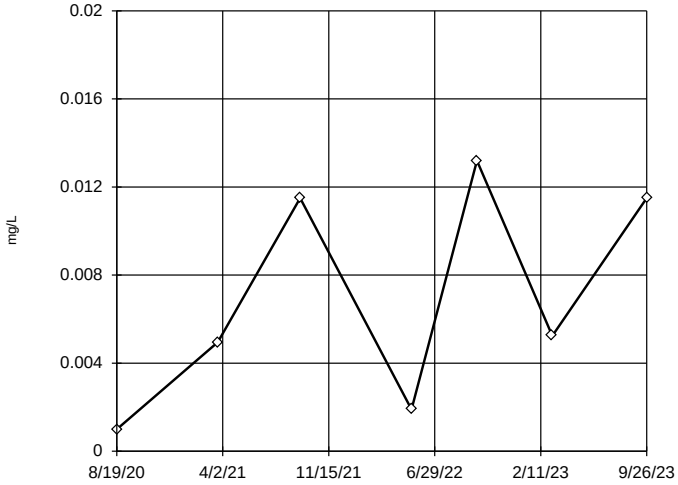
Outlier Analysis

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master Printed 9/13/2024, 12:24 PM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Normality Test
Arsenic (mg/L)	MW-44	No	n/a	n/a	EPA/OH	0.05	7	0.007041	0.004971	ShapiroWilk
Barium (mg/L)	MW-44	No	n/a	n/a	EPA/OH	0.05	7	0.025	0.008163	ShapiroWilk
Cobalt (mg/L)	MW-44	No	n/a	n/a	EPA/OH	0.05	7	0.001564	0.001503	ShapiroWilk
Nickel (mg/L)	MW-44	No	n/a	n/a	OH	NaN	5	0.002402	0.0002191	n/a

EPA Screening (suspected outliers for Dixon's Test)

MW-44



n = 7

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.007041, std. dev. 0.004971, critical Tn 1.938

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8816
Critical = 0.73
The distribution was found to be normally distributed.

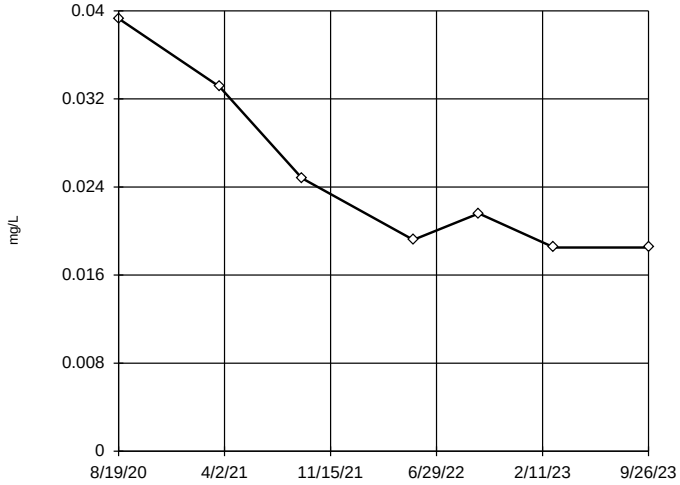
Constituent: Arsenic Analysis Run 9/13/2024 12:22 PM View: 2024SSN MW-44 BG

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

EPA Screening (suspected outliers for Dixon's Test)

MW-44



n = 7

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.025, std. dev. 0.008163, critical Tn 1.938

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8261
Critical = 0.73
The distribution was found to be normally distributed.

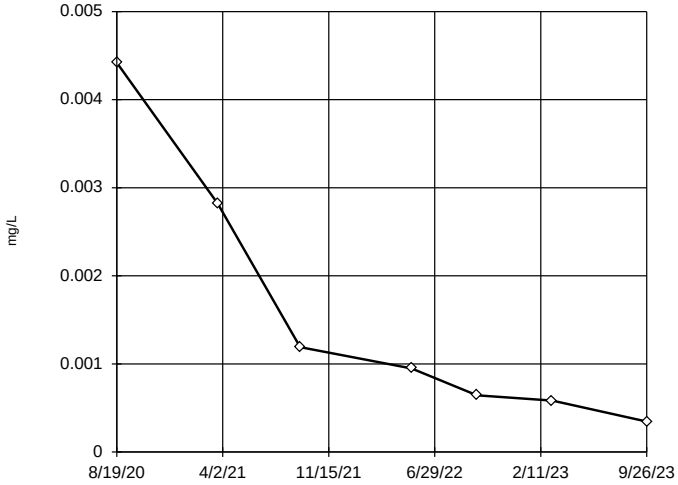
Constituent: Barium Analysis Run 9/13/2024 12:22 PM View: 2024SSN MW-44 BG

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

EPA Screening (suspected outliers for Dixon's Test)

MW-44



n = 7

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.001564, std. dev. 0.001503, critical Tn 1.938

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8011
Critical = 0.73
The distribution was found to be normally distributed.

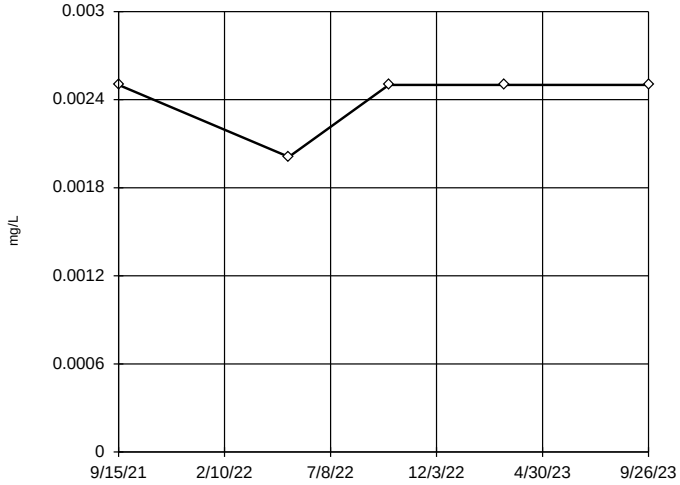
Constituent: Cobalt Analysis Run 9/13/2024 12:22 PM View: 2024SSN MW-44 BG

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm

MW-44



n = 5

No statistical outliers.

Constituent: Nickel Analysis Run 9/13/2024 12:22 PM View: 2024SSN MW-44 BG

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Outlier Test Summary Table and Graphs – Open MSWLF Unit

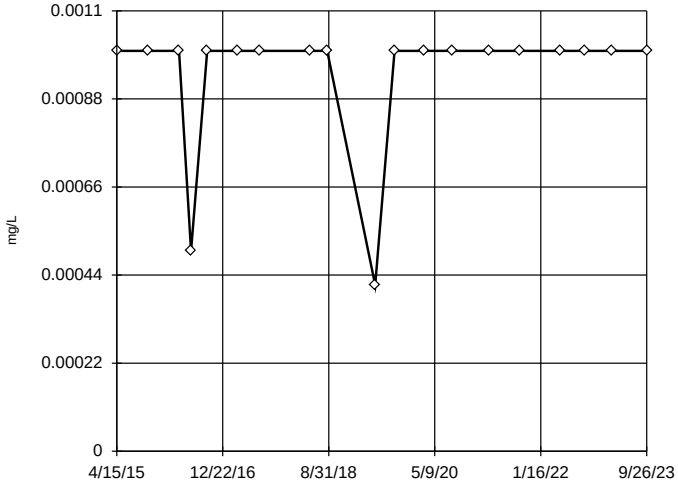
BG Outlier Analysis

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master Printed 9/23/2024, 4:16 PM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Normality Test
Arsenic (mg/L)	MW-16	No	n/a	n/a	OH	NaN	19	0.0009429	0.0001716	n/a
Barium (mg/L)	MW-16	No	n/a	n/a	EPA/OH	0.05	19	0.3083	0.03886	ShapiroWilk
Beryllium (mg/L)	MW-16	No	n/a	n/a	OH	NaN	19	0.0004881	0.00005196	n/a
Cadmium (mg/L)	MW-16	No	n/a	n/a	NP (nrm)/OH	NaN	19	0.0001486	0.00009572	ShapiroWilk
Cobalt (mg/L)	MW-16	No	n/a	n/a	EPA/OH	0.05	19	0.0002472	0.0001096	ShapiroWilk
Copper (mg/L)	**MW-16**	**Yes**	**0.01045**	**3/23/2021**	**OH**	**NaN**	**19**	**0.002564**	**0.002017**	**n/a**
Lead (mg/L)	MW-16	No	n/a	n/a	NP (nrm)/OH	NaN	19	0.0002657	0.00007454	ShapiroWilk
Nickel (mg/L)	MW-16	No	n/a	n/a	EPA/OH	0.05	19	0.007898	0.002671	ShapiroWilk
Silver (mg/L)	MW-16	No	n/a	n/a	OH	NaN	19	0.0004869	0.0001015	n/a
Thallium (mg/L)	**MW-16**	**Yes**	**0.001,0.001**	**6/21/2016,5/29/2019**	**OH**	**NaN**	**19**	**0.0005278**	**0.0001982**	**n/a**
Vanadium (mg/L)	MW-16	No	n/a	n/a	OH	NaN	19	0.002348	0.000521	n/a
Zinc (mg/L)	MW-16	No	n/a	n/a	OH	NaN	19	0.008794	0.00212	n/a

Ohio EPA 0715 Outlier Algorithm

MW-16



n = 19

No statistical outliers.

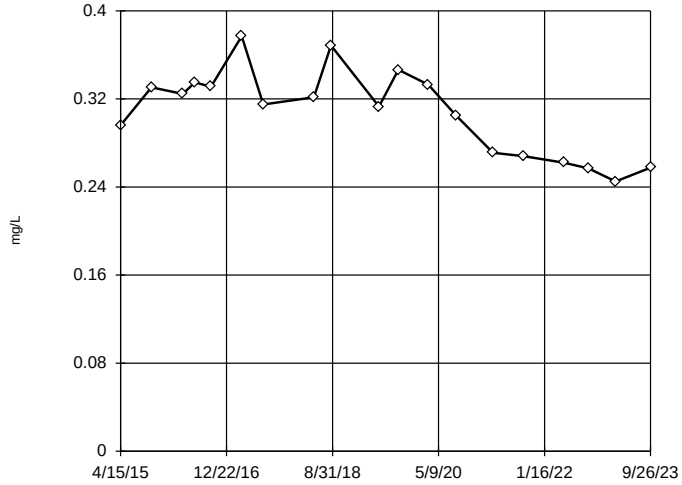
Constituent: Arsenic Analysis Run 9/23/2024 4:13 PM View: 2024SSN MW-16 BG

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

EPA Screening (suspected outliers for Dixon's Test)

MW-16



n = 19

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.3083, std. dev. 0.03886, critical Tn 2.532

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9453
Critical = 0.863
The distribution was found to be normally distributed.

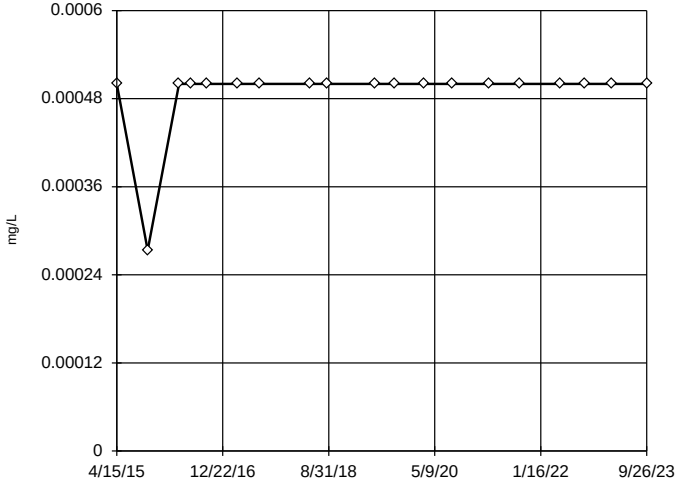
Constituent: Barium Analysis Run 9/23/2024 4:13 PM View: 2024SSN MW-16 BG

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm

MW-16



n = 19

No statistical outliers.

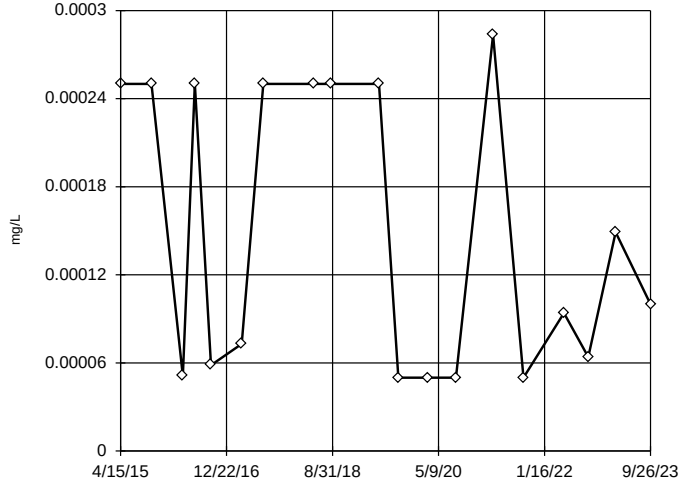
Constituent: Beryllium Analysis Run 9/23/2024 4:13 PM View: 2024SSN MW-16 BG

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm

MW-16



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.

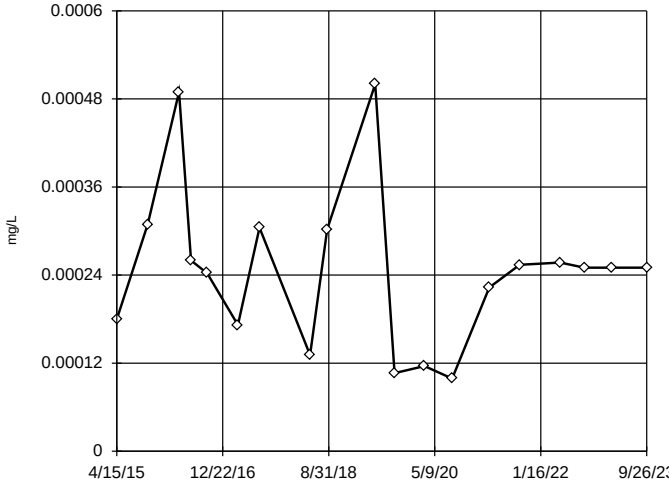
High cutoff = 0.000847, low cutoff = -0.000546, based on IQR multiplier of 3.

Constituent: Cadmium Analysis Run 9/23/2024 4:13 PM View: 2024SSN MW-16 BG

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

EPA Screening (suspected outliers for Dixon's Test)

MW-16



n = 19

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.0002472, std. dev. 0.0001096, critical Tn 2.532

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8834
Critical = 0.863
The distribution was found to be normally distributed.

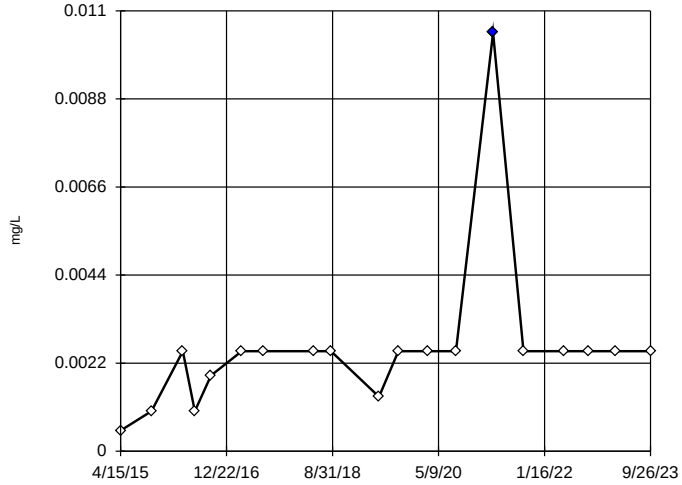
Constituent: Cobalt Analysis Run 9/23/2024 4:13 PM View: 2024SSN MW-16 BG

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm

MW-16



n = 19

Statistical outlier is drawn as solid.
Outlier per Ohio method.

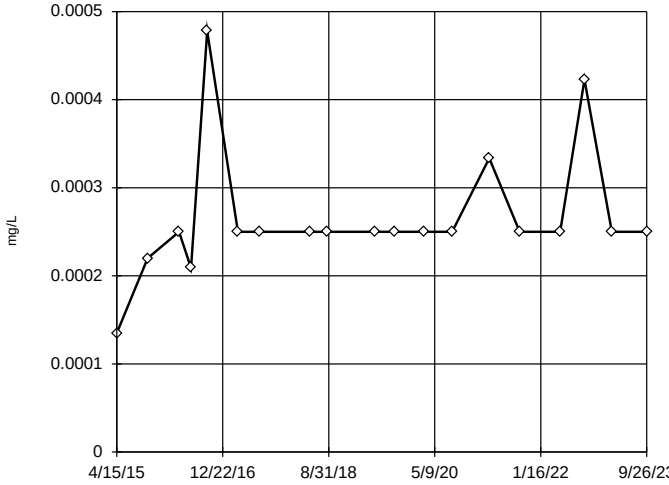
Constituent: Copper Analysis Run 9/23/2024 4:13 PM View: 2024SSN MW-16 BG

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm

MW-16



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.

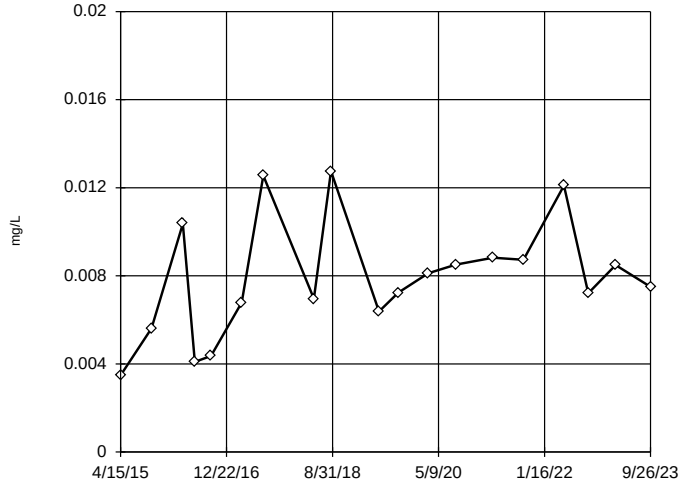
Constituent: Lead Analysis Run 9/23/2024 4:13 PM View: 2024SSN MW-16 BG

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

EPA Screening (suspected outliers for Dixon's Test)

MW-16



n = 19

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.007898, std. dev. 0.002671, critical Tn 2.532

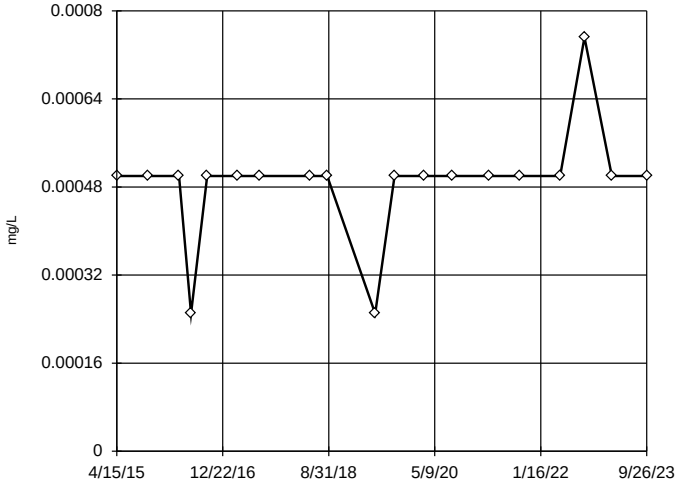
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9501
Critical = 0.863
The distribution was found to be normally distributed.

Constituent: Nickel Analysis Run 9/23/2024 4:13 PM View: 2024SSN MW-16 BG

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Ohio EPA 0715 Outlier Algorithm

MW-16



n = 19

No statistical outliers.

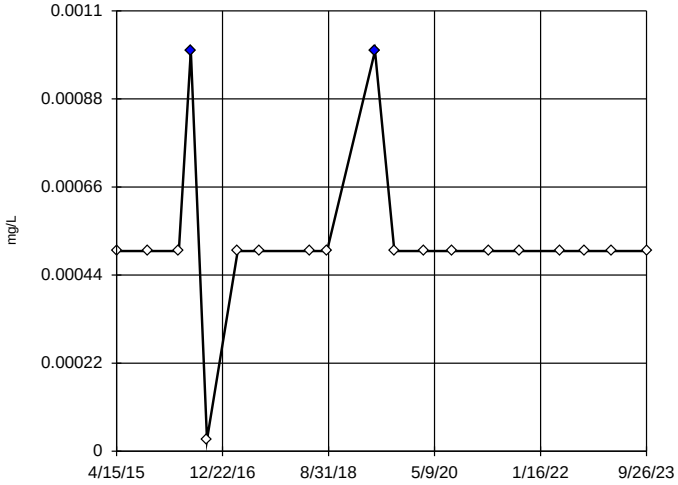
Constituent: Silver Analysis Run 9/23/2024 4:13 PM View: 2024SSN MW-16 BG

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm

MW-16



n = 19

Statistical outlier is drawn as solid.
Outlier per Ohio method.

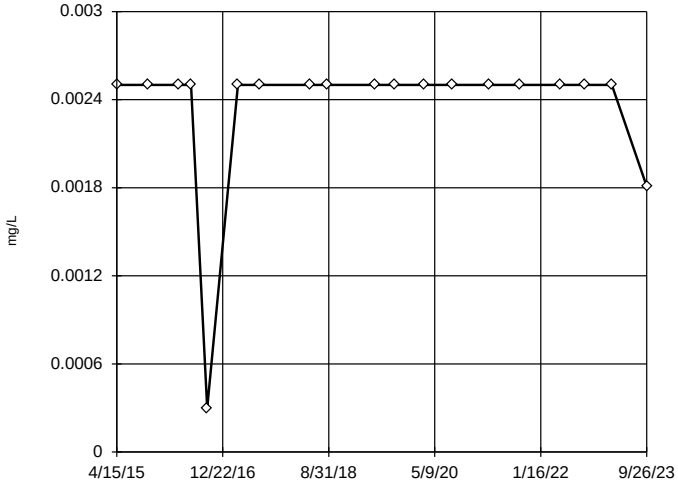
Constituent: Thallium Analysis Run 9/23/2024 4:13 PM View: 2024SSN MW-16 BG

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm

MW-16



n = 19

No statistical outliers.

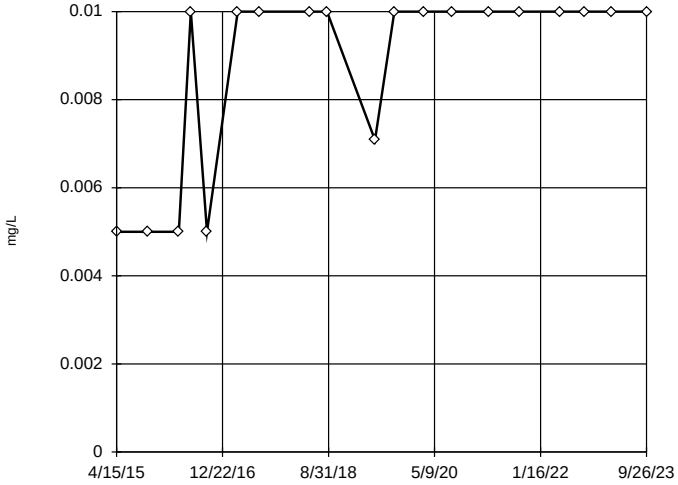
Constituent: Vanadium Analysis Run 9/23/2024 4:13 PM View: 2024SSN MW-16 BG

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm

MW-16



n = 19

No statistical outliers.

Constituent: Zinc Analysis Run 9/23/2024 4:13 PM View: 2024SSN MW-16 BG

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

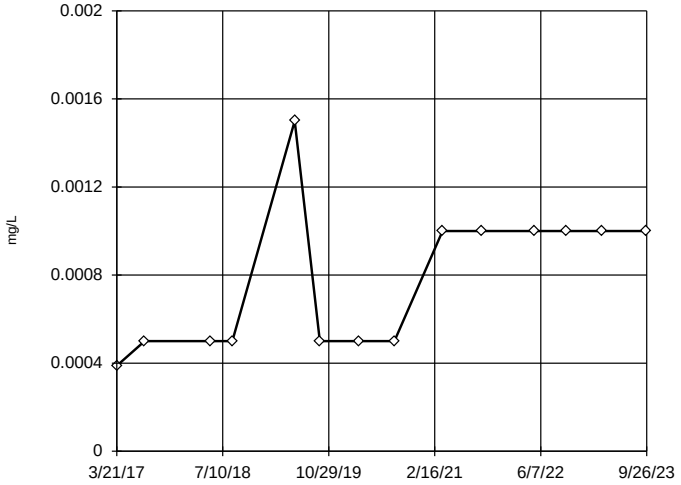
BG Outlier Analysis

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master Printed 9/23/2024, 4:57 PM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Normality Test
Antimony (mg/L)	MW-27	No	n/a	n/a	OH	NaN	14	0.0007777	0.000332	n/a
Arsenic (mg/L)	MW-27	No	n/a	n/a	OH	NaN	14	0.0009589	0.0001537	n/a
Barium (mg/L)	MW-27	No	n/a	n/a	EPA/OH	0.05	14	0.0342	0.001669	ShapiroWilk
Chromium (mg/L)	MW-27	No	n/a	n/a	OH	NaN	15	0.002435	0.0009349	n/a
Cobalt (mg/L)	**MW-27**	**Yes**	**0.0005**	**5/29/2019**	**NP (nrm)/OH**	**NaN**	**14**	**0.0002355**	**0.0001007**	**ShapiroWilk**
Copper (mg/L)	MW-27	No	n/a	n/a	OH	NaN	14	0.002394	0.0003955	n/a
Lead (mg/L)	MW-27	No	n/a	n/a	OH	NaN	14	0.0002492	0.00000294	n/a
Vanadium (mg/L)	MW-27	No	n/a	n/a	NP (nrm)/OH	NaN	14	0.001883	0.0007664	ShapiroWilk

Ohio EPA 0715 Outlier Algorithm

MW-27



n = 14

No statistical outliers.

Constituent: Antimony Analysis Run 9/23/2024 4:56 PM View: 2024SSN MW-27 BG

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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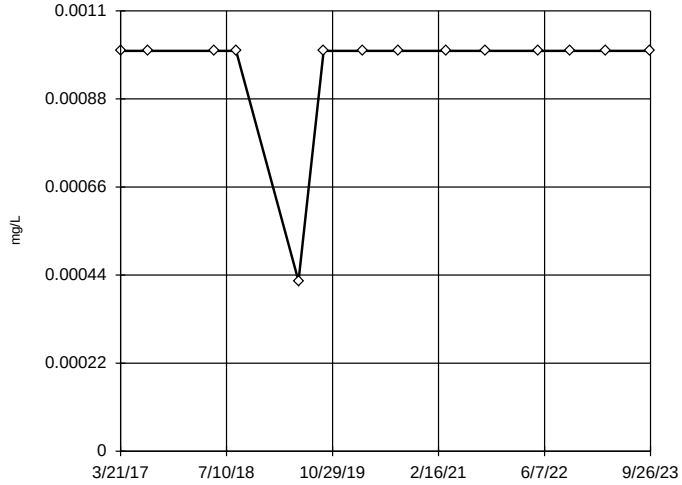
Ohio EPA 0715 Outlier Algorithm

MW-27



n = 14

No statistical outliers.

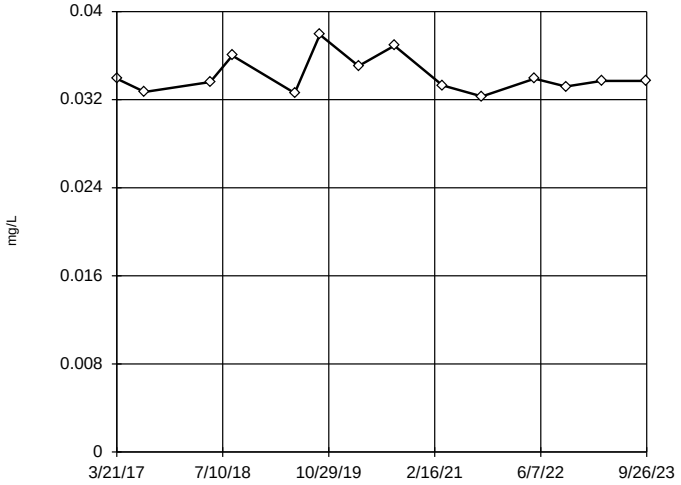
Constituent: Arsenic Analysis Run 9/23/2024 4:56 PM View: 2024SSN MW-27 BG

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

EPA Screening (suspected outliers for Dixon's Test)

MW-27



n = 14

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.0342, std. dev. 0.001669, critical Tn 2.371

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8687
Critical = 0.825
The distribution was found to be normally distributed.

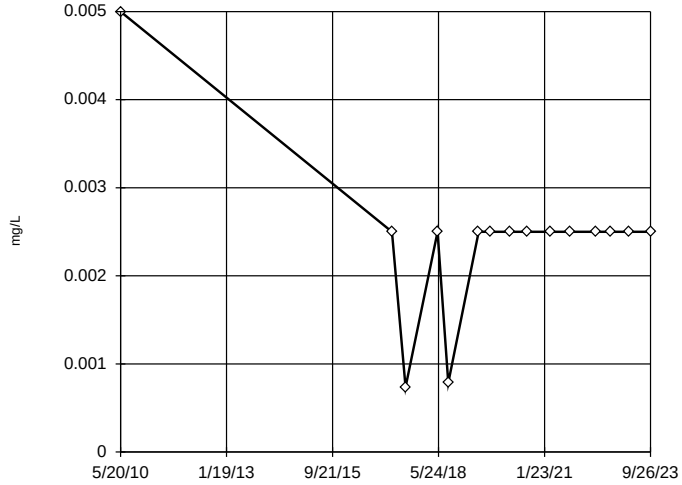
Constituent: Barium Analysis Run 9/23/2024 4:56 PM View: 2024SSN MW-27 BG

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm

MW-27



n = 15

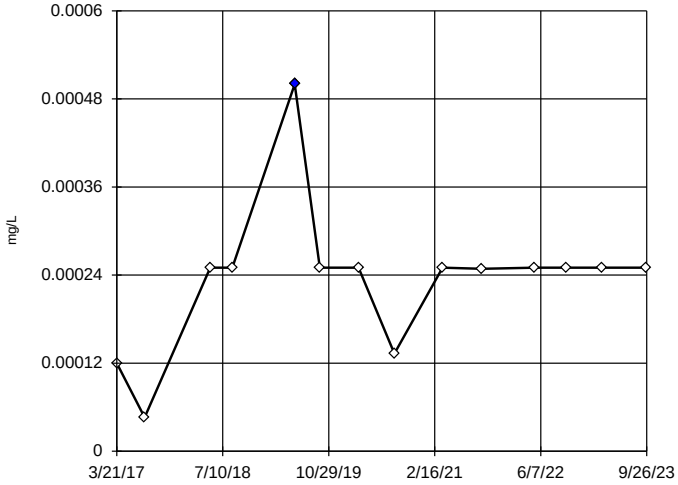
No statistical outliers.

Constituent: Chromium Analysis Run 9/23/2024 4:56 PM View: 2024SSN MW-27 BG

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm

MW-27



n = 14

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 = 0.0004278, low cutoff = 0.000013, based on IQR multiplier of 3.

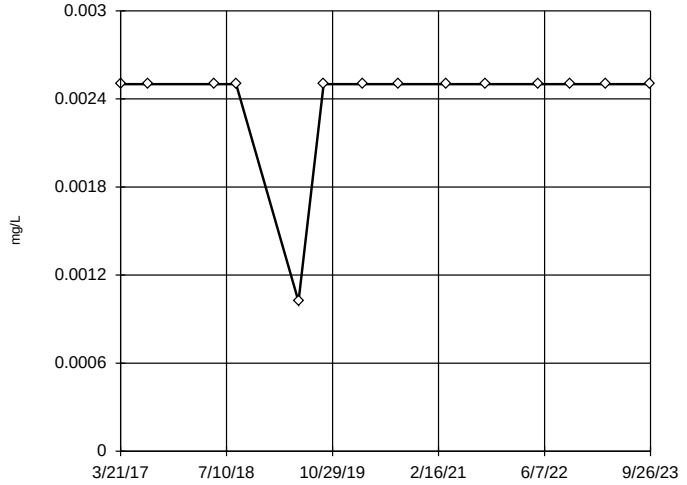
Constituent: Cobalt Analysis Run 9/23/2024 4:56 PM View: 2024SSN MW-27 BG

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm

MW-27



n = 14

No statistical outliers.

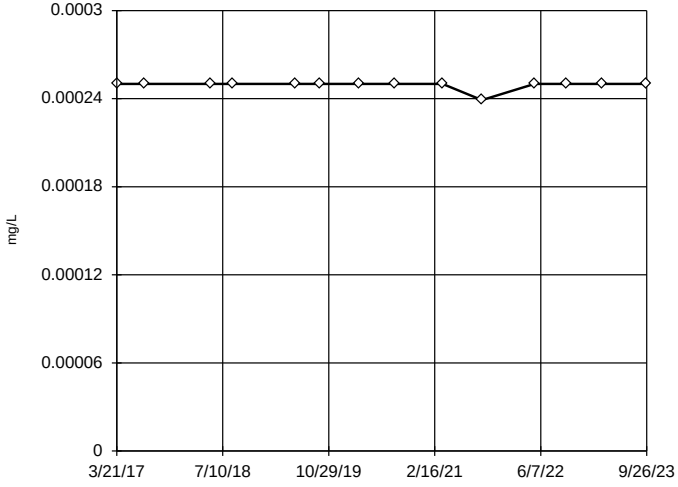
Constituent: Copper Analysis Run 9/23/2024 4:56 PM View: 2024SSN MW-27 BG

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm

MW-27



n = 14

No statistical outliers.

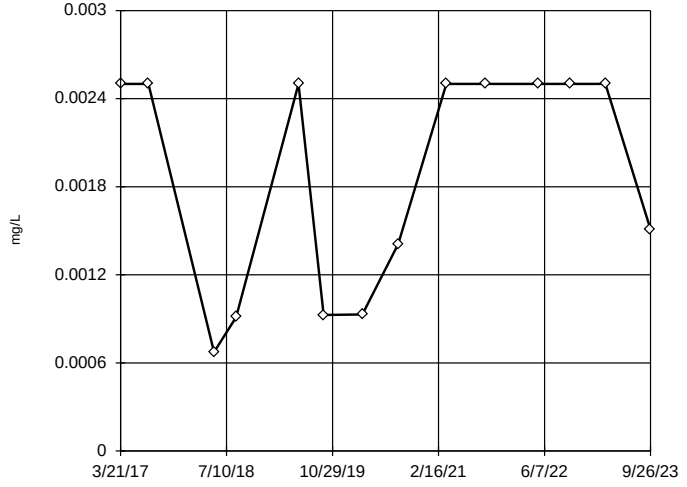
Constituent: Lead Analysis Run 9/23/2024 4:56 PM View: 2024SSN MW-27 BG

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm

MW-27



n = 14

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.01 alpha level.

High cutoff = 0.007214, low cutoff = -0.003786, based on IQR multiplier of 3.

Constituent: Vanadium Analysis Run 9/23/2024 4:56 PM View: 2024SSN MW-27 BG

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

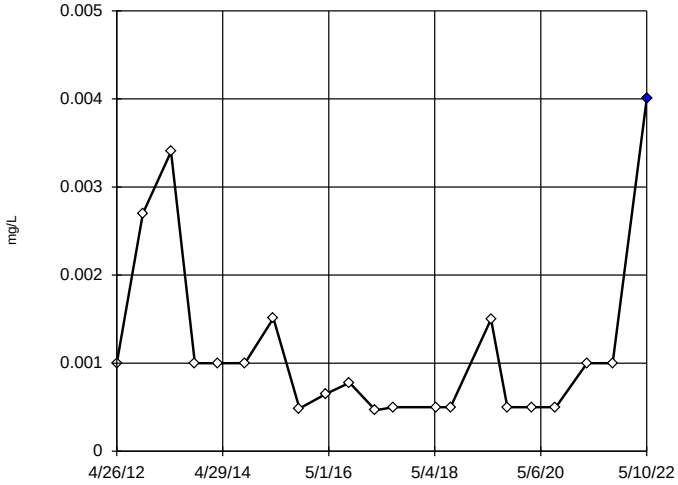
Outlier Analysis

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master Printed 9/19/2024, 3:00 PM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Normality Test
Antimony (mg/L)	**MW-35**	**Yes**	**0.004**	**5/10/2022**	**NP (nrm)/OH**	**NaN**	**21**	**0.001166**	**0.000995**	**ShapiroWilk**
Arsenic (mg/L)	MW-35	No	n/a	n/a	NP (nrm)/OH	NaN	24	0.003379	0.003489	ShapiroWilk
Barium (mg/L)	**MW-35**	**Yes**	**0.46**	**10/19/2009**	**Rosner/OH**	**0.01**	**25**	**0.04929**	**0.08744**	**ShapiroWilk**
Cadmium (mg/L)	MW-35	No	n/a	n/a	OH	NaN	24	0.000227	0.0001387	n/a
Chromium (mg/L)	**MW-35**	**Yes**	**0.01**	**5/10/2022**	**OH**	**NaN**	**24**	**0.003423**	**0.001773**	**n/a**
Cobalt (mg/L)	MW-35	No	n/a	n/a	EPA/OH	0.05	21	0.01511	0.01551	ShapiroWilk
Copper (mg/L)	**MW-35**	**Yes**	**0.0212,0.0102,0.01**	**7/28/2015,4/15/2015,5/10/2022**	**OH**	**NaN**	**25**	**0.003714**	**0.004241**	**n/a**
Lead (mg/L)	**MW-35**	**Yes**	**0.002,0.002,0.002,0.002,0.002,0.002,0.001**	**4/26/2012,10/24/2012,5/7/2013,10/18/2013,3/25/201**	**OH**	**NaN**	**24**	**0.0007519**	**0.0007549**	**n/a**
Nickel (mg/L)	**MW-35**	**Yes**	**0.227**	**10/24/2012**	**NP (nrm)/OH**	**NaN**	**24**	**0.05633**	**0.05935**	**ShapiroWilk**
Selenium (mg/L)	**MW-35**	**Yes**	**0.01**	**5/10/2022**	**OH**	**NaN**	**24**	**0.002651**	**0.0016**	**n/a**
Thallium (mg/L)	**MW-35**	**Yes**	**0.002,0.002,0.002,0.002**	**10/18/2013,3/25/2014,9/30/2014,5/10/2022**	**OH**	**NaN**	**24**	**0.0007368**	**0.0006446**	**n/a**
Vanadium (mg/L)	**MW-35**	**Yes**	**0.01,0.01,0.01,0.01,0.01,0.01,0.01,0.01,0.01,0.01**	**5/20/2010,10/1/2010,4/29/2011,4/26/2012,10/24/201**	**OH**	**NaN**	**24**	**0.005767**	**0.003758**	**n/a**
Zinc (mg/L)	MW-35	No	n/a	n/a	NP (nrm)/OH	NaN	25	0.01737	0.02837	ShapiroWilk

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm

MW-35



n = 21

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 = 0.0035, low cutoff = -0.00175, based on IQR multiplier of 3.

Constituent: Antimony Analysis Run 9/19/2024 2:55 PM View: 2024SSN - MW-35 BGOutlier

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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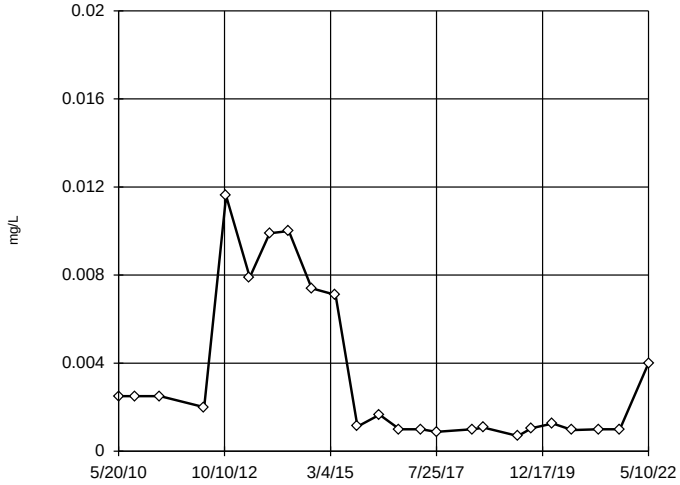
Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm

MW-35



n = 24

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.01 alpha level.

High cutoff = 0.0192, low cutoff = -0.01265, based on IQR multiplier of 3.

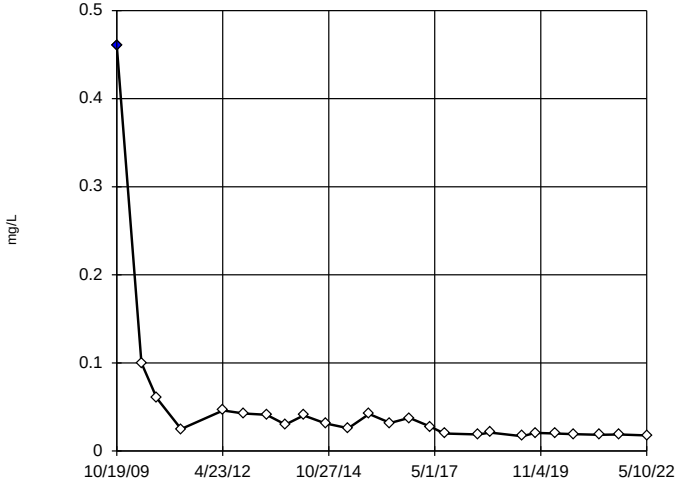
Constituent: Arsenic Analysis Run 9/19/2024 2:55 PM View: 2024SSN - MW-35 BGOutlier

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Rosner's Outlier Test / Ohio EPA 0715 Outlier Algorithm

MW-35



n = 25

Statistical outlier is drawn as solid.

k = 2
r = 3.749
Tabulated value = 2.84
Alpha = 0.01

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.903
Critical = 0.884 (after natural log transformation)
The distribution, after removal of suspect value, was found to be log-normal.

Constituent: Barium Analysis Run 9/19/2024 2:55 PM View: 2024SSN - MW-35 BGOutlier

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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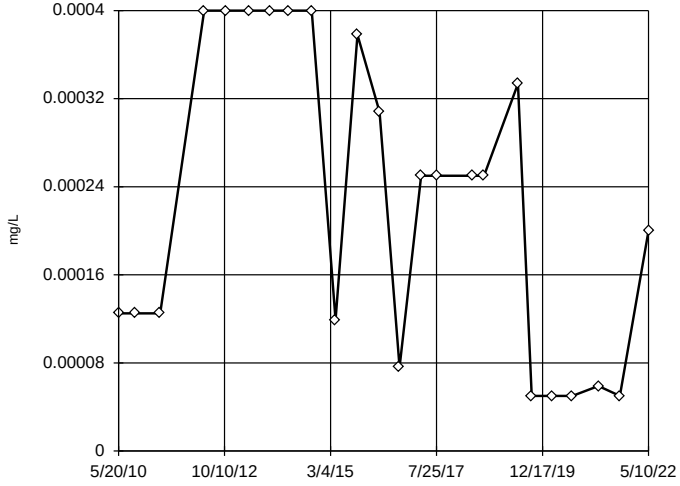
Ohio EPA 0715 Outlier Algorithm

MW-35



n = 24

No statistical outliers.

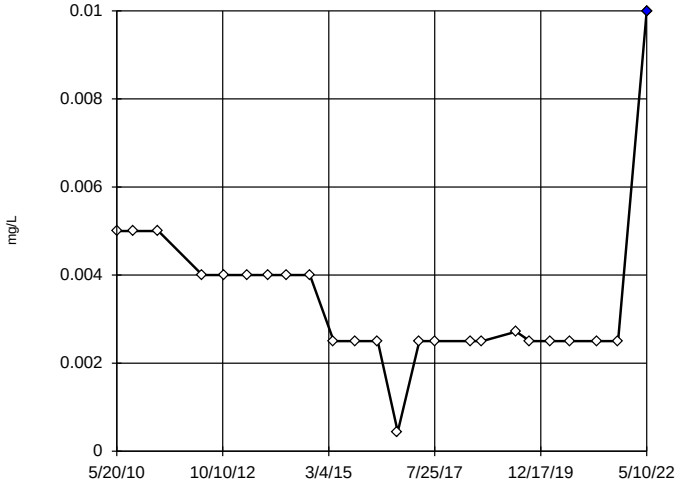
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.903
Critical = 0.884 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Cadmium Analysis Run 9/19/2024 2:55 PM View: 2024SSN - MW-35 BGOutlier

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Ohio EPA 0715 Outlier Algorithm

MW-35



n = 24

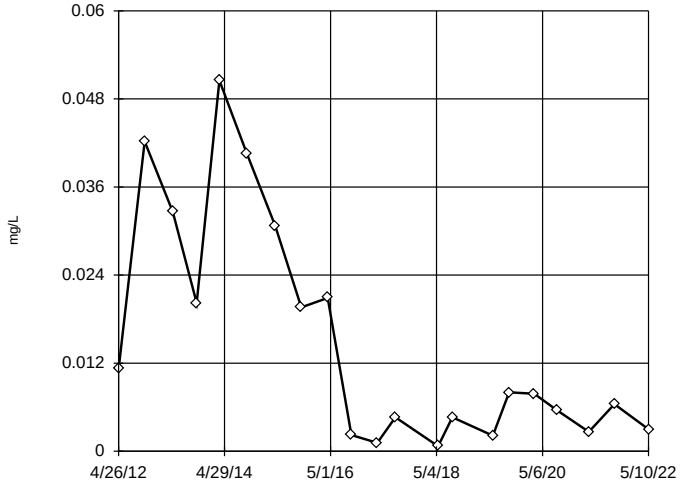
Statistical outlier is drawn as solid.
Outlier per Ohio method.

Constituent: Chromium Analysis Run 9/19/2024 2:55 PM View: 2024SSN - MW-35 BGOutlier

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

EPA Screening (suspected outliers for Rosner's Test)

MW-35



n = 21

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.01511, std. dev. 0.01551, critical Tn 2.58

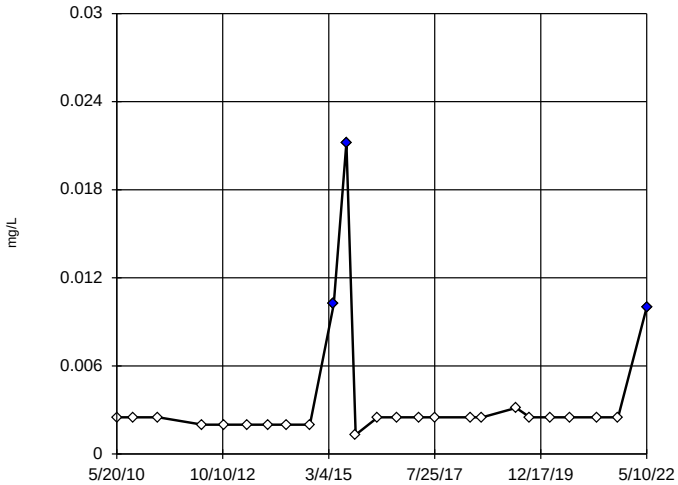
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9586
Critical = 0.873 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Cobalt Analysis Run 9/19/2024 2:55 PM View: 2024SSN - MW-35 BGOutlier

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Ohio EPA 0715 Outlier Algorithm

MW-35



n = 25

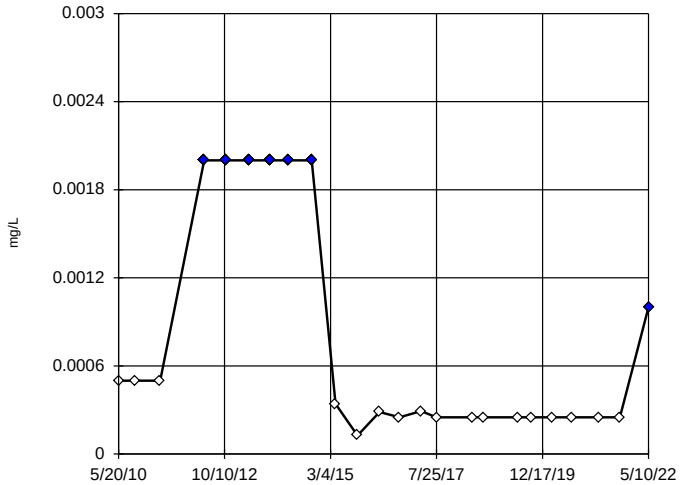
Statistical outliers are drawn as solid.
Outliers per Ohio method.

Constituent: Copper Analysis Run 9/19/2024 2:55 PM View: 2024SSN - MW-35 BGOutlier

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Ohio EPA 0715 Outlier Algorithm

MW-35



n = 24

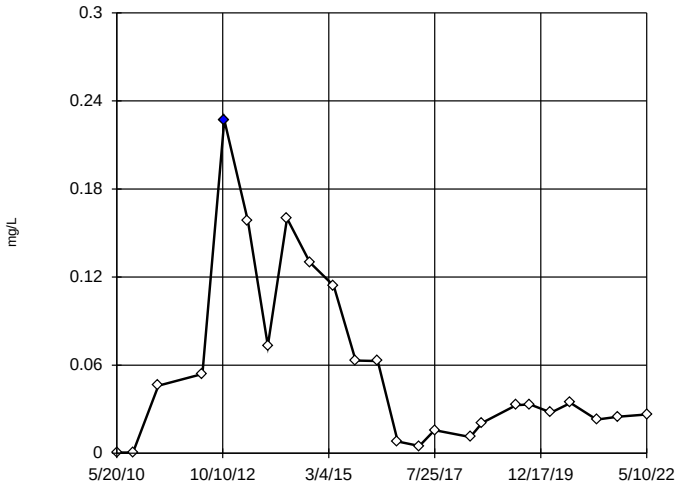
Statistical outliers are drawn as solid.
Outliers per Ohio method.

Constituent: Lead Analysis Run 9/19/2024 2:55 PM View: 2024SSN - MW-35 BGOutlier

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm

MW-35



n = 24

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 = 0.2181, low cutoff = -0.1316, based on IQR multiplier of 3.

Constituent: Nickel Analysis Run 9/19/2024 2:55 PM View: 2024SSN - MW-35 BGOutlier

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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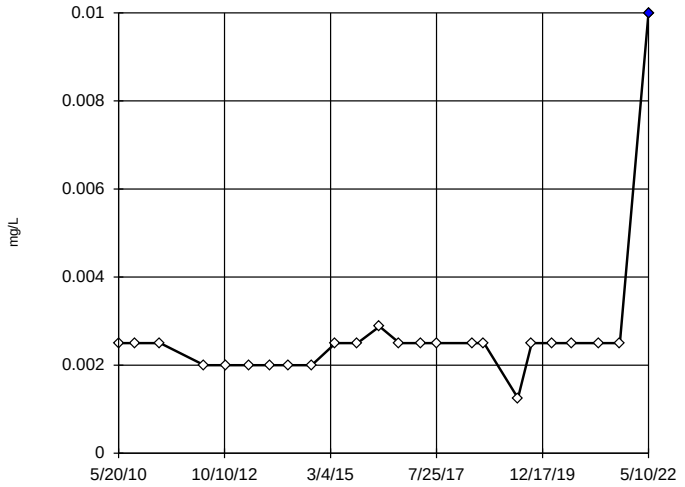
Ohio EPA 0715 Outlier Algorithm

MW-35



n = 24

Statistical outlier is drawn as solid.
Outlier per Ohio method.

Constituent: Selenium Analysis Run 9/19/2024 2:55 PM View: 2024SSN - MW-35 BGOutlier

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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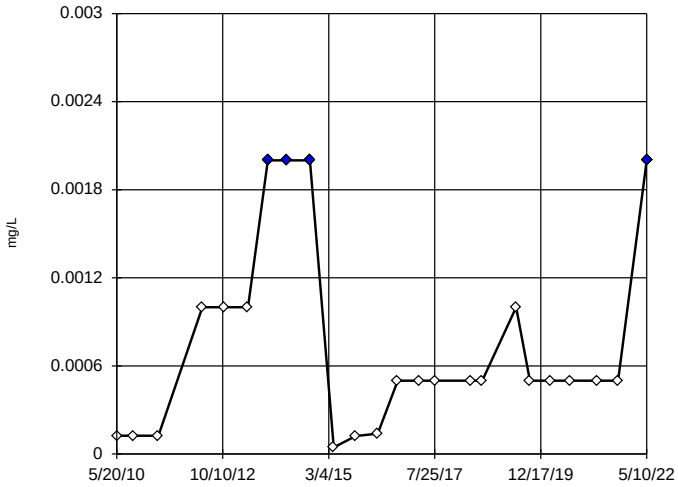
Ohio EPA 0715 Outlier Algorithm

MW-35



n = 24

Statistical outliers are drawn as solid.
Outliers per Ohio method.

Constituent: Thallium Analysis Run 9/19/2024 2:55 PM View: 2024SSN - MW-35 BGOutlier

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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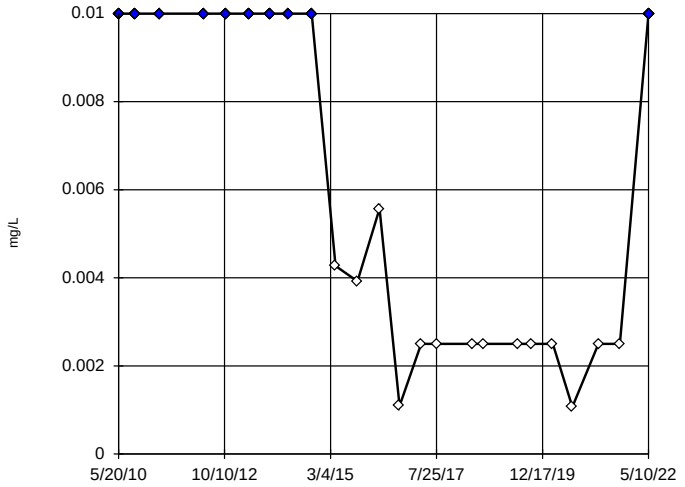
Ohio EPA 0715 Outlier Algorithm

MW-35



n = 24

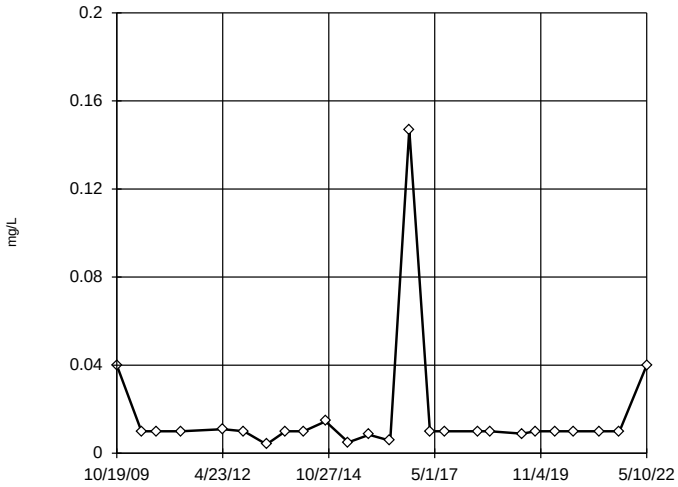
Statistical outliers are drawn as solid.
Outliers per Ohio method.

Constituent: Vanadium Analysis Run 9/19/2024 2:55 PM View: 2024SSN - MW-35 BGOutlier

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm

MW-35



n = 25

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: Zinc Analysis Run 9/19/2024 2:55 PM View: 2024SSN - MW-35 BGOutlier

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

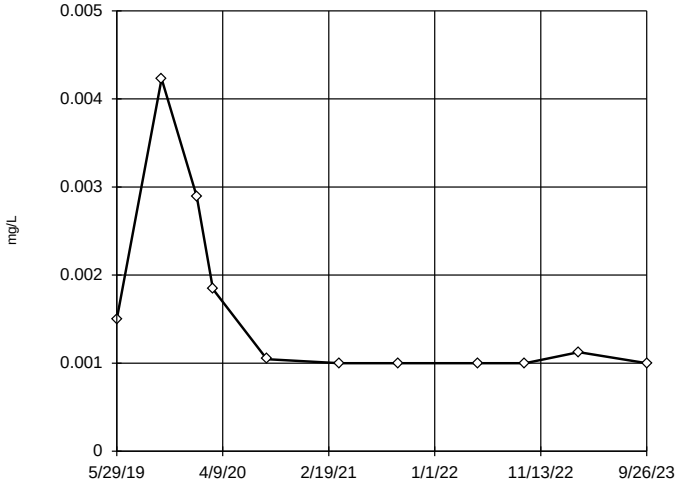
Outlier Analysis

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master Printed 9/23/2024, 3:24 PM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Normality Test
Antimony (mg/L)	MW-42R	No	n/a	n/a	NP (nrm)/OH	NaN	11	0.001603	0.001048	ShapiroWilk
Arsenic (mg/L)	MW-42R	No	n/a	n/a	EPA/OH	0.05	11	0.001016	0.0001351	ShapiroWilk
Barium (mg/L)	MW-42R	No	n/a	n/a	EPA/OH	0.05	11	0.02443	0.004789	ShapiroWilk
Beryllium (mg/L)	MW-42R	No	n/a	n/a	OH	NaN	11	0.0004976	0.00000783	n/a
Cadmium (mg/L)	MW-42R	No	n/a	n/a	EPA/OH	0.05	11	0.000195	0.00008983	ShapiroWilk
Chromium (mg/L)	MW-42R	No	n/a	n/a	OH	NaN	11	0.002398	0.0003377	n/a
Cobalt (mg/L)	MW-42R	No	n/a	n/a	Dixon/OH	0.01	12	0.004744	0.001288	ShapiroWilk
Copper (mg/L)	**MW-42R**	**Yes**	**0.00419,0.00905**	**8/19/2020,5/29/2019**	**Dixon/OH**	**0.01**	**11**	**0.003365**	**0.001967**	**ShapiroWilk**
Lead (mg/L)	MW-42R	No	n/a	n/a	OH	NaN	11	0.0002916	0.000116	n/a
Nickel (mg/L)	**MW-42R**	**Yes**	**0.0469**	**5/29/2019**	**Dixon/OH**	**0.01**	**11**	**0.02061**	**0.009487**	**ShapiroWilk**
Selenium (mg/L)	MW-42R	No	n/a	n/a	EPA/OH	0.05	11	0.003925	0.003093	ShapiroWilk
Thallium (mg/L)	**MW-42R**	**Yes**	**0.001**	**5/29/2019**	**OH**	**NaN**	**11**	**0.0005608**	**0.0001542**	**n/a**
Vanadium (mg/L)	MW-42R	No	n/a	n/a	EPA/OH	0.05	11	0.00185	0.0005645	ShapiroWilk
Zinc (mg/L)	MW-42R	No	n/a	n/a	EPA/OH	0.05	11	0.01111	0.003106	ShapiroWilk

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm

MW-42R



n = 11

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.01 alpha level.

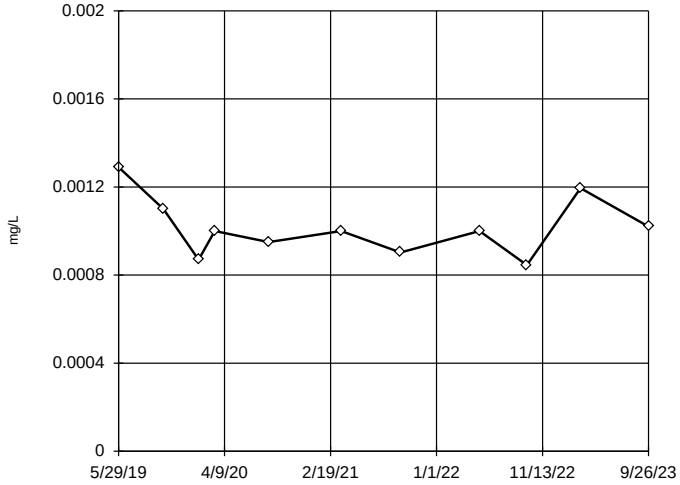
High cutoff = 0.00436, low cutoff = -0.00152, based on IQR multiplier of 3.

Constituent: Antimony Analysis Run 9/23/2024 3:23 PM View: 2024SSN MW-42R BGupdate

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

EPA Screening (suspected outliers for Dixon's Test)

MW-42R



n = 11

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.001016, std. dev. 0.0001351, critical Tn 2.234

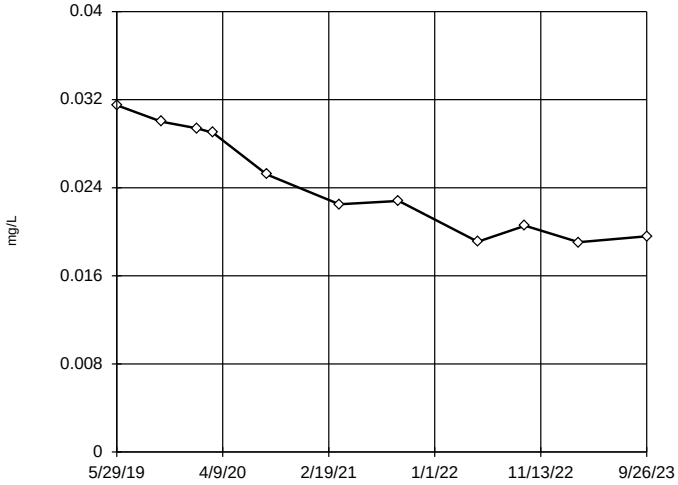
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9268
Critical = 0.792
The distribution was found to be normally distributed.

Constituent: Arsenic Analysis Run 9/23/2024 3:23 PM View: 2024SSN MW-42R BGupdate

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

EPA Screening (suspected outliers for Dixon's Test)

MW-42R



n = 11

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.02443, std. dev. 0.004789, critical Tn 2.234

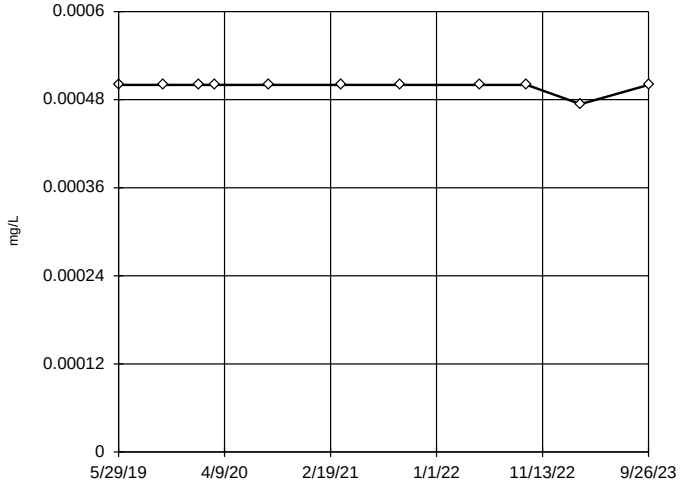
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8789
Critical = 0.792
The distribution was found to be normally distributed.

Constituent: Barium Analysis Run 9/23/2024 3:23 PM View: 2024SSN MW-42R BGupdate

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Ohio EPA 0715 Outlier Algorithm

MW-42R



n = 11

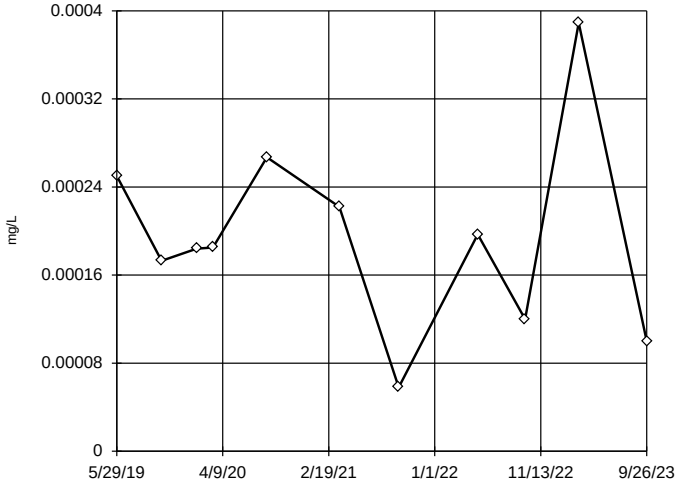
No statistical outliers.

Constituent: Beryllium Analysis Run 9/23/2024 3:23 PM View: 2024SSN MW-42R BGupdate

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

EPA Screening (suspected outliers for Dixon's Test)

MW-42R



n = 11

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.000195, std. dev. 0.00008983, critical Tn 2.234

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9579
Critical = 0.792
The distribution was found to be normally distributed.

Constituent: Cadmium Analysis Run 9/23/2024 3:23 PM View: 2024SSN MW-42R BGupdate

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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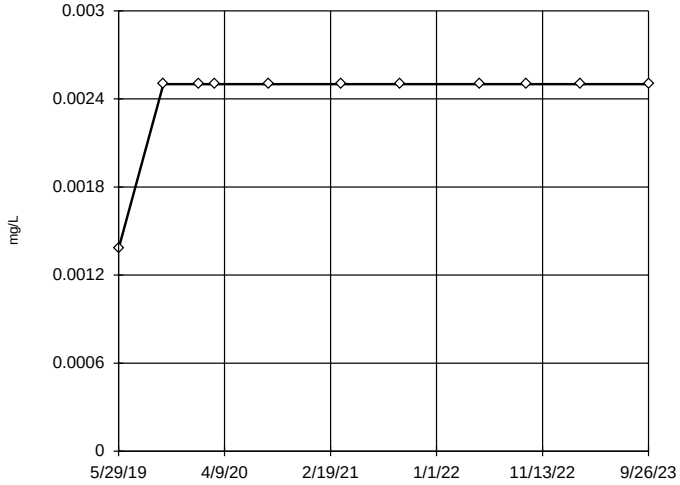
Ohio EPA 0715 Outlier Algorithm

MW-42R



n = 11

No statistical outliers.

Constituent: Chromium Analysis Run 9/23/2024 3:23 PM View: 2024SSN MW-42R BGupdate

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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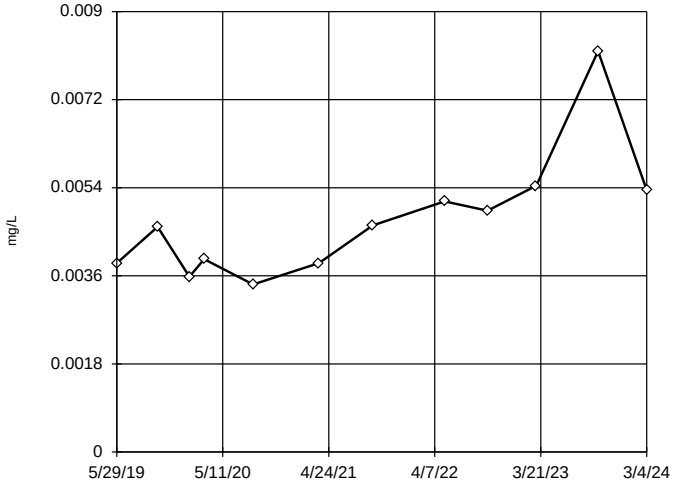
Dixon's Outlier Test / Ohio EPA 0715 Outlier Algorithm

MW-42R



n = 12

No statistical outliers.
Testing for 1 high outlier.
Mean = 0.004744.
Std. Dev. = 0.001288.
0.00819: c = 0.6161
tabl = 0.642.
Alpha = 0.01.

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9168
Critical = 0.792
The distribution was found to be normally distributed.

Constituent: Cobalt Analysis Run 9/23/2024 3:23 PM View: 2024SSN MW-42R BGupdate

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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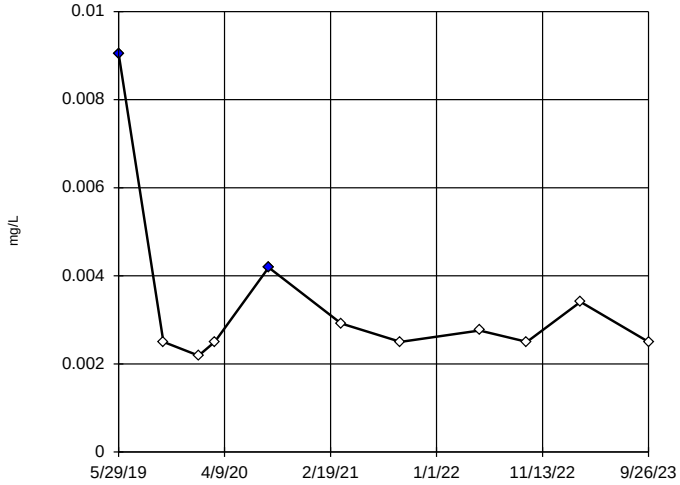
Dixon's Outlier Test / Ohio EPA 0715 Outlier Algorithm

MW-42R



n = 11

Statistical outliers are drawn as solid.
Testing for 2 high outliers.
Mean = 0.003365.
Std. Dev. = 0.001967.
0.0419 (JD): c = 0.7515
tabl = 0.679.
Alpha = 0.01.

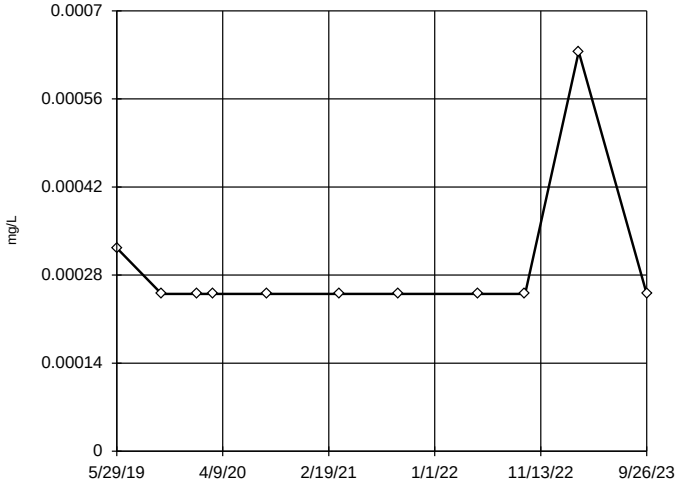
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8323
Critical = 0.764
The distribution, after removal of suspect values, was found to be normally distributed.

Constituent: Copper Analysis Run 9/23/2024 3:23 PM View: 2024SSN MW-42R BGupdate

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Ohio EPA 0715 Outlier Algorithm

MW-42R



n = 11

No statistical outliers.

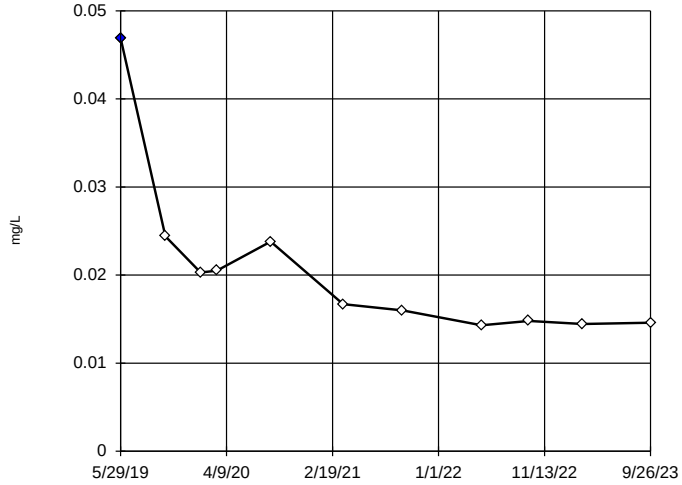
Constituent: Lead Analysis Run 9/23/2024 3:23 PM View: 2024SSN MW-42R BGupdate

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Dixon's Outlier Test / Ohio EPA 0715 Outlier Algorithm

MW-42R



n = 11

Statistical outlier is drawn as solid.
Testing for 1 high outlier.
Mean = 0.02061.
Std. Dev. = 0.009487.
0.0469: c = 0.7119
tabl = 0.679.
Alpha = 0.01.

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8395
Critical = 0.781
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Nickel Analysis Run 9/23/2024 3:23 PM View: 2024SSN MW-42R BGupdate

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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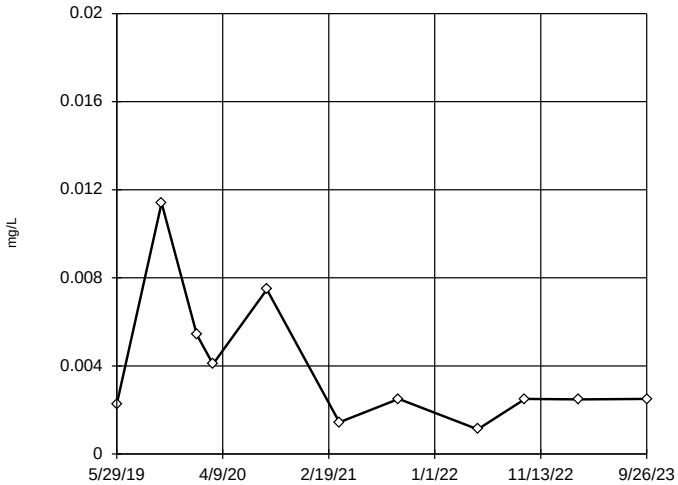
EPA Screening (suspected outliers for Dixon's Test)

MW-42R



n = 11

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.003925, std. dev. 0.003093, critical Tn 2.234

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9368
Critical = 0.792 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Selenium Analysis Run 9/23/2024 3:23 PM View: 2024SSN MW-42R BGupdate

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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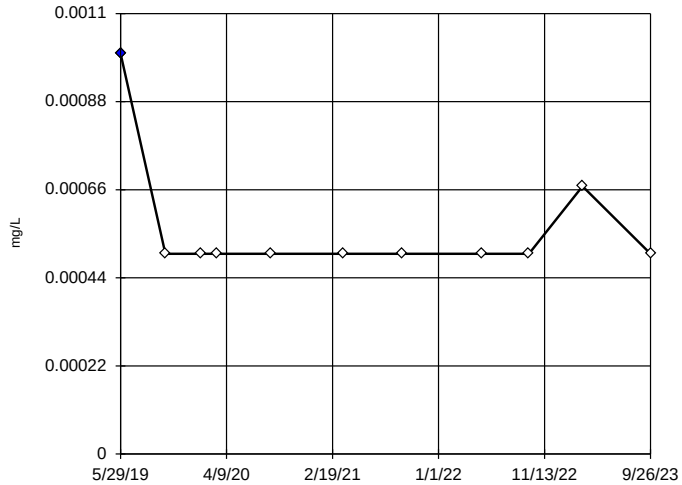
Ohio EPA 0715 Outlier Algorithm

MW-42R



n = 11

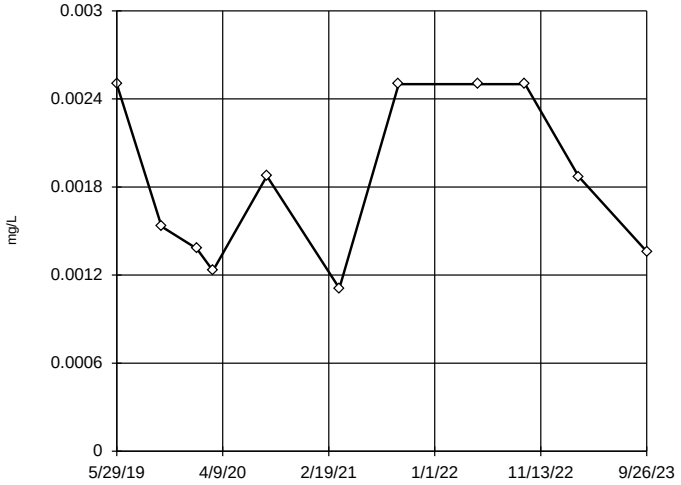
Statistical outlier is drawn as solid.
Outlier per Ohio method.

Constituent: Thallium Analysis Run 9/23/2024 3:23 PM View: 2024SSN MW-42R BGupdate

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

EPA Screening (suspected outliers for Dixon's Test)

MW-42R



n = 11

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.00185, std. dev. 0.0005645, critical Tn 2.234

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8453
Critical = 0.792
The distribution was found to be normally distributed.

Constituent: Vanadium Analysis Run 9/23/2024 3:23 PM View: 2024SSN MW-42R BGupdate

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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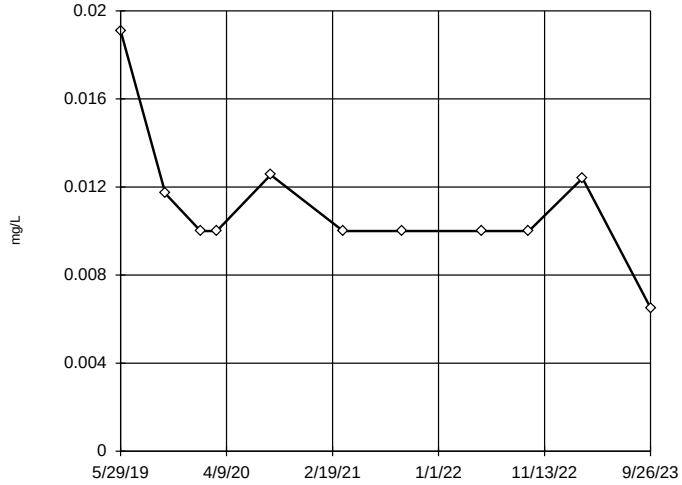
EPA Screening (suspected outliers for Dixon's Test)

MW-42R



n = 11

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.01111, std. dev. 0.003106, critical Tn 2.234

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8443
Critical = 0.792 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Zinc Analysis Run 9/23/2024 3:23 PM View: 2024SSN MW-42R BGupdate

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

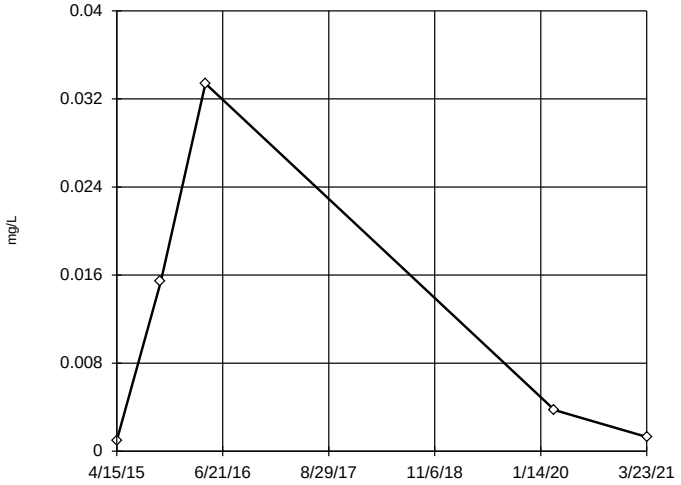
BG Outlier Analysis

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master Printed 9/4/2024, 2:20 PM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Normality Test
Arsenic (mg/L)	GWD-2	No	n/a	n/a	EPA/OH	0.05	5	0.01097	0.01386	ShapiroWilk
Barium (mg/L)	GWD-2	No	n/a	n/a	EPA/OH	0.05	5	0.914	0.9026	ShapiroWilk
Beryllium (mg/L)	GWD-2	No	n/a	n/a	OH	NaN	5	0.0004152	0.0001896	n/a
Cadmium (mg/L)	GWD-2	No	n/a	n/a	EPA/OH	0.05	5	0.0006044	0.000537	ShapiroWilk
Chromium (mg/L)	GWD-2	No	n/a	n/a	OH	NaN	5	0.002162	0.0007562	n/a
Cobalt (mg/L)	GWD-2	No	n/a	n/a	Dixon/OH	0.01	5	0.005806	0.00575	ShapiroWilk
Copper (mg/L)	GWD-2	No	n/a	n/a	EPA/OH	0.05	5	0.002621	0.001532	ShapiroWilk
Lead (mg/L)	GWD-2	No	n/a	n/a	EPA/OH	0.05	5	0.0007414	0.0006419	ShapiroWilk
Nickel (mg/L)	GWD-2	No	n/a	n/a	Dixon/OH	0.01	5	0.01751	0.009664	ShapiroWilk
Selenium (mg/L)	GWD-2	No	n/a	n/a	EPA/OH	0.05	5	0.00187	0.0008824	ShapiroWilk
Vanadium (mg/L)	GWD-2	No	n/a	n/a	Dixon/OH	0.01	5	0.002145	0.0009602	ShapiroWilk
Zinc (mg/L)	GWD-2	No	n/a	n/a	EPA/OH	0.05	5	0.007648	0.002717	ShapiroWilk

EPA Screening (suspected outliers for Dixon's Test)

GWD-2



n = 5

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.01097, std. dev. 0.01386, critical Tn 1.672

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8097
Critical = 0.686
The distribution was found to be normally distributed.

Constituent: Arsenic Analysis Run 9/4/2024 2:00 PM View: 2024SSN - GWD-2 BG

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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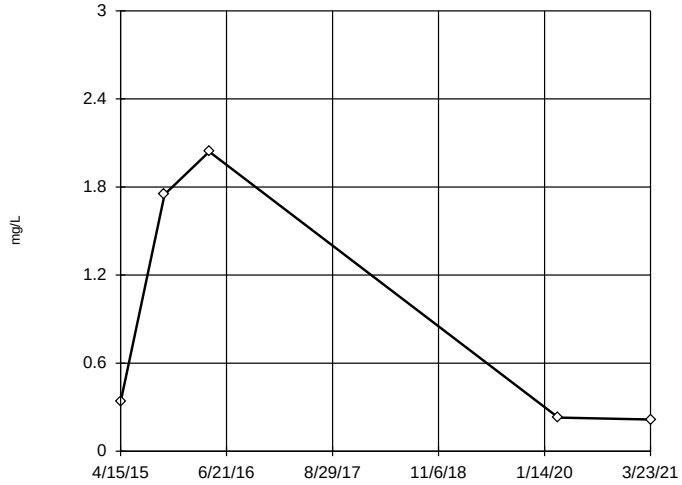
EPA Screening (suspected outliers for Dixon's Test)

GWD-2



n = 5

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.914, std. dev. 0.9026, critical Tn 1.672

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.7654
Critical = 0.686
The distribution was found to be normally distributed.

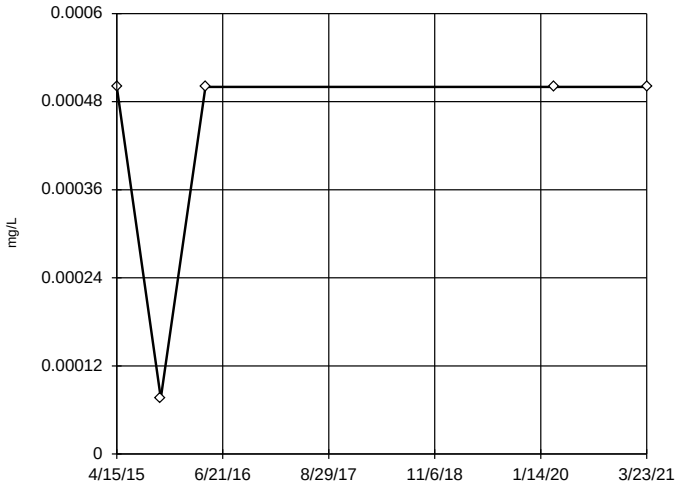
Constituent: Barium Analysis Run 9/4/2024 2:00 PM View: 2024SSN - GWD-2 BG

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm

GWD-2



n = 5

No statistical outliers.

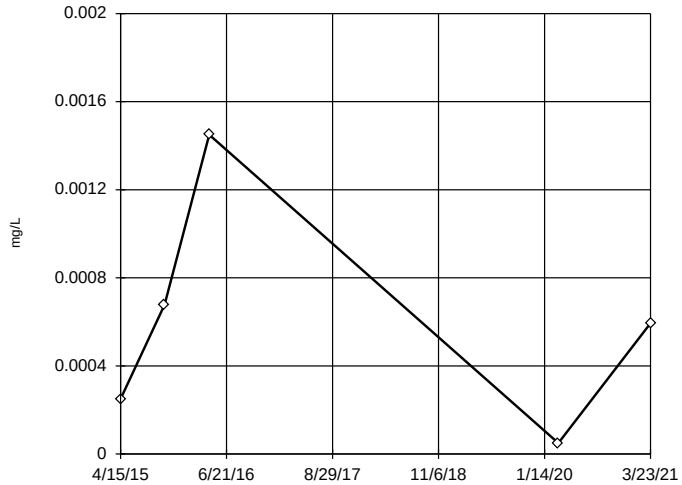
Constituent: Beryllium Analysis Run 9/4/2024 2:00 PM View: 2024SSN - GWD-2 BG

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

EPA Screening (suspected outliers for Dixon's Test)

GWD-2



n = 5

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.0006044, std. dev. 0.000537, critical Tn 1.672

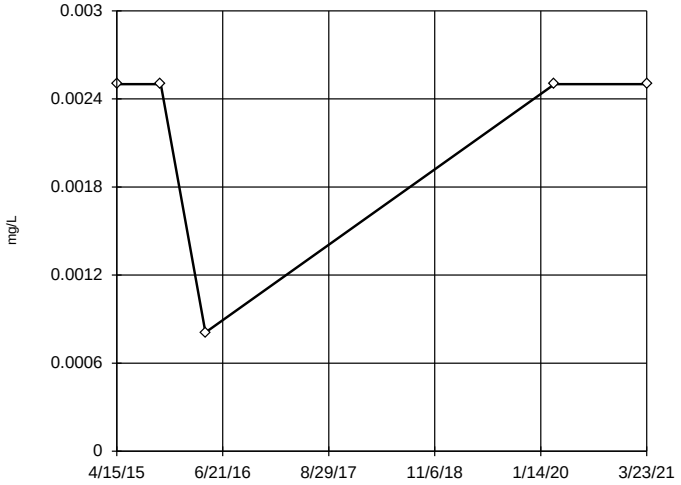
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9264
Critical = 0.686
The distribution was found to be normally distributed.

Constituent: Cadmium Analysis Run 9/4/2024 2:00 PM View: 2024SSN - GWD-2 BG

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Ohio EPA 0715 Outlier Algorithm

GWD-2



n = 5

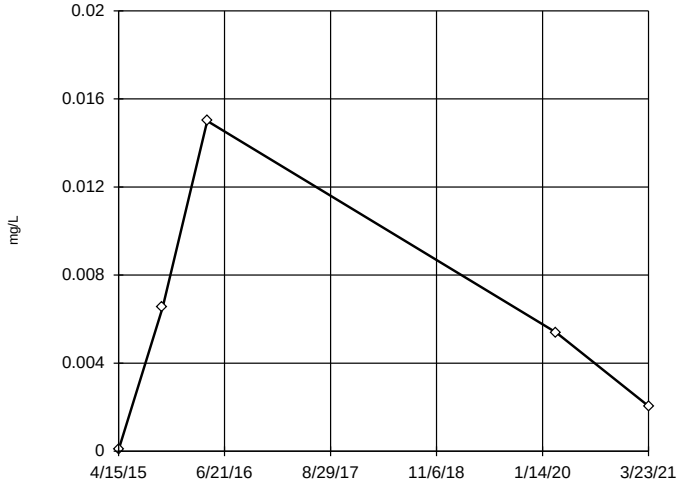
No statistical outliers.

Constituent: Chromium Analysis Run 9/4/2024 2:00 PM View: 2024SSN - GWD-2 BG

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Dixon's Outlier Test / Ohio EPA 0715 Outlier Algorithm

GWD-2



n = 5

No statistical outliers.
Testing for 1 low outlier.
Mean = 0.005806.
Std. Dev. = 0.00575.
6.8E-05 (J): c = 0.1327
tabl = 0.78.
Alpha = 0.01.

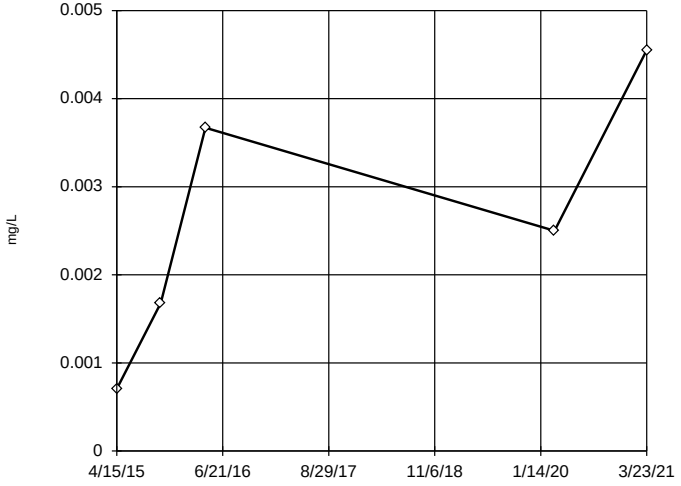
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9068
Critical = 0.687
The distribution was found to be normally distrib-uted.

Constituent: Cobalt Analysis Run 9/4/2024 2:00 PM View: 2024SSN - GWD-2 BG

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

EPA Screening (suspected outliers for Dixon's Test)

GWD-2



n = 5

Dixon's will not be run.
No suspect values identi-fied or unable to estab-lish suspect values.
Ohio method in use.
Mean 0.002621, std. dev. 0.001532, critical Tn 1.672

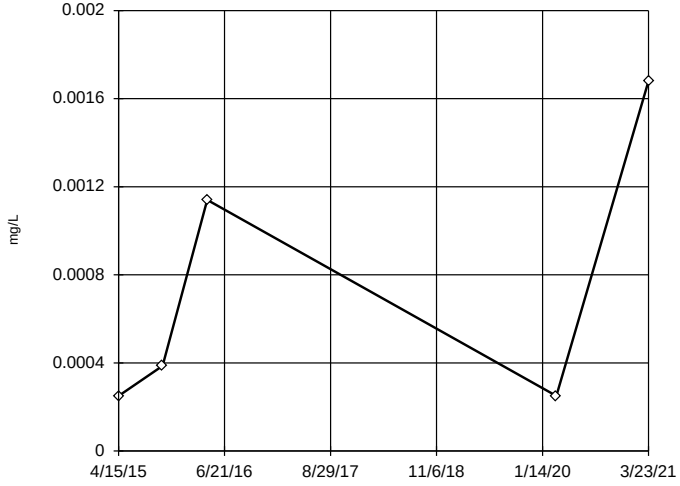
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.981
Critical = 0.686
The distribution was found to be normally distrib-uted.

Constituent: Copper Analysis Run 9/4/2024 2:00 PM View: 2024SSN - GWD-2 BG

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

EPA Screening (suspected outliers for Dixon's Test)

GWD-2



n = 5

Dixon's will not be run.
No suspect values identi-fied or unable to estab-lish suspect values.
Ohio method in use.
Mean 0.0007414, std. dev. 0.0006419, critical Tn 1.672

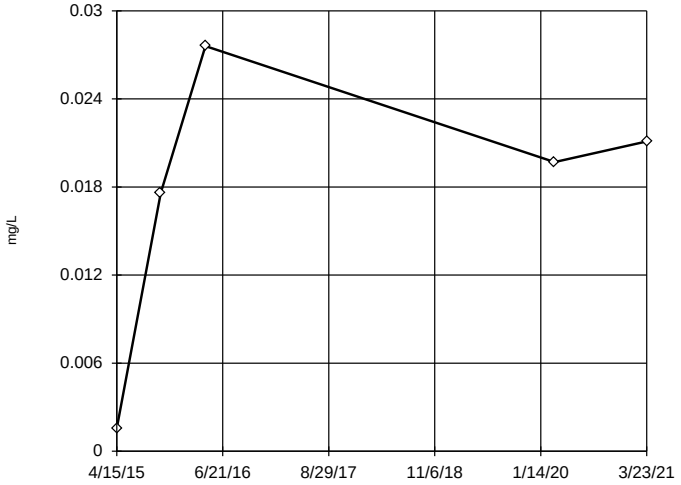
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8236
Critical = 0.686
The distribution was found to be normally distrib-uted.

Constituent: Lead Analysis Run 9/4/2024 2:00 PM View: 2024SSN - GWD-2 BG

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Dixon's Outlier Test / Ohio EPA 0715 Outlier Algorithm

GWD-2



n = 5

No statistical outliers.
Testing for 1 low outlier.
Mean = 0.01751.
Std. Dev. = 0.009664.
0.00157 (J): c = 0.6158
tabl = 0.78.
Alpha = 0.01.

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9048
Critical = 0.687
The distribution was found to be normally distrib-uted.

Constituent: Nickel Analysis Run 9/4/2024 2:00 PM View: 2024SSN - GWD-2 BG

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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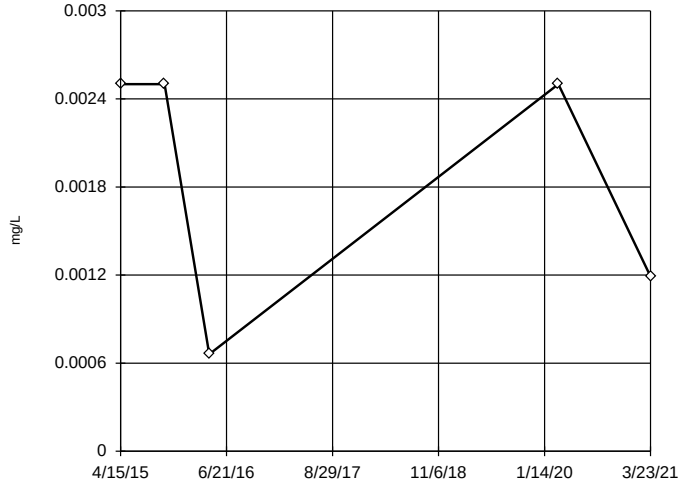
EPA Screening (suspected outliers for Dixon's Test)

GWD-2



n = 5

Dixon's will not be run.
No suspect values identi-fied or unable to estab-lish suspect values.
Ohio method in use.
Mean 0.00187, std. dev. 0.0008824, critical Tn 1.672

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.7597
Critical = 0.686
The distribution was found to be normally distrib-uted.

Constituent: Selenium Analysis Run 9/4/2024 2:00 PM View: 2024SSN - GWD-2 BG

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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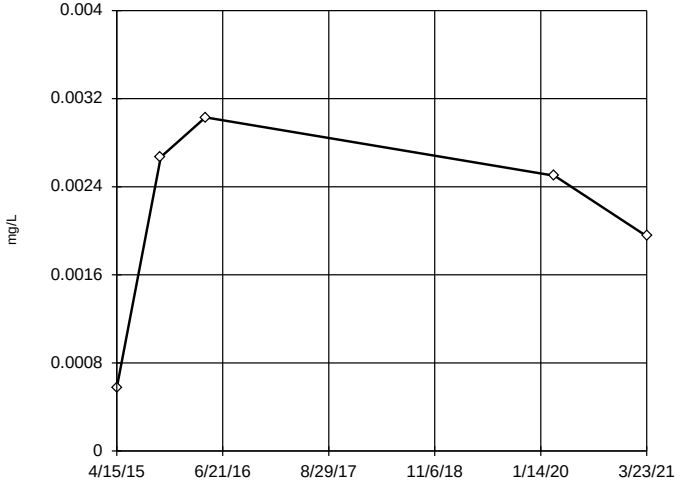
Dixon's Outlier Test / Ohio EPA 0715 Outlier Algorithm

GWD-2



n = 5

No statistical outliers.
Testing for 1 low outlier.
Mean = 0.002145.
Std. Dev. = 0.0009602.
0.000575 (J): c = 0.5601
tabl = 0.78.
Alpha = 0.01.

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.979
Critical = 0.687
The distribution was found to be normally distrib-uted.

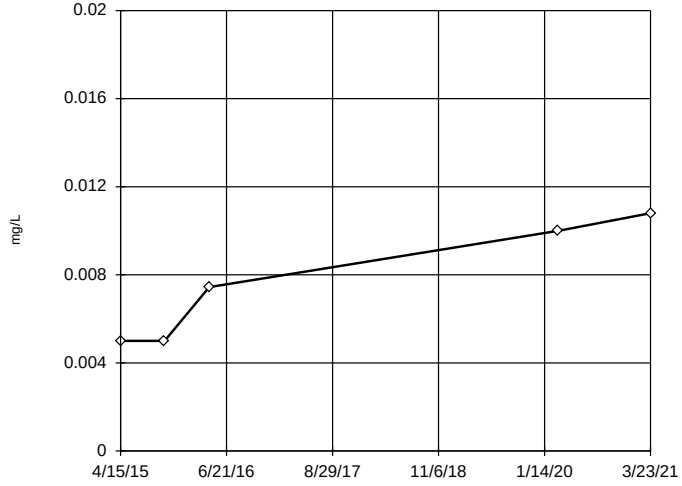
Constituent: Vanadium Analysis Run 9/4/2024 2:00 PM View: 2024SSN - GWD-2 BG

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

EPA Screening (suspected outliers for Dixon's Test)

GWD-2



n = 5

Dixon's will not be run.
No suspect values identi-fied or unable to estab-lish suspect values.
Ohio method in use.
Mean 0.007648, std. dev. 0.002717, critical Tn 1.672

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8673
Critical = 0.686
The distribution was found to be normally distrib-uted.

Constituent: Zinc Analysis Run 9/4/2024 2:00 PM View: 2024SSN - GWD-2 BG

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Intrawell Prediction Limits Summary Table and Graphs – Open MSWLF Unit

Intrawell Prediction Limit

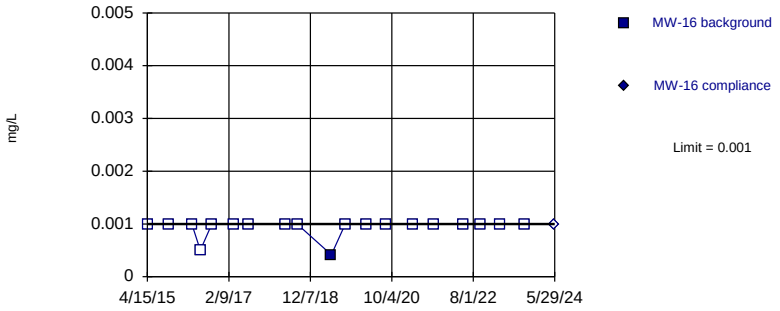
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master Printed 9/23/2024, 5:11 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	MW-16	0.001	n/a	5/29/2024	0.001ND	No	19	n/a	n/a	n/a	94.74	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Barium (mg/L)	MW-16	0.3962	n/a	5/29/2024	0.221	No	19	n/a	0.3083	0.03886	0	None	No	0.0008776	Param Intra 1 of 2
Beryllium (mg/L)	MW-16	0.0005	n/a	5/29/2024	0.0005ND	No	19	n/a	n/a	n/a	94.74	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	MW-16	0.0002835	n/a	5/29/2024	0.0001ND	No	19	n/a	n/a	n/a	63.16	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	MW-16	0.0004544	n/a	5/29/2024	0.00025ND	No	19	n/a	0.0002298	0.0000992	21.05	Kaplan-Meier	No	0.0008776	Param Intra 1 of 2
Copper (mg/L)	MW-16	0.01045	n/a	5/29/2024	0.0025ND	No	19	n/a	n/a	n/a	78.95	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Lead (mg/L)	MW-16	0.000478	n/a	5/29/2024	0.00025ND	No	19	n/a	n/a	n/a	68.42	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Nickel (mg/L)	MW-16	0.01394	n/a	5/29/2024	0.00716	No	19	n/a	0.007898	0.002671	0	None	No	0.0008776	Param Intra 1 of 2
Silver (mg/L)	MW-16	0.000752	n/a	5/29/2024	0.0005ND	No	19	n/a	n/a	n/a	94.74	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Thallium (mg/L)	MW-16	0.001	n/a	5/29/2024	0.0005ND	No	19	n/a	n/a	n/a	94.74	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	MW-16	0.0025	n/a	5/29/2024	0.0025ND	No	19	n/a	n/a	n/a	89.47	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Zinc (mg/L)	MW-16	0.01	n/a	5/29/2024	0.01ND	No	19	n/a	n/a	n/a	94.74	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 94.74% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

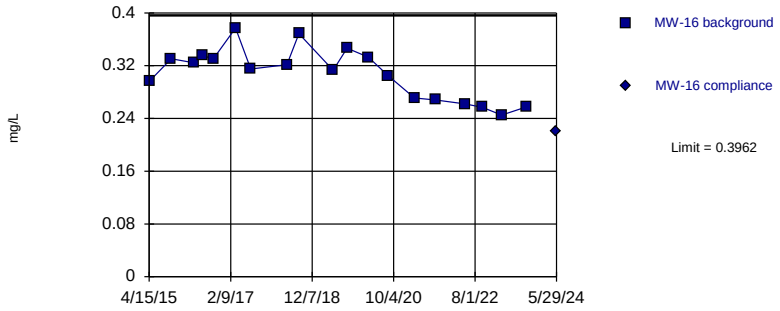
Constituent: Arsenic Analysis Run 9/23/2024 5:10 PM View: 2024SSN MW-16 IntraPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.3083, Std. Dev.=0.03886, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9453, critical = 0.863. Kappa = 2.263 (c=12, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008776.

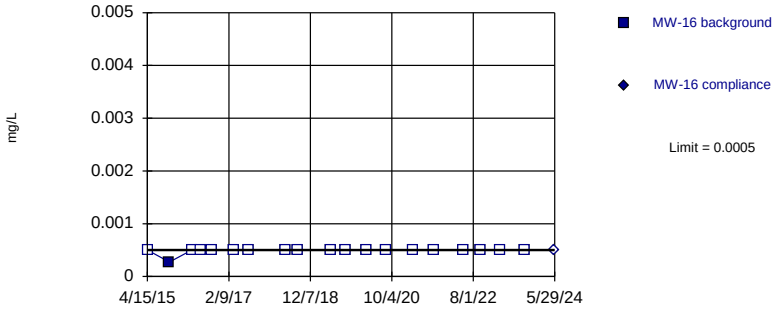
Constituent: Barium Analysis Run 9/23/2024 5:10 PM View: 2024SSN MW-16 IntraPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 94.74% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

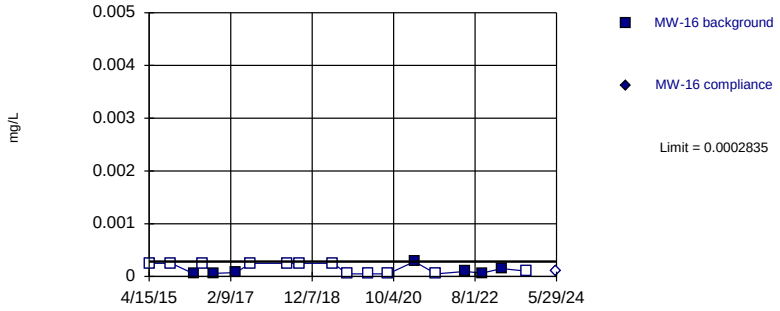
Constituent: Beryllium Analysis Run 9/23/2024 5:10 PM View: 2024SSN MW-16 IntraPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 63.16% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Cadmium Analysis Run 9/23/2024 5:10 PM View: 2024SSN MW-16 IntraPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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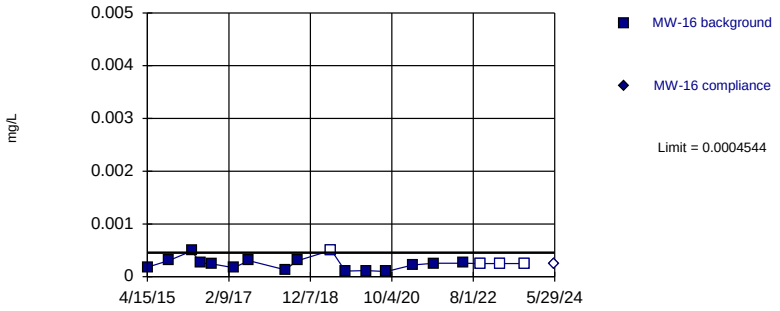
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.0002298, Std. Dev.=0.00009929, n=19, 21.05% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8834, critical = 0.863. Kappa = 2.263 (c=12, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008776.

Constituent: Cobalt Analysis Run 9/23/2024 5:10 PM View: 2024SSN MW-16 IntraPL

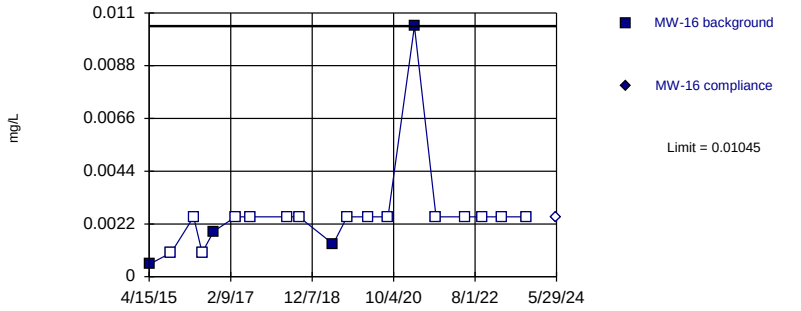
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 78.95% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Copper Analysis Run 9/23/2024 5:10 PM View: 2024SSN MW-16 IntraPL

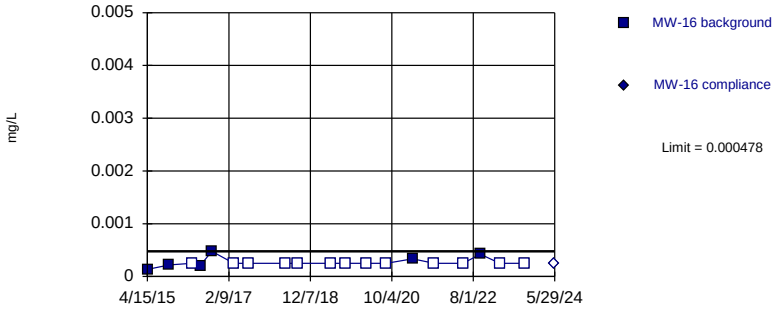
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 68.42% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Lead Analysis Run 9/23/2024 5:10 PM View: 2024SSN MW-16 IntraPL

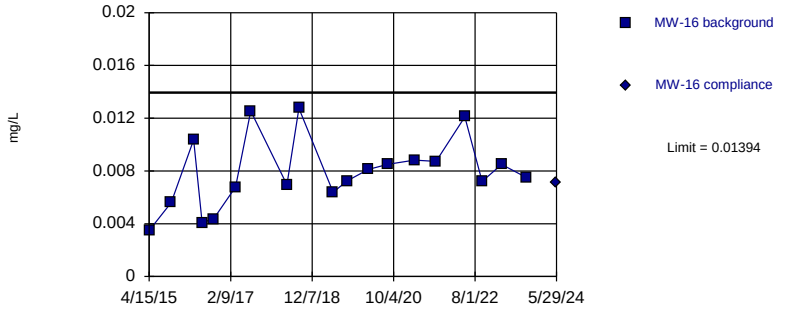
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.007898, Std. Dev.=0.002671, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9501, critical = 0.863. Kappa = 2.263 (c=12, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008776.

Constituent: Nickel Analysis Run 9/23/2024 5:10 PM View: 2024SSN MW-16 IntraPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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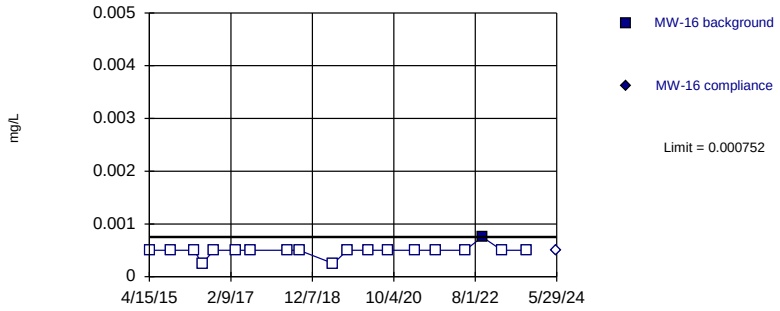
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 94.74% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Silver Analysis Run 9/23/2024 5:10 PM View: 2024SSN MW-16 IntraPL

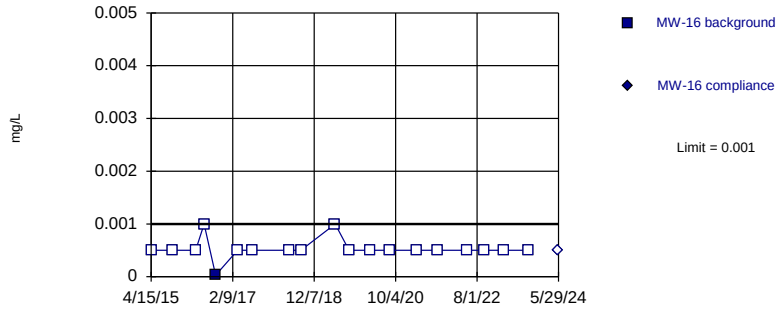
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 94.74% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Thallium Analysis Run 9/23/2024 5:10 PM View: 2024SSN MW-16 IntraPL

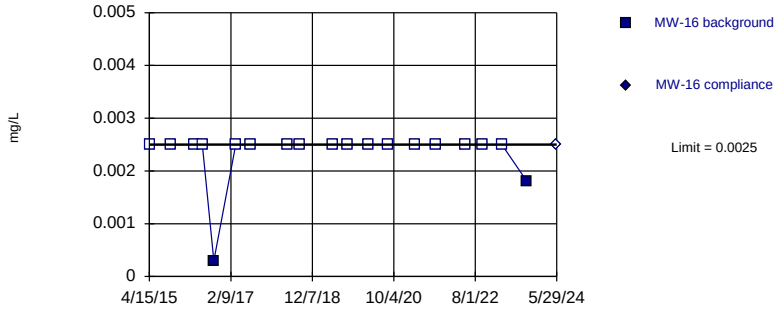
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 89.47% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Vanadium Analysis Run 9/23/2024 5:10 PM View: 2024SSN MW-16 IntraPL

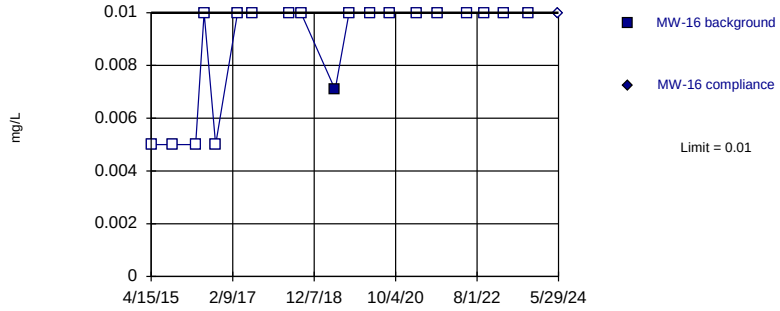
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 94.74% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Zinc Analysis Run 9/23/2024 5:10 PM View: 2024SSN MW-16 IntraPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Intrawell Prediction Limit

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master Printed 9/23/2024, 5:09 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	MW-27	0.0015	n/a	5/29/2024	0.001ND	No	14	n/a	n/a	n/a	92.86	n/a	n/a	0.008612	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	MW-27	0.001	n/a	5/29/2024	0.001ND	No	14	n/a	n/a	n/a	92.86	n/a	n/a	0.008612	NP Intra (NDs) 1 of 2
Barium (mg/L)	MW-27	0.03802	n/a	5/29/2024	0.0319	No	14	n/a	0.0342	0.001669	0	None	No	0.001316	Param Intra 1 of 2
Chromium (mg/L)	MW-27	0.0025	n/a	5/29/2024	0.0025ND	No	14	n/a	n/a	n/a	85.71	n/a	n/a	0.008612	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	MW-27	0.0005	n/a	5/29/2024	0.00025ND	No	14	n/a	n/a	n/a	71.43	n/a	n/a	0.008612	NP Intra (NDs) 1 of 2
Copper (mg/L)	MW-27	0.0025	n/a	5/29/2024	0.0025ND	No	14	n/a	n/a	n/a	92.86	n/a	n/a	0.008612	NP Intra (NDs) 1 of 2
Lead (mg/L)	MW-27	0.00025	n/a	5/29/2024	0.00025ND	No	14	n/a	n/a	n/a	92.86	n/a	n/a	0.008612	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	MW-27	0.0025	n/a	5/29/2024	0.0025ND	No	14	n/a	n/a	n/a	57.14	n/a	n/a	0.008612	NP Intra (NDs) 1 of 2

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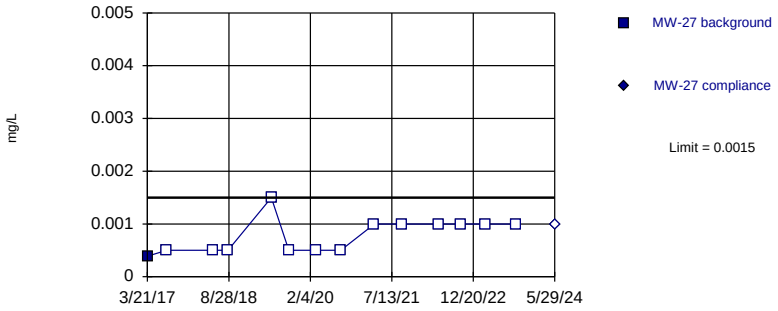
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 92.86% NDs. Well-constituent pair annual alpha = 0.01715. Individual comparison alpha = 0.008612 (1 of 2).

Constituent: Antimony Analysis Run 9/23/2024 5:08 PM View: 2024SSN MW-27 IntraPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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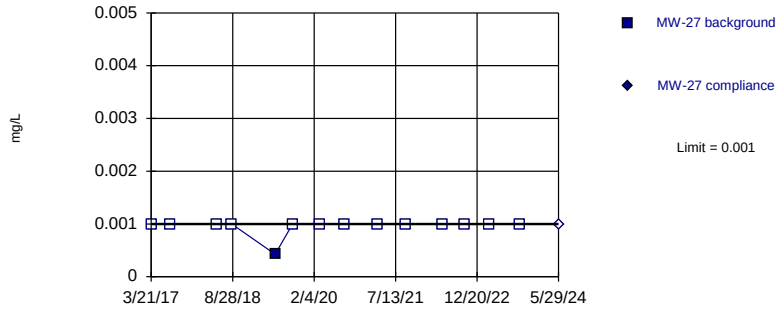
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 92.86% NDs. Well-constituent pair annual alpha = 0.01715. Individual comparison alpha = 0.008612 (1 of 2).

Constituent: Arsenic Analysis Run 9/23/2024 5:08 PM View: 2024SSN MW-27 IntraPL

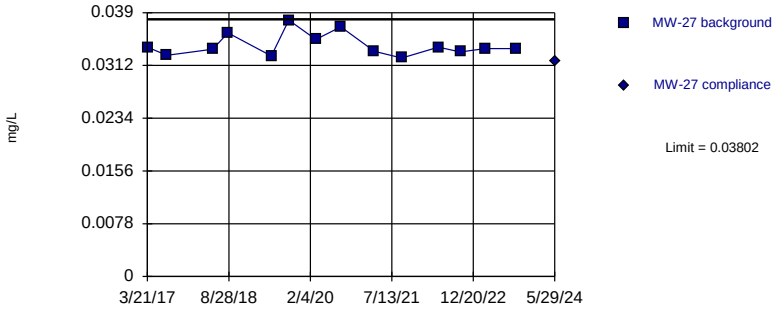
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.0342, Std. Dev.=0.001669, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8687, critical = 0.825. Kappa = 2.289 (c=8, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001316.

Constituent: Barium Analysis Run 9/23/2024 5:08 PM View: 2024SSN MW-27 IntraPL

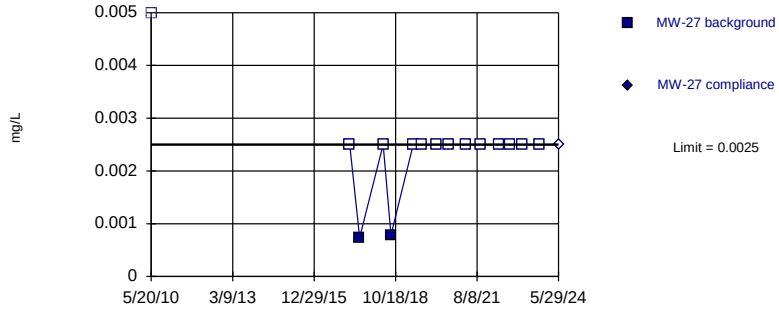
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 85.71% NDs. Well-constituent pair annual alpha = 0.01715. Individual comparison alpha = 0.008612 (1 of 2).

Constituent: Chromium Analysis Run 9/23/2024 5:08 PM View: 2024SSN MW-27 IntraPL

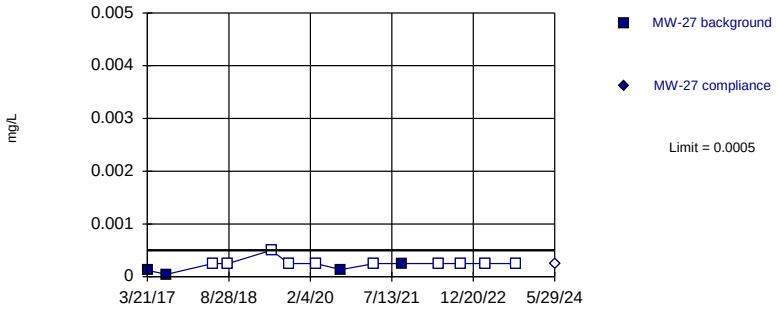
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 71.43% NDs. Well-constituent pair annual alpha = 0.01715. Individual comparison alpha = 0.008612 (1 of 2).

Constituent: Cobalt Analysis Run 9/23/2024 5:08 PM View: 2024SSN MW-27 IntraPL

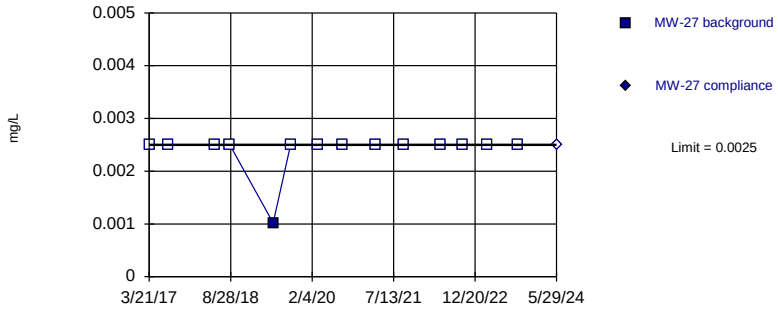
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 92.86% NDs. Well-constituent pair annual alpha = 0.01715. Individual comparison alpha = 0.008612 (1 of 2).

Constituent: Copper Analysis Run 9/23/2024 5:08 PM View: 2024SSN MW-27 IntraPL

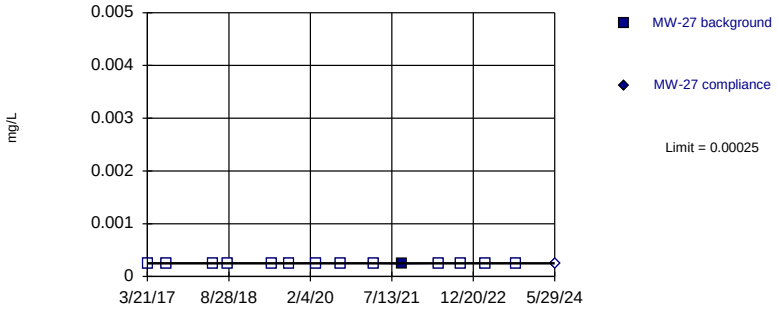
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 92.86% NDs. Well-constituent pair annual alpha = 0.01715. Individual comparison alpha = 0.008612 (1 of 2).

Constituent: Lead Analysis Run 9/23/2024 5:08 PM View: 2024SSN MW-27 IntraPL

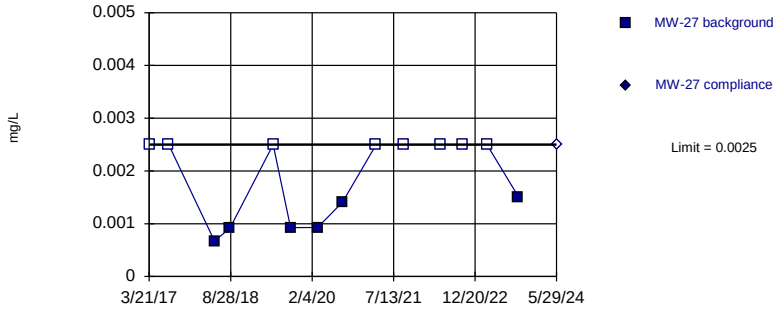
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 57.14% NDs. Well-constituent pair annual alpha = 0.01715. Individual comparison alpha = 0.008612 (1 of 2).

Constituent: Vanadium Analysis Run 9/23/2024 5:08 PM View: 2024SSN MW-27 IntraPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Intrawell Prediction Limit

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master Printed 9/19/2024, 3:10 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	MW-35	0.004	n/a	5/29/2024	0.001ND	No	21	n/a	n/a	n/a	66.67	n/a	n/a	0.003999	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	MW-35	0.0116	n/a	5/29/2024	0.001ND	No	24	n/a	n/a	n/a	41.67	n/a	n/a	0.003124	NP Intra (normality) 1 of 2
Barium (mg/L)	MW-35	0.46	n/a	5/29/2024	0.017	No	25	n/a	n/a	n/a	4	n/a	n/a	0.002832	NP Intra (normality) 1 of 2
Cadmium (mg/L)	MW-35	0.0004	n/a	5/29/2024	0.0001ND	No	24	n/a	n/a	n/a	75	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Chromium (mg/L)	MW-35	0.01	n/a	5/29/2024	0.0025ND	No	24	n/a	n/a	n/a	91.67	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	MW-35	0.06042	n/a	5/29/2024	0.00329	No	21	n/a	0.107	0.06198	0	None	sqrt(x)	0.0008101	Param Intra 1 of 2
Copper (mg/L)	MW-35	0.0212	n/a	5/29/2024	0.0025ND	No	25	n/a	n/a	n/a	84	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Lead (mg/L)	MW-35	0.002	n/a	5/29/2024	0.00025ND	No	24	n/a	n/a	n/a	83.33	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Nickel (mg/L)	MW-35	0.2191	n/a	5/29/2024	0.0243	No	24	n/a	0.2065	0.1194	8.333	None	sqrt(x)	0.0008101	Param Intra 1 of 2
Selenium (mg/L)	MW-35	0.01	n/a	5/29/2024	0.0025ND	No	24	n/a	n/a	n/a	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Thallium (mg/L)	MW-35	0.002	n/a	5/29/2024	0.0005ND	No	24	n/a	n/a	n/a	87.5	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	MW-35	0.01	n/a	5/29/2024	0.0025ND	No	24	n/a	n/a	n/a	79.17	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Zinc (mg/L)	MW-35	0.147	n/a	5/29/2024	0.01ND	No	25	n/a	n/a	n/a	72	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2

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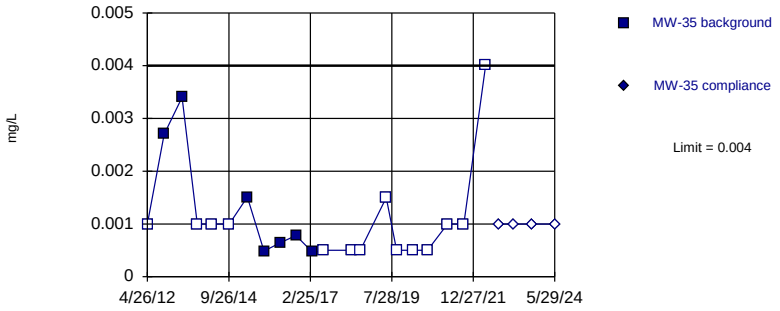
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



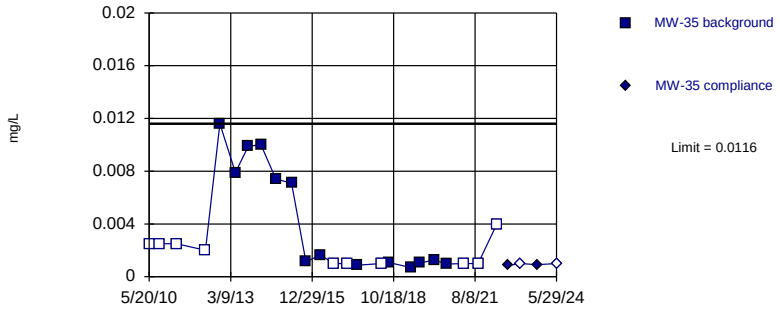
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Constituent: Antimony Analysis Run 9/19/2024 3:09 PM View: 2024SSN - MW-35 IntraPL
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



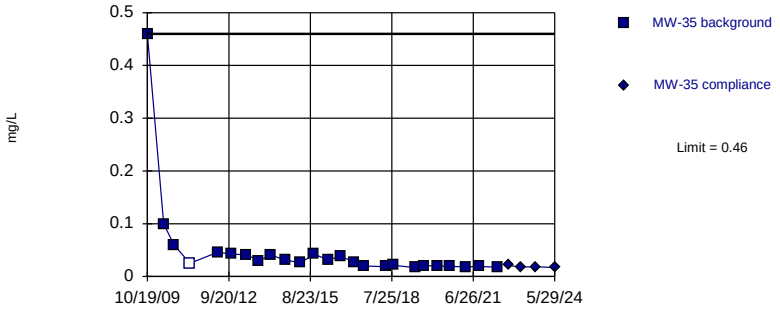
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 24 background values. 41.67% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Arsenic Analysis Run 9/19/2024 3:09 PM View: 2024SSN - MW-35 IntraPL
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



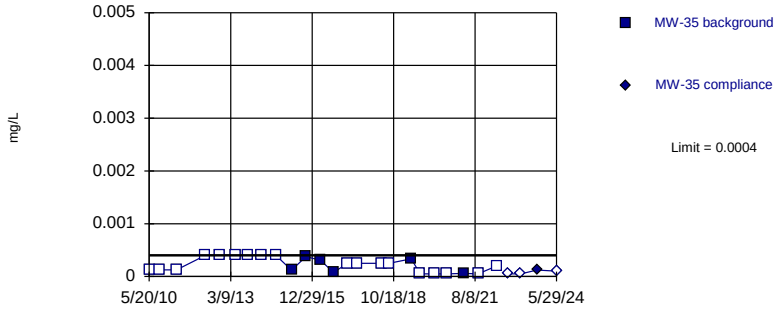
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 25 background values. 4% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Barium Analysis Run 9/19/2024 3:09 PM View: 2024SSN - MW-35 IntraPL
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 75% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

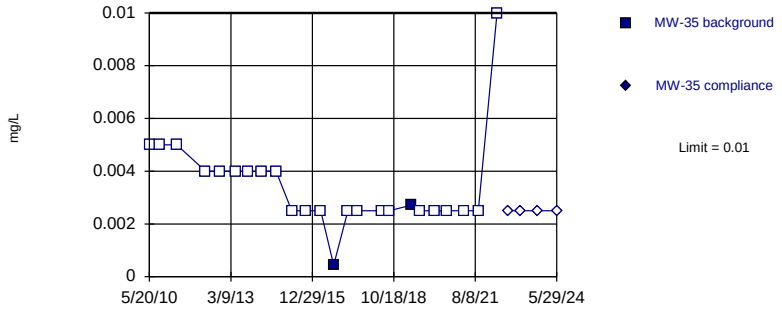
Constituent: Cadmium Analysis Run 9/19/2024 3:09 PM View: 2024SSN - MW-35 IntraPL
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

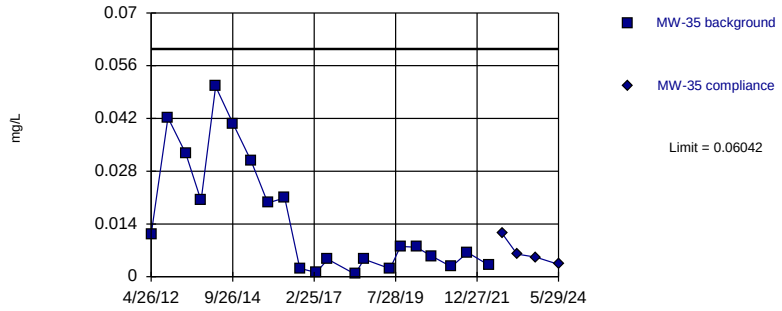
Constituent: Chromium Analysis Run 9/19/2024 3:09 PM View: 2024SSN - MW-35 IntraPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=0.107, Std. Dev.=0.06198, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9152, critical = 0.873. Kappa = 2.239 (c=13, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008101.

Constituent: Cobalt Analysis Run 9/19/2024 3:09 PM View: 2024SSN - MW-35 IntraPL

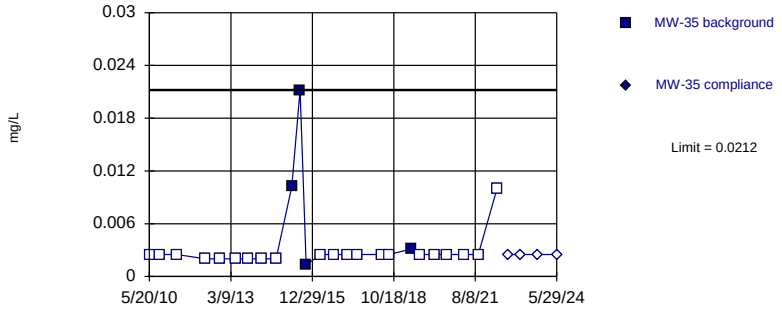
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 84% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Copper Analysis Run 9/19/2024 3:09 PM View: 2024SSN - MW-35 IntraPL

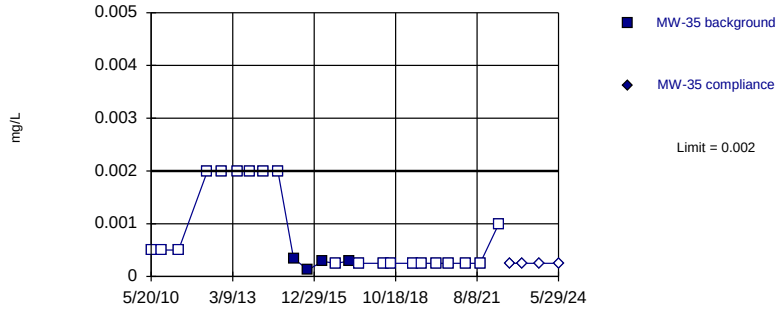
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 83.33% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Lead Analysis Run 9/19/2024 3:09 PM View: 2024SSN - MW-35 IntraPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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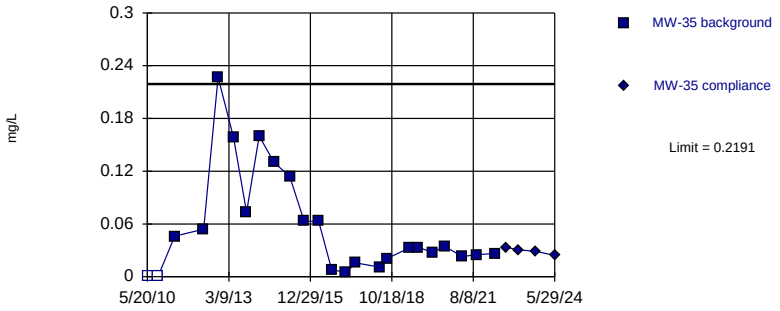
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=0.2065, Std. Dev.=0.1194, n=24, 8.333% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.953, critical = 0.884. Kappa = 2.19 (c=13, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008101.

Constituent: Nickel Analysis Run 9/19/2024 3:09 PM View: 2024SSN - MW-35 IntraPL

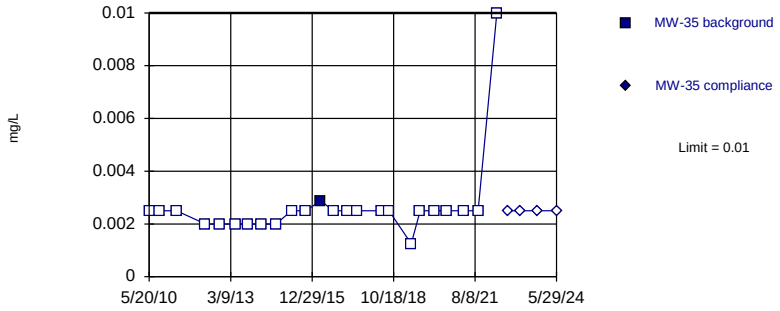
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Selenium Analysis Run 9/19/2024 3:09 PM View: 2024SSN - MW-35 IntraPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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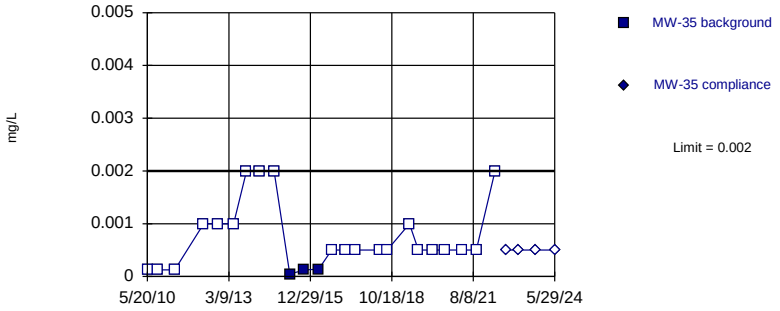
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Thallium Analysis Run 9/19/2024 3:09 PM View: 2024SSN - MW-35 IntraPL

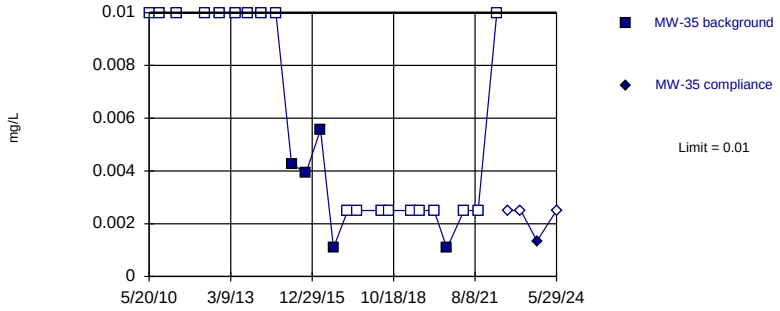
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 79.17% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Vanadium Analysis Run 9/19/2024 3:09 PM View: 2024SSN - MW-35 IntraPL

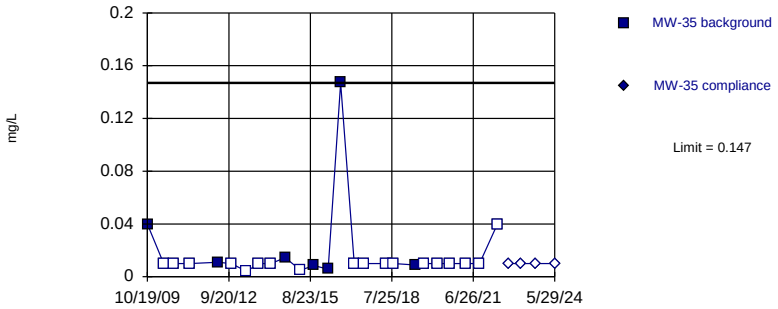
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 72% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Zinc Analysis Run 9/19/2024 3:09 PM View: 2024SSN - MW-35 IntraPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Intrawell Prediction Limit

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master Printed 9/20/2024, 5:58 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	MW-42R	0.0075	n/a	5/29/2024	0.001ND	No	12	n/a	n/a	n/a	58.33	n/a	n/a	0.01077	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	MW-42R	0.0298	n/a	5/29/2024	0.001ND	No	12	n/a	n/a	n/a	25	n/a	n/a	0.01077	NP Intra (normality) 1 of 2
Barium (mg/L)	MW-42R	0.03633	n/a	5/29/2024	0.0158	No	12	n/a	0.02443	0.004566	0	None	No	0.0007523	Param Intra 1 of 2
Beryllium (mg/L)	MW-42R	0.0005	n/a	5/29/2024	0.0005ND	No	12	n/a	n/a	n/a	91.67	n/a	n/a	0.01077	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	MW-42R	0.0005066	n/a	5/29/2024	0.0001ND	No	12	n/a	0.05664	0.008857	25	Kaplan-Meier	x^(1/3)	0.0007523	Param Intra 1 of 2
Chromium (mg/L)	MW-42R	0.0125	n/a	5/29/2024	0.0025ND	No	12	n/a	n/a	n/a	91.67	n/a	n/a	0.01077	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	MW-42R	0.008068	n/a	5/29/2024	0.00365	No	13	n/a	0.004827	0.001269	0	None	No	0.0007523	Param Intra 1 of 2
Copper (mg/L)	MW-42R	0.00905	n/a	5/29/2024	0.00222J	No	12	n/a	n/a	n/a	41.67	n/a	n/a	0.01077	NP Intra (normality) 1 of 2
Lead (mg/L)	MW-42R	0.00125	n/a	5/29/2024	0.00025ND	No	12	n/a	n/a	n/a	75	n/a	n/a	0.01077	NP Intra (NDs) 1 of 2
Nickel (mg/L)	MW-42R	0.04831	n/a	5/29/2024	0.01	No	12	n/a	-3.931	0.3459	0	None	ln(x)	0.0007523	Param Intra 1 of 2
Selenium (mg/L)	MW-42R	0.01269	n/a	5/29/2024	0.0025ND	No	12	n/a	0.05703	0.02135	25	Kaplan-Meier	sqrt(x)	0.0007523	Param Intra 1 of 2
Thallium (mg/L)	MW-42R	0.005	n/a	5/29/2024	0.0005ND	No	12	n/a	n/a	n/a	91.67	n/a	n/a	0.01077	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	MW-42R	0.0169	n/a	5/29/2024	0.0025ND	No	12	n/a	n/a	n/a	33.33	n/a	n/a	0.01077	NP Intra (normality) 1 of 2
Zinc (mg/L)	MW-42R	0.03136	n/a	5/29/2024	0.01ND	No	12	n/a	0.2347	0.03095	50	Kaplan-Meier	x^(1/3)	0.0007523	Param Intra 1 of 2

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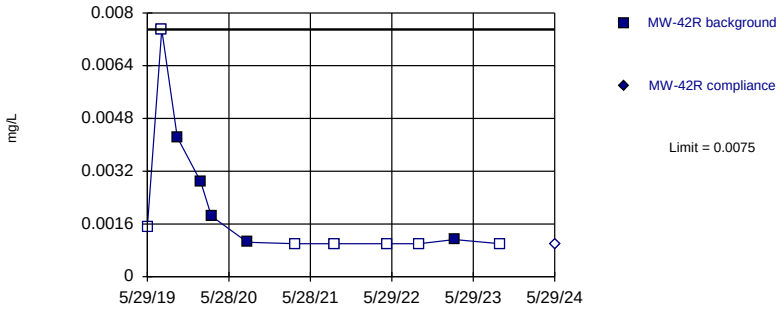
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 58.33% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

Constituent: Antimony Analysis Run 9/20/2024 5:55 PM View: 2024SSN MW-42R IntraPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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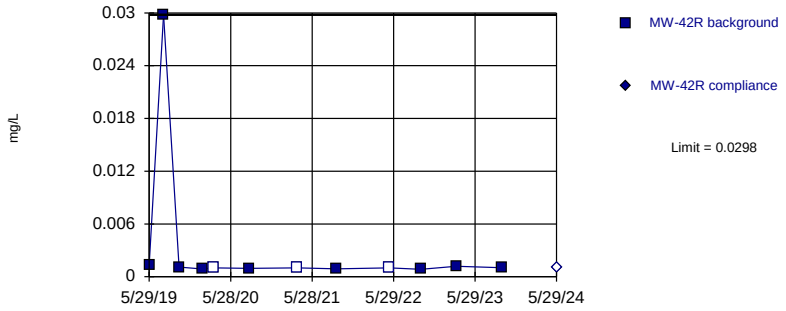
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 12 background values. 25% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

Constituent: Arsenic Analysis Run 9/20/2024 5:55 PM View: 2024SSN MW-42R IntraPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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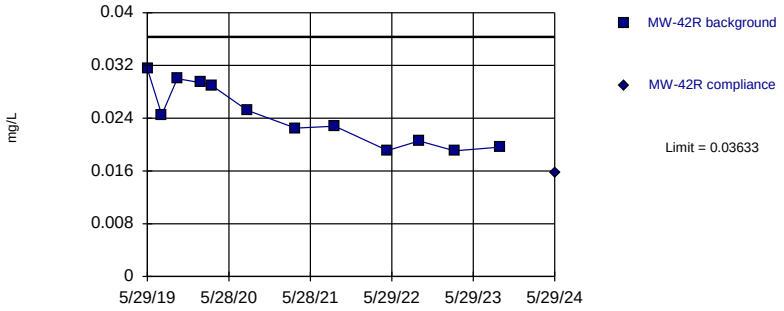
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.02443, Std. Dev.=0.004566, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9019, critical = 0.805. Kappa = 2.606 (c=14, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Barium Analysis Run 9/20/2024 5:55 PM View: 2024SSN MW-42R IntraPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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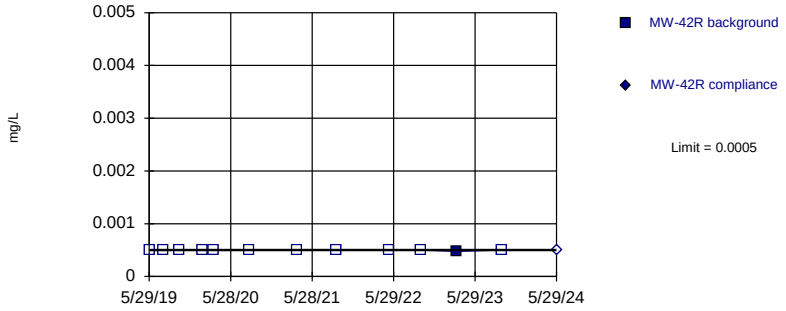
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

Constituent: Beryllium Analysis Run 9/20/2024 5:55 PM View: 2024SSN MW-42R IntraPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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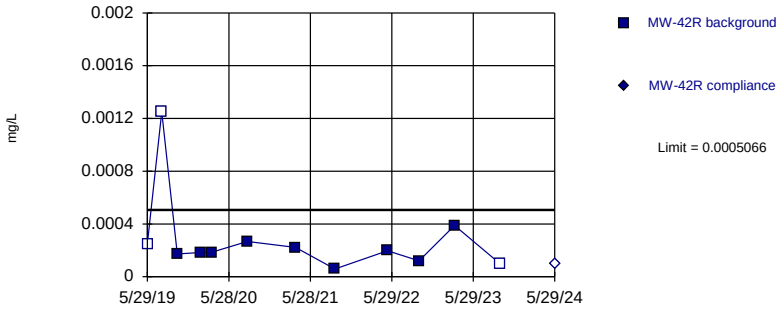
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation) (after Kaplan-Meier Adjustment): Mean=0.05664, Std. Dev.=0.008857, n=12, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8202, critical = 0.805. Kappa = 2.606 (c=14, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Cadmium Analysis Run 9/20/2024 5:55 PM View: 2024SSN MW-42R IntraPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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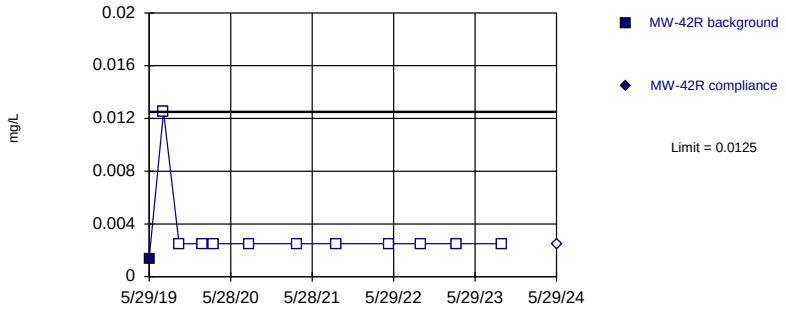
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

Constituent: Chromium Analysis Run 9/20/2024 5:55 PM View: 2024SSN MW-42R IntraPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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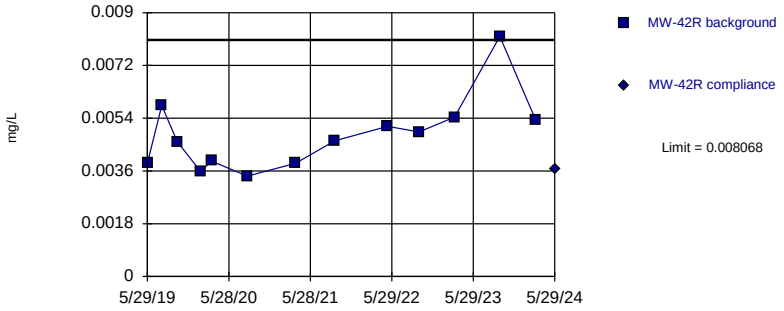
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.004827, Std. Dev.=0.001269, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8631, critical = 0.814. Kappa = 2.554 (c=14, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Cobalt Analysis Run 9/20/2024 5:55 PM View: 2024SSN MW-42R IntraPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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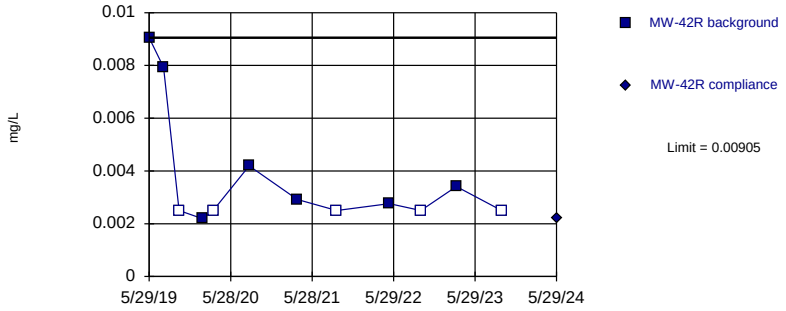
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 12 background values. 41.67% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

Constituent: Copper Analysis Run 9/20/2024 5:56 PM View: 2024SSN MW-42R IntraPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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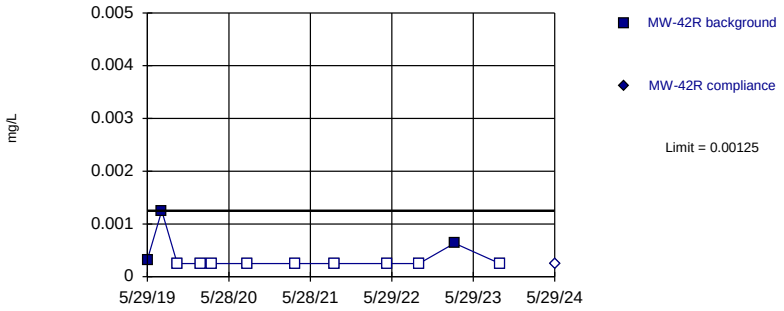
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 75% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

Constituent: Lead Analysis Run 9/20/2024 5:56 PM View: 2024SSN MW-42R IntraPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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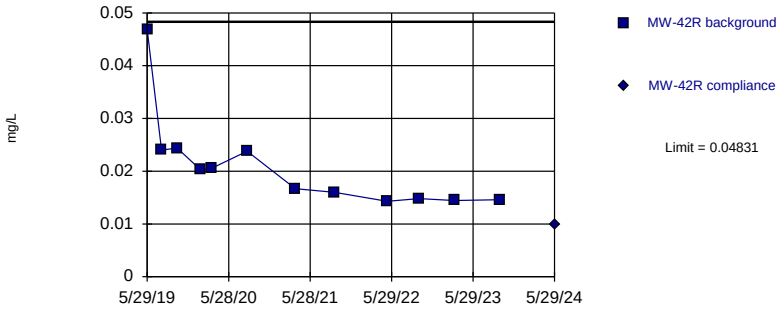
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=-3.931, Std. Dev.=0.3459, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8302, critical = 0.805. Kappa = 2.606 (c=14, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Nickel Analysis Run 9/20/2024 5:56 PM View: 2024SSN MW-42R IntraPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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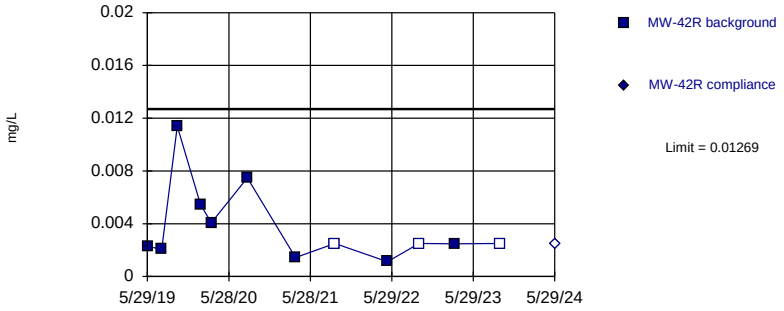
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.05703, Std. Dev.=0.02135, n=12, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8578, critical = 0.805. Kappa = 2.606 (c=14, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Selenium Analysis Run 9/20/2024 5:56 PM View: 2024SSN MW-42R IntraPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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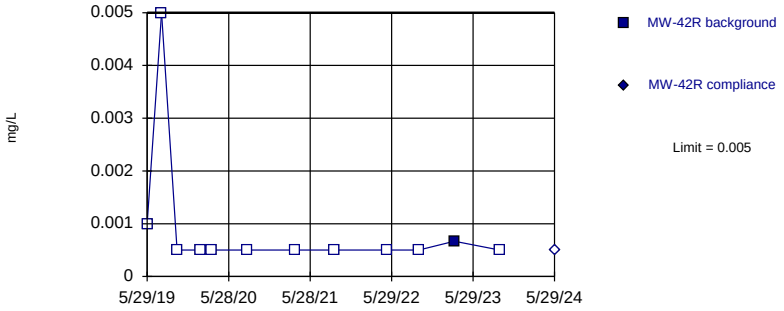
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

Constituent: Thallium Analysis Run 9/20/2024 5:56 PM View: 2024SSN MW-42R IntraPL

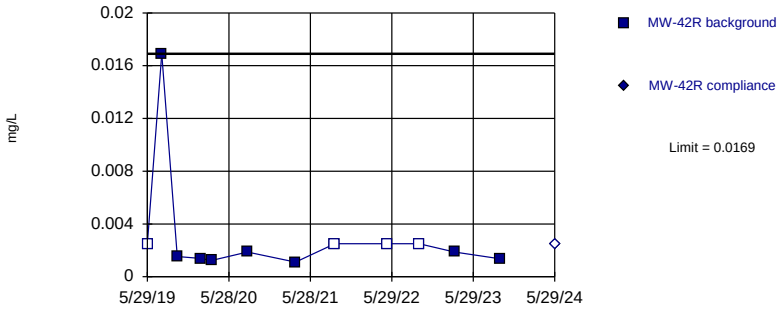
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell 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 12 background values. 33.33% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

Constituent: Vanadium Analysis Run 9/20/2024 5:56 PM View: 2024SSN MW-42R IntraPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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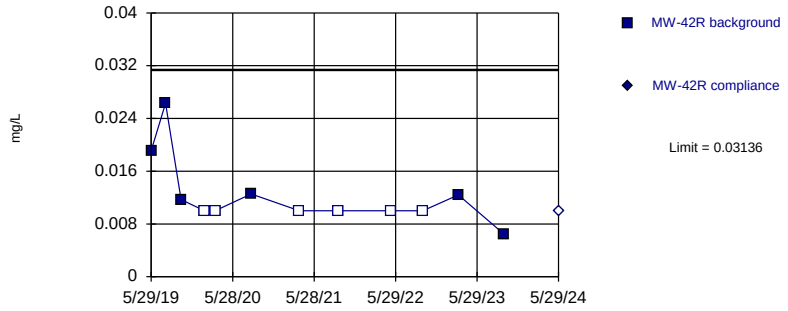
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation) (after Kaplan-Meier Adjustment): Mean=0.2347, Std. Dev.=0.03095, n=12, 50% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.807, critical = 0.805. Kappa = 2.606 (c=14, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Zinc Analysis Run 9/20/2024 5:56 PM View: 2024SSN MW-42R IntraPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Prediction Limit

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master Printed 9/4/2024, 3:15 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	GWD-2	0.07409	n/a	5/29/2024	0.00698	No	5	n/a	0.01103	0.01235	20	Kaplan-Meier	No	0.0008776	Param Intra 1 of 2
Barium (mg/L)	GWD-2	5.524	n/a	5/29/2024	0.336	No	5	n/a	0.914	0.9026	0	None	No	0.0008776	Param Intra 1 of 2
Beryllium (mg/L)	GWD-2	0.0005	n/a	5/29/2024	0.0005ND	No	5	n/a	n/a	n/a	80	n/a	n/a	0.04755	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWD-2	0.003115	n/a	5/29/2024	0.0001ND	No	5	n/a	0.0005844	0.0004955	40	Kaplan-Meier	No	0.0008776	Param Intra 1 of 2
Chromium (mg/L)	GWD-2	0.0025	n/a	5/29/2024	0.0025ND	No	5	n/a	n/a	n/a	80	n/a	n/a	0.04755	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWD-2	0.03518	n/a	5/29/2024	0.00636	No	5	n/a	0.005806	0.00575	0	None	No	0.0008776	Param Intra 1 of 2
Copper (mg/L)	GWD-2	0.01047	n/a	5/29/2024	0.0025ND	No	5	n/a	0.002652	0.001531	20	Kaplan-Meier	No	0.0008776	Param Intra 1 of 2
Lead (mg/L)	GWD-2	0.003501	n/a	5/29/2024	0.00025ND	No	5	n/a	0.0007962	0.0005295	40	Kaplan-Meier	No	0.0008776	Param Intra 1 of 2
Nickel (mg/L)	GWD-2	0.06688	n/a	5/29/2024	0.0216	No	5	n/a	0.01751	0.009664	0	None	No	0.0008776	Param Intra 1 of 2
Selenium (mg/L)	GWD-2	0.0025	n/a	5/29/2024	0.0025ND	No	5	n/a	n/a	n/a	60	n/a	n/a	0.04755	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWD-2	0.006855	n/a	5/29/2024	0.0025ND	No	5	n/a	0.002056	0.0009395	20	Kaplan-Meier	No	0.0008776	Param Intra 1 of 2
Zinc (mg/L)	GWD-2	0.0108	n/a	5/29/2024	0.01ND	No	5	n/a	n/a	n/a	60	n/a	n/a	0.04755	NP Intra (NDs) 1 of 2

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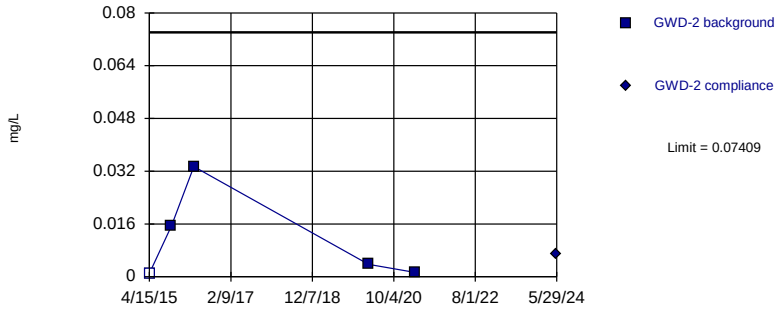
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.01103, Std. Dev.=0.01235, n=5, 20% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8097, critical = 0.686. Kappa = 5.108 (c=12, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008776.

Constituent: Arsenic Analysis Run 9/4/2024 3:11 PM View: 2024SSN - GWD-2 IntraPL

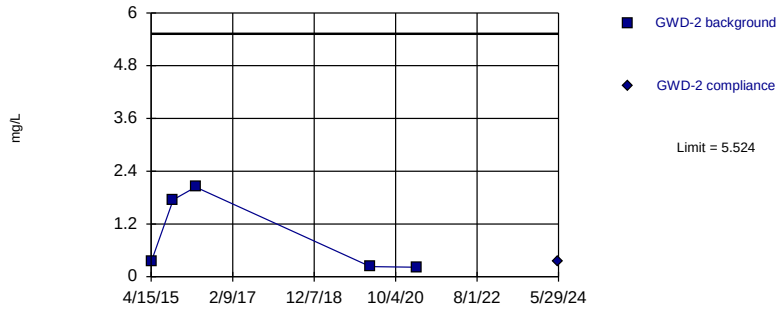
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.914, Std. Dev.=0.9026, n=5. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7654, critical = 0.686. Kappa = 5.108 (c=12, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008776.

Constituent: Barium Analysis Run 9/4/2024 3:11 PM View: 2024SSN - GWD-2 IntraPL

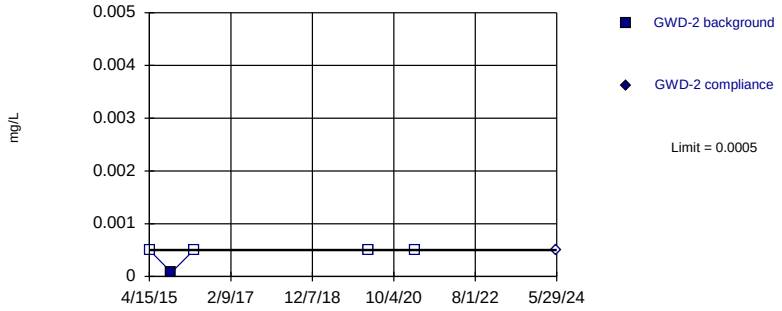
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 5 background values. 80% NDs. Well-constituent pair annual alpha = 0.09284. Individual comparison alpha = 0.04755 (1 of 2).

Constituent: Beryllium Analysis Run 9/4/2024 3:11 PM View: 2024SSN - GWD-2 IntraPL

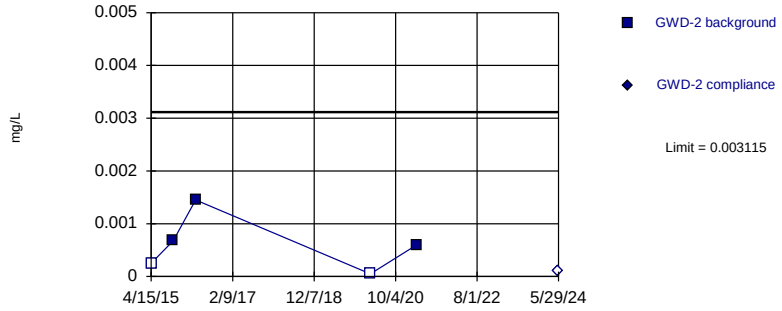
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.0005844, Std. Dev.=0.0004955, n=5, 40% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9264, critical = 0.686. Kappa = 5.108 (c=12, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008776.

Constituent: Cadmium Analysis Run 9/4/2024 3:11 PM View: 2024SSN - GWD-2 IntraPL

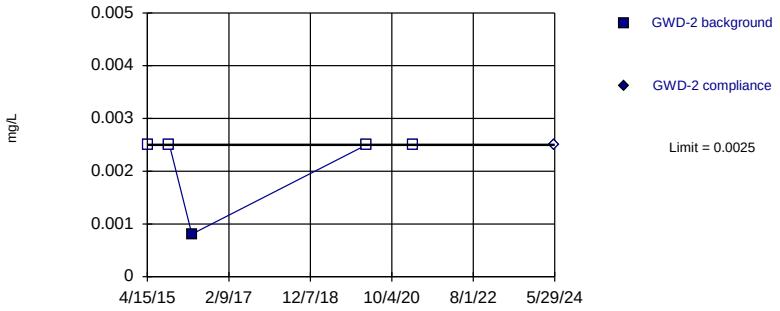
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 5 background values. 80% NDs. Well-constituent pair annual alpha = 0.09284. Individual comparison alpha = 0.04755 (1 of 2).

Constituent: Chromium Analysis Run 9/4/2024 3:11 PM View: 2024SSN - GWD-2 IntraPL

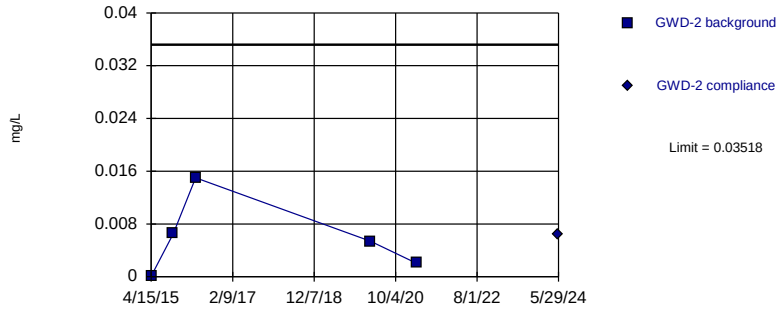
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.005806, Std. Dev.=0.00575, n=5. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9154, critical = 0.686. Kappa = 5.108 (c=12, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008776.

Constituent: Cobalt Analysis Run 9/4/2024 3:11 PM View: 2024SSN - GWD-2 IntraPL

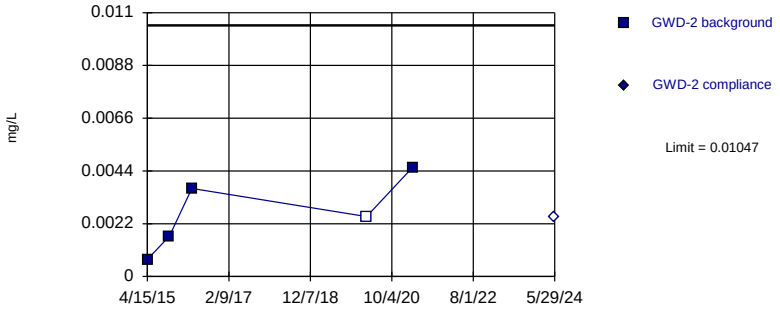
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.002652, Std. Dev.=0.001531, n=5, 20% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.981, critical = 0.686. Kappa = 5.108 (c=12, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008776.

Constituent: Copper Analysis Run 9/4/2024 3:11 PM View: 2024SSN - GWD-2 IntraPL

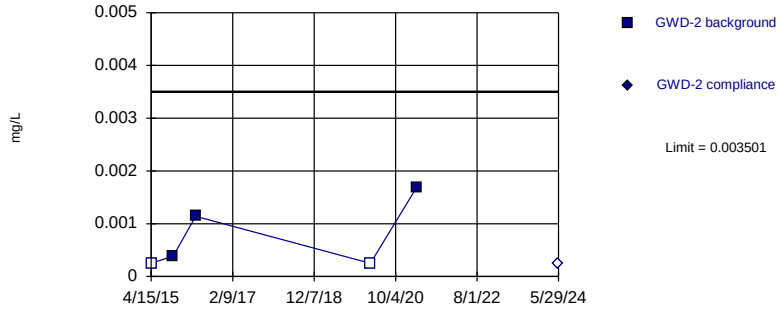
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.0007962, Std. Dev.=0.0005295, n=5, 40% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8236, critical = 0.686. Kappa = 5.108 (c=12, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008776.

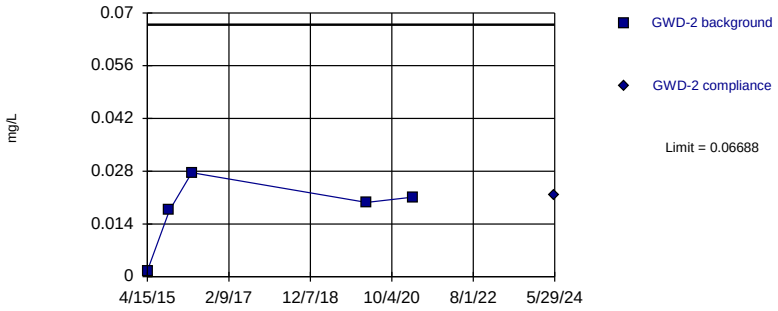
Constituent: Lead Analysis Run 9/4/2024 3:12 PM View: 2024SSN - GWD-2 IntraPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.01751, Std. Dev.=0.009664, n=5. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8812, critical = 0.686. Kappa = 5.108 (c=12, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008776.

Constituent: Nickel Analysis Run 9/4/2024 3:12 PM View: 2024SSN - GWD-2 IntraPL

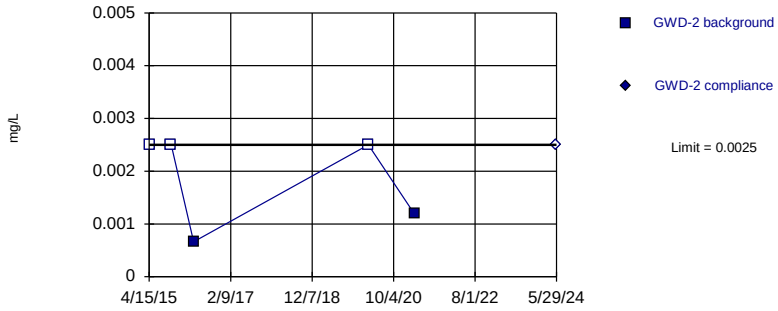
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 5 background values. 60% NDs. Well-constituent pair annual alpha = 0.09284. Individual comparison alpha = 0.04755 (1 of 2).

Constituent: Selenium Analysis Run 9/4/2024 3:12 PM View: 2024SSN - GWD-2 IntraPL

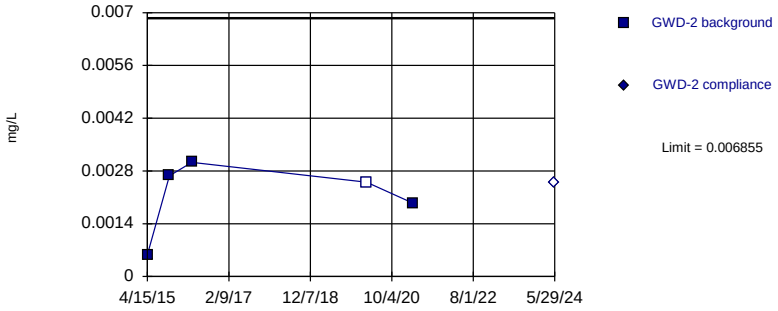
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.002056, Std. Dev.=0.0009395, n=5, 20% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8838, critical = 0.686. Kappa = 5.108 (c=12, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008776.

Constituent: Vanadium Analysis Run 9/4/2024 3:12 PM View: 2024SSN - GWD-2 IntraPL

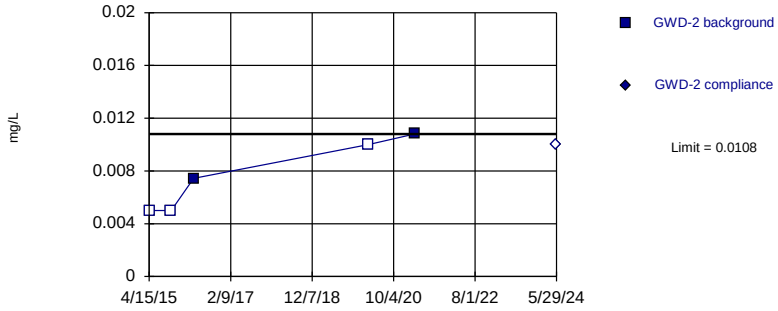
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 5 background values. 60% NDs. Well-constituent pair annual alpha = 0.09284. Individual comparison alpha = 0.04755 (1 of 2).

Constituent: Zinc Analysis Run 9/4/2024 3:12 PM View: 2024SSN - GWD-2 IntraPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Intrawell Prediction Limits Summary Table and Graphs – Closed MSWLF Unit

Prediction Limit

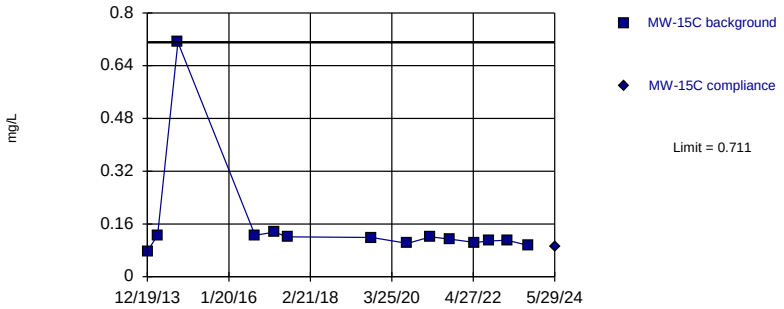
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master Printed 9/13/2024, 11:47 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	MW-15C	0.711	n/a	5/29/2024	0.0902	No	14	n/a	n/a	n/a	0	n/a	n/a	0.008612	NP Intra (normality) 1 of 2
Cadmium (mg/L)	MW-15C	0.01272	n/a	5/29/2024	0.0001ND	No	8	n/a	0.03102	0.02963	25	Kaplan-Meier	sqrt(x)	0.001504	Param Intra 1 of 2
Cobalt (mg/L)	MW-15C	0.002712	n/a	5/29/2024	0.000172J	No	17	n/a	-8.038	0.9943	11.76	None	ln(x)	0.001504	Param Intra 1 of 2
Nickel (mg/L)	MW-15C	0.01417	n/a	5/29/2024	0.00664	No	11	n/a	0.007845	0.002621	0	None	No	0.001504	Param Intra 1 of 2
Zinc (mg/L)	MW-15C	0.0426	n/a	5/29/2024	0.01ND	No	8	n/a	n/a	n/a	75	n/a	n/a	0.02144	NP Intra (NDs) 1 of 2

Within Limit

Prediction Limit

Intrawell 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 14 background values. Well-constituent pair annual alpha = 0.01715. Individual comparison alpha = 0.008612 (1 of 2).

Constituent: Barium Analysis Run 9/13/2024 11:46 AM View: 2024SSN MW-15C IntraPL

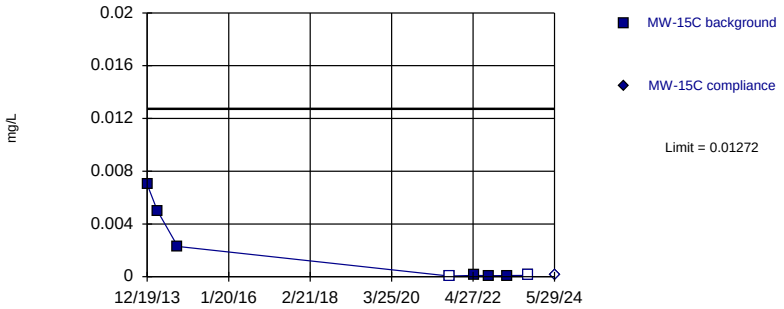
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.03102, Std. Dev.=0.02963, n=8, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.75, critical = 0.749. Kappa = 2.76 (c=5, w=7, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Cadmium Analysis Run 9/13/2024 11:46 AM View: 2024SSN MW-15C IntraPL

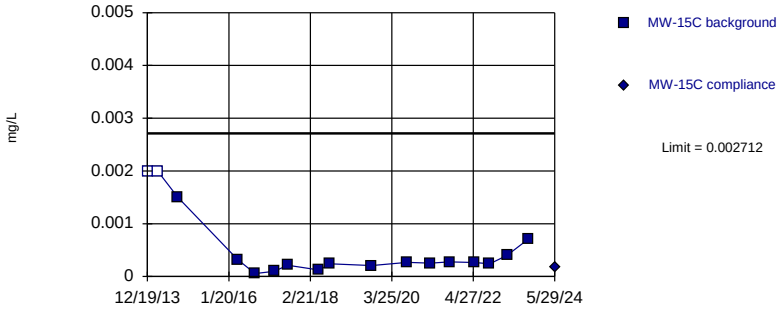
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=-8.038, Std. Dev.=0.9943, n=17, 11.76% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9059, critical = 0.851. Kappa = 2.14 (c=5, w=7, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

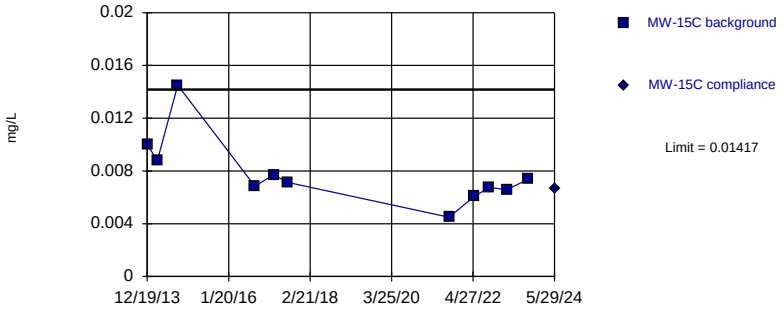
Constituent: Cobalt Analysis Run 9/13/2024 11:46 AM View: 2024SSN MW-15C IntraPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.007845, Std. Dev.=0.002621, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8358, critical = 0.792. Kappa = 2.413 (c=5, w=7, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Nickel Analysis Run 9/13/2024 11:46 AM View: 2024SSN MW-15C IntraPL

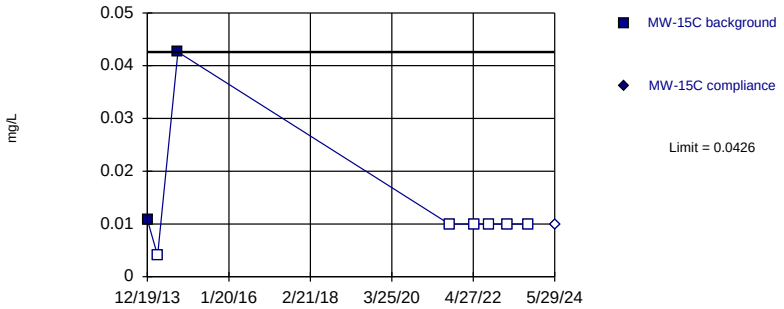
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 75% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2).

Constituent: Zinc Analysis Run 9/13/2024 11:46 AM View: 2024SSN MW-15C IntraPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Prediction Limit

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master Printed 9/13/2024, 12:30 PM

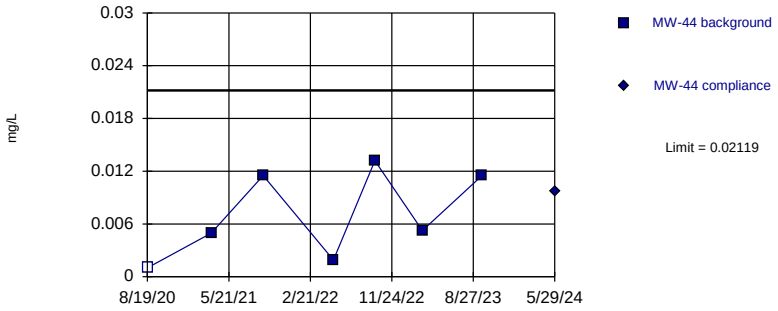
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	MW-44	0.02119	n/a	5/29/2024	0.00971	No	7	n/a	0.007041	0.004971	14.29	None	No	0.00188	Param Intra 1 of 2
Barium (mg/L)	MW-44	0.04824	n/a	5/29/2024	0.019	No	7	n/a	0.025	0.008163	0	None	No	0.00188	Param Intra 1 of 2
Cobalt (mg/L)	MW-44	0.005843	n/a	5/29/2024	0.000362J	No	7	n/a	0.001564	0.001503	0	None	No	0.00188	Param Intra 1 of 2
Nickel (mg/L)	MW-44	0.0025	n/a	5/29/2024	0.0025ND	No	5	n/a	n/a	n/a	80	n/a	n/a	0.04755	NP Intra (NDs) 1 of 2

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.007041, Std. Dev.=0.004971, n=7, 14.29% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8816, critical = 0.73. Kappa = 2.847 (c=4, w=7, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Arsenic Analysis Run 9/13/2024 12:28 PM View: 2024SSN MW-44 IntraPL

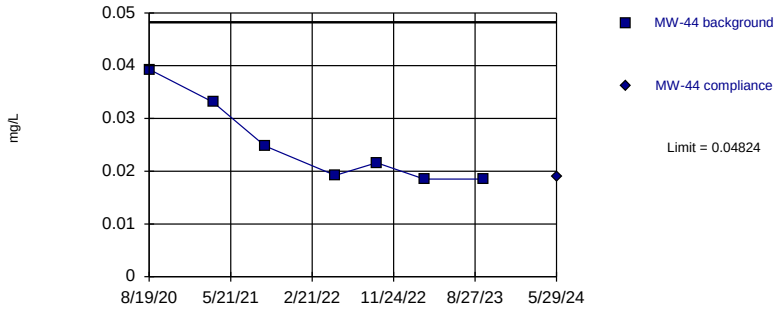
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.025, Std. Dev.=0.008163, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8261, critical = 0.73. Kappa = 2.847 (c=4, w=7, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Barium Analysis Run 9/13/2024 12:28 PM View: 2024SSN MW-44 IntraPL

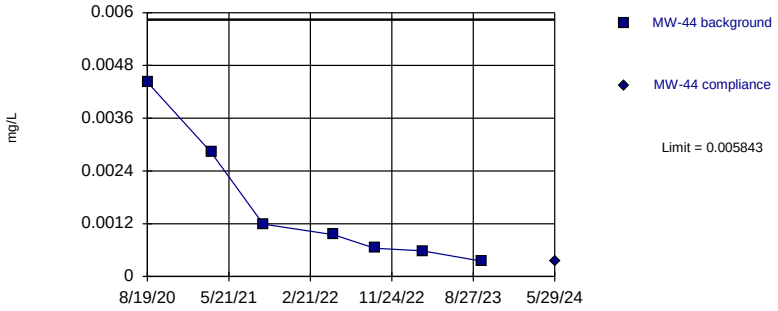
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.001564, Std. Dev.=0.001503, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8011, critical = 0.73. Kappa = 2.847 (c=4, w=7, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Cobalt Analysis Run 9/13/2024 12:28 PM View: 2024SSN MW-44 IntraPL

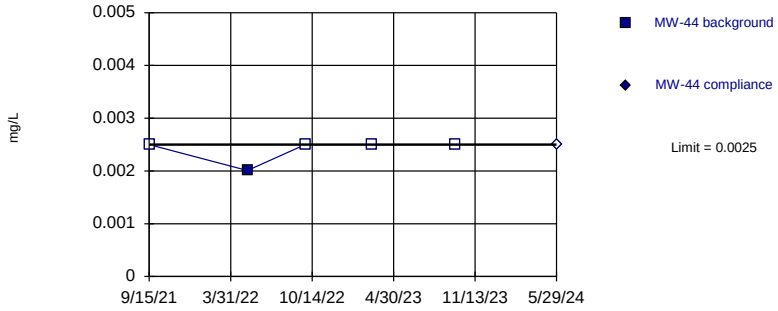
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 5 background values. 80% NDs. Well-constituent pair annual alpha = 0.09284. Individual comparison alpha = 0.04755 (1 of 2).

Constituent: Nickel Analysis Run 9/13/2024 12:28 PM View: 2024SSN MW-44 IntraPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Interwell Prediction Limits Summary Table and Graphs – Closed MSWLF Unit

Prediction Limit

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master Printed 9/12/2024, 3:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	MW-10R	0.0064	n/a	5/29/2024	0.00399	No	81	MW-4,MW-1,MW-11	n/a	n/a	91.36	n/a	n/a	0.0002922	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	**MW-12**	**0.0064**	**n/a**	**5/29/2024**	**0.0217**	**Yes**	**81**	**MW-4,MW-1,MW-11**	**n/a**	**n/a**	**91.36**	**n/a**	**n/a**	**0.0002922**	**NP Inter (NDs) 1 of 2**
Arsenic (mg/L)	MW-13R	0.0064	n/a	5/29/2024	0.0279J	No	81	MW-4,MW-1,MW-11	n/a	n/a	91.36	n/a	n/a	0.0002922	NP Inter (NDs) 1 of 2
Barium (mg/L)	**MW-10R**	**0.1017**	**n/a**	**5/29/2024**	**0.121**	**Yes**	**82**	**MW-1,MW-11,MW-4**	**-3.491**	**0.5856**	**17.07**	**Kaplan-Meier**	**ln(x)**	**0.0005374**	**Param Inter 1 of 2**
Barium (mg/L)	**MW-12**	**0.1017**	**n/a**	**5/29/2024**	**0.678**	**Yes**	**82**	**MW-1,MW-11,MW-4**	**-3.491**	**0.5856**	**17.07**	**Kaplan-Meier**	**ln(x)**	**0.0005374**	**Param Inter 1 of 2**
Barium (mg/L)	**MW-13R**	**0.1017**	**n/a**	**5/29/2024**	**0.378**	**Yes**	**82**	**MW-1,MW-11,MW-4**	**-3.491**	**0.5856**	**17.07**	**Kaplan-Meier**	**ln(x)**	**0.0005374**	**Param Inter 1 of 2**
Barium (mg/L)	MW-7	0.1017	n/a	5/29/2024	0.014	No	82	MW-1,MW-11,MW-4	-3.491	0.5856	17.07	Kaplan-Meier	ln(x)	0.0005374	Param Inter 1 of 2
Barium (mg/L)	MW-9R	0.1017	n/a	5/29/2024	0.0694	No	82	MW-1,MW-11,MW-4	-3.491	0.5856	17.07	Kaplan-Meier	ln(x)	0.0005374	Param Inter 1 of 2
Cobalt (mg/L)	MW-10R	0.0074	n/a	5/29/2024	0.00235	No	63	MW-4,MW-1,MW-11	n/a	n/a	57.14	n/a	n/a	0.0004803	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	**MW-12**	**0.0074**	**n/a**	**5/29/2024**	**0.00975**	**Yes**	**63**	**MW-4,MW-1,MW-11**	**n/a**	**n/a**	**57.14**	**n/a**	**n/a**	**0.0004803**	**NP Inter (NDs) 1 of 2**
Cobalt (mg/L)	MW-13R	0.0074	n/a	5/29/2024	0.00731	No	63	MW-4,MW-1,MW-11	n/a	n/a	57.14	n/a	n/a	0.0004803	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	**MW-9R**	**0.0074**	**n/a**	**5/29/2024**	**0.00741**	**Yes**	**63**	**MW-4,MW-1,MW-11**	**n/a**	**n/a**	**57.14**	**n/a**	**n/a**	**0.0004803**	**NP Inter (NDs) 1 of 2**
Lead (mg/L)	MW-10R	0.0222	n/a	5/29/2024	0.000892	No	82	MW-4,MW-11,MW-1	n/a	n/a	60.98	n/a	n/a	0.0002861	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-12	0.0222	n/a	5/29/2024	0.000573	No	82	MW-4,MW-11,MW-1	n/a	n/a	60.98	n/a	n/a	0.0002861	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-10R	0.02815	n/a	5/29/2024	0.00777	No	82	MW-1,MW-11,MW-4	-5.805	1.086	41.46	Kaplan-Meier	ln(x)	0.0005374	Param Inter 1 of 2
Nickel (mg/L)	MW-12	0.02815	n/a	5/29/2024	0.0157	No	82	MW-1,MW-11,MW-4	-5.805	1.086	41.46	Kaplan-Meier	ln(x)	0.0005374	Param Inter 1 of 2
Nickel (mg/L)	MW-13R	0.02815	n/a	5/29/2024	0.01435	No	82	MW-1,MW-11,MW-4	-5.805	1.086	41.46	Kaplan-Meier	ln(x)	0.0005374	Param Inter 1 of 2
Nickel (mg/L)	MW-9R	0.02815	n/a	5/29/2024	0.0252	No	82	MW-1,MW-11,MW-4	-5.805	1.086	41.46	Kaplan-Meier	ln(x)	0.0005374	Param Inter 1 of 2

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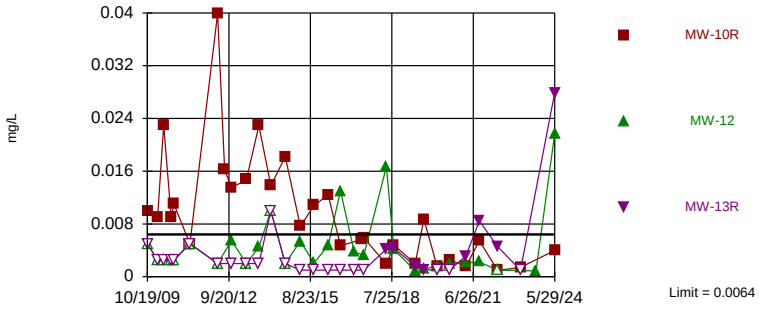
Hollow symbols indicate censored values.

Exceeds Limit: MW-12

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 81 background values. 91.36% NDs. Annual per-constituent alpha = 0.004083. Individual comparison alpha = 0.0002922 (1 of 2). Comparing 3 points to limit. Assumes 4 future values.

Constituent: Arsenic Analysis Run 9/12/2024 3:54 PM View: 2024SSN - AM InterPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

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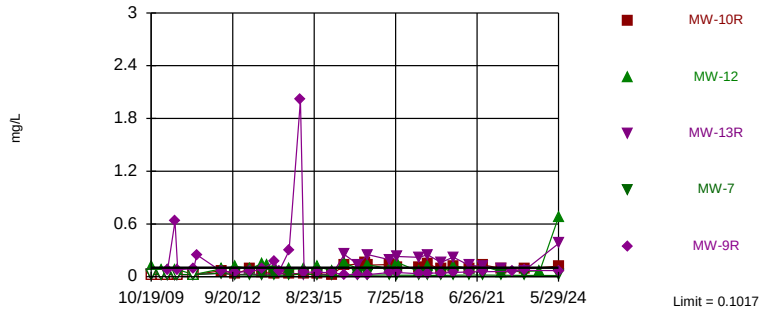
Hollow symbols indicate censored values.

Exceeds Limit: MW-10R, MW-12, MW-13R

Prediction Limit

Interwell Parametric



Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-3.491, Std. Dev.=0.5856, n=82, 17.07% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9662, critical = 0.959. Kappa = 2.059 (c=14, w=7, 1 of 2, event alpha = 0.05132). Report alpha = 0.003756. Individual comparison alpha = 0.0005374. Comparing 5 points to limit. Assumes 2 future values.

Constituent: Barium Analysis Run 9/12/2024 3:54 PM View: 2024SSN - AM InterPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

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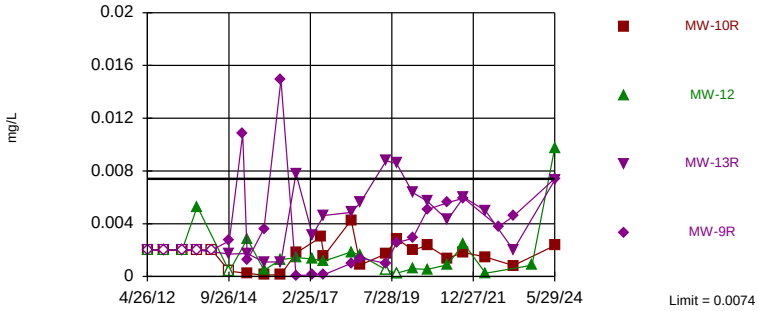
Hollow symbols indicate censored values.

Exceeds Limit: MW-12, MW-9R

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 63 background values. 57.14% NDs. Annual per-constituent alpha = 0.006703. Individual comparison alpha = 0.0004803 (1 of 2). Comparing 4 points to limit. Assumes 3 future values.

Constituent: Cobalt Analysis Run 9/12/2024 3:54 PM View: 2024SSN - AM InterPL

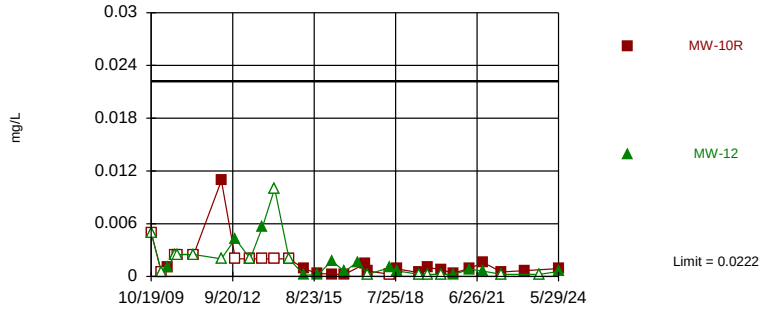
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 82 background values. 60.98% NDs. Annual per-constituent alpha = 0.003998. Individual comparison alpha = 0.0002861 (1 of 2). Comparing 2 points to limit. Assumes 5 future values.

Constituent: Lead Analysis Run 9/12/2024 3:54 PM View: 2024SSN - AM InterPL

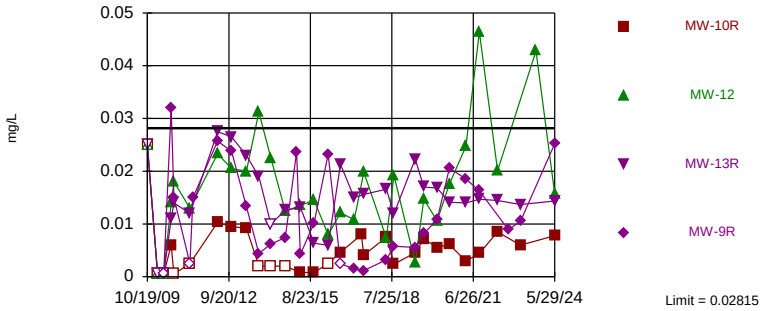
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Parametric



Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-5.805, Std. Dev.=1.086, n=82, 41.46% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9642, critical = 0.959. Kappa = 2.059 (c=14, w=7, 1 of 2, event alpha = 0.05132). Report alpha = 0.003756. Individual comparison alpha = 0.0005374. Comparing 4 points to limit. Assumes 3 future values.

Constituent: Nickel Analysis Run 9/12/2024 3:54 PM View: 2024SSN - AM InterPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sen's Slope/Mann-Kendall Summary Table and Graphs –
Closed MSWLF Unit

Trend Test

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN Printed 9/13/2024, 3:42 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
1,1-Dichloroethane (ug/L)	MW-13R	0.01602	3	21	No	8	37.5	0.01	NP
Acrylonitrile (ug/L)	MW-9R	-1.315	-19	-21	No	8	87.5	0.01	NP
Arsenic (mg/L)	MW-10R	-0.0003711	-8	-21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-12	0.0003609	6	21	No	8	12.5	0.01	NP
Arsenic (mg/L)	MW-13R	0.001858	11	21	No	8	37.5	0.01	NP
Arsenic (mg/L)	MW-44	0.001984	11	21	No	8	12.5	0.01	NP
Barium (mg/L)	MW-7	-0.00002897	-2	-21	No	8	0	0.01	NP
Barium (mg/L)	**MW-9R**	**0.007121**	**26**	**21**	**Yes**	**8**	**0**	**0.01**	**NP**
Barium (mg/L)	MW-10R	-0.004455	-6	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-12	0.0008239	2	21	No	8	0	0.01	NP
Barium (mg/L)	MW-13R	-0.03342	-12	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-15C	-0.0067	-12	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-44	-0.004899	-21	-21	No	8	0	0.01	NP
Cadmium (mg/L)	MW-9R	-0.00002748	-15	-21	No	8	37.5	0.01	NP
Cadmium (mg/L)	MW-12	0.000008663	7	21	No	8	50	0.01	NP
Cadmium (mg/L)	MW-15C	-0.00005198	-7	-21	No	8	37.5	0.01	NP
Carbon Disulfide (ug/L)	MW-9R	-0.1678	-12	-21	No	8	12.5	0.01	NP
Chlorobenzene (ug/L)	MW-13R	-0.5744	-18	-21	No	8	12.5	0.01	NP
Chlorobenzene (ug/L)	MW-15C	0	-5	-21	No	8	87.5	0.01	NP
Chloroethane (ug/L)	MW-15C	0	13	21	No	8	87.5	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-7	-0.0946	-10	-21	No	8	0	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-10R	-0.2283	-16	-21	No	8	12.5	0.01	NP
Cobalt (mg/L)	MW-7	0.00004231	11	21	No	8	25	0.01	NP
Cobalt (mg/L)	MW-9R	0.0006987	16	21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-10R	-0.0004451	-11	-21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-12	0.0004315	12	21	No	8	12.5	0.01	NP
Cobalt (mg/L)	MW-13R	-0.001222	-10	-21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-15C	0.000002855	0	21	No	8	0	0.01	NP
Cobalt (mg/L)	**MW-44**	**-0.0006498**	**-26**	**-21**	**Yes**	**8**	**0**	**0.01**	**NP**
Copper (mg/L)	MW-7	0	5	21	No	8	87.5	0.01	NP
Copper (mg/L)	MW-10R	0	5	21	No	8	87.5	0.01	NP
Copper (mg/L)	MW-13R	0	7	21	No	8	87.5	0.01	NP
Lead (mg/L)	MW-10R	-0.00002	-2	-21	No	8	0	0.01	NP
Lead (mg/L)	MW-12	0	4	21	No	8	50	0.01	NP
Nickel (mg/L)	MW-9R	0.00166	6	21	No	8	0	0.01	NP
Nickel (mg/L)	MW-10R	0.0002952	4	21	No	8	0	0.01	NP
Nickel (mg/L)	MW-12	0.003772	10	21	No	8	0	0.01	NP
Nickel (mg/L)	MW-13R	-0.0004919	-14	-21	No	8	0	0.01	NP
Nickel (mg/L)	MW-15C	-0.00005902	-2	-21	No	8	0	0.01	NP
Selenium (mg/L)	MW-12	0.0007979	16	21	No	8	62.5	0.01	NP
Styrene (ug/L)	MW-9R	0	-7	-21	No	8	87.5	0.01	NP
Trichloroethene (ug/L)	**MW-7**	**-0.1407**	**-22**	**-21**	**Yes**	**8**	**0**	**0.01**	**NP**
Zinc (mg/L)	MW-15C	0	1	21	No	8	87.5	0.01	NP

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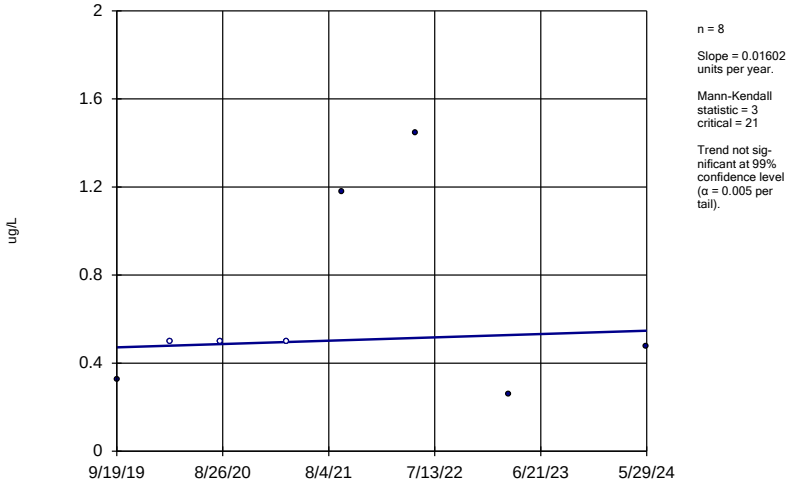
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-13R



Constituent: 1,1-Dichloroethane Analysis Run 9/13/2024 3:38 PM View: 2024SSN Mann Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

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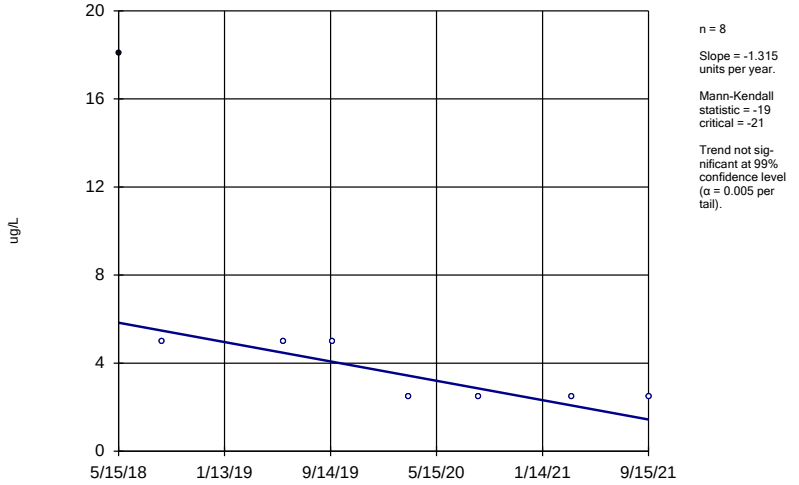
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-9R



Constituent: Acrylonitrile Analysis Run 9/13/2024 3:38 PM View: 2024SSN Mann Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

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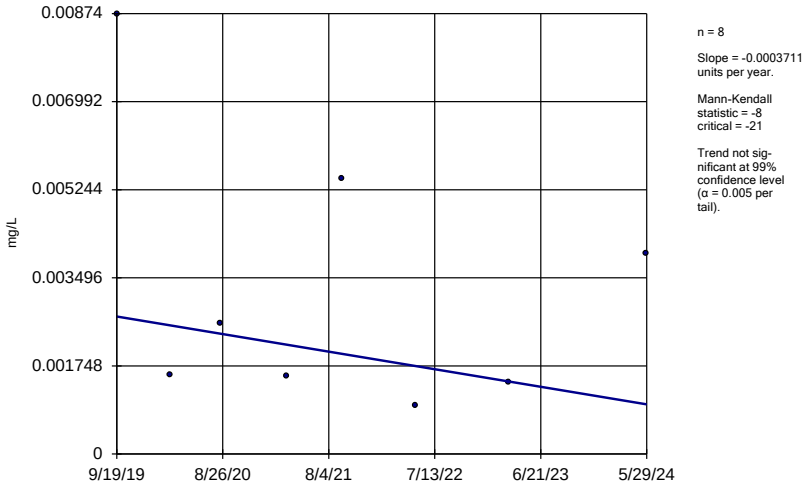
Sen's Slope Estimator

MW-10R



Constituent: Arsenic Analysis Run 9/13/2024 3:38 PM View: 2024SSN Mann Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

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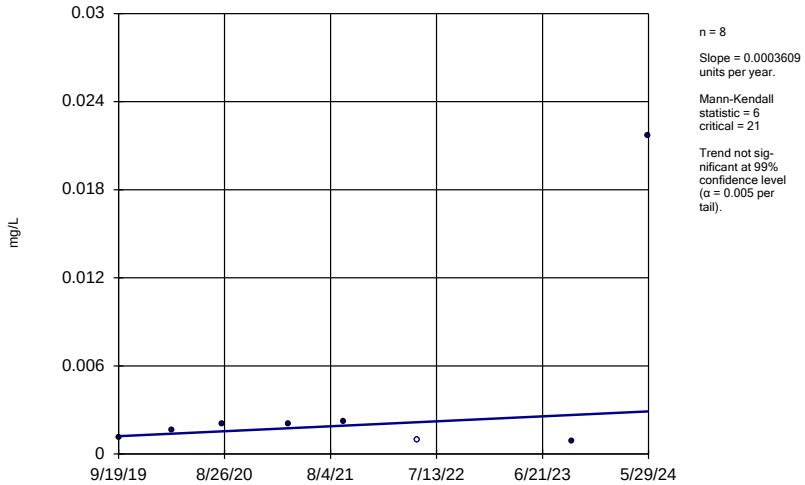
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-12



Constituent: Arsenic Analysis Run 9/13/2024 3:38 PM View: 2024SSN Mann Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

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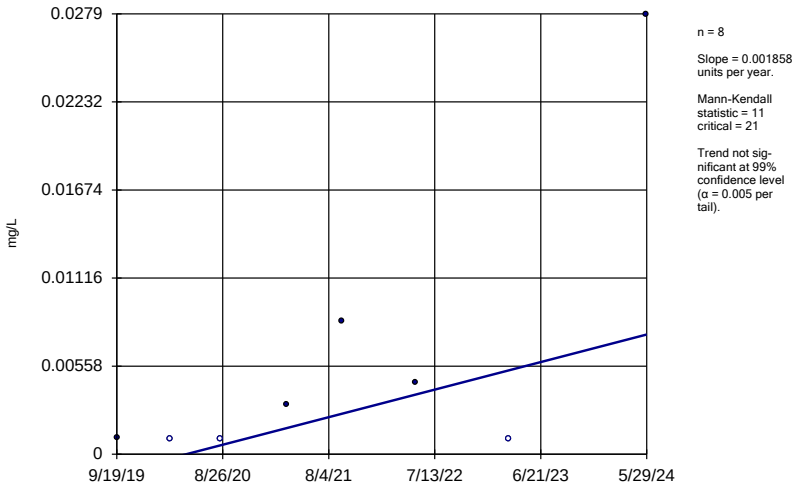
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-13R



n = 8

Slope = 0.001858 units per year.

Mann-Kendall statistic = 11
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

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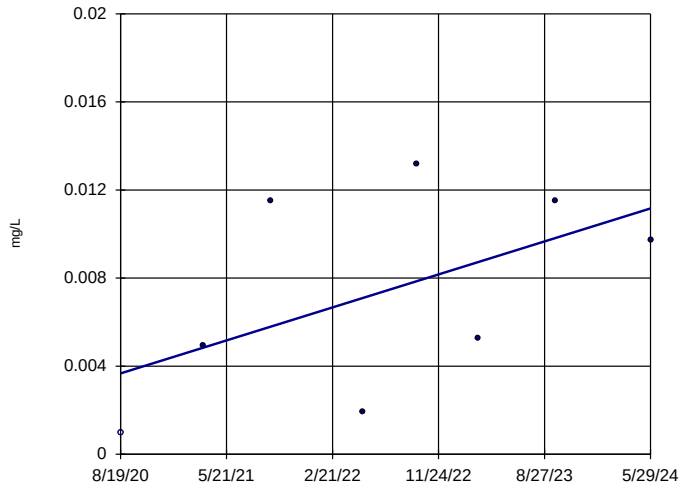
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-44



n = 8

Slope = 0.001984 units per year.

Mann-Kendall statistic = 11
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

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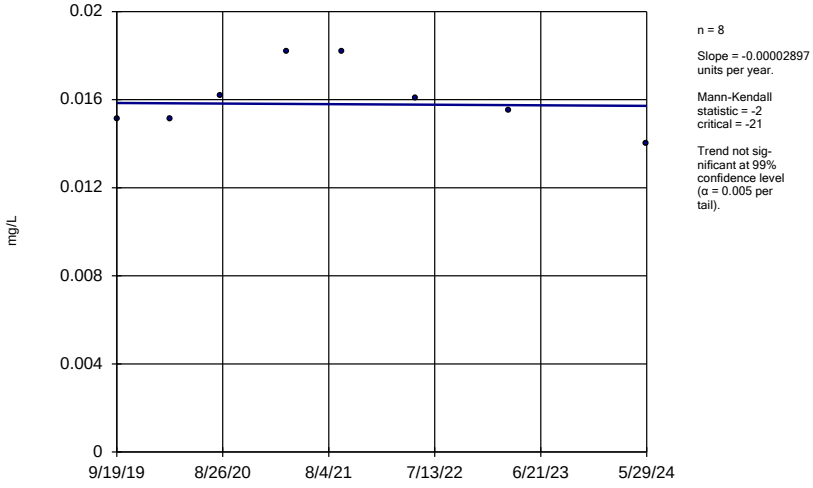
Sen's Slope Estimator

MW-7



n = 8

Slope = -0.00002897 units per year.

Mann-Kendall statistic = -2
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

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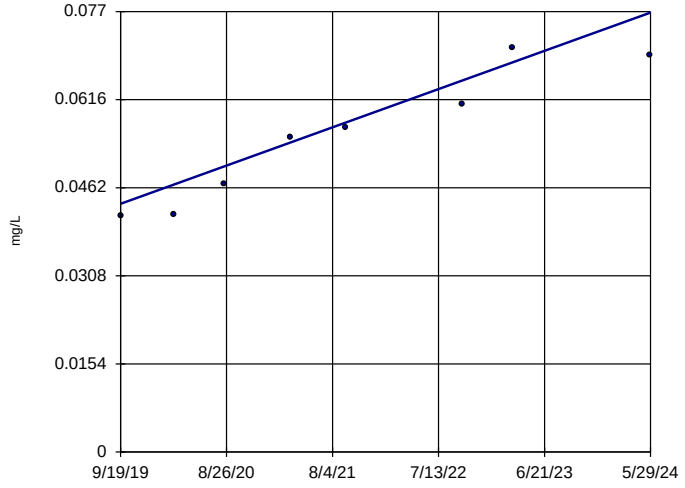
Sen's Slope Estimator

MW-9R



n = 8

Slope = 0.007121 units per year.

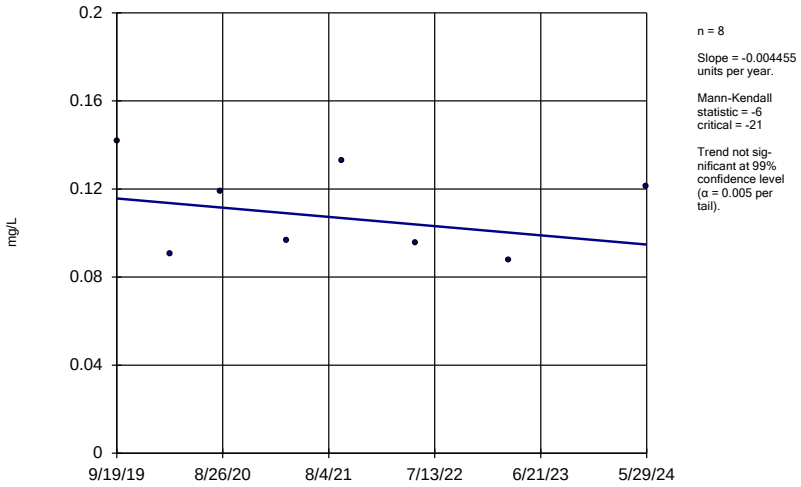
Mann-Kendall statistic = 26
critical = 21

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Sen's Slope Estimator

MW-10R



Constituent: Barium Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

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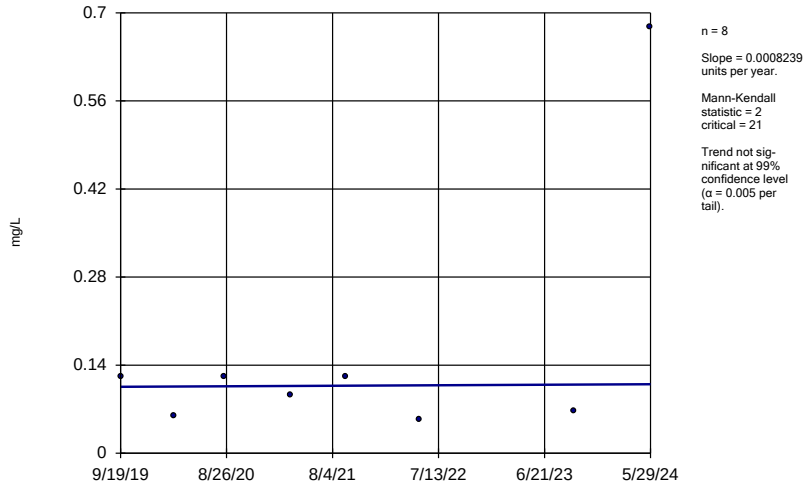
Sen's Slope Estimator

MW-12



Constituent: Barium Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

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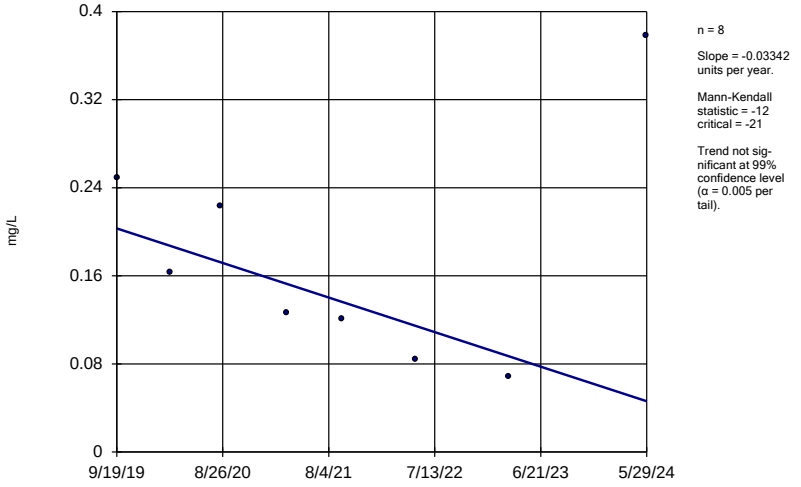
Sen's Slope Estimator

MW-13R

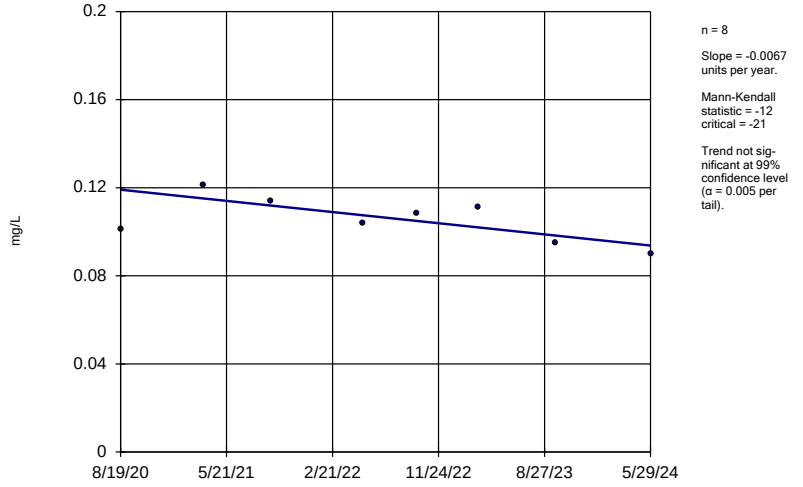


Constituent: Barium Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-15C



Constituent: Barium Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

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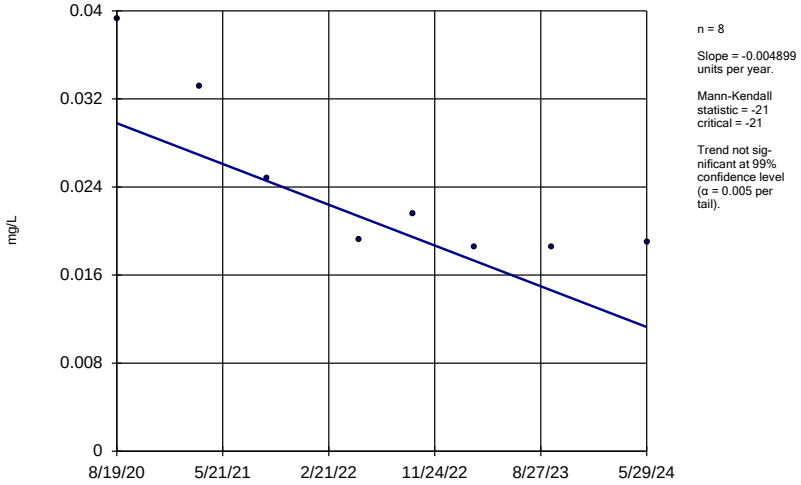
Sen's Slope Estimator

MW-44



Constituent: Barium Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

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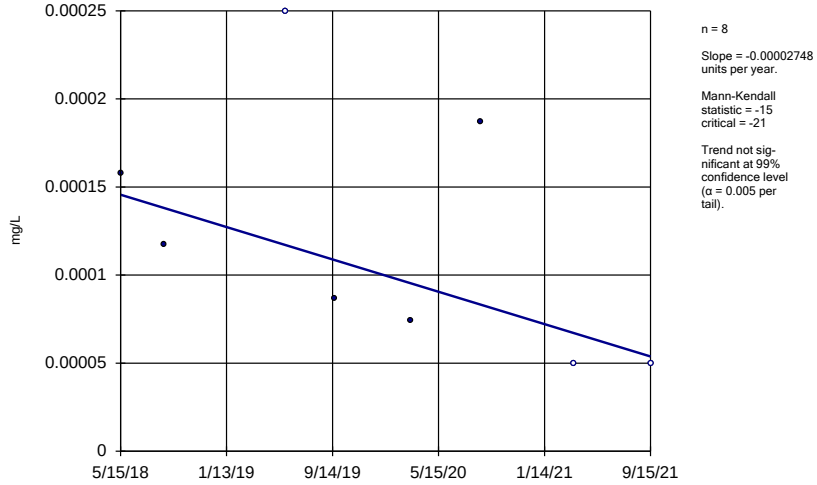
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-9R



Constituent: Cadmium Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

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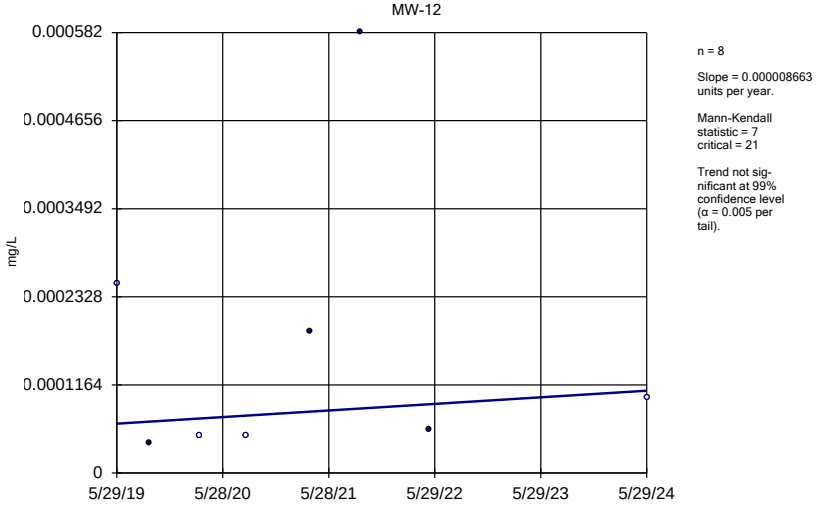
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-12



Constituent: Cadmium Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

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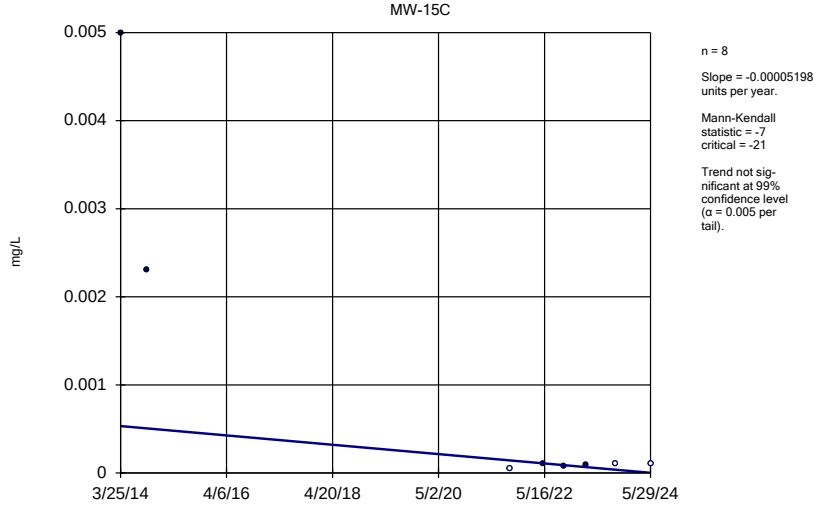
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-15C



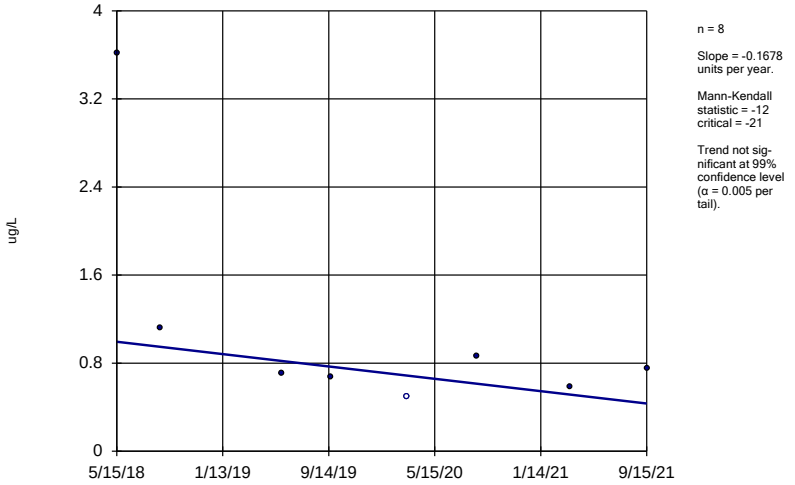
Constituent: Cadmium Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-9R

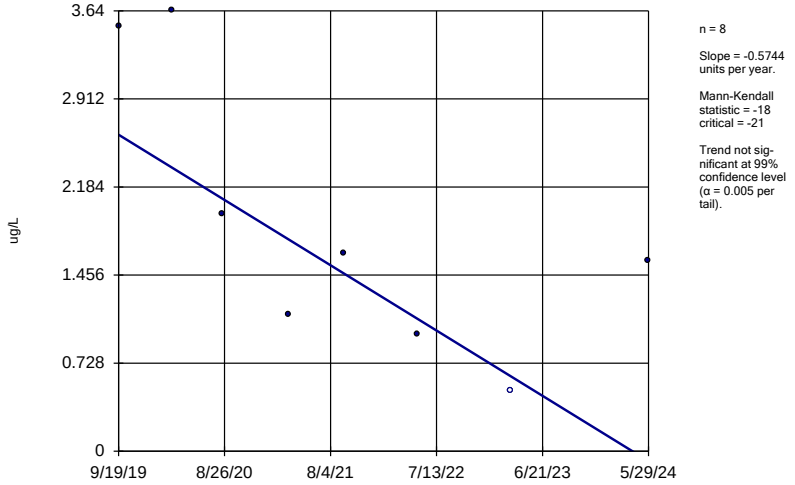


Constituent: Carbon Disulfide Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-13R

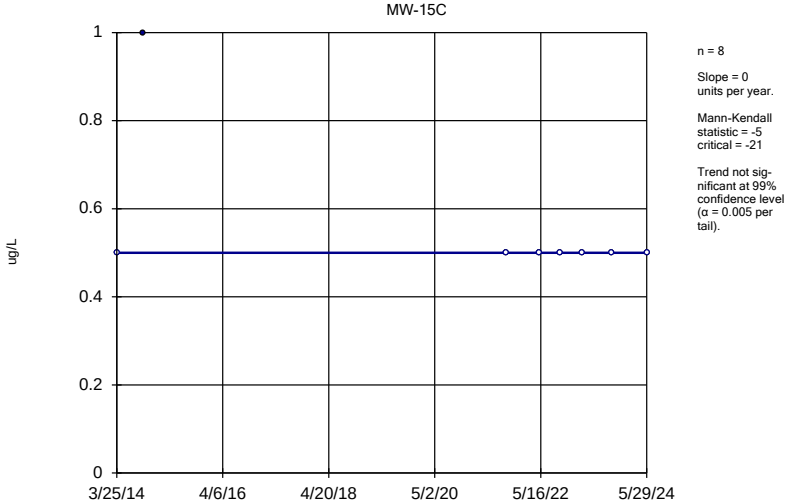


Constituent: Chlorobenzene Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-15C

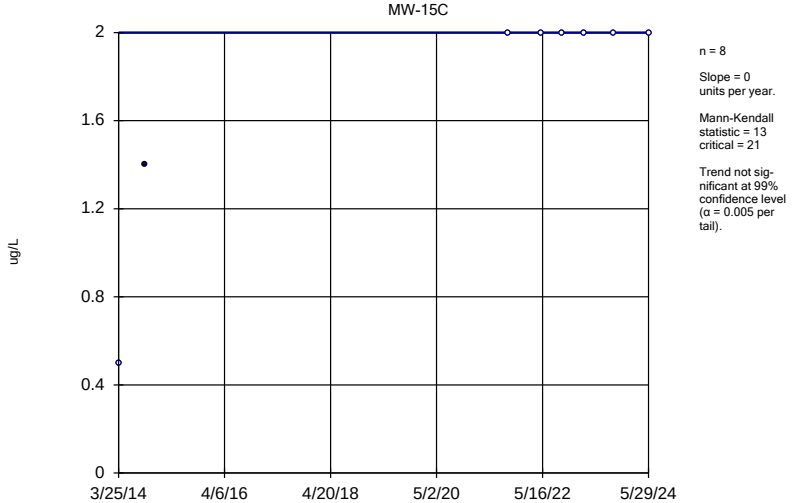


Constituent: Chlorobenzene Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-15C



Constituent: Chloroethane Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

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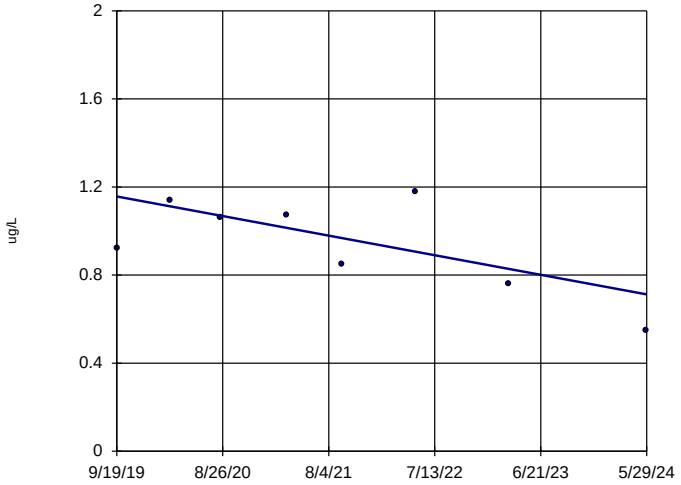
Sen's Slope Estimator

MW-7



n = 8

Slope = -0.0946 units per year.

Mann-Kendall statistic = -10 critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: cis-1,2-Dichloroethene Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

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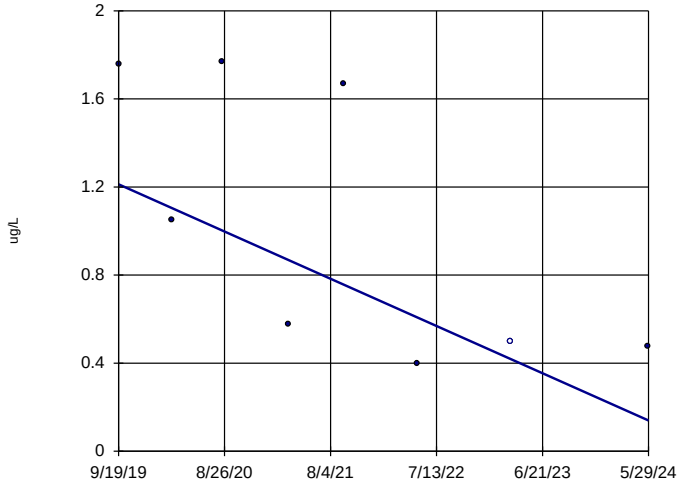
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-10R



n = 8

Slope = -0.2283 units per year.

Mann-Kendall statistic = -16 critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: cis-1,2-Dichloroethene Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall

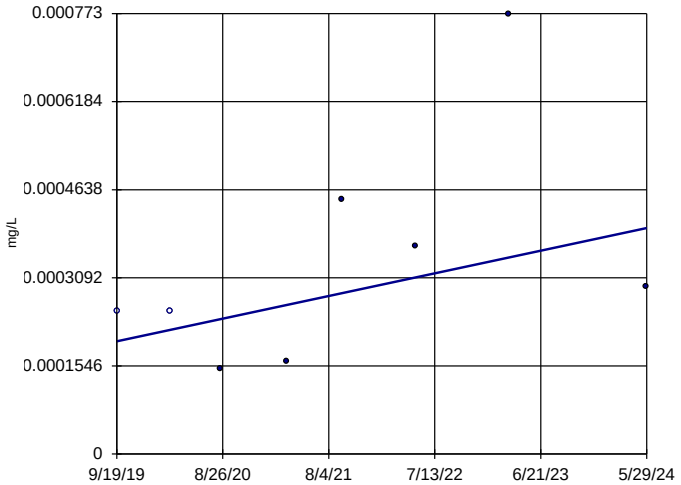
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-7



n = 8

Slope = 0.00004231 units per year.

Mann-Kendall statistic = 11 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

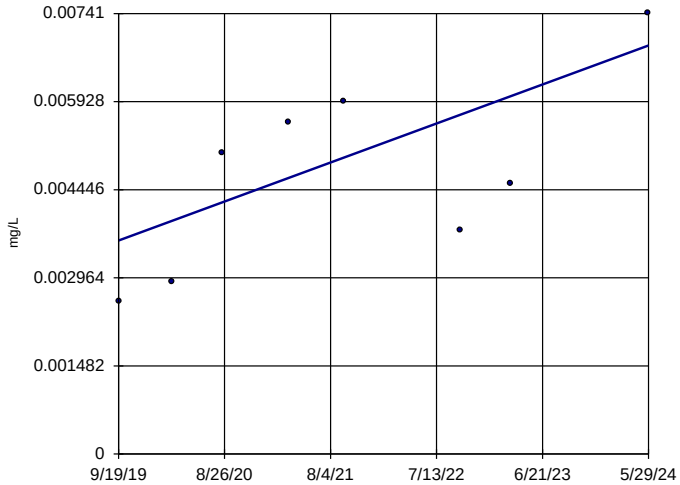
Constituent: Cobalt Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-9R



n = 8

Slope = 0.0006987 units per year.

Mann-Kendall statistic = 16 critical = 21

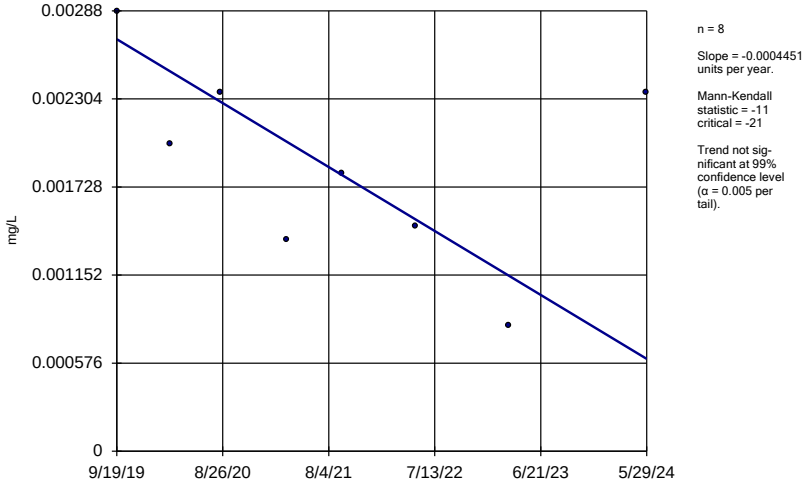
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Sen's Slope Estimator

MW-10R



n = 8

Slope = -0.0004451 units per year.

Mann-Kendall statistic = -11
critical = -21

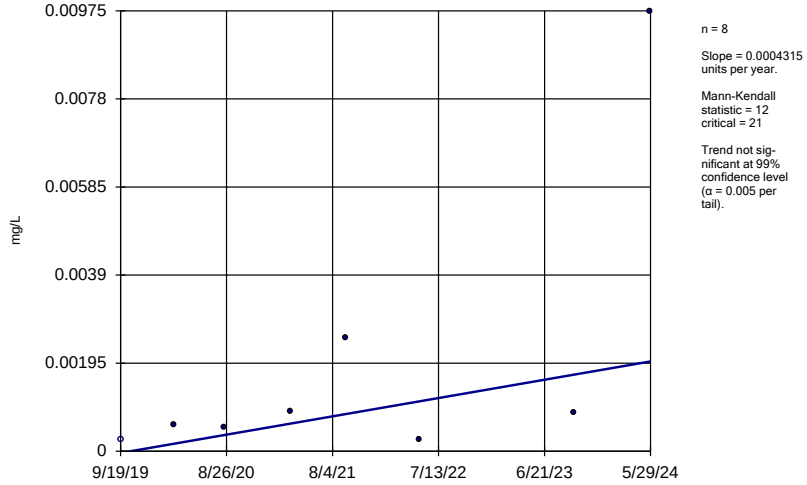
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-12



n = 8

Slope = 0.0004315 units per year.

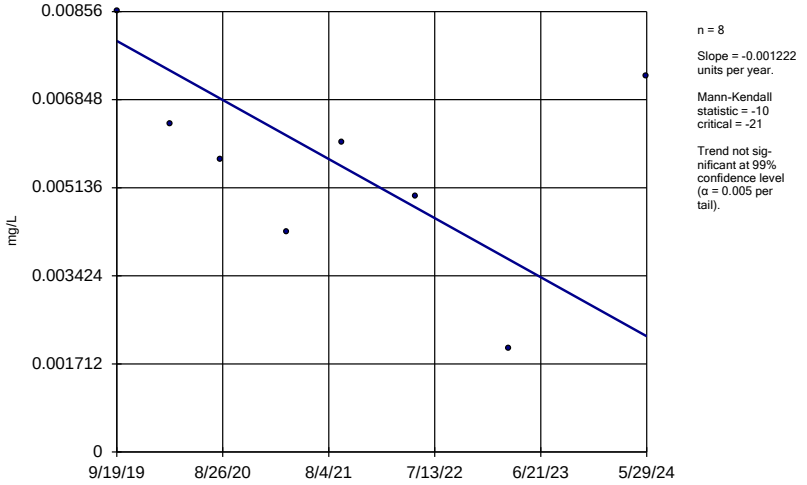
Mann-Kendall statistic = 12
critical = 21

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Sen's Slope Estimator

MW-13R



n = 8

Slope = -0.001222 units per year.

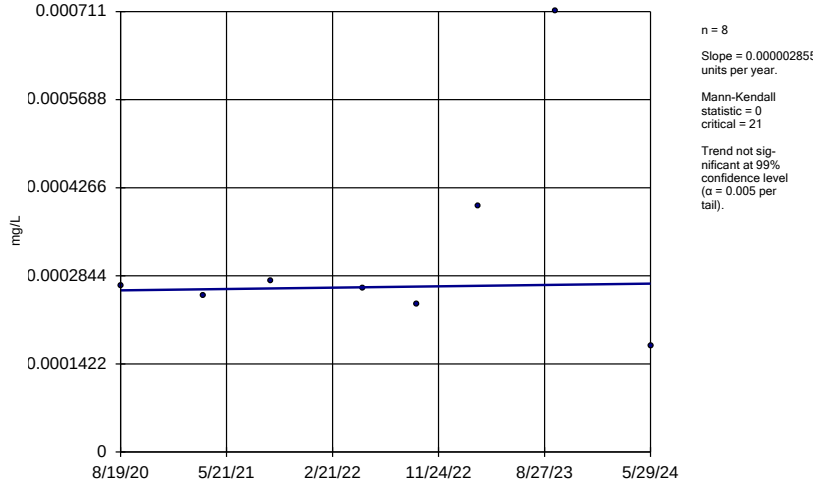
Mann-Kendall statistic = -10
critical = -21

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Sen's Slope Estimator

MW-15C



n = 8

Slope = 0.000002855 units per year.

Mann-Kendall statistic = 0
critical = 21

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

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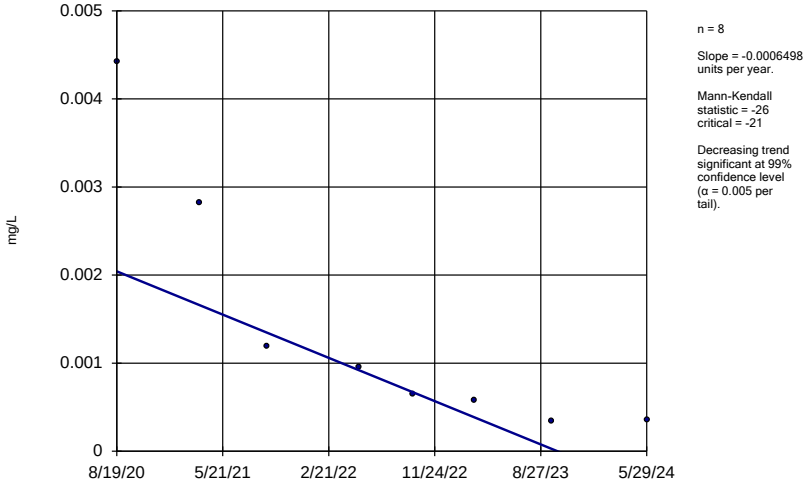
Sen's Slope Estimator

MW-44



n = 8

Slope = -0.0006498 units per year.

Mann-Kendall statistic = -26
critical = -21

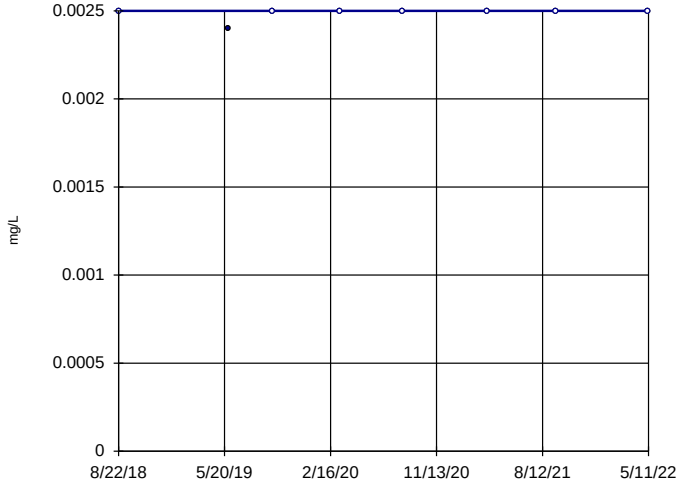
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-7



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 5
critical = 21

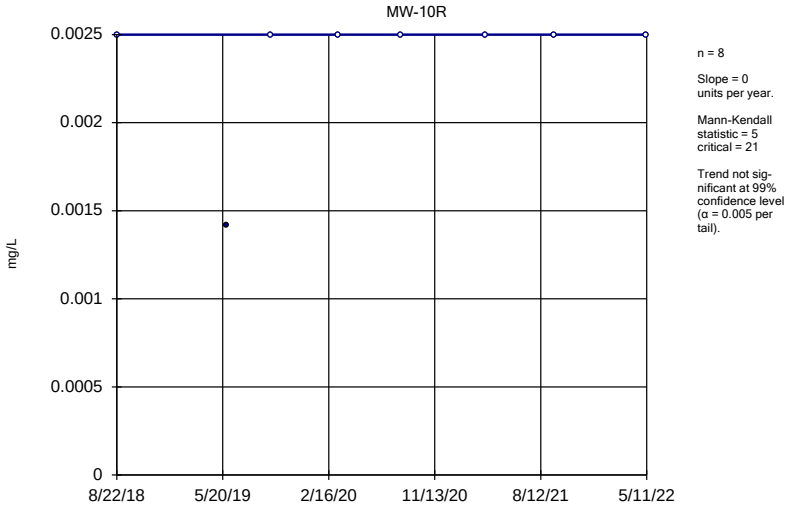
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Copper Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-10R



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 5
critical = 21

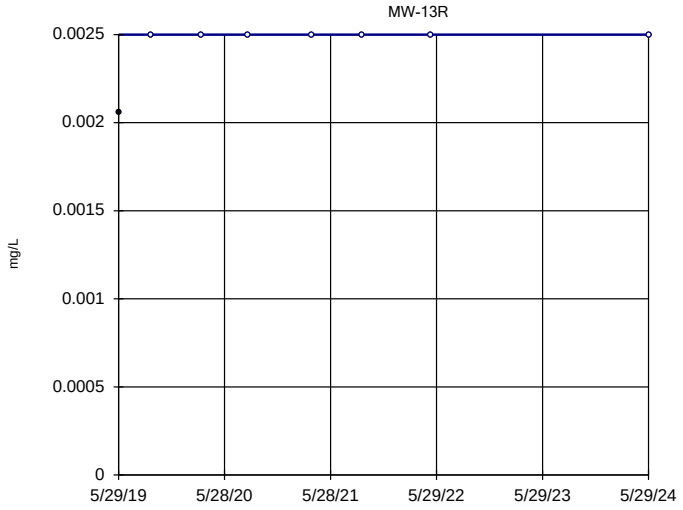
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Copper Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-13R



n = 8

Slope = 0 units per year.

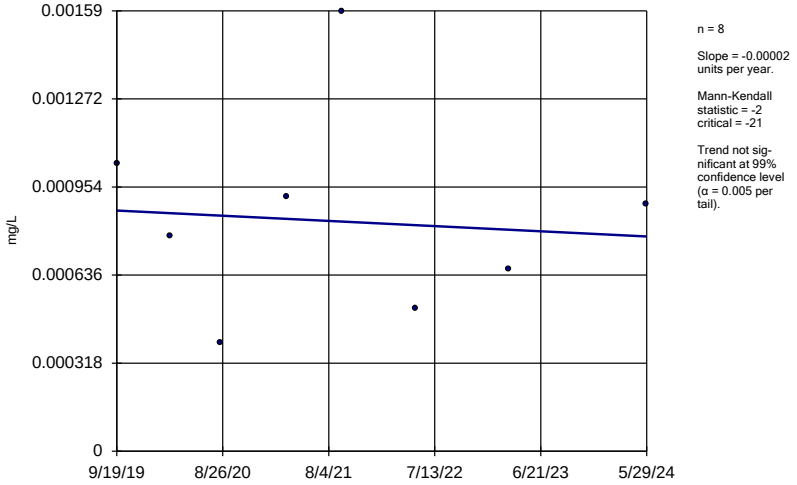
Mann-Kendall statistic = 7
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Copper Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Sen's Slope Estimator

MW-10R



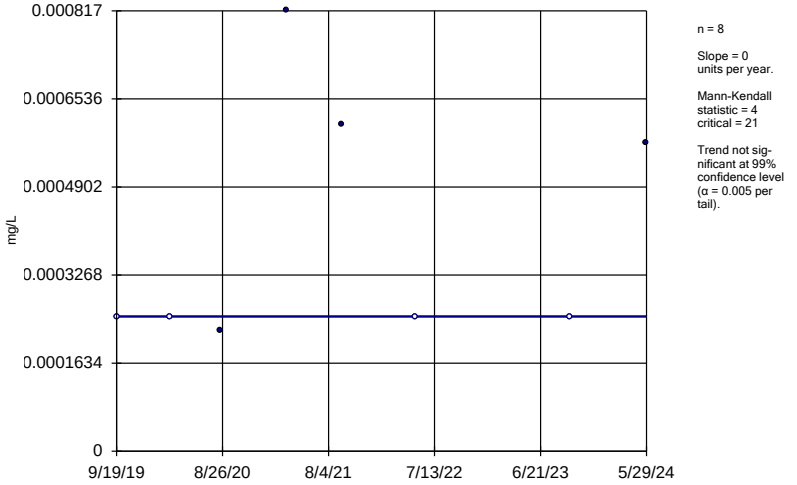
Constituent: Lead Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-12

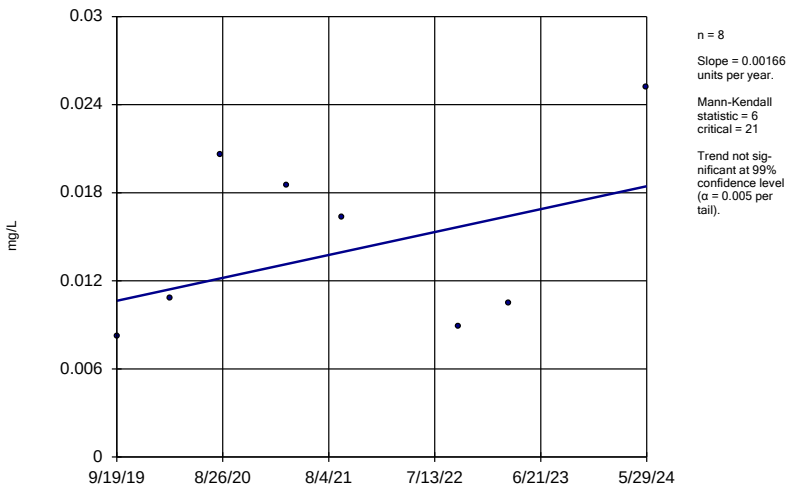


Constituent: Lead Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Sen's Slope Estimator

MW-9R

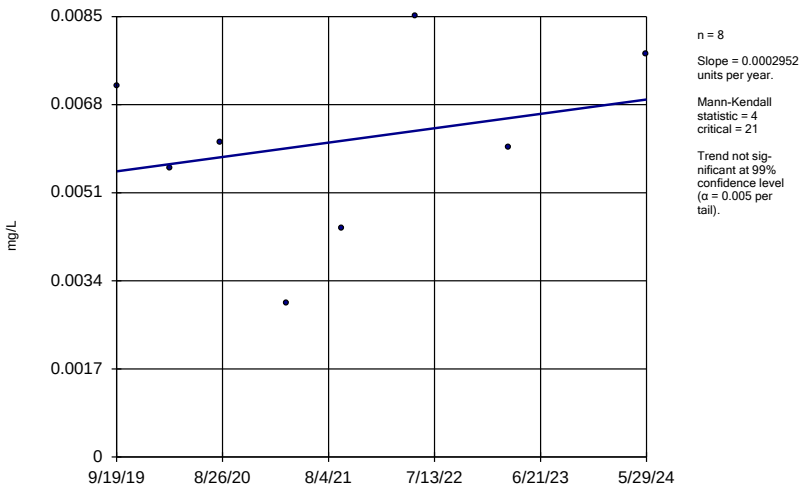


Constituent: Nickel Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Sen's Slope Estimator

MW-10R

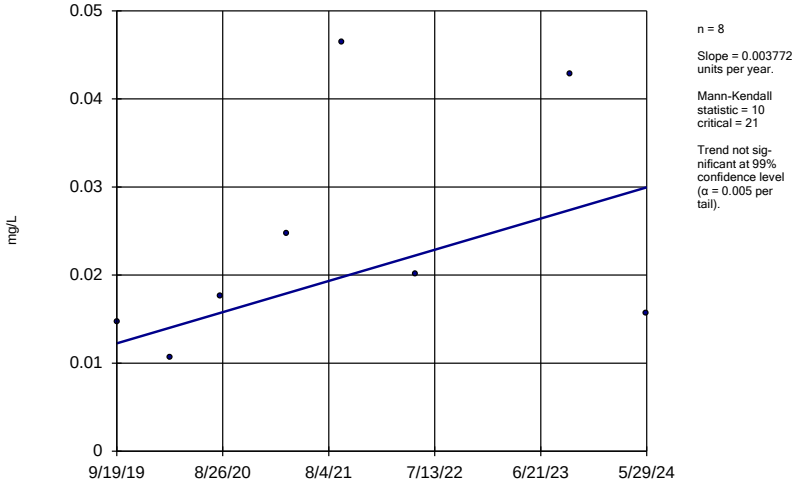


Constituent: Nickel Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Sen's Slope Estimator

MW-12



n = 8

Slope = 0.003772 units per year.

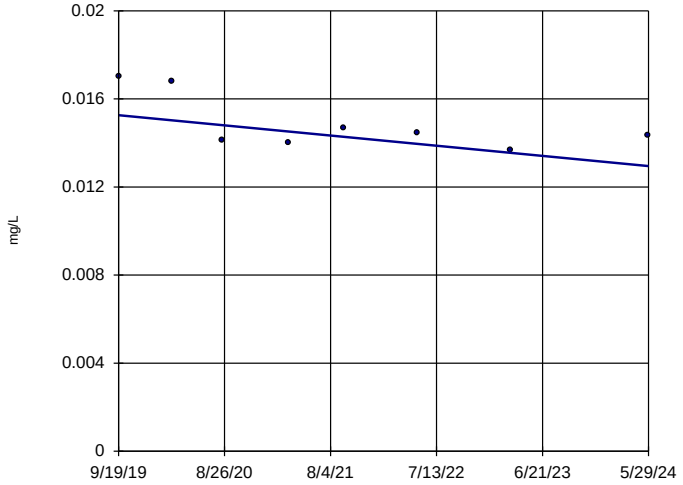
Mann-Kendall statistic = 10
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Sen's Slope Estimator

MW-13R



n = 8

Slope = -0.0004919 units per year.

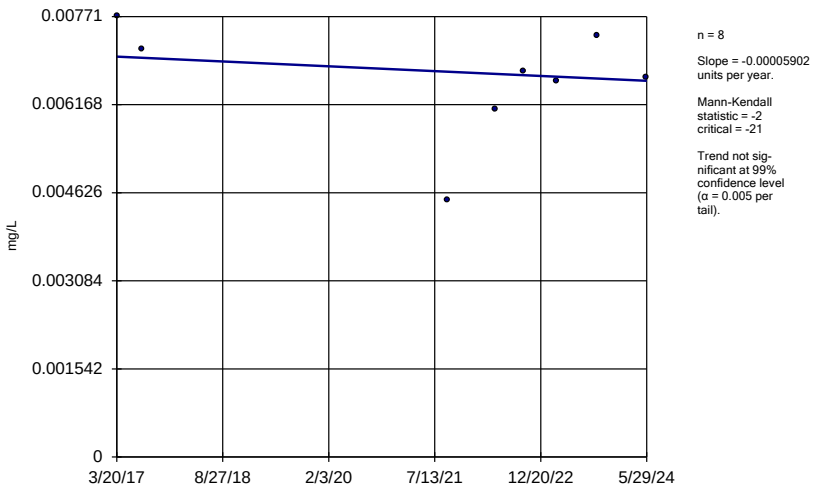
Mann-Kendall statistic = -14
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Sen's Slope Estimator

MW-15C



n = 8

Slope = -0.00005902 units per year.

Mann-Kendall statistic = -2
critical = -21

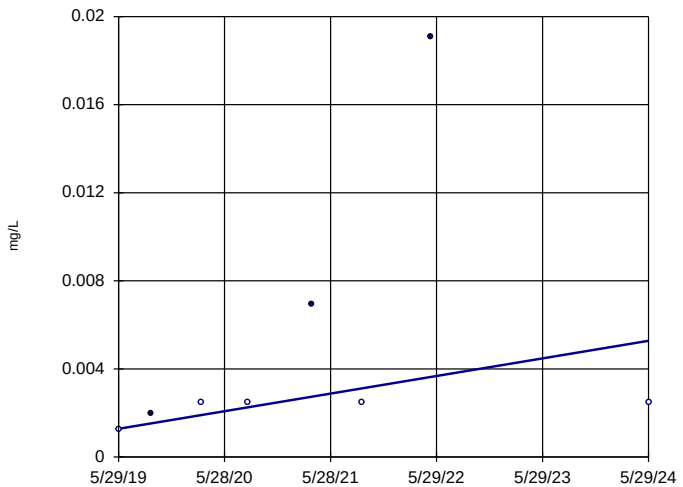
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-12



n = 8

Slope = 0.0007979 units per year.

Mann-Kendall statistic = 16
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

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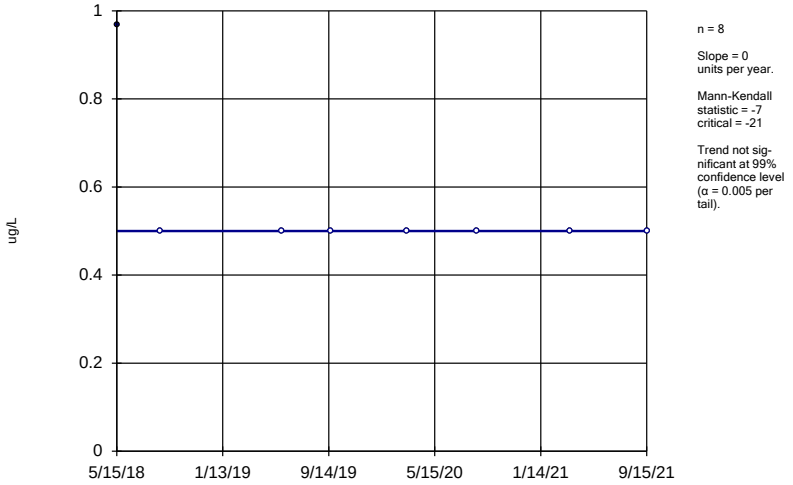
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-9R

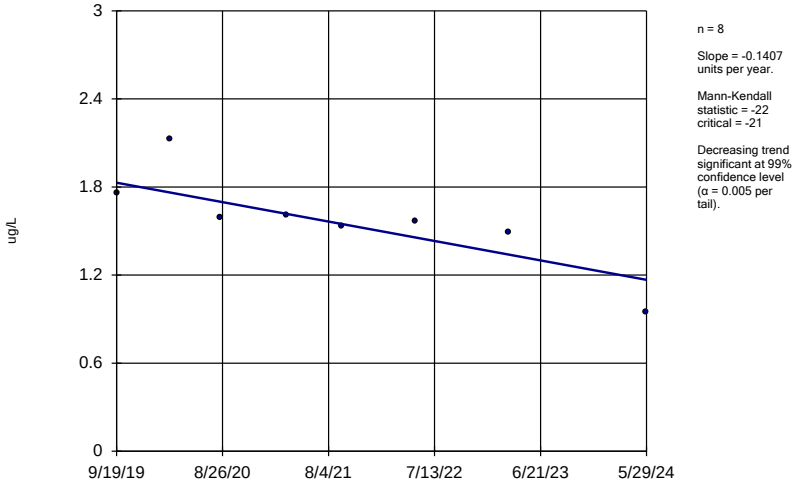


Constituent: Styrene Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-7

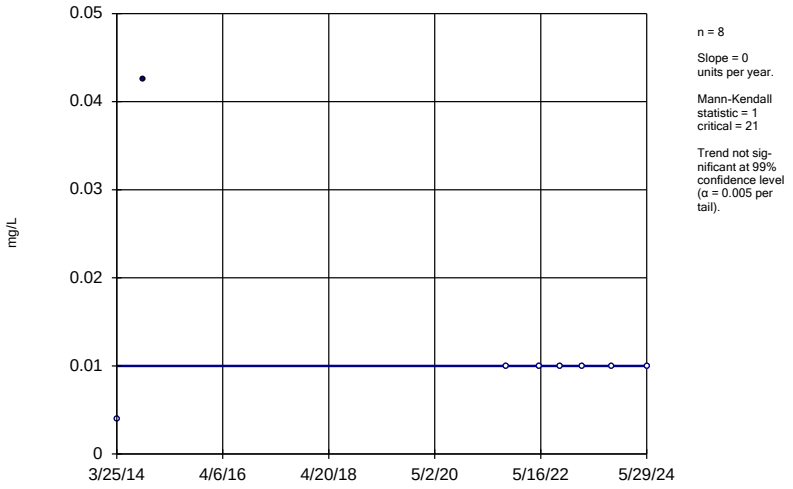


Constituent: Trichloroethene Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-15C



Constituent: Zinc Analysis Run 9/13/2024 3:39 PM View: 2024SSN Mann Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Confidence Interval Summary Table and Graphs – Closed MSWLF Unit

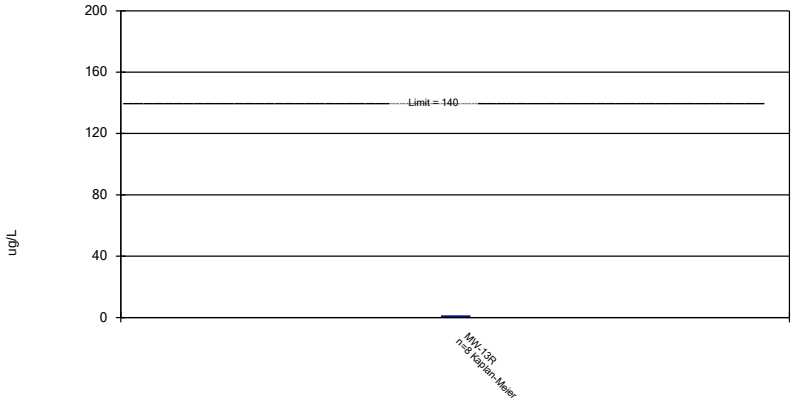
Confidence Interval

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN Printed 9/13/2024, 4:20 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
1,1-Dichloroethane (ug/L)	MW-13R	1.047	0.1418	140	No	8	37.5	No	0.01	Param.
Acrylonitrile (ug/L)	MW-9R	18.1	2.5	10	No	8	87.5	No	0.004	NP (NDs)
Arsenic (mg/L)	MW-10R	0.006129	0.0004393	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	MW-12	0.0217	0.0008915	0.01	No	8	12.5	No	0.004	NP (normality)
Arsenic (mg/L)	MW-13R	0.0279	0.001	0.01	No	8	37.5	No	0.004	NP (normality)
Barium (mg/L)	MW-7	0.01763	0.01447	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-10R	0.1327	0.0887	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-12	0.678	0.0545	2	No	8	0	No	0.004	NP (normality)
Barium (mg/L)	MW-13R	0.2856	0.06761	2	No	8	0	No	0.01	Param.
Cadmium (mg/L)	MW-9R	0.0001556	0.0000683	0.0494	No	8	37.5	No	0.01	Param.
Cadmium (mg/L)	MW-12	0.000582	0.00004	0.0494	No	8	50	No	0.004	NP (normality)
Carbon Disulfide (ug/L)	MW-9R	3.615	0.5	700	No	8	12.5	No	0.004	NP (normality)
Chlorobenzene (ug/L)	MW-13R	3.081	0.6498	100	No	8	12.5	No	0.01	Param.
cis-1,2-Dichloroethene (ug/L)	MW-7	1.169	0.7147	70	No	8	0	No	0.01	Param.
cis-1,2-Dichloroethene (ug/L)	MW-10R	1.681	0.3689	70	No	8	12.5	No	0.01	Param.
Cobalt (mg/L)	MW-7	0.0005505	0.0001387	0.0074	No	8	25	No	0.01	Param.
Cobalt (mg/L)	MW-9R	0.006447	0.002998	0.0074	No	8	0	No	0.01	Param.
Cobalt (mg/L)	MW-10R	0.002579	0.001192	0.0074	No	8	0	No	0.01	Param.
Cobalt (mg/L)	MW-12	0.00975	0.000247	0.0074	No	8	12.5	No	0.004	NP (normality)
Cobalt (mg/L)	MW-13R	0.00775	0.003555	0.0074	No	8	0	No	0.01	Param.
Copper (mg/L)	MW-7	0.0025	0.0024	1.3	No	8	87.5	No	0.004	NP (NDs)
Copper (mg/L)	MW-10R	0.0025	0.001417	1.3	No	8	87.5	No	0.004	NP (NDs)
Copper (mg/L)	MW-13R	0.0025	0.00206	1.3	No	8	87.5	No	0.004	NP (NDs)
Lead (mg/L)	MW-10R	0.001239	0.0004569	0.0222	No	8	0	No	0.01	Param.
Lead (mg/L)	MW-12	0.000627	0.0001524	0.0222	No	8	50	No	0.01	Param.
Nickel (mg/L)	MW-9R	0.02146	0.008296	0.1	No	8	0	No	0.01	Param.
Nickel (mg/L)	MW-10R	0.00796	0.004153	0.1	No	8	0	No	0.01	Param.
Nickel (mg/L)	MW-12	0.03822	0.009929	0.1	No	8	0	No	0.01	Param.
Nickel (mg/L)	MW-13R	0.01624	0.01353	0.1	No	8	0	No	0.01	Param.
Selenium (mg/L)	MW-12	0.0191	0.00125	0.05	No	8	62.5	No	0.004	NP (NDs)
Styrene (ug/L)	MW-9R	0.969	0.5	100	No	8	87.5	No	0.004	NP (NDs)

Parametric Confidence Interval

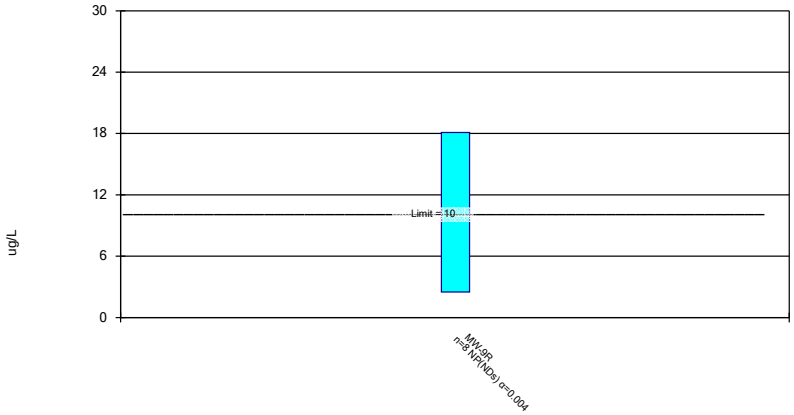
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: 1,1-Dichloroethane Analysis Run 9/13/2024 4:13 PM View: 2024SSN Confidence Interval
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Non-Parametric Confidence Interval

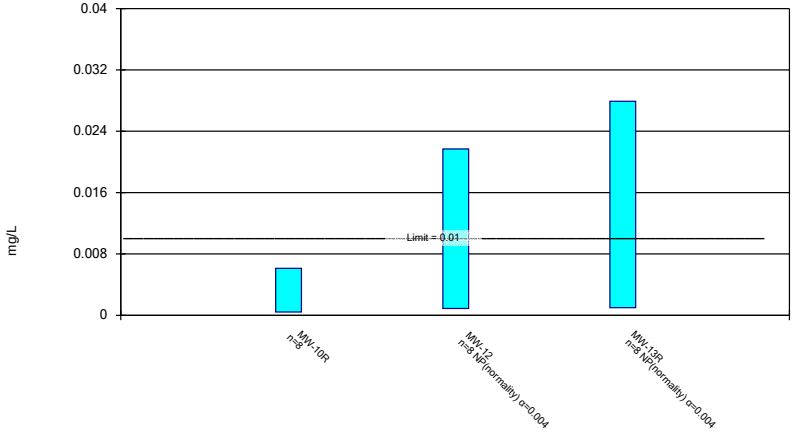
Compliance Limit is not exceeded.



Constituent: Acrylonitrile Analysis Run 9/13/2024 4:13 PM View: 2024SSN Confidence Interval
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Parametric and Non-Parametric (NP) Confidence Interval

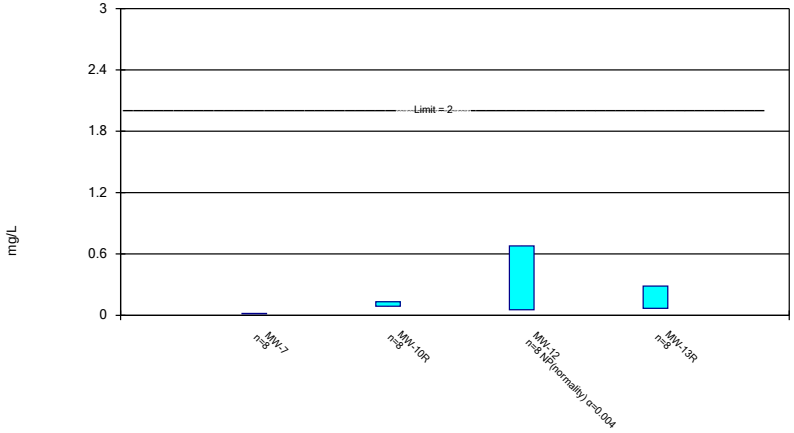
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Arsenic Analysis Run 9/13/2024 4:13 PM View: 2024SSN Confidence Interval
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Parametric and Non-Parametric (NP) Confidence Interval

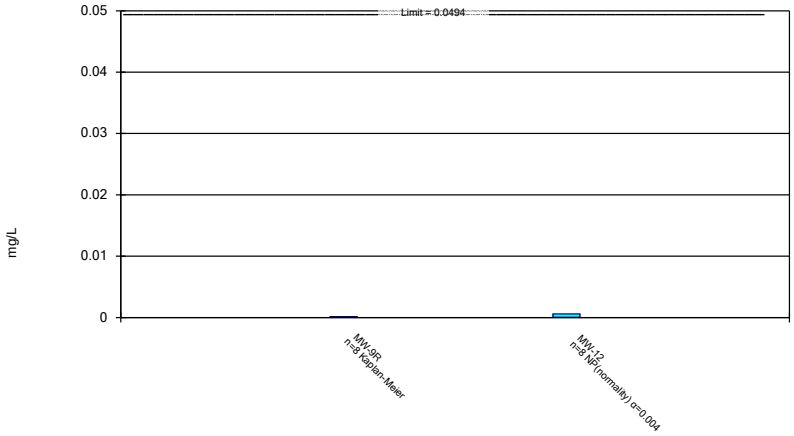
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Barium Analysis Run 9/13/2024 4:13 PM View: 2024SSN Confidence Interval
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Parametric and Non-Parametric (NP) Confidence Interval

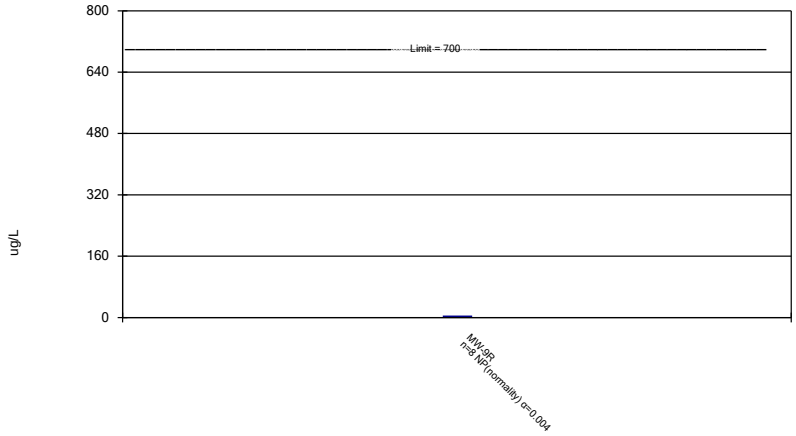
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Cadmium Analysis Run 9/13/2024 4:13 PM View: 2024SSN Confidence Interval
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Carbon Disulfide Analysis Run 9/13/2024 4:13 PM View: 2024SSN Confidence Interval
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

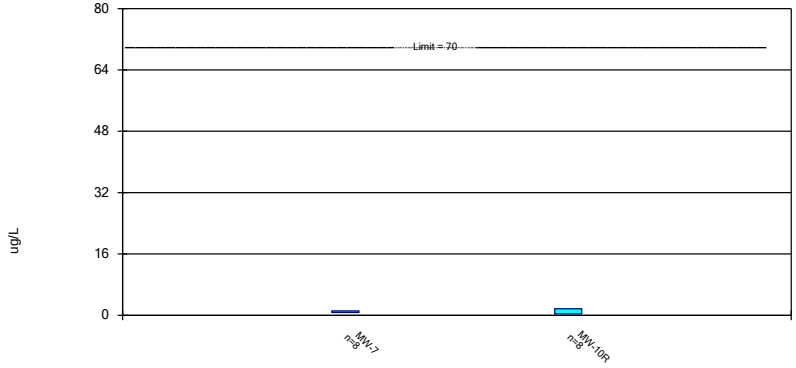
Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.

Constituent: Chlorobenzene Analysis Run 9/13/2024 4:13 PM View: 2024SSN Confidence Interval
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Parametric Confidence Interval

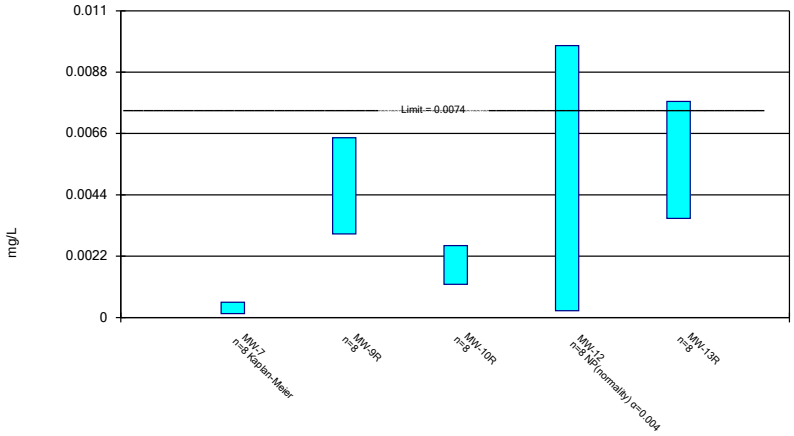
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: cis-1,2-Dichloroethene Analysis Run 9/13/2024 4:13 PM View: 2024SSN Confidence Interval
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Parametric and Non-Parametric (NP) Confidence Interval

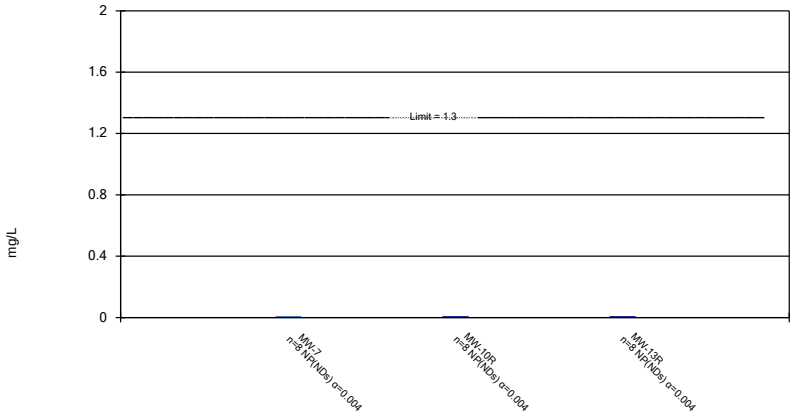
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Cobalt Analysis Run 9/13/2024 4:13 PM View: 2024SSN Confidence Interval
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Non-Parametric Confidence Interval

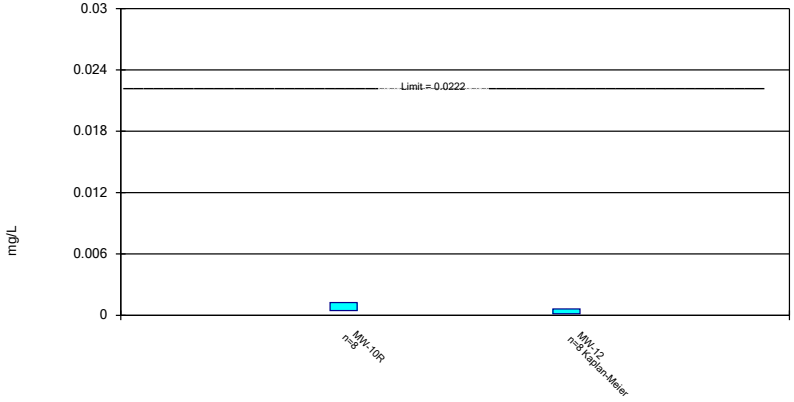
Compliance Limit is not exceeded.



Constituent: Copper Analysis Run 9/13/2024 4:13 PM View: 2024SSN Confidence Interval
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Parametric Confidence Interval

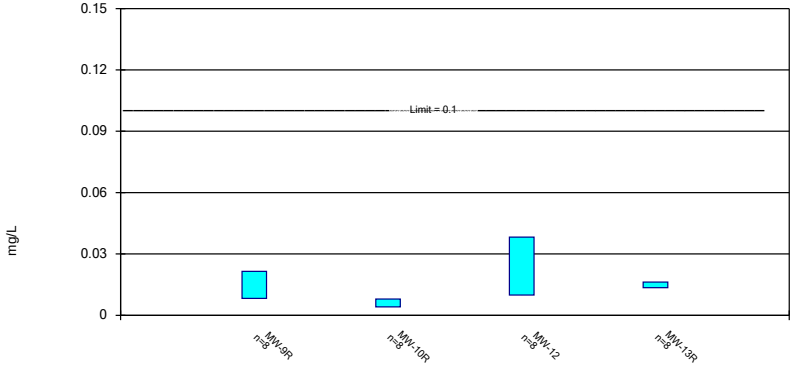
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Lead Analysis Run 9/13/2024 4:13 PM View: 2024SSN Confidence Interval
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Parametric Confidence Interval

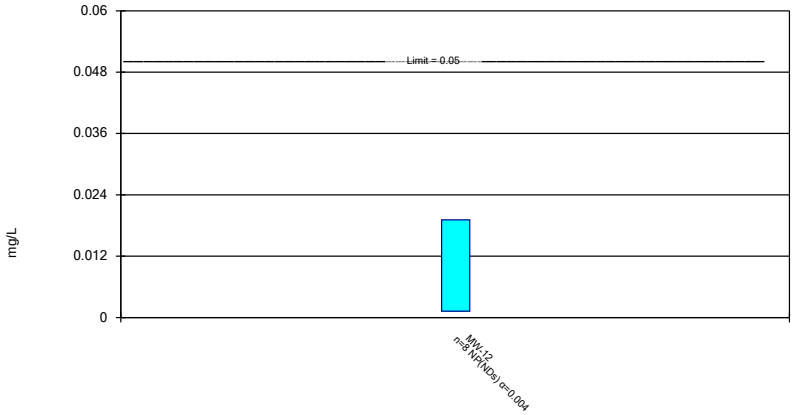
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Nickel Analysis Run 9/13/2024 4:13 PM View: 2024SSN Confidence Interval
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Selenium Analysis Run 9/13/2024 4:13 PM View: 2024SSN Confidence Interval
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

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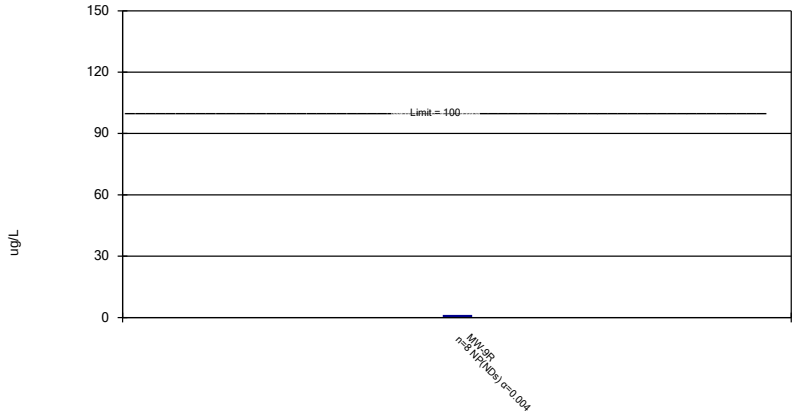
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Styrene Analysis Run 9/13/2024 4:13 PM View: 2024SSN Confidence Interval
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Theil-Sen Summary Table and Graphs – Closed MSWLF Unit

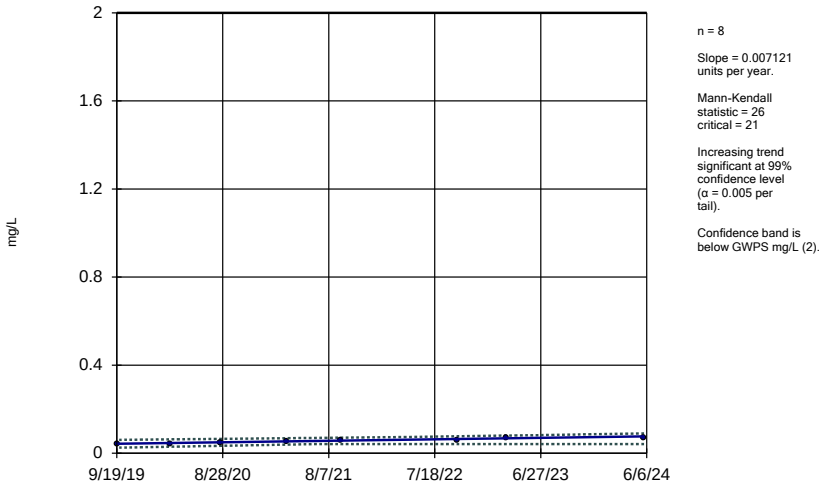
Trend Test

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN Printed 9/13/2024, 4:37 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
Barium (mg/L)	**MW-9R**	**0.007121**	**26**	**21**	**Yes**	**8**	**0**	**0.01**	**NP**
Cobalt (mg/L)	**MW-44**	**-0.0006498**	**-26**	**-21**	**Yes**	**8**	**0**	**0.01**	**NP**
Trichloroethene (ug/L)	**MW-7**	**-0.1407**	**-22**	**-21**	**Yes**	**8**	**0**	**0.01**	**NP**

Sen's Slope and 99% Confidence Band

MW-9R



n = 8

Slope = 0.007121 units per year.

Mann-Kendall statistic = 26
critical = 21

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

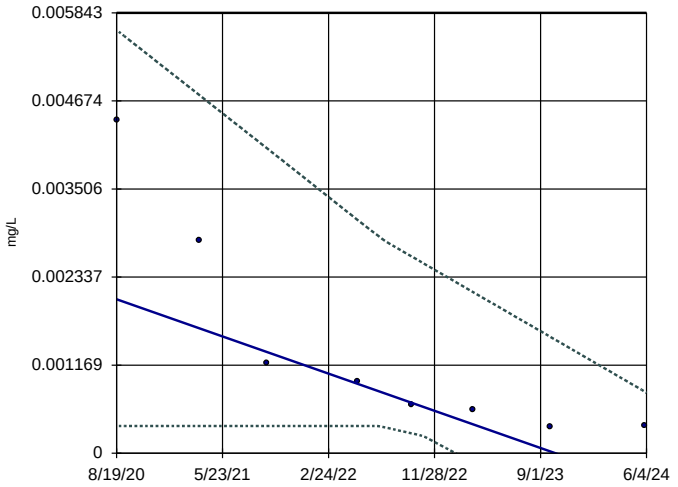
Confidence band is below GWPS mg/L (2).

Constituent: Barium Analysis Run 9/13/2024 4:35 PM View: 2024SSN Theil Sen

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Sen's Slope and 99% Confidence Band

MW-44



n = 8

Slope = -0.0006498 units per year.

Mann-Kendall statistic = -26
critical = -21

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

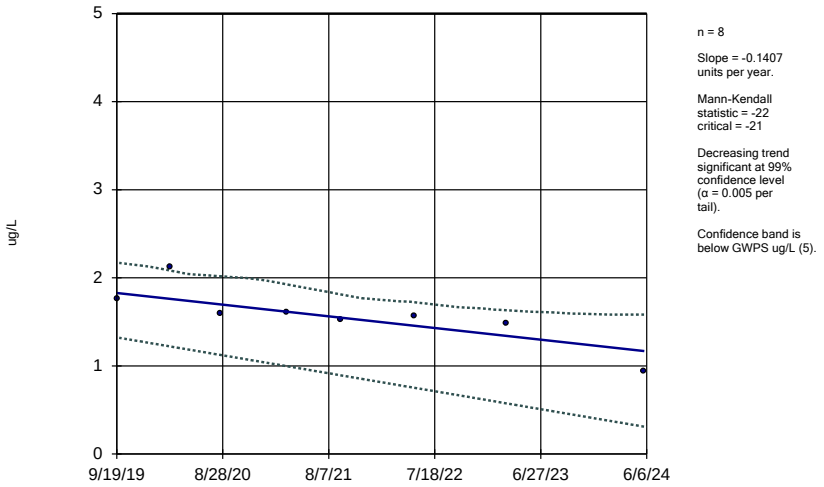
Confidence band is below GWPS mg/L (0.005843).

Constituent: Cobalt Analysis Run 9/13/2024 4:35 PM View: 2024SSN Theil Sen

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

Sen's Slope and 99% Confidence Band

MW-7



n = 8

Slope = -0.1407 units per year.

Mann-Kendall statistic = -22
critical = -21

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Confidence band is below GWPS ug/L (5).

Constituent: Trichloroethene Analysis Run 9/13/2024 4:35 PM View: 2024SSN Theil Sen

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE Closed-AM 2024SSN

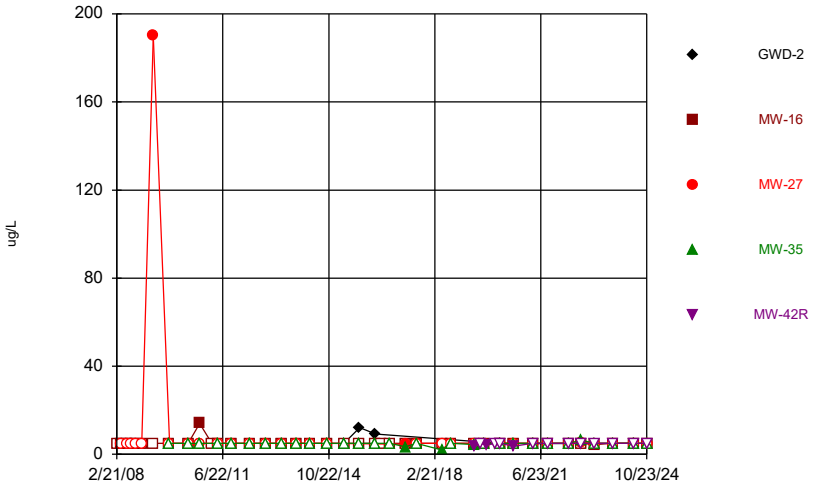
Attachment B

2nd 2024 Statistical Evaluation Output

Time Series Plots – Open MSWLF Unit

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

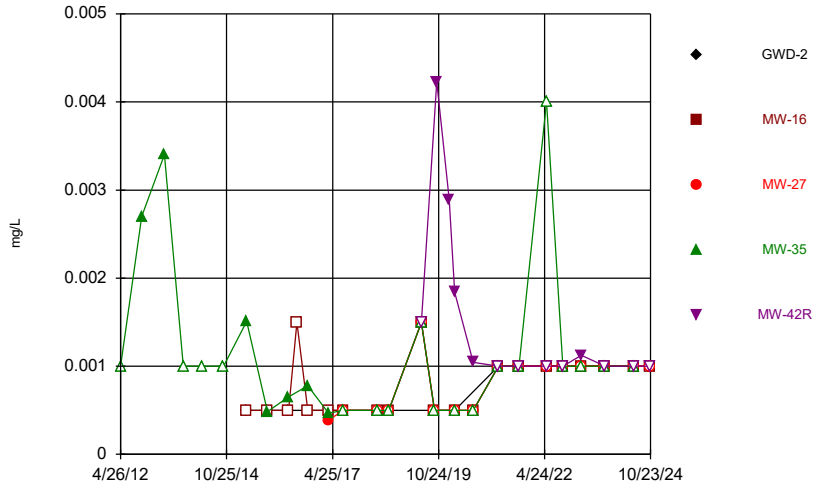
Time Series



Constituent: Acetone Analysis Run 2/26/2025 1:49 PM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

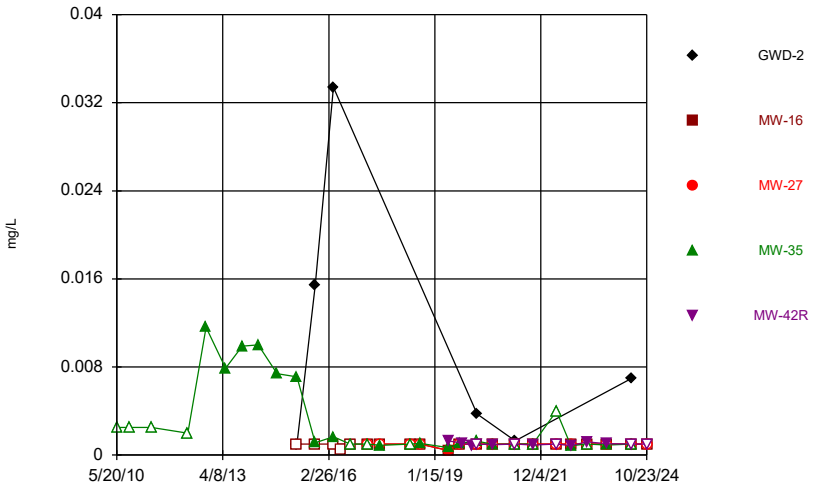
Time Series



Constituent: Antimony Analysis Run 2/26/2025 1:49 PM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

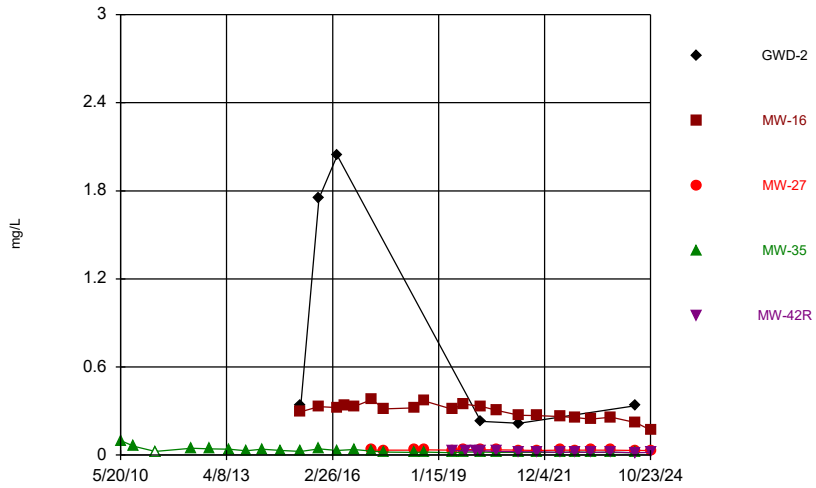
Time Series



Constituent: Arsenic Analysis Run 2/26/2025 1:49 PM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

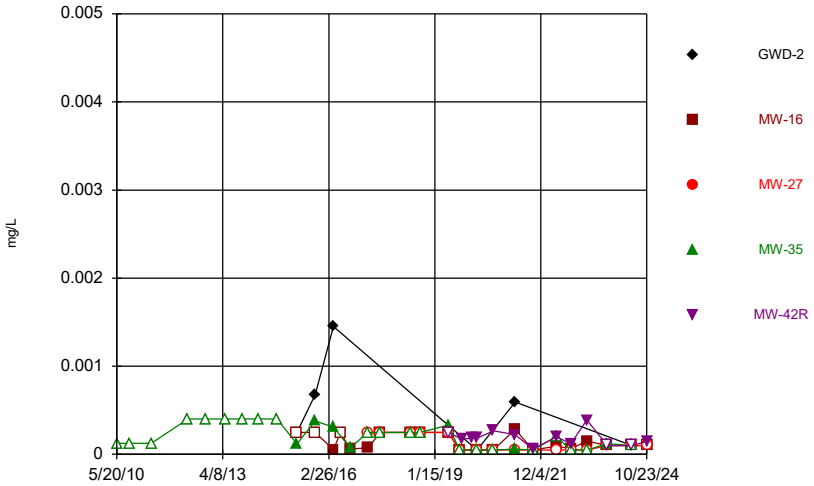
Time Series



Constituent: Barium Analysis Run 2/26/2025 1:49 PM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

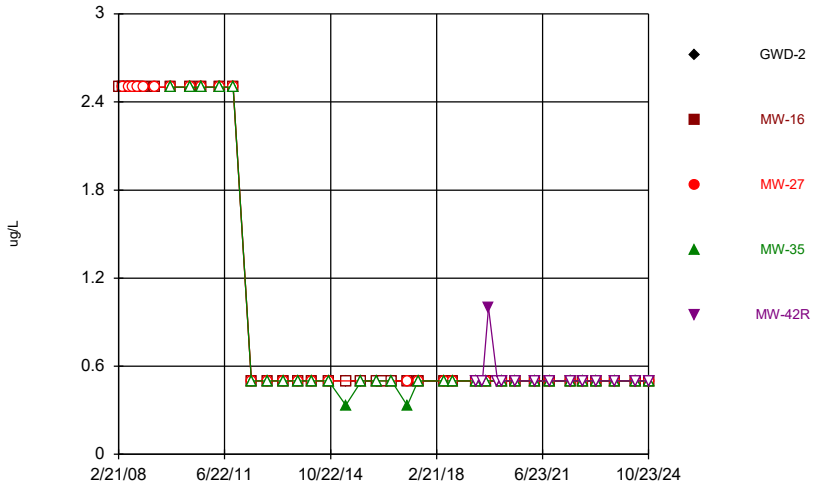
Time Series



Constituent: Cadmium Analysis Run 2/26/2025 1:49 PM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

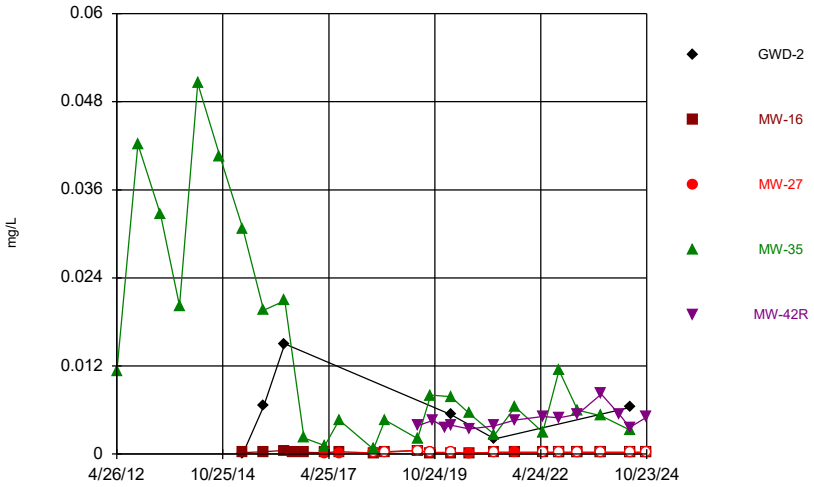
Time Series



Constituent: Carbon Disulfide Analysis Run 2/26/2025 1:49 PM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

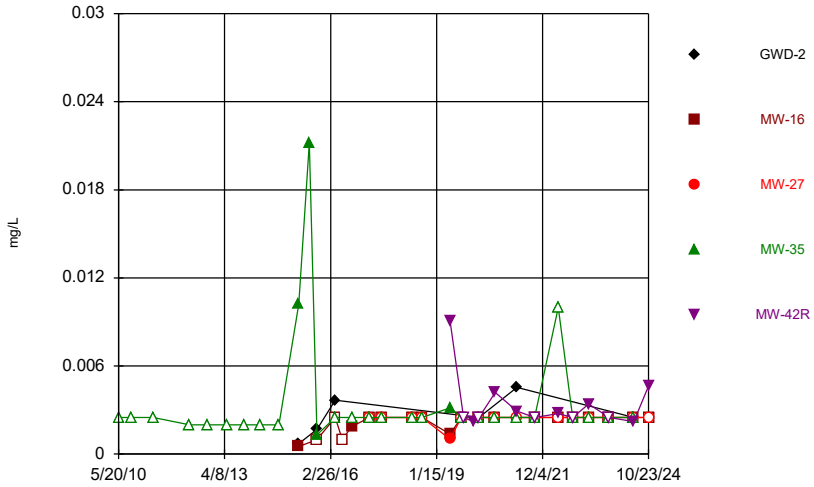
Time Series



Constituent: Cobalt Analysis Run 2/26/2025 1:49 PM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

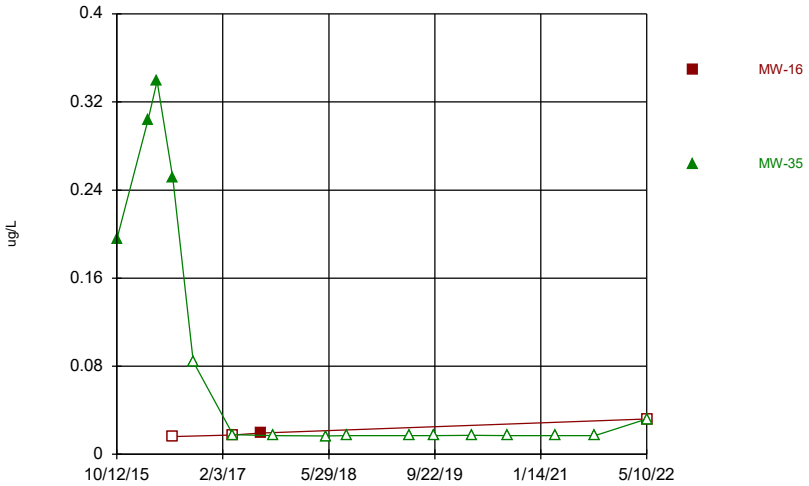
Time Series



Constituent: Copper Analysis Run 2/26/2025 1:49 PM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

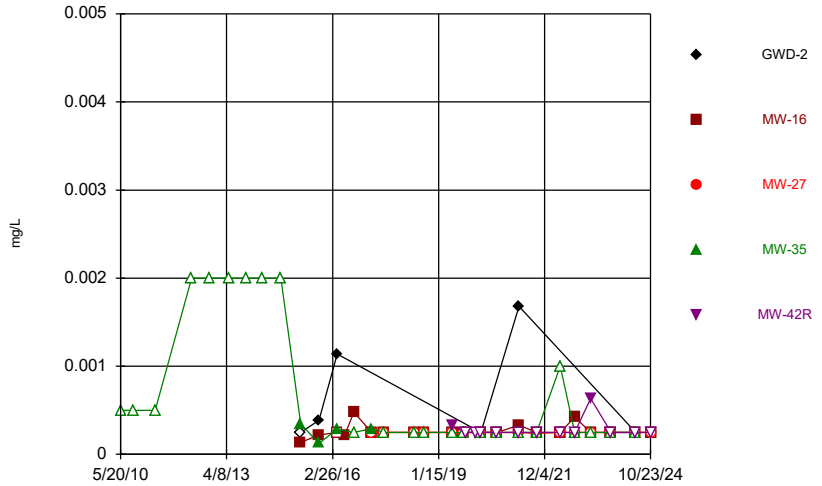
Time Series



Constituent: Endrin aldehyde Analysis Run 2/26/2025 1:49 PM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

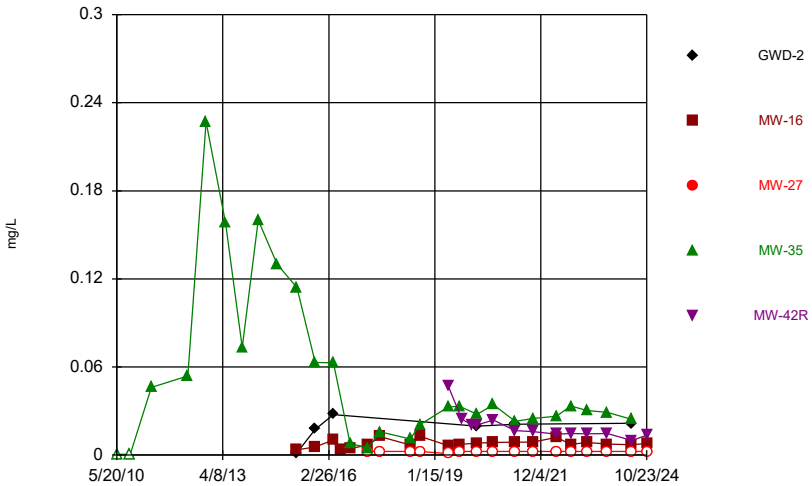
Time Series



Constituent: Lead Analysis Run 2/26/2025 1:49 PM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

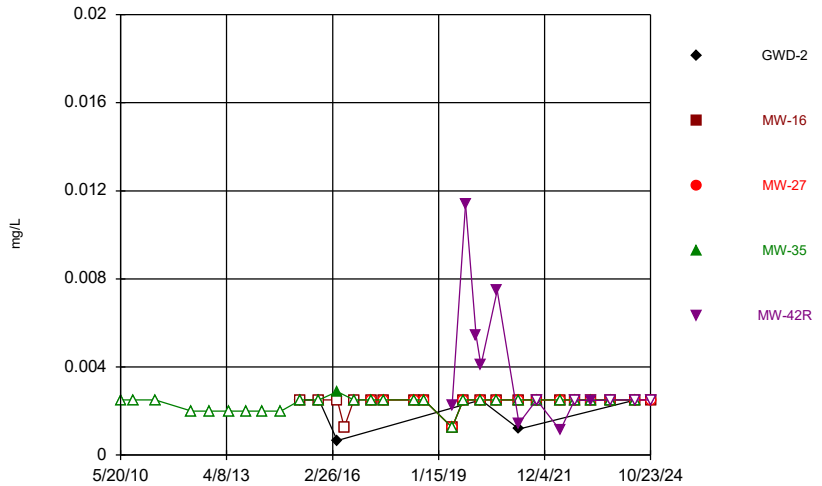
Time Series



Constituent: Nickel Analysis Run 2/26/2025 1:49 PM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

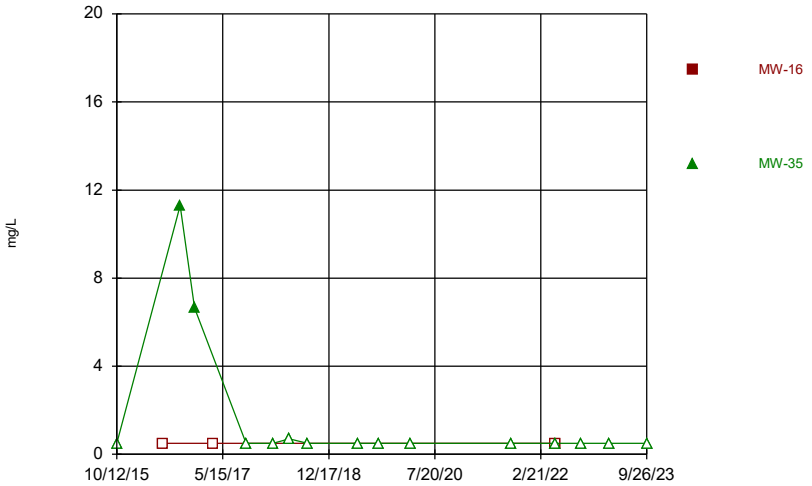
Time Series



Constituent: Selenium Analysis Run 2/26/2025 1:49 PM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

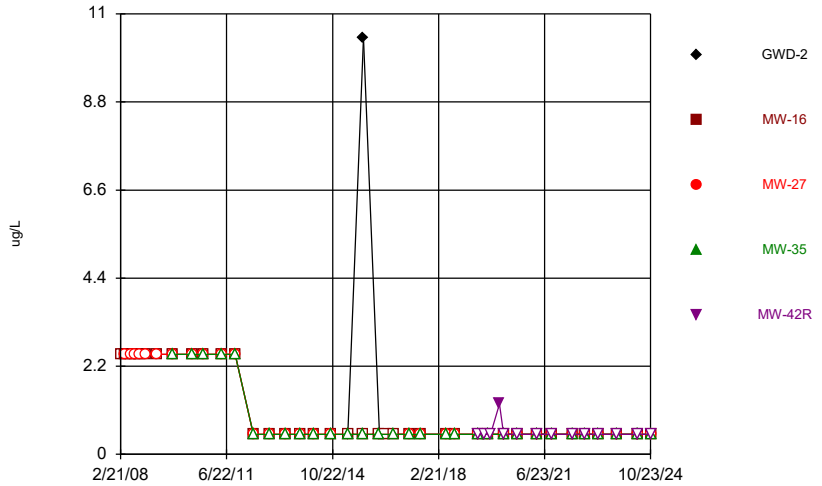
Time Series



Constituent: Sulfide Analysis Run 2/26/2025 1:49 PM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

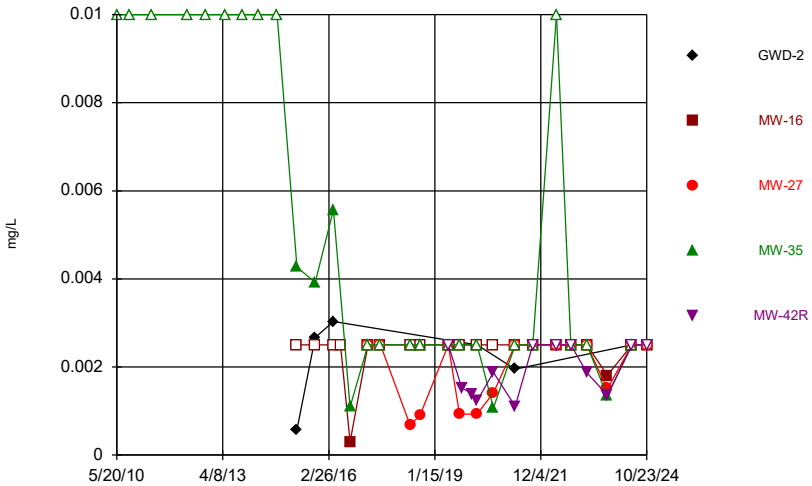
Time Series



Constituent: Toluene Analysis Run 2/26/2025 1:49 PM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

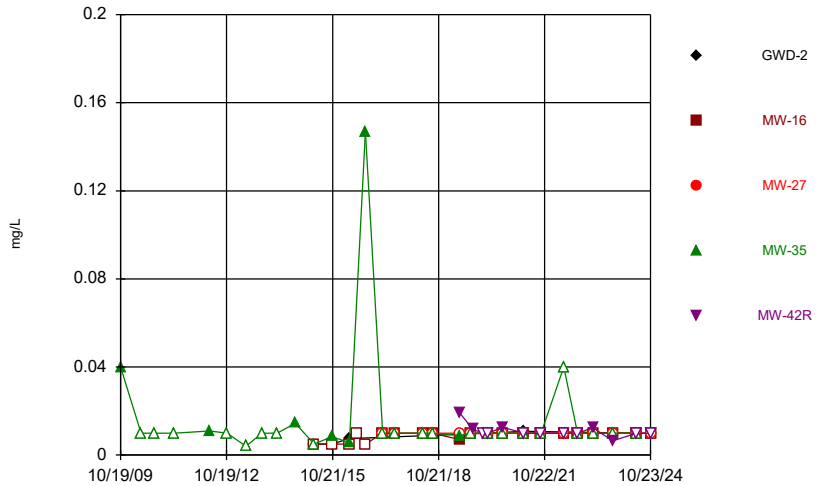
Time Series



Constituent: Vanadium Analysis Run 2/26/2025 1:49 PM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Zinc Analysis Run 2/26/2025 1:49 PM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Time Series Plots – Closed MSWLF Unit

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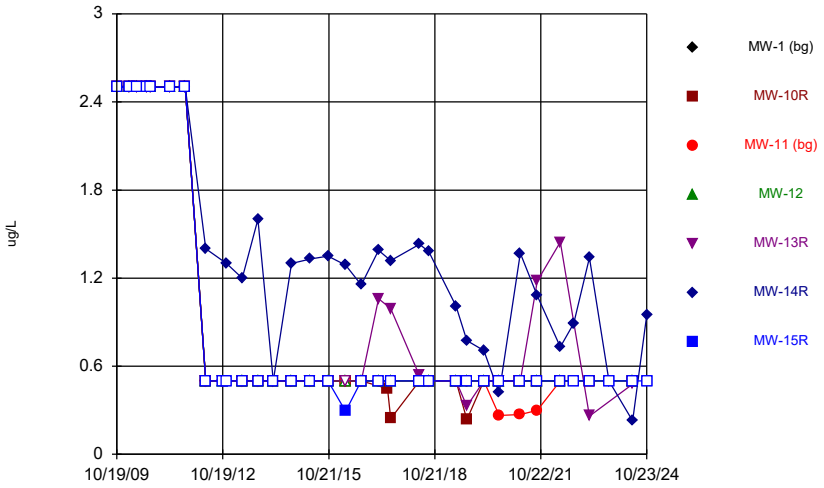
Hollow symbols indicate censored values.

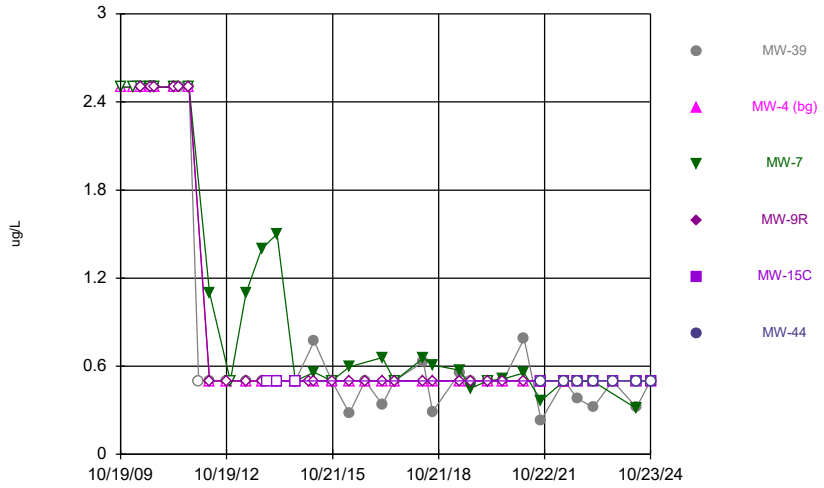
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 2/28/2025 9:59 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

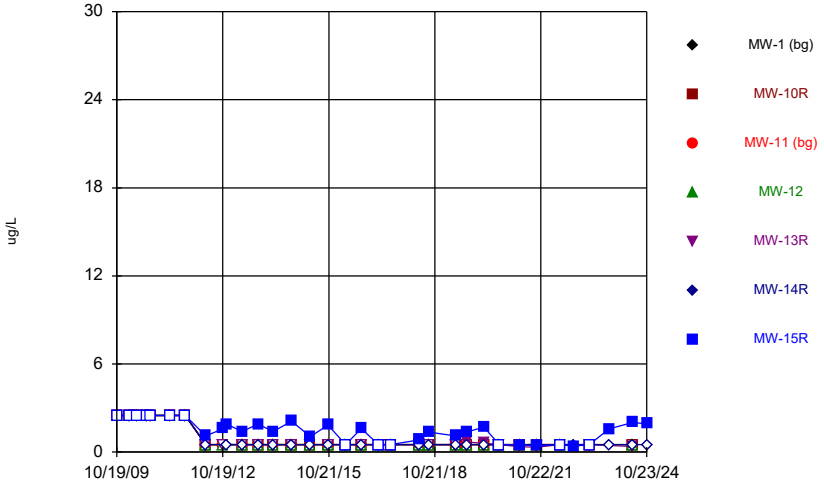
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 2/28/2025 9:59 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

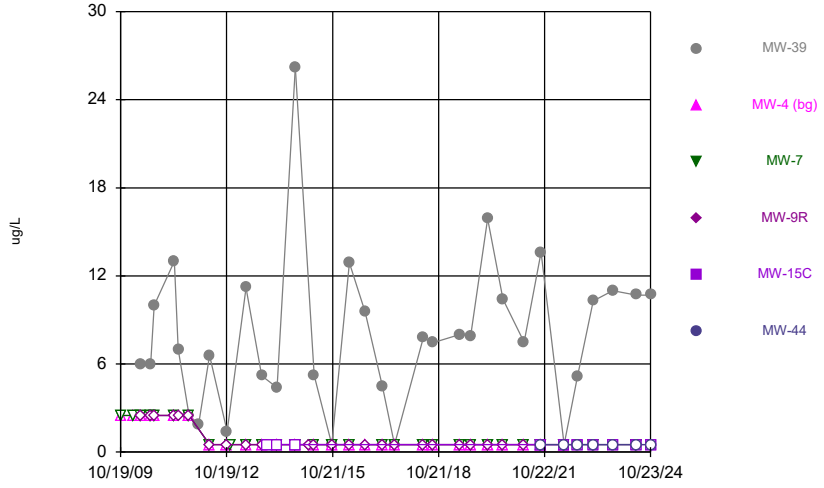
Time Series



Constituent: 1,4-Dichlorobenzene Analysis Run 2/28/2025 9:59 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

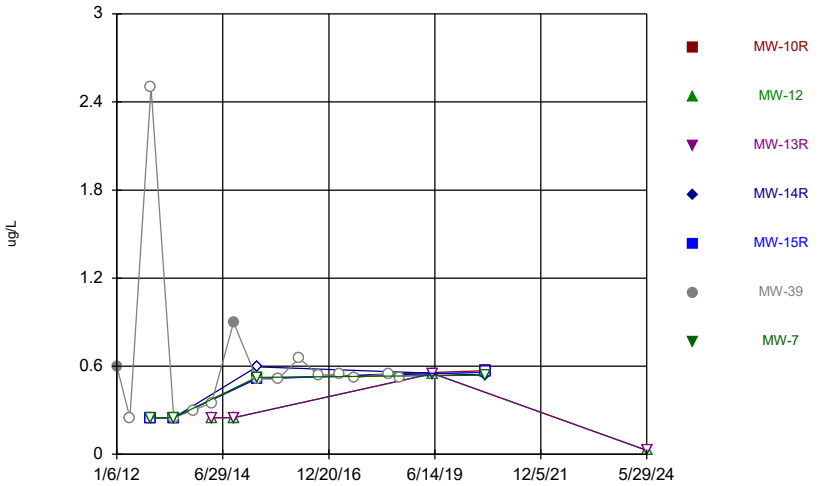
Time Series



Constituent: 1,4-Dichlorobenzene Analysis Run 2/28/2025 9:59 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

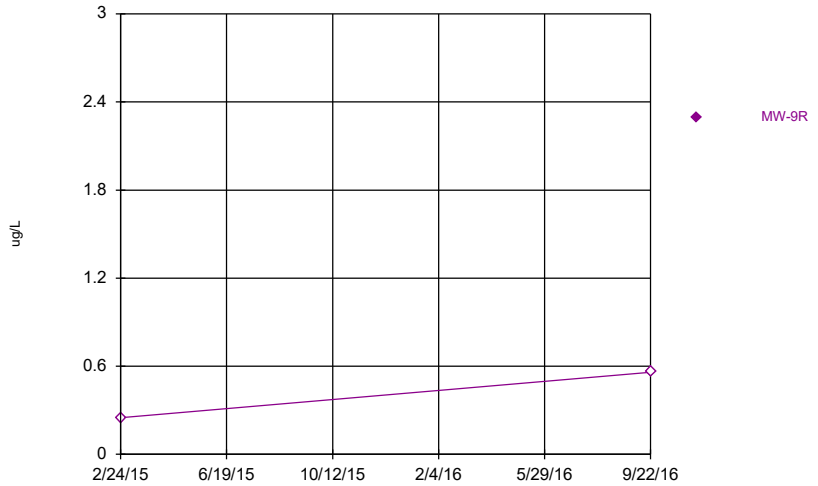
Time Series



Constituent: 2,4,5-TP [Silvex] [2C] Analysis Run 2/28/2025 9:59 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

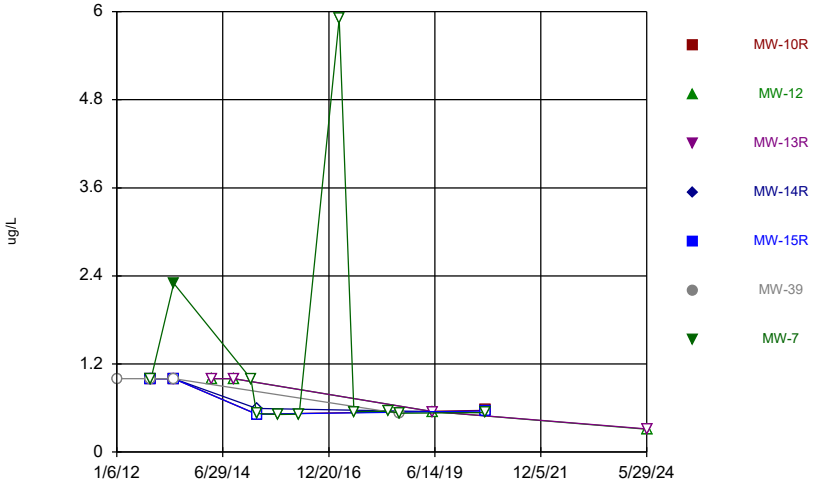
Time Series



Constituent: 2,4,5-TP [Silvex] [2C] Analysis Run 2/28/2025 9:59 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

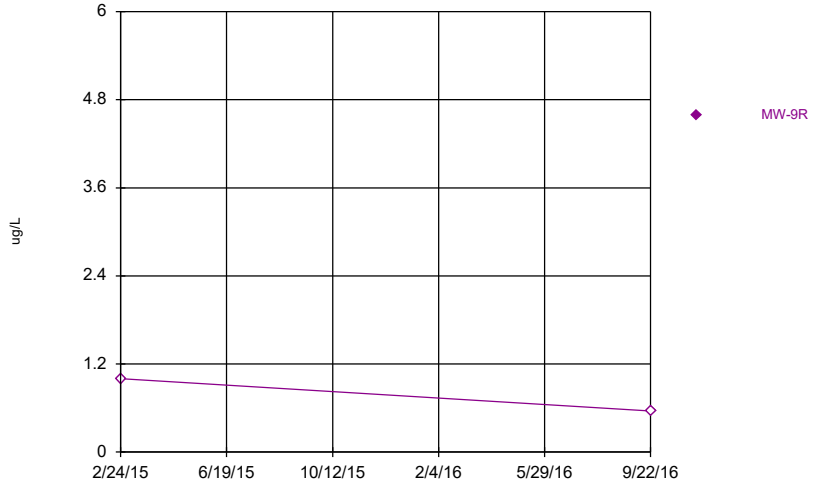
Time Series



Constituent: 2,4-D [2C] Analysis Run 2/28/2025 9:59 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

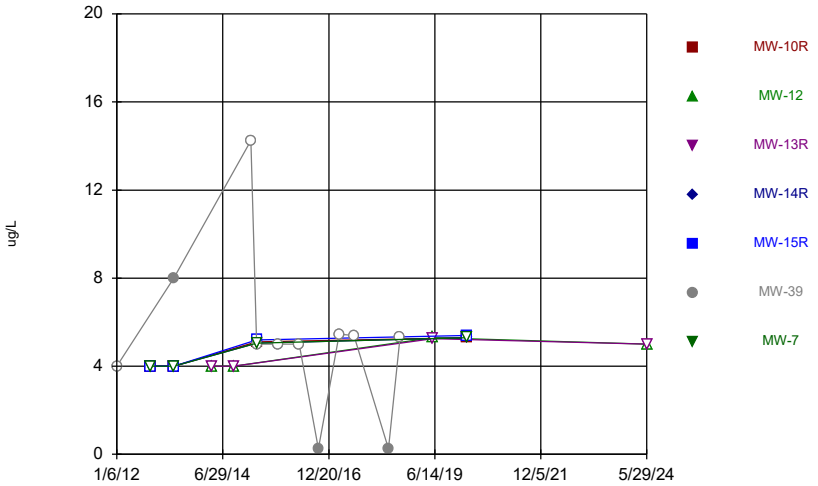
Time Series



Constituent: 2,4-D [2C] Analysis Run 2/28/2025 9:59 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

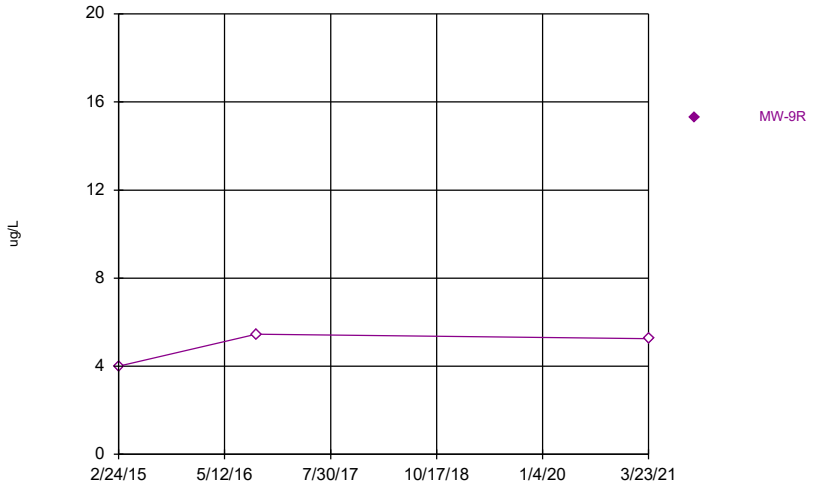
Time Series



Constituent: 3/4-Methylphenol Analysis Run 2/28/2025 9:59 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

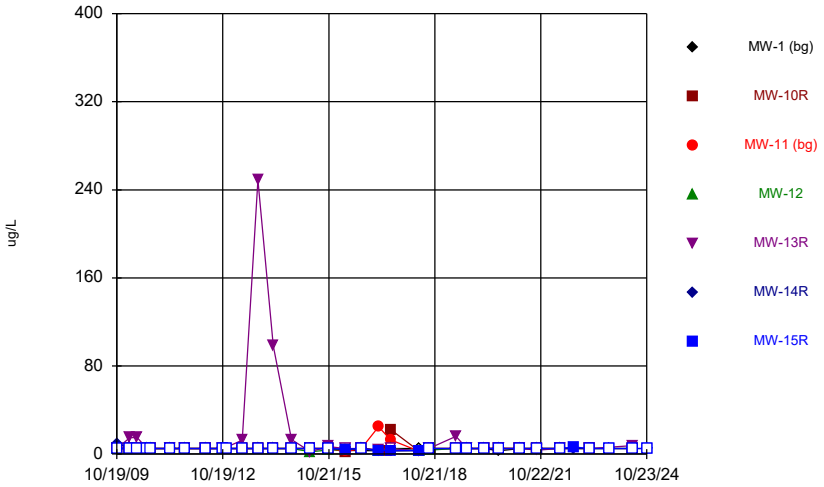
Time Series



Constituent: 3/4-Methylphenol Analysis Run 2/28/2025 9:59 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

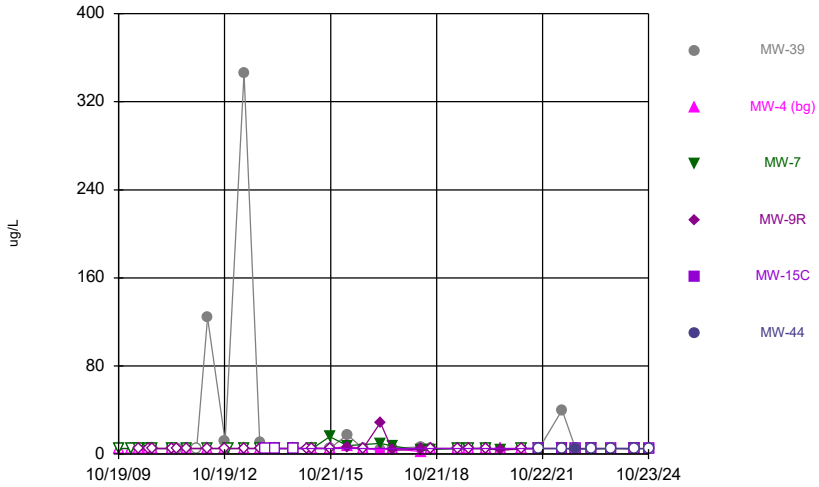
Time Series



Constituent: Acetone Analysis Run 2/28/2025 9:59 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

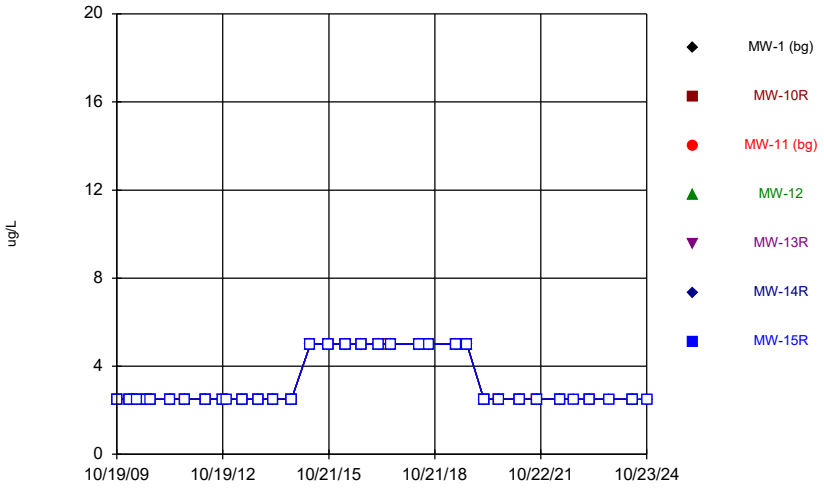
Time Series



Constituent: Acetone Analysis Run 2/28/2025 9:59 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Acrylonitrile Analysis Run 2/28/2025 9:59 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

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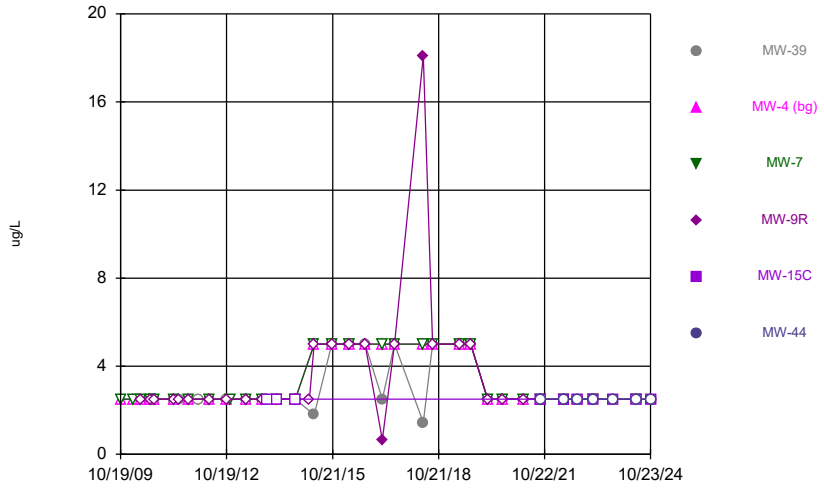
Hollow symbols indicate censored values.

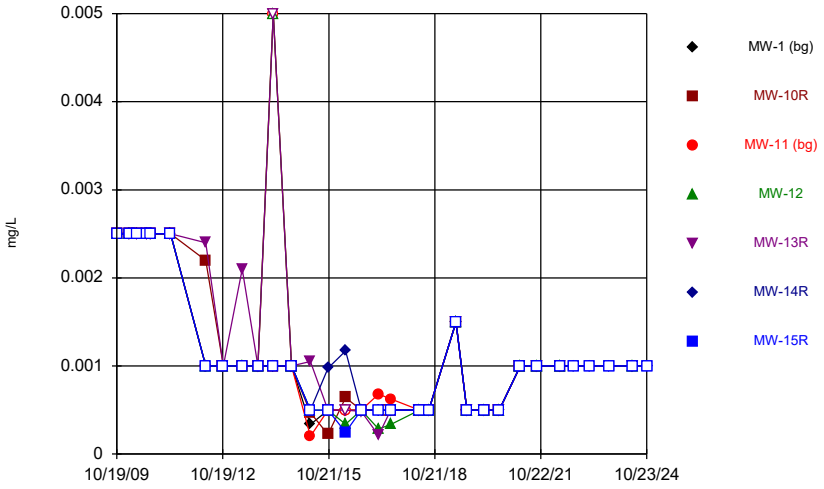
Time Series



Constituent: Acrylonitrile Analysis Run 2/28/2025 9:59 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

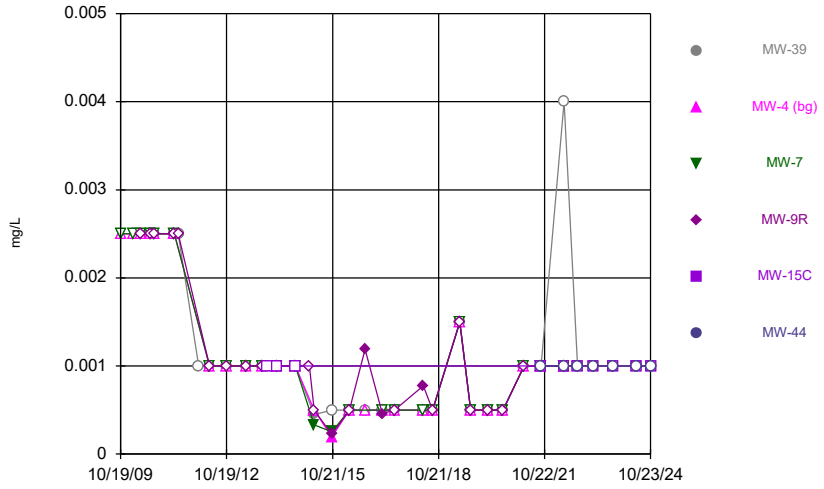
Time Series



Constituent: Antimony Analysis Run 2/28/2025 9:59 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

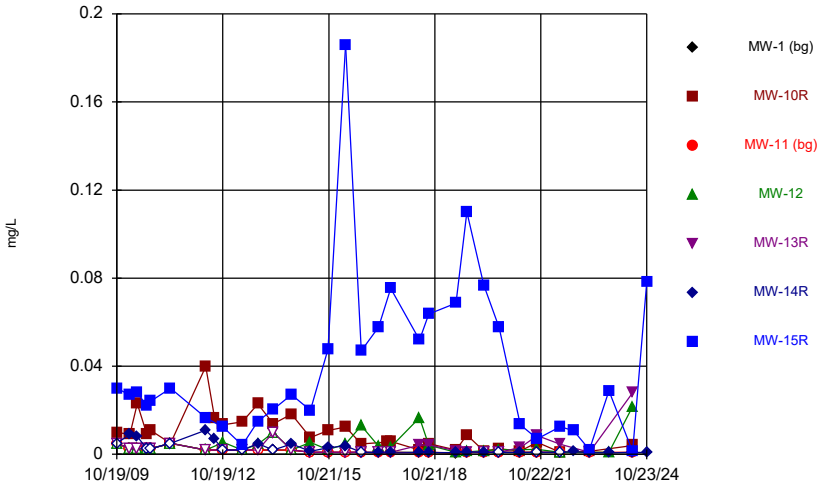
Time Series



Constituent: Antimony Analysis Run 2/28/2025 9:59 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

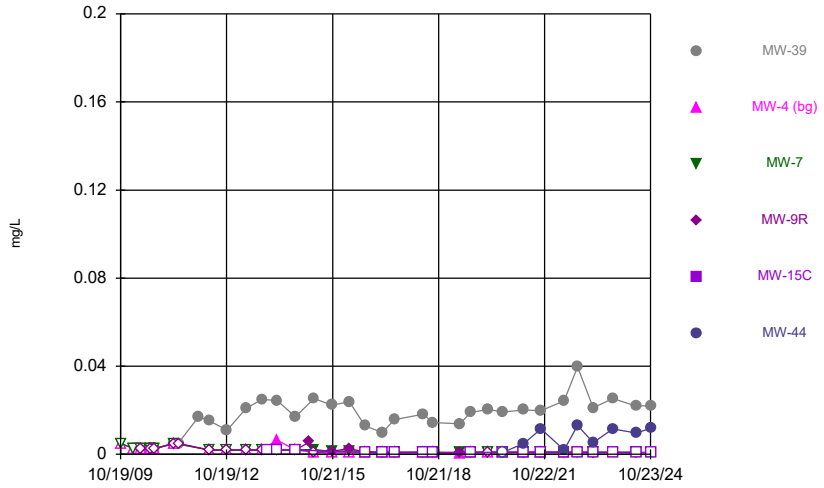
Time Series



Constituent: Arsenic Analysis Run 2/28/2025 9:59 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

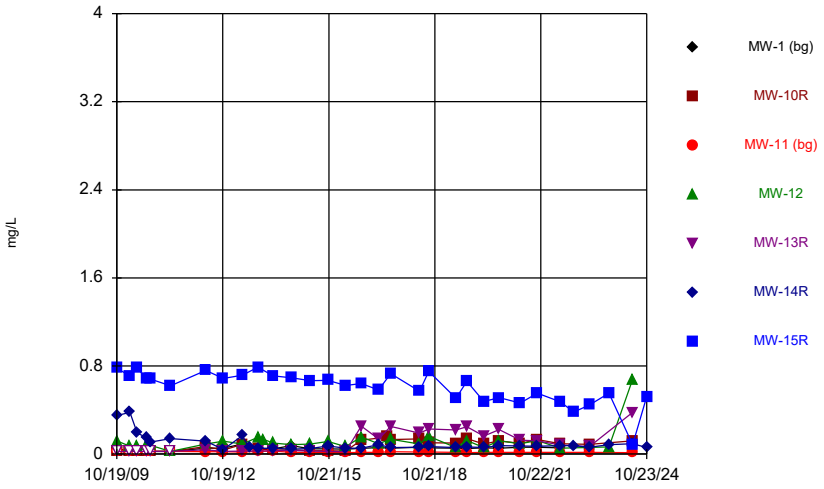
Time Series



Constituent: Arsenic Analysis Run 2/28/2025 9:59 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

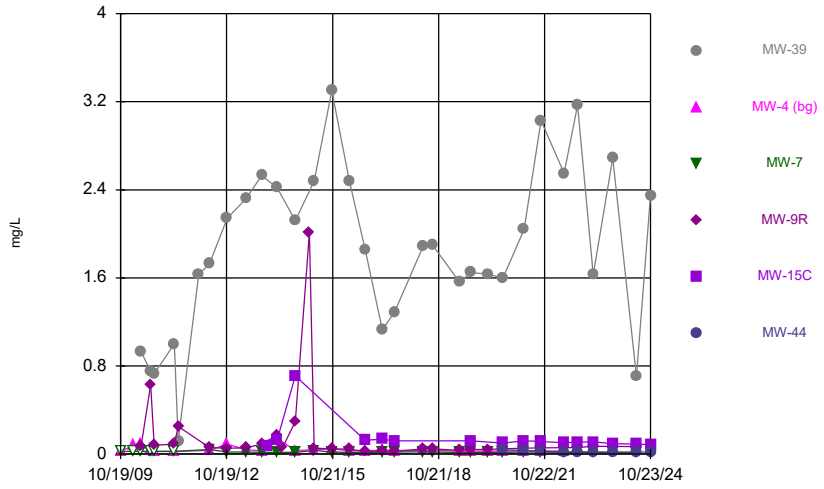
Time Series



Constituent: Barium Analysis Run 2/28/2025 9:59 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

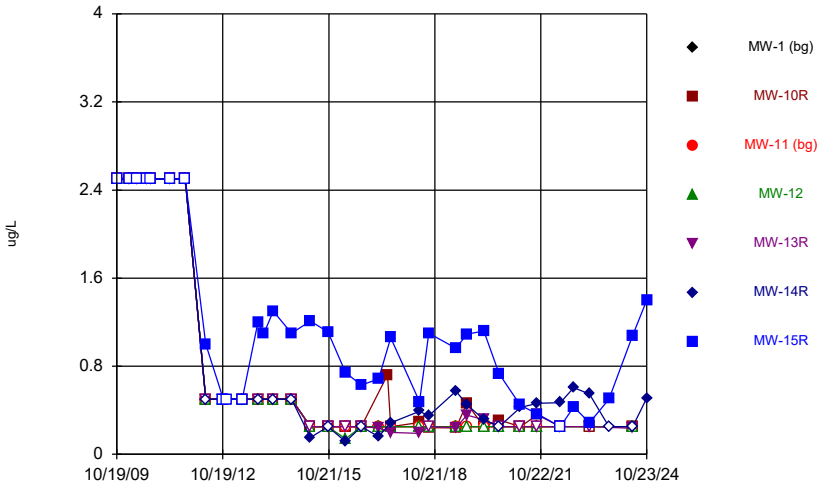
Time Series



Constituent: Barium Analysis Run 2/28/2025 9:59 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

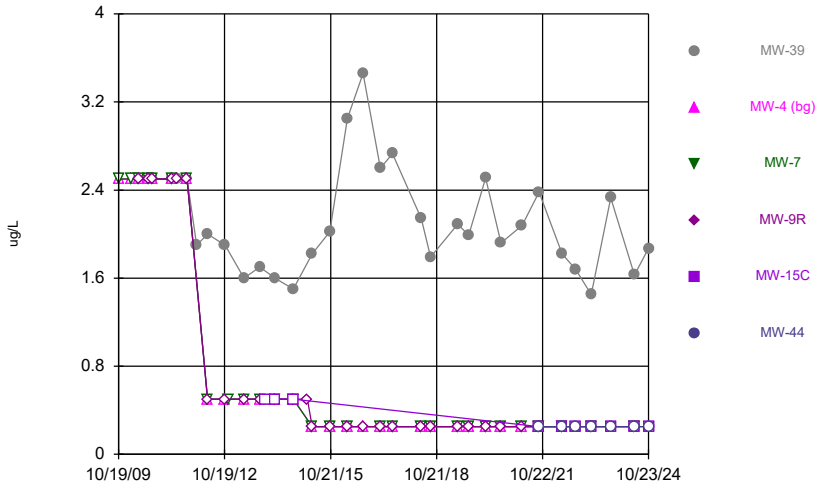
Time Series



Constituent: Benzene Analysis Run 2/28/2025 9:59 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

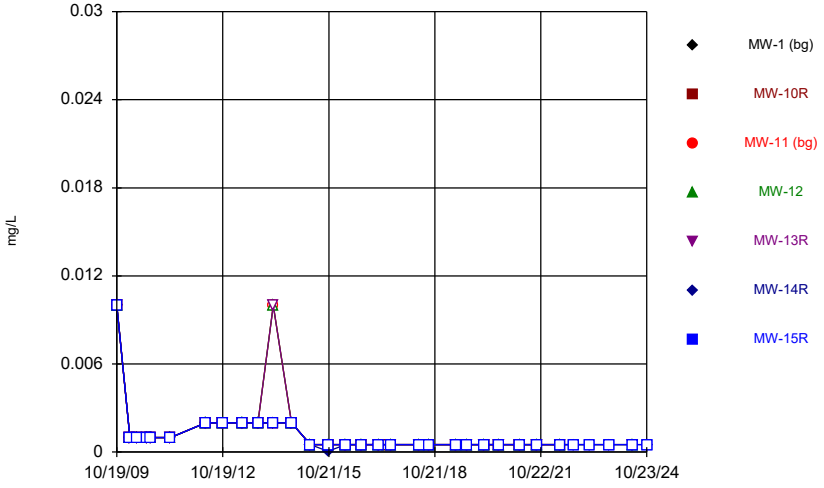
Time Series



Constituent: Benzene Analysis Run 2/28/2025 9:59 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

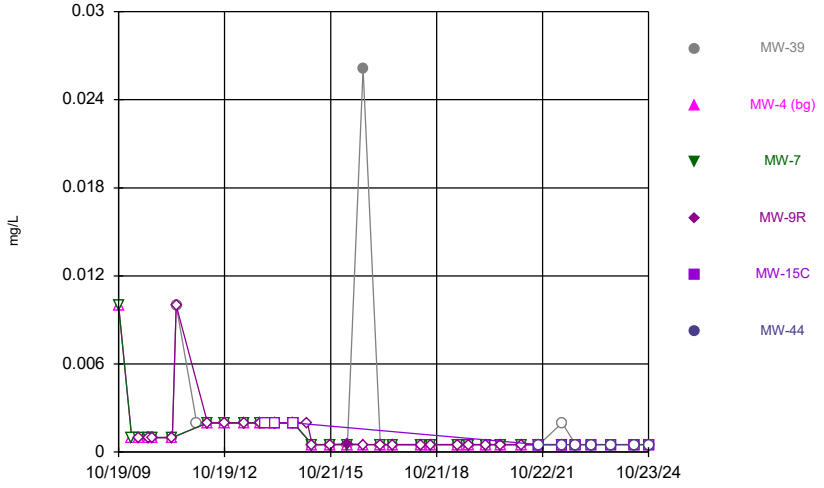
Time Series



Constituent: Beryllium Analysis Run 2/28/2025 9:59 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

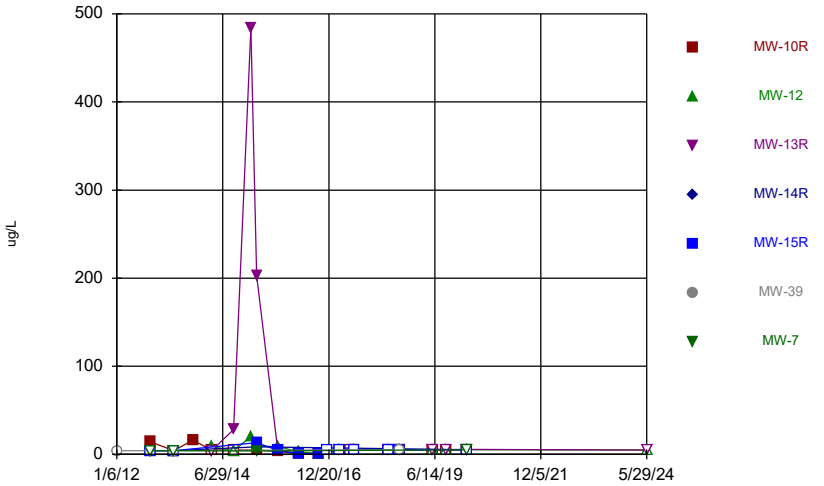
Time Series



Constituent: Beryllium Analysis Run 2/28/2025 9:59 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

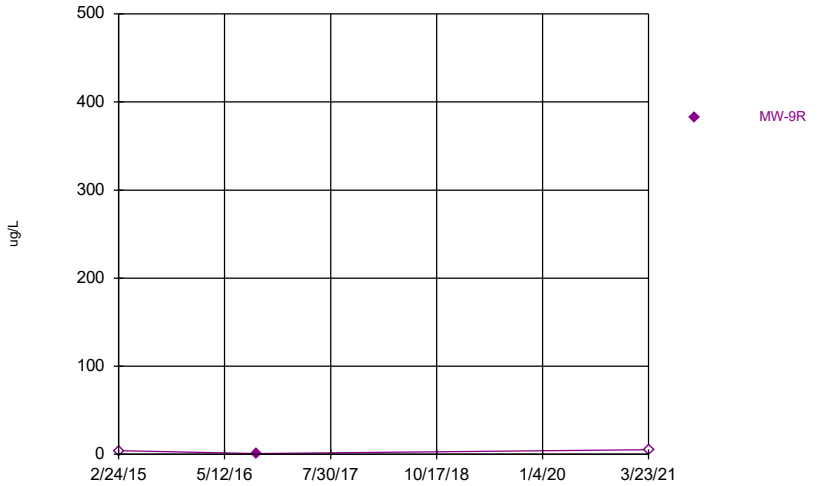
Time Series



Constituent: Bis[2-ethylhexyl]phthalate Analysis Run 2/28/2025 9:59 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

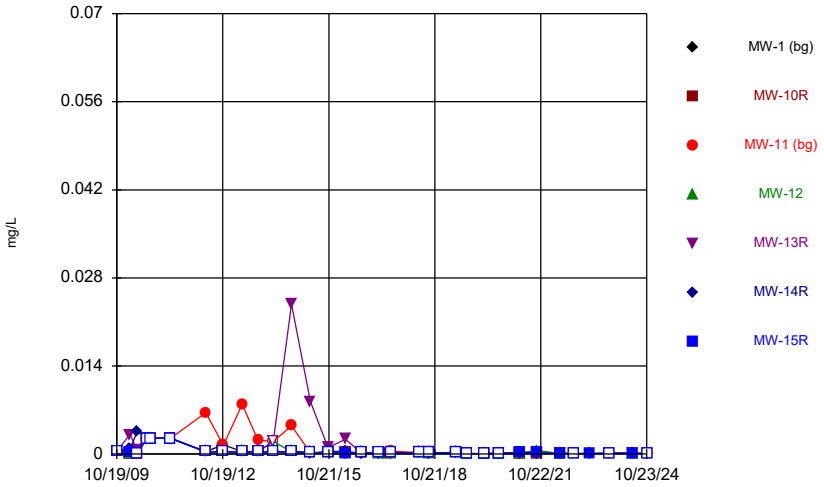
Time Series



Constituent: Bis[2-ethylhexyl]phthalate Analysis Run 2/28/2025 9:59 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

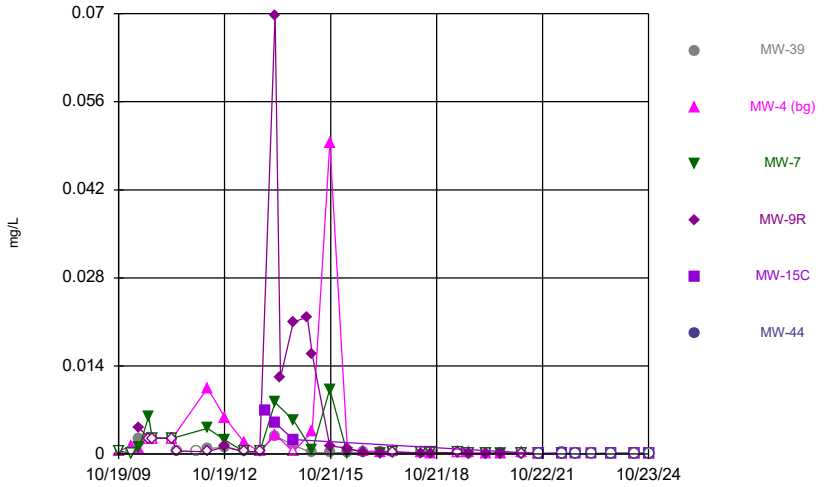
Time Series



Constituent: Cadmium Analysis Run 2/28/2025 9:59 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

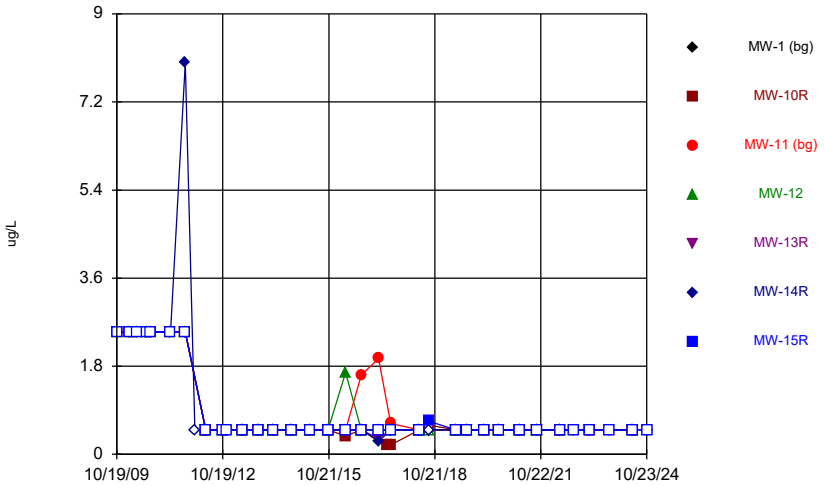
Time Series



Constituent: Cadmium Analysis Run 2/28/2025 9:59 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

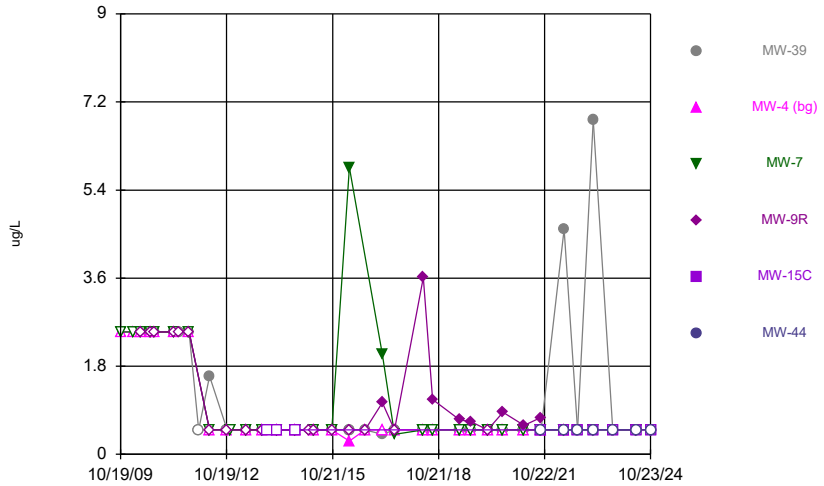
Time Series



Constituent: Carbon Disulfide Analysis Run 2/28/2025 9:59 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

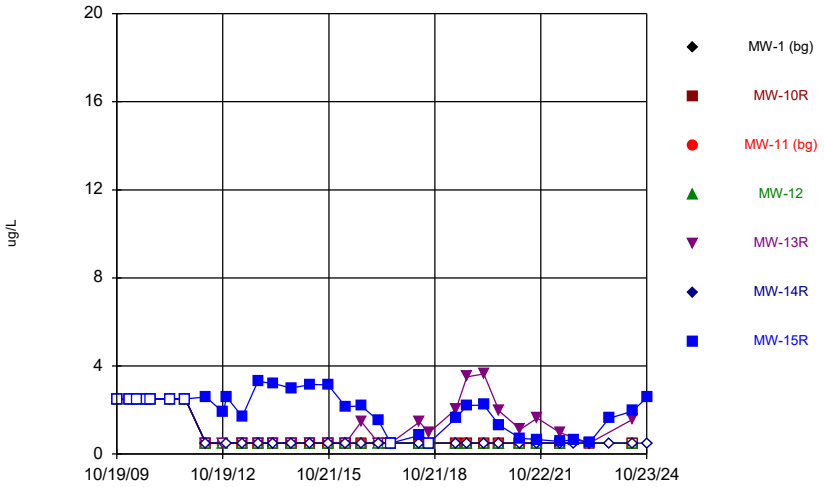
Time Series



Constituent: Carbon Disulfide Analysis Run 2/28/2025 9:59 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

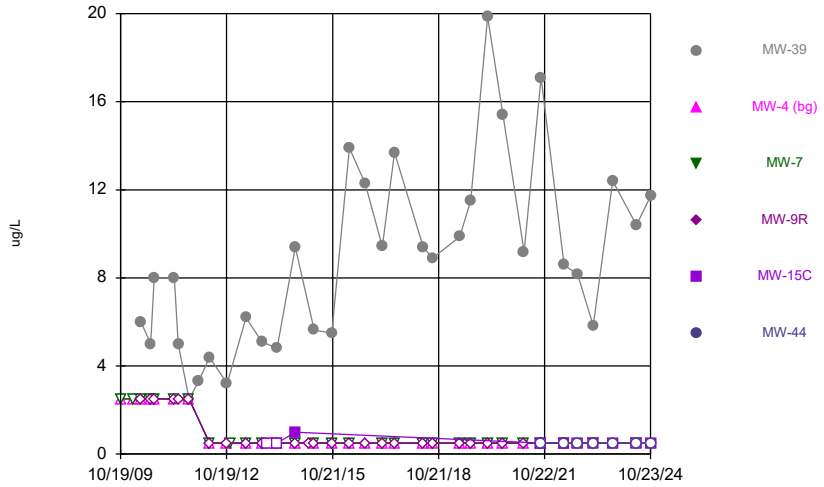
Time Series



Constituent: Chlorobenzene Analysis Run 2/28/2025 9:59 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

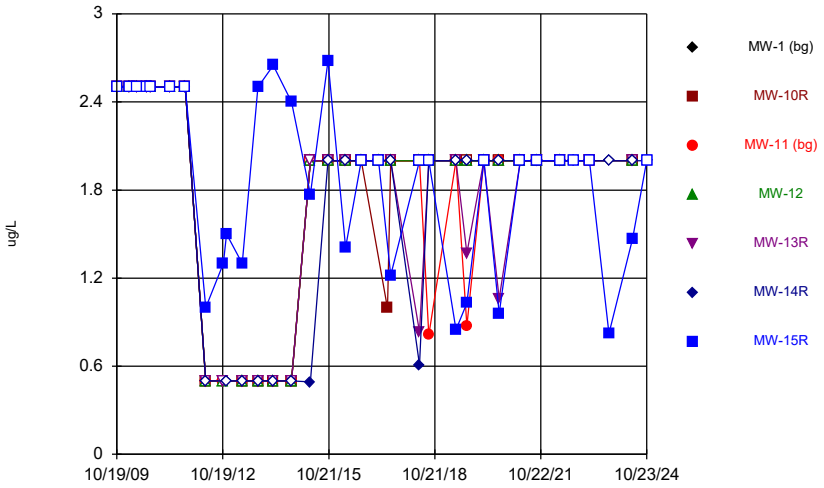
Time Series



Constituent: Chlorobenzene Analysis Run 2/28/2025 9:59 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

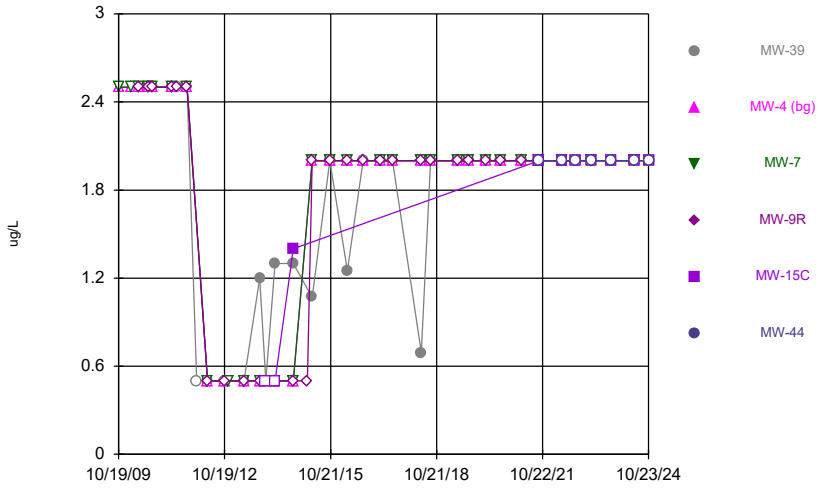
Time Series



Constituent: Chloroethane Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

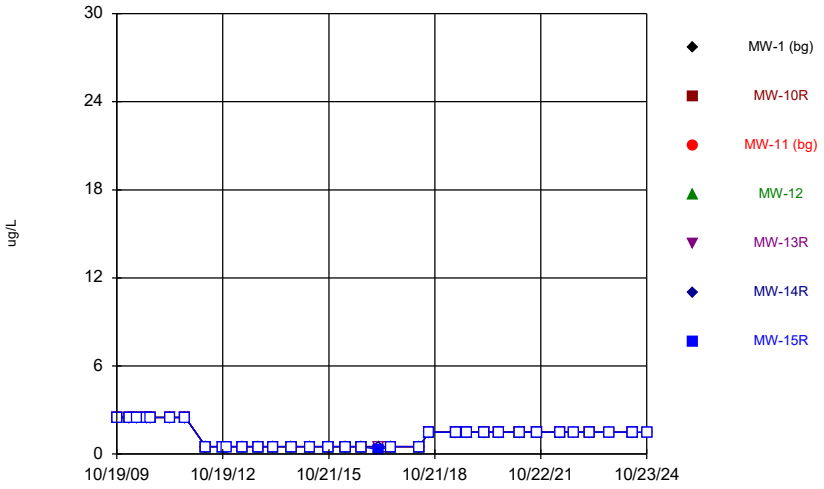
Time Series



Constituent: Chloroethane Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

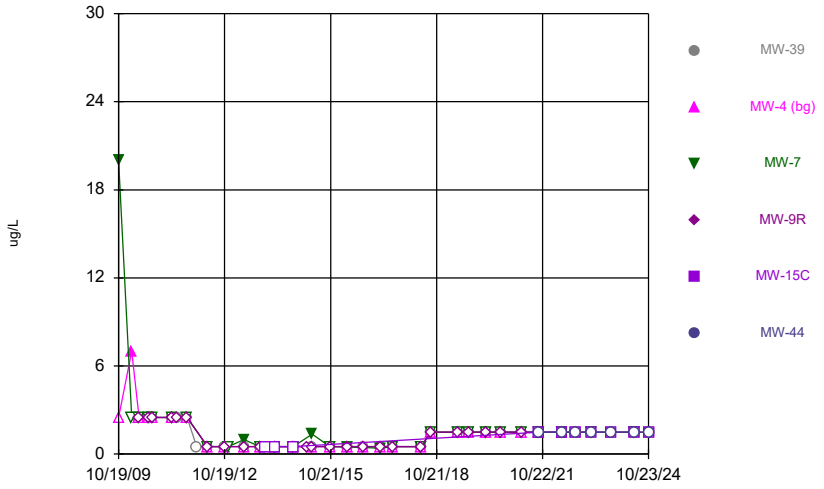
Time Series



Constituent: Chloroform Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

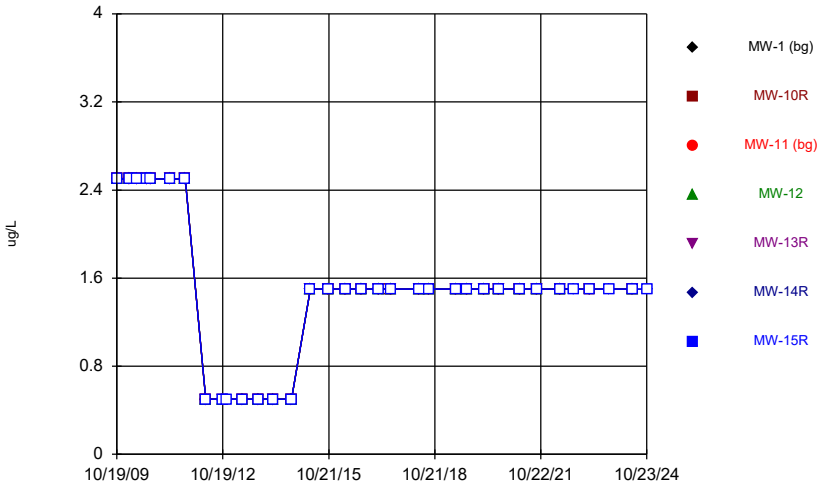
Time Series



Constituent: Chloroform Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

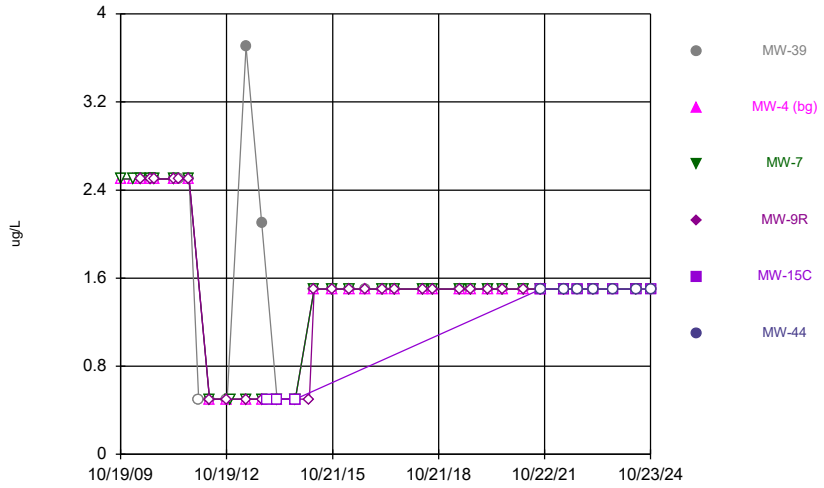
Time Series



Constituent: Chloromethane Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

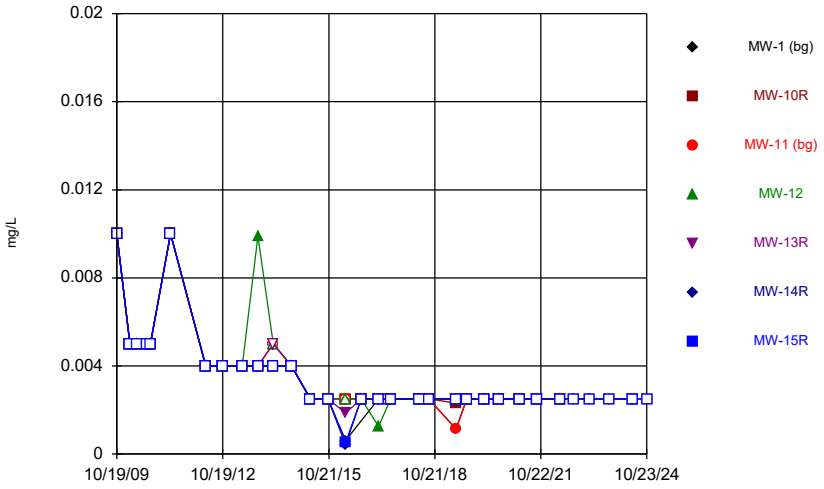
Time Series



Constituent: Chloromethane Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

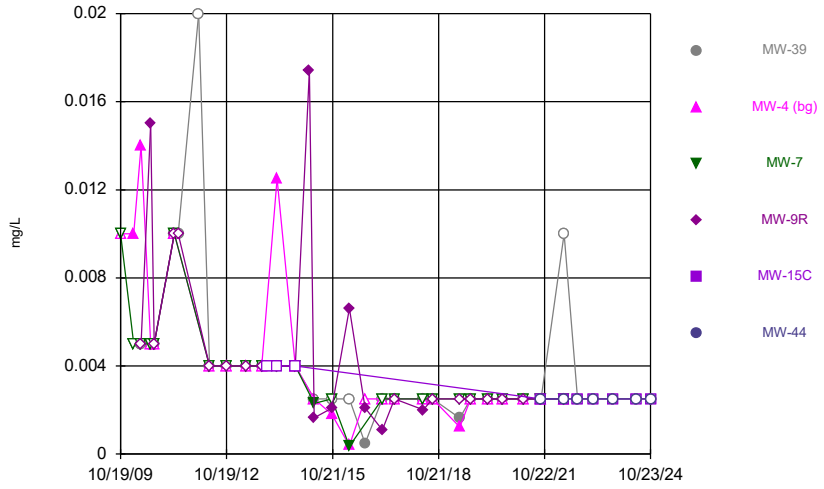
Time Series



Constituent: Chromium Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

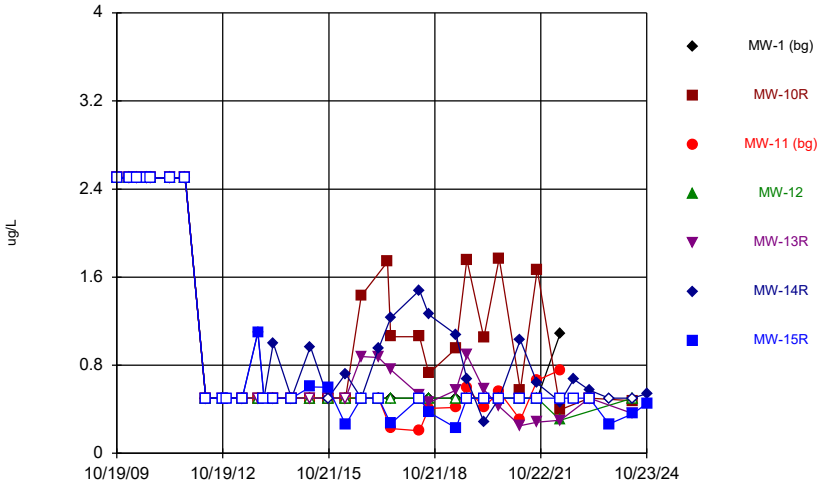
Time Series



Constituent: Chromium Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

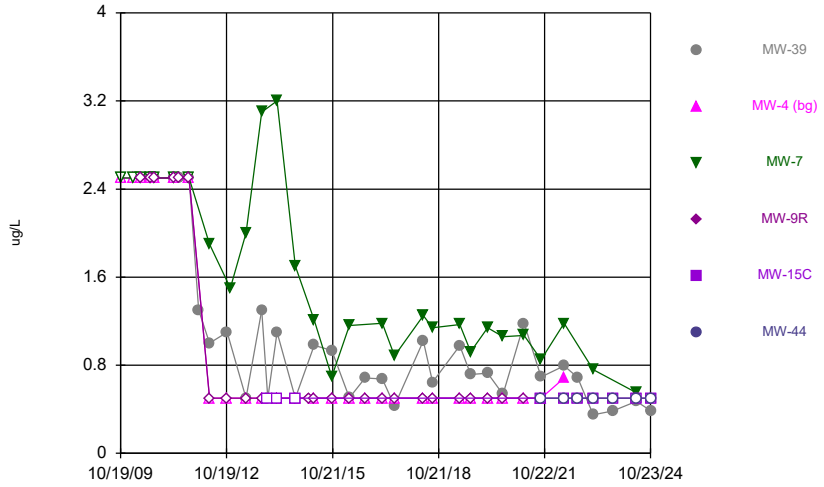
Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

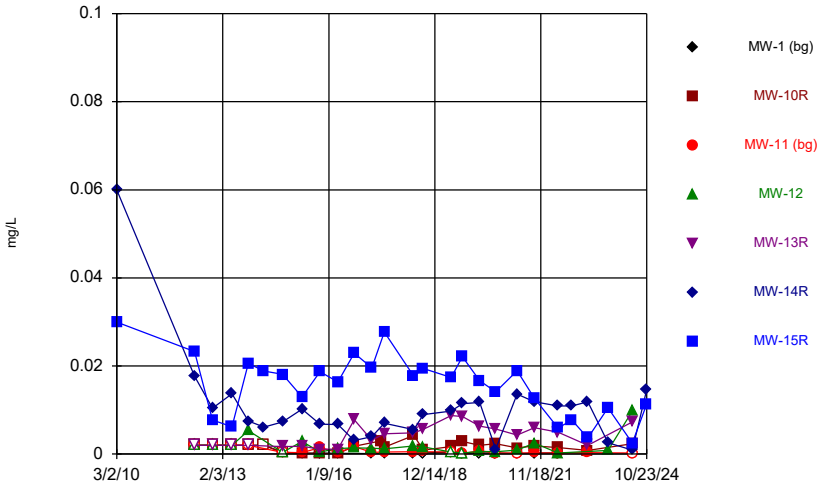
Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

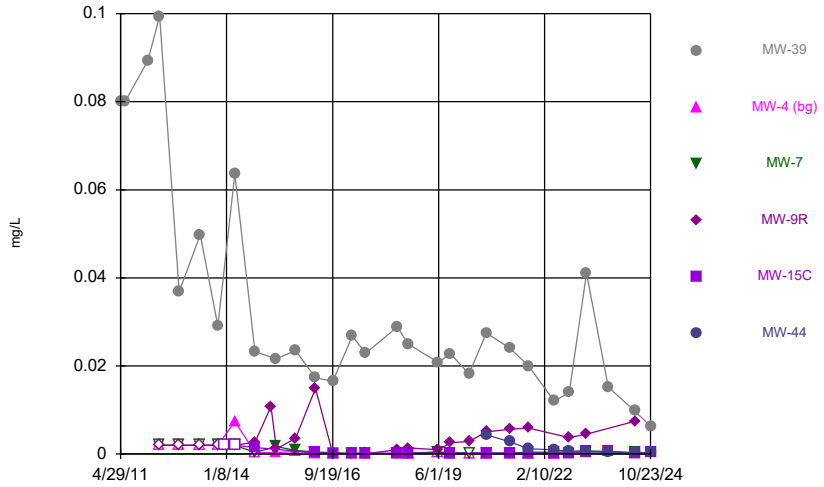
Time Series



Constituent: Cobalt Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

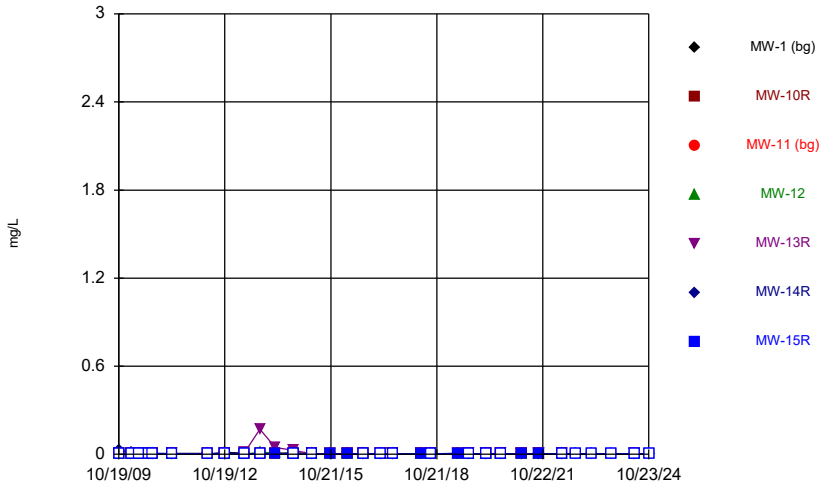
Time Series



Constituent: Cobalt Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

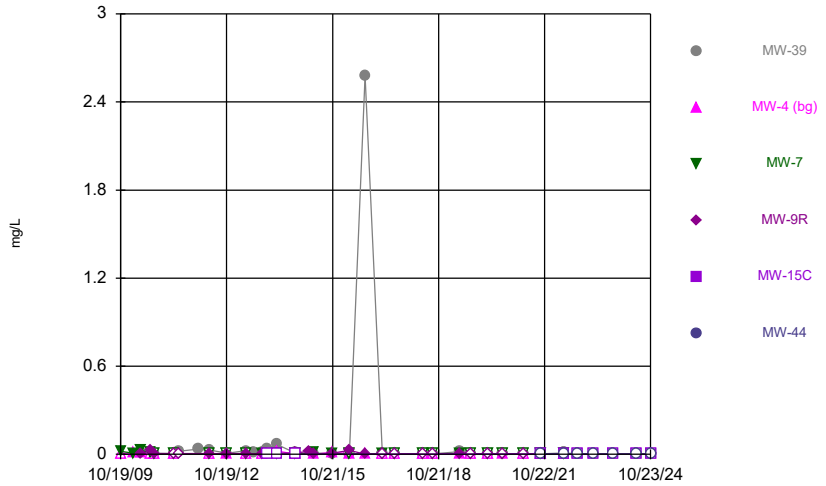
Time Series



Constituent: Copper Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

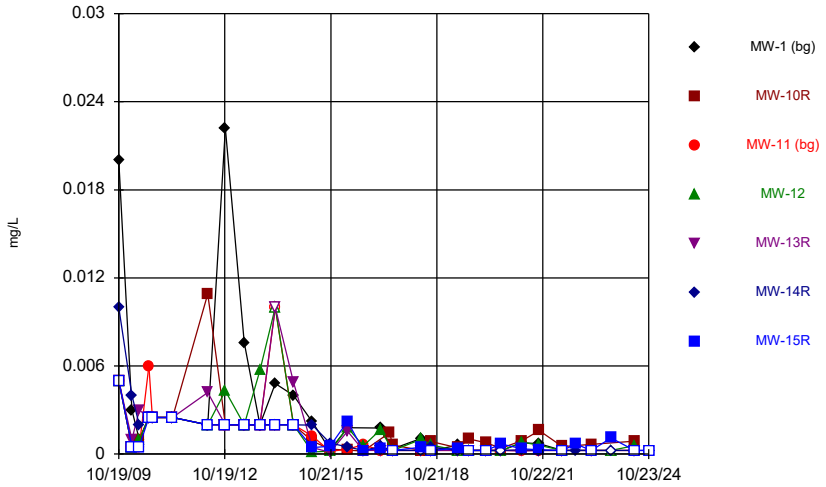
Time Series



Constituent: Copper Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

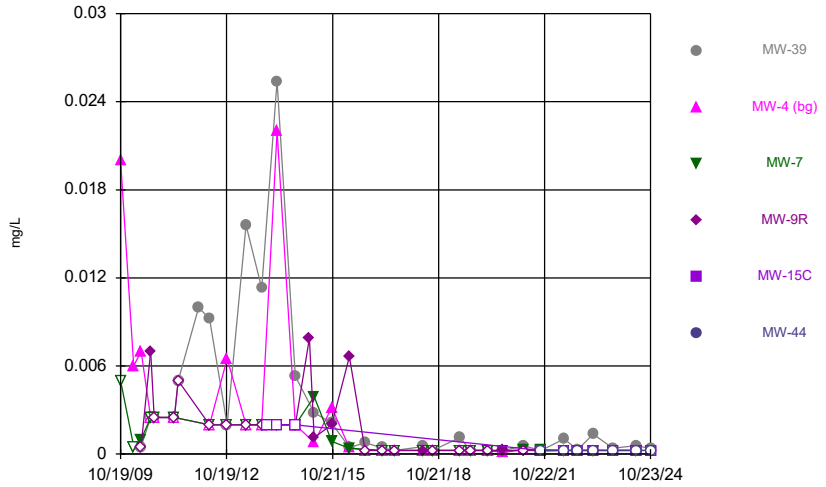
Time Series



Constituent: Lead Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

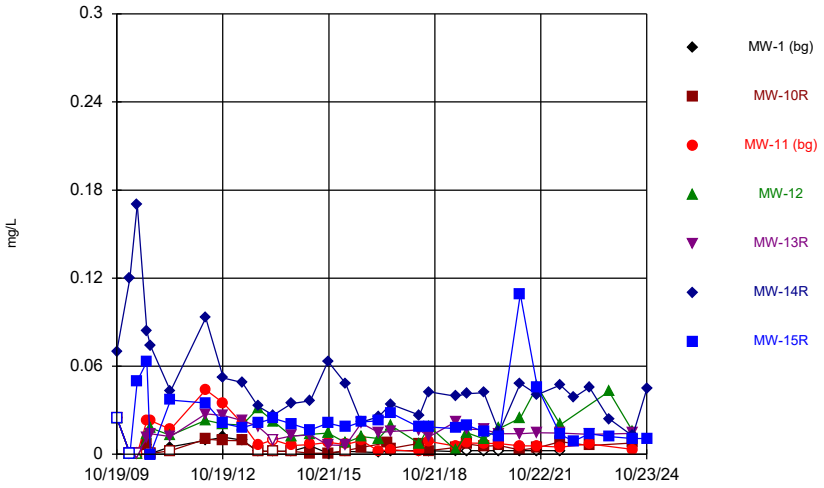
Time Series



Constituent: Lead Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

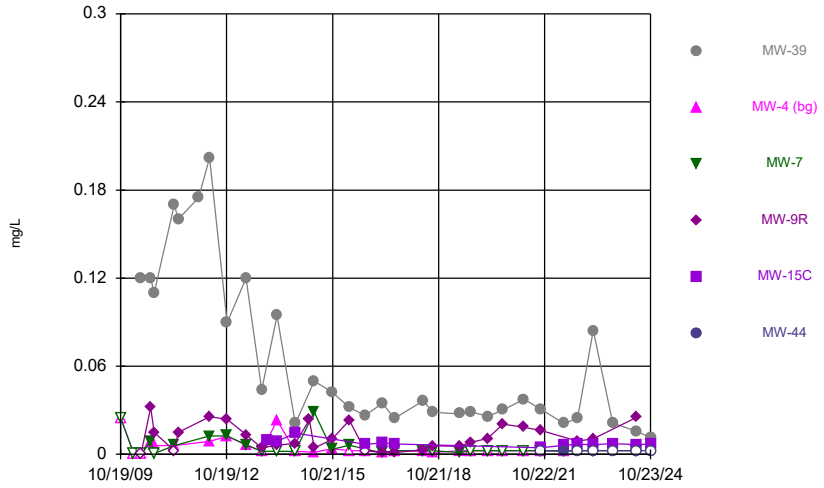
Time Series



Constituent: Nickel Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

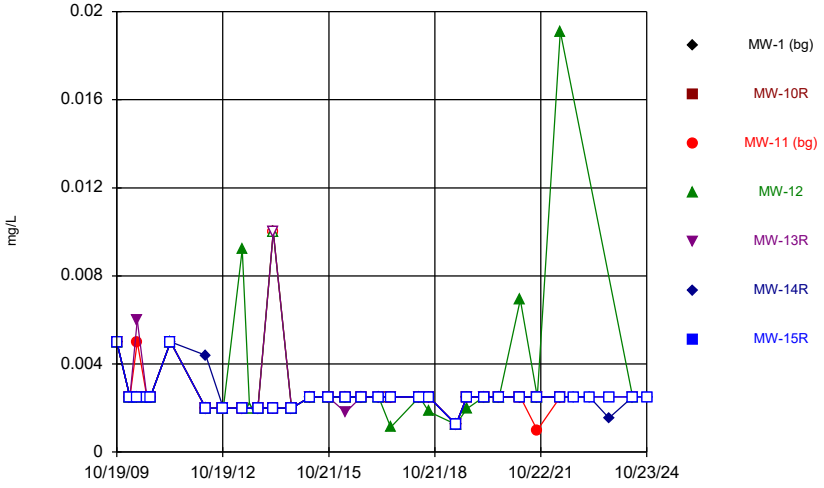
Time Series



Constituent: Nickel Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

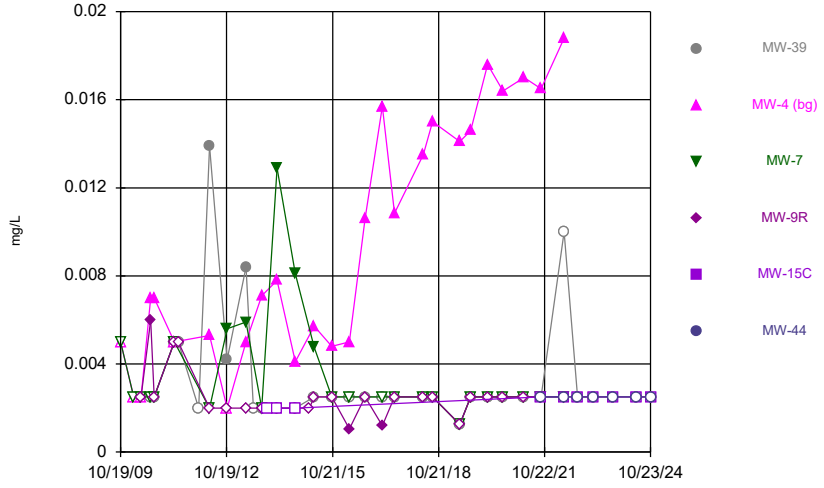
Time Series



Constituent: Selenium Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

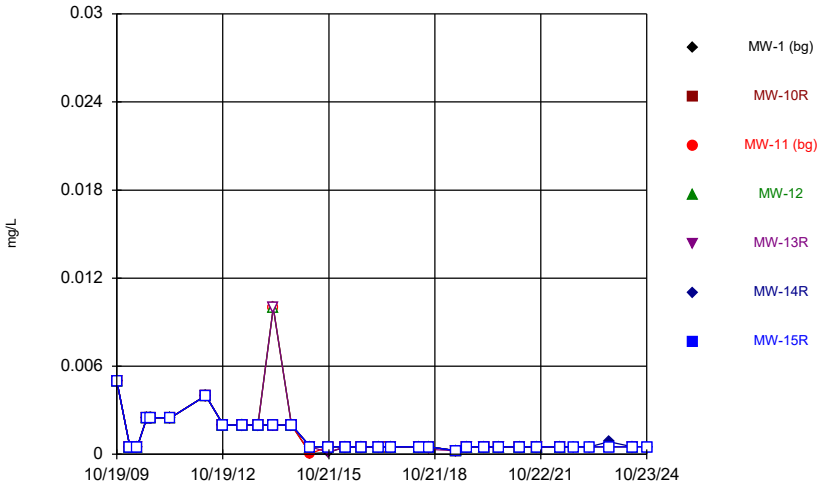
Time Series



Constituent: Selenium Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

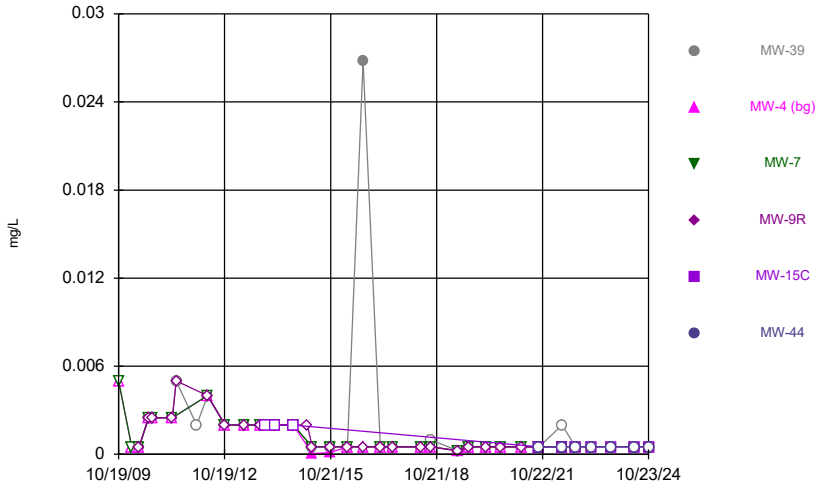
Time Series



Constituent: Silver Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

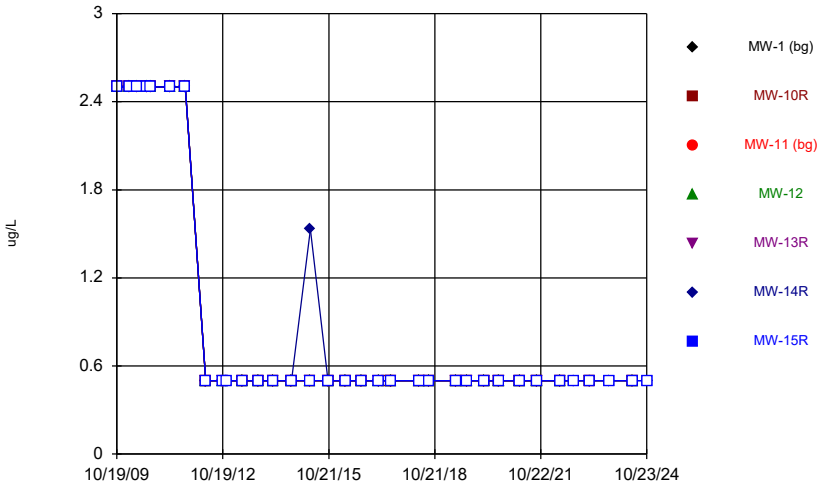
Time Series



Constituent: Silver Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

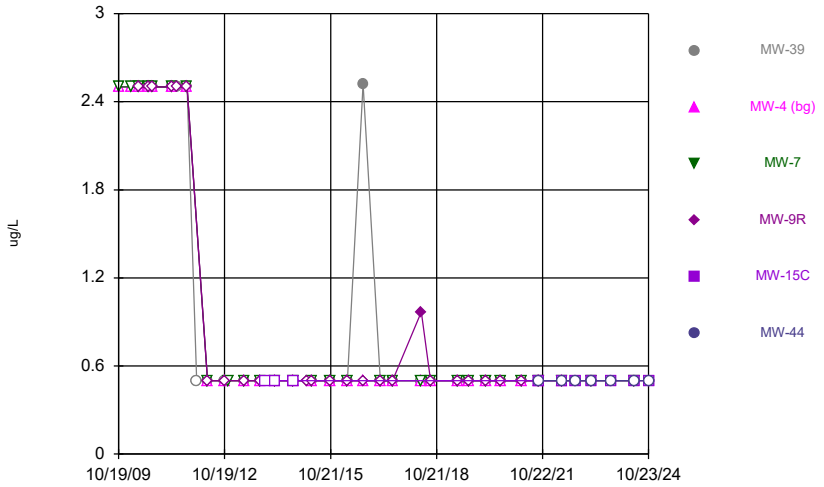
Time Series



Constituent: Styrene Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

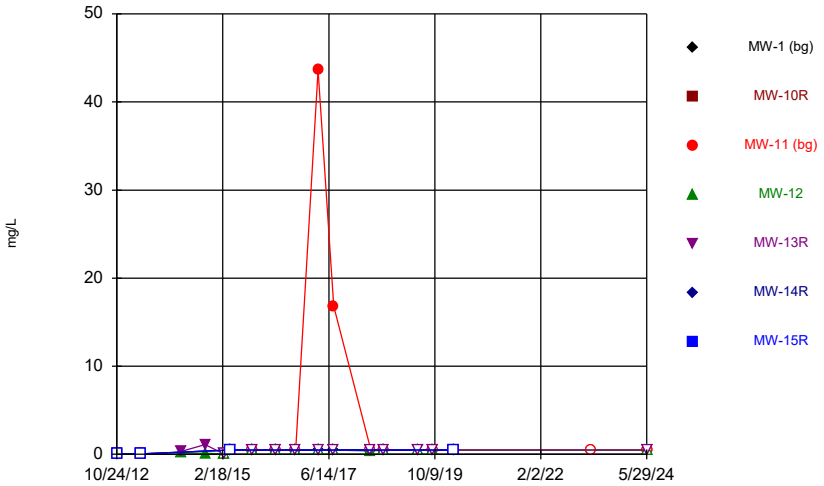
Time Series



Constituent: Styrene Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

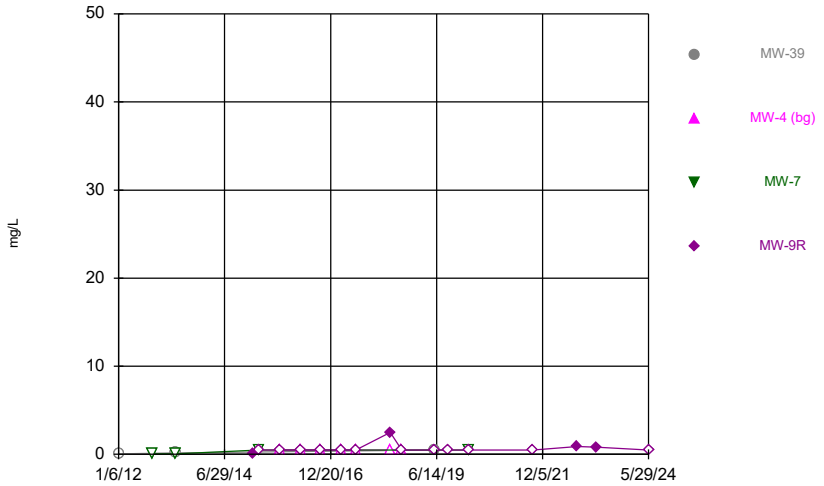
Time Series



Constituent: Sulfide Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

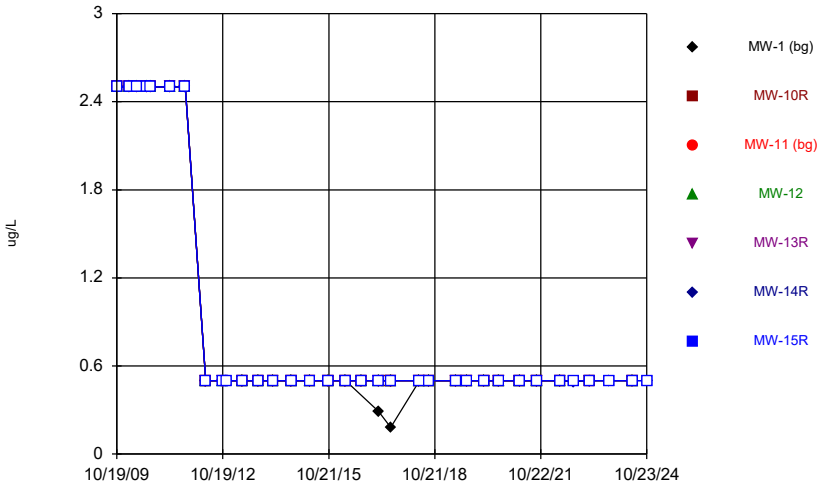
Time Series



Constituent: Sulfide Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

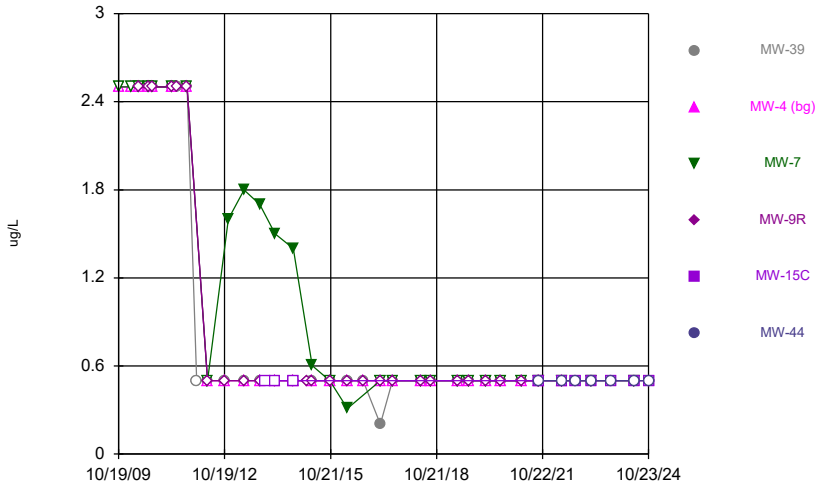
Time Series



Constituent: Tetrachloroethene Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

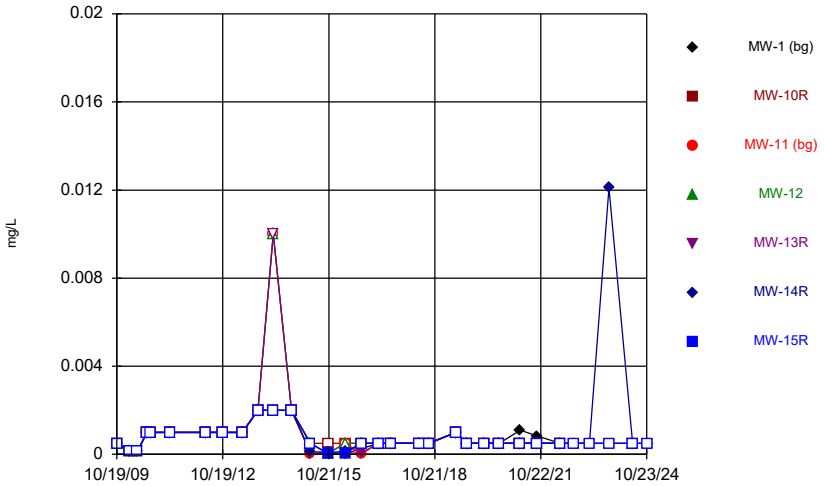
Time Series



Constituent: Tetrachloroethene Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

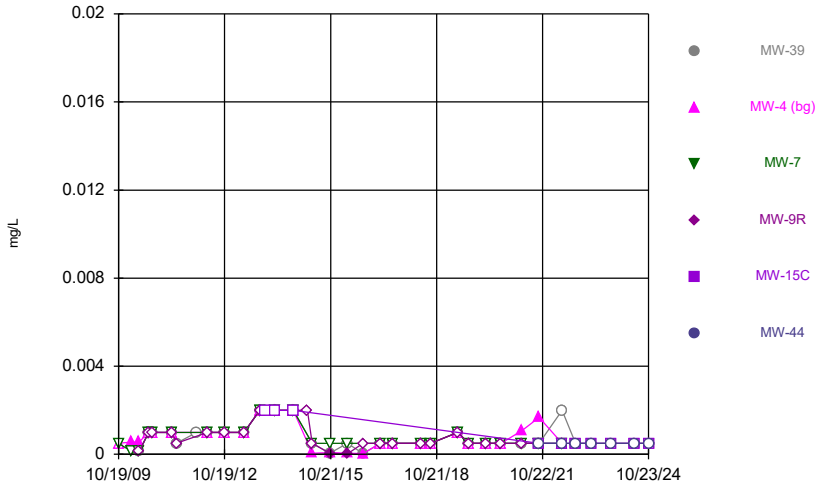
Time Series



Constituent: Thallium Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

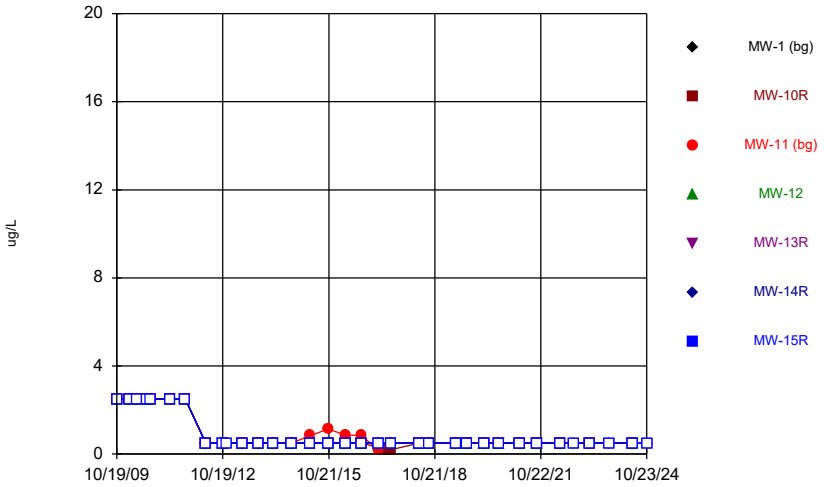
Time Series



Constituent: Thallium Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

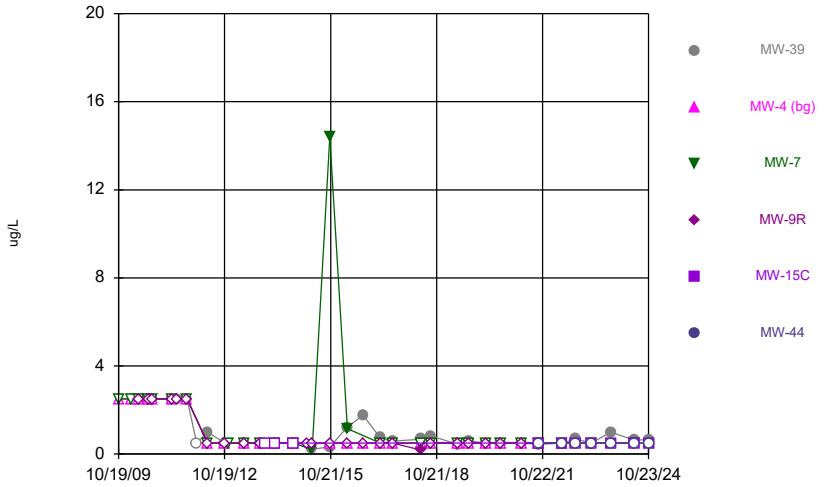
Time Series



Constituent: Toluene Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

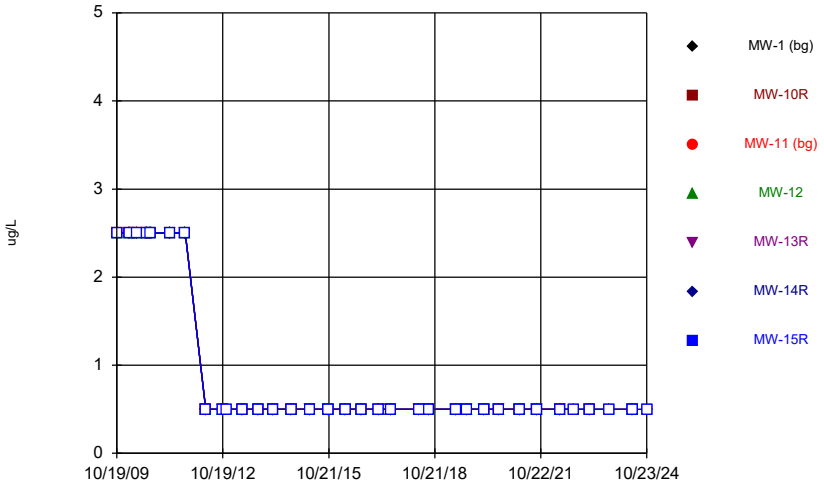
Time Series



Constituent: Toluene Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

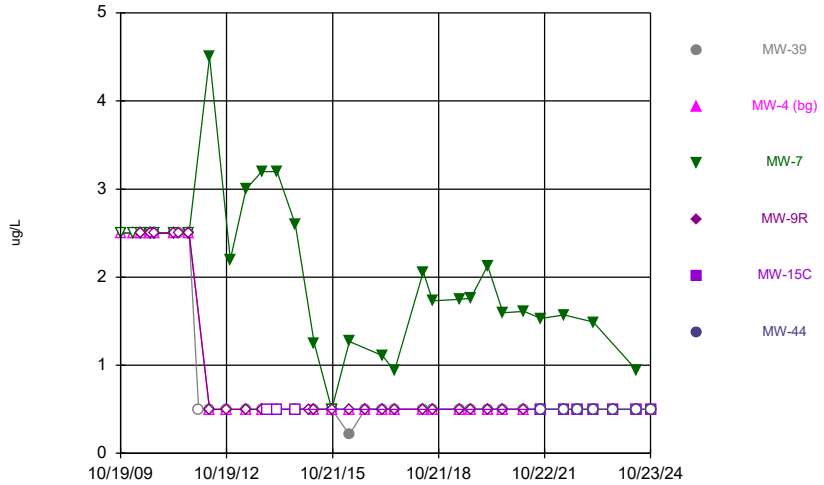
Time Series



Constituent: Trichloroethene Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

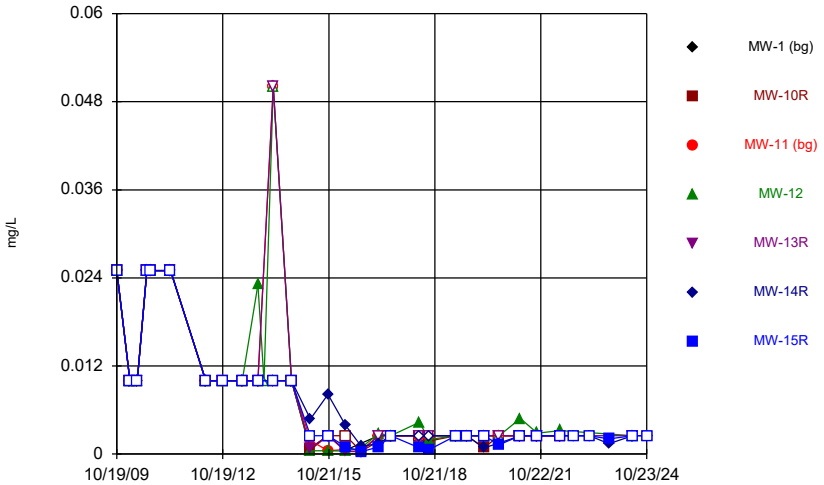
Time Series



Constituent: Trichloroethene Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

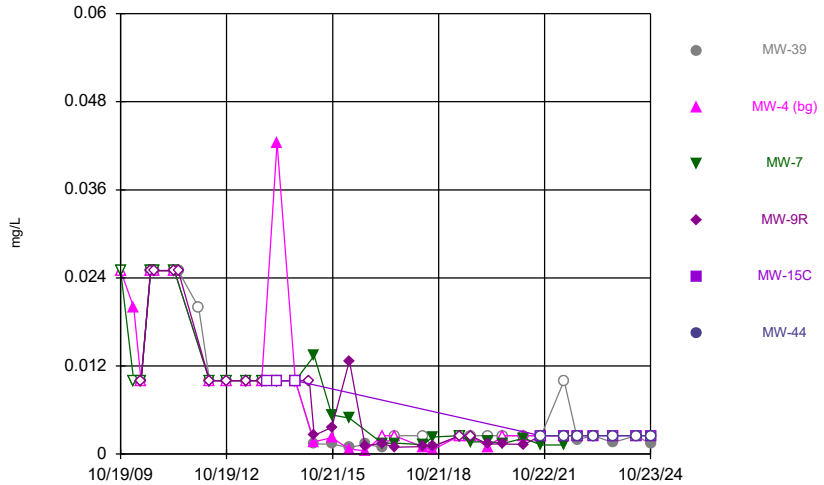
Time Series



Constituent: Vanadium Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

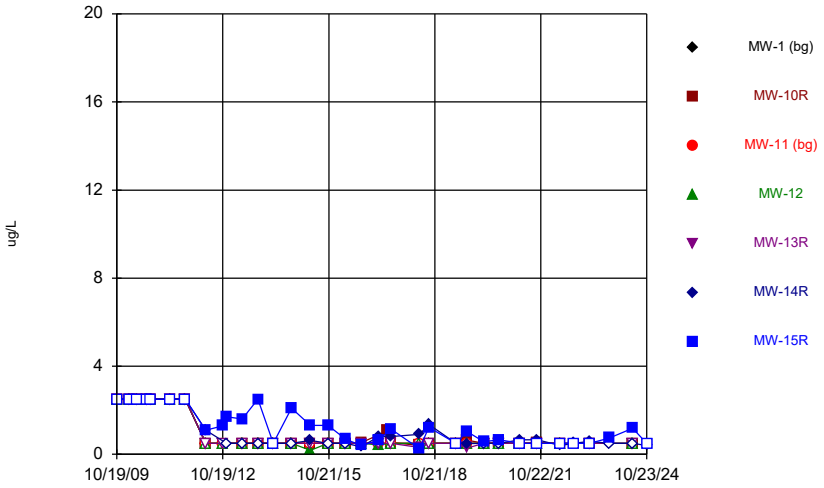
Time Series



Constituent: Vanadium Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

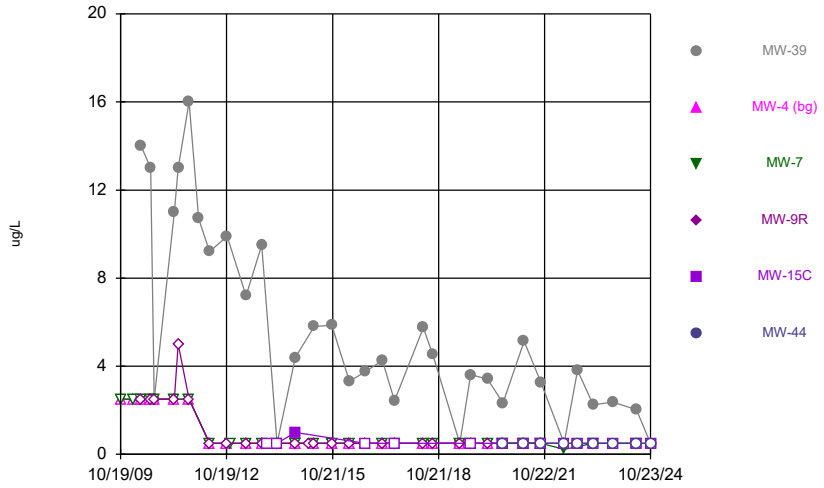
Time Series



Constituent: Vinyl Chloride Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

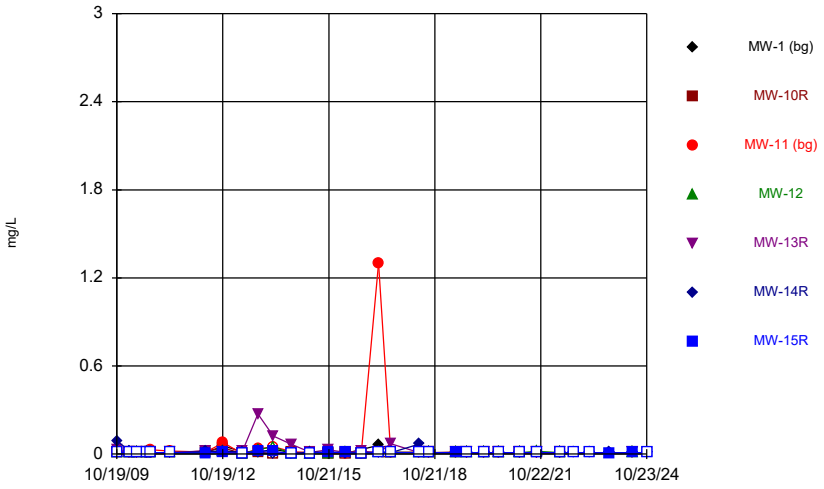
Time Series



Constituent: Vinyl Chloride Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

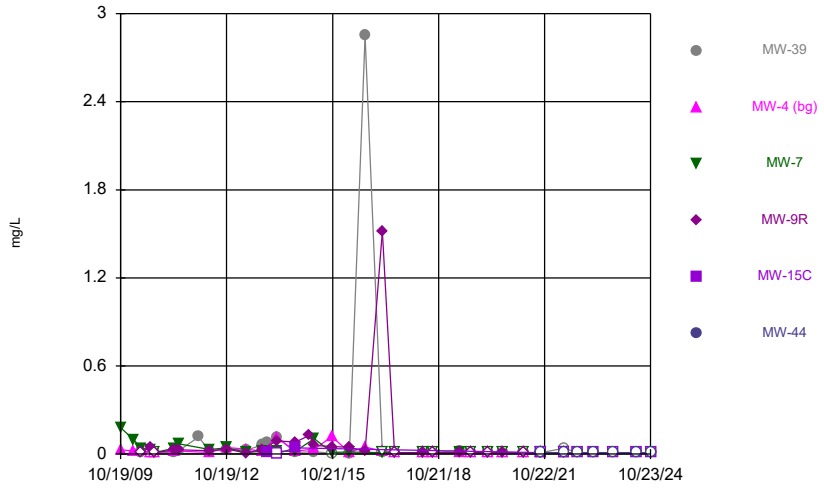
Time Series



Constituent: Zinc Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Zinc Analysis Run 2/28/2025 10:00 AM View: 2024AWQR-Time_Series
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Outlier Test Summary Table and Graphs – Open MSWLF Unit

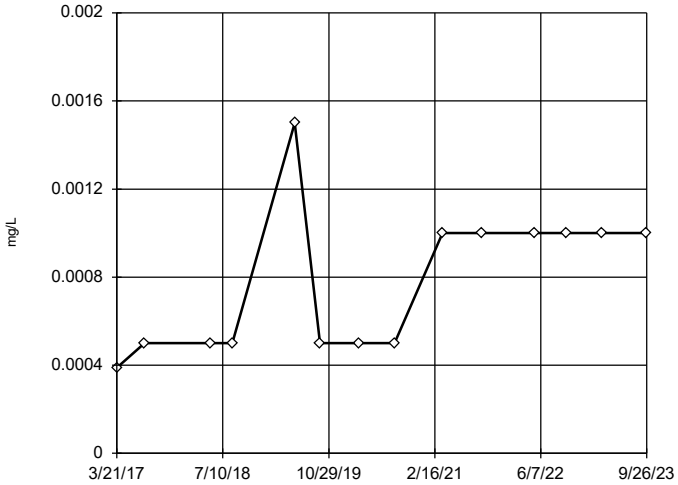
MW-27 BG Outlier Analysis

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master Printed 2/27/2025, 5:40 PM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Antimony (mg/L)	MW-27	No	n/a	n/a	OH	NaN	14	0.0007777	0.000332	n/a	n/a
Arsenic (mg/L)	MW-27	No	n/a	n/a	OH	NaN	14	0.0009589	0.0001537	n/a	n/a
Barium (mg/L)	MW-27	No	n/a	n/a	EPA/OH	0.05	14	0.0342	0.001669	normal	ShapiroWilk
Chromium (mg/L)	MW-27	No	n/a	n/a	OH	NaN	14	0.002252	0.0006316	n/a	n/a
Cobalt (mg/L)	**MW-27**	**Yes**	**0.0005**	**5/29/2019**	**NP (nrm)/OH**	**NaN**	**14**	**0.0002355**	**0.0001007**	**unknown**	**ShapiroWilk**
Copper (mg/L)	MW-27	No	n/a	n/a	OH	NaN	14	0.002394	0.0003955	n/a	n/a
Lead (mg/L)	MW-27	No	n/a	n/a	OH	NaN	14	0.0002492	0.00000294	n/a	n/a
Vanadium (mg/L)	MW-27	No	n/a	n/a	NP (nrm)/OH	NaN	14	0.001883	0.0007664	unknown	ShapiroWilk

Ohio EPA 0715 Outlier Algorithm

MW-27



n = 14

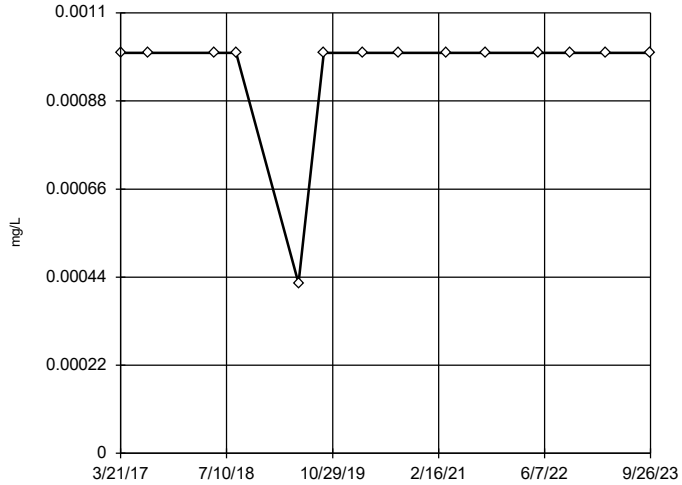
No statistical outliers.

Constituent: Antimony Analysis Run 2/27/2025 5:37 PM View: 2024AWQR-MW-27_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm

MW-27



n = 14

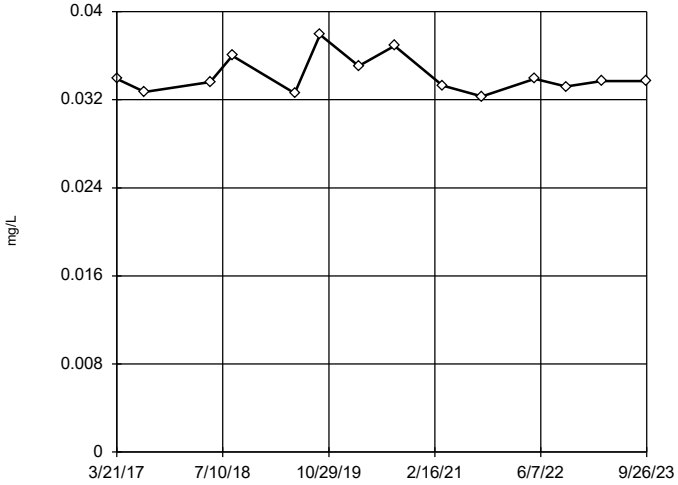
No statistical outliers.

Constituent: Arsenic Analysis Run 2/27/2025 5:37 PM View: 2024AWQR-MW-27_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

EPA Screening (suspected outliers for Dixon's Test)

MW-27



n = 14

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.0342, std. dev. 0.001669, critical Tn 2.371

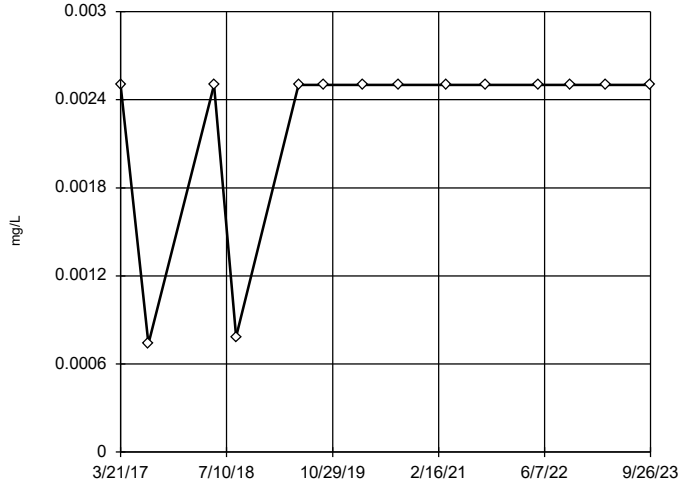
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8687
Critical = 0.825
The distribution was found to be normally distributed.

Constituent: Barium Analysis Run 2/27/2025 5:37 PM View: 2024AWQR-MW-27_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm

MW-27



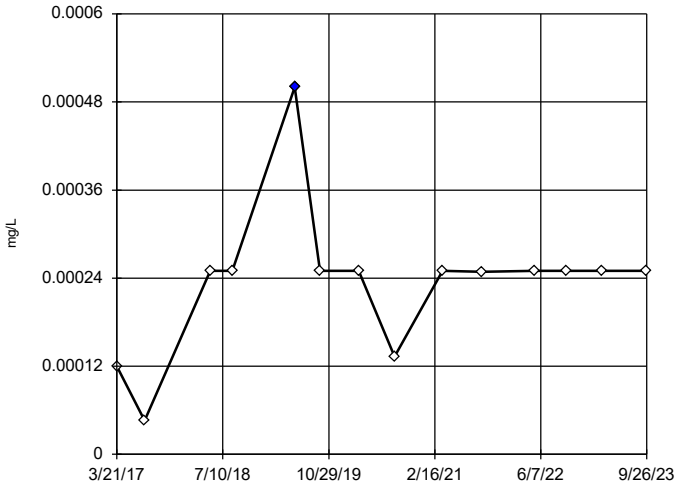
n = 14

No statistical outliers.

Constituent: Chromium Analysis Run 2/27/2025 5:37 PM View: 2024AWQR-MW-27_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm

MW-27



n = 14

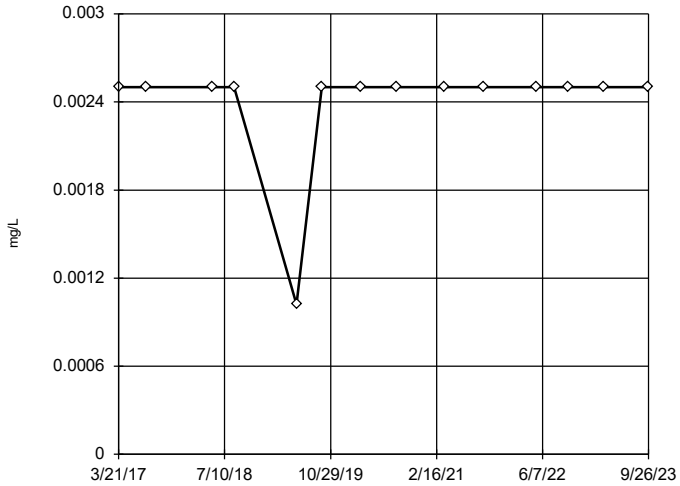
Outlier is drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.01 alpha level.

High cutoff = 0.0004278, low cutoff = 0.000013, based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 2/27/2025 5:37 PM View: 2024AWQR-MW-27_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Ohio EPA 0715 Outlier Algorithm

MW-27



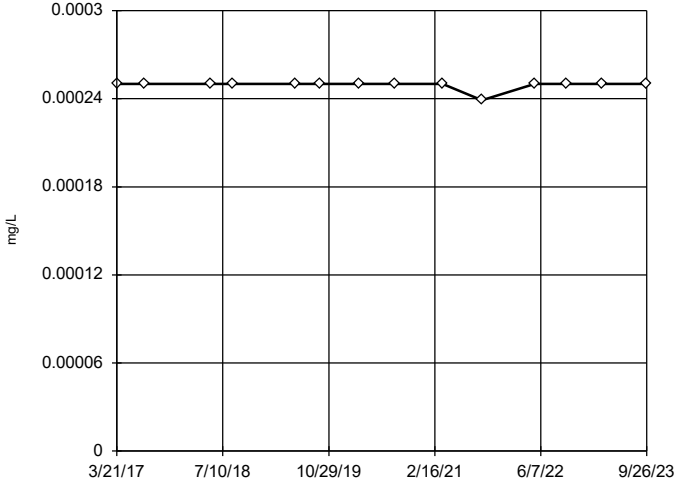
n = 14

No statistical outliers.

Constituent: Copper Analysis Run 2/27/2025 5:37 PM View: 2024AWQR-MW-27_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Ohio EPA 0715 Outlier Algorithm

MW-27



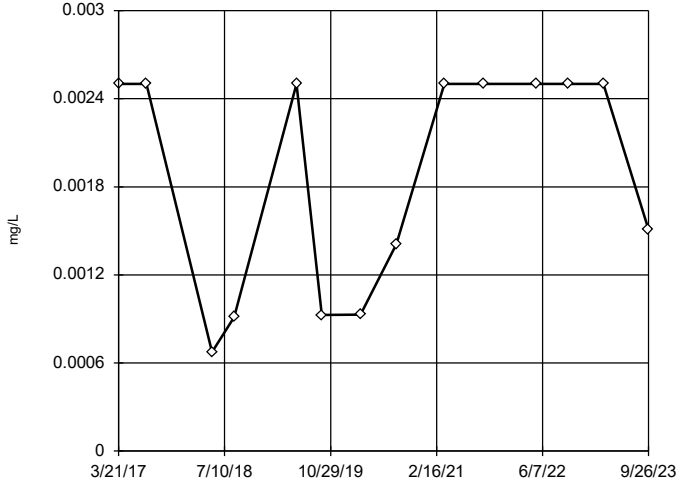
n = 14

No statistical outliers.

Constituent: Lead Analysis Run 2/27/2025 5:37 PM View: 2024AWQR-MW-27_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm

MW-27



n = 14

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.01 alpha level.

High cutoff = 0.007214, low cutoff = -0.003786, based on IQR multiplier of 3.

Constituent: Vanadium Analysis Run 2/27/2025 5:37 PM View: 2024AWQR-MW-27_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

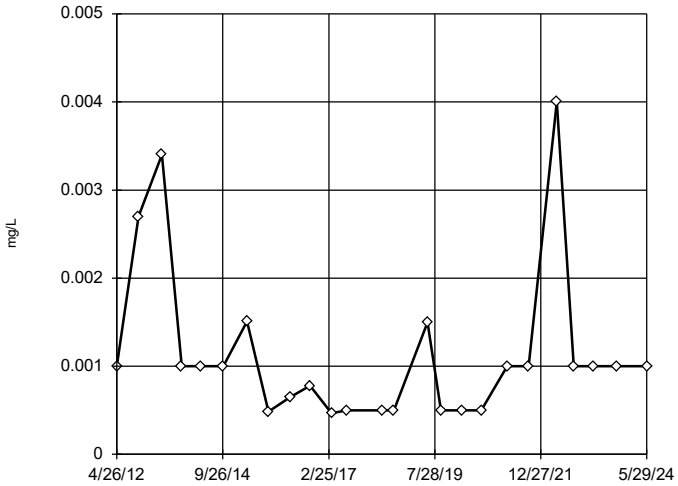
MW-35 BG Outlier Analysis

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master Printed 2/27/2025, 6:27 PM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Antimony (mg/L)	MW-35	No	n/a	n/a	NP (nrm)/OH	NaN	25	0.00114	0.0009105	unknown	ShapiroWilk
Arsenic (mg/L)	**MW-35**	**Yes**	**0.0116**	**10/24/2012**	**NP (nrm)/OH**	**NaN**	**28**	**0.003031**	**0.003335**	**unknown**	**ShapiroWilk**
Barium (mg/L)	**MW-35**	**Yes**	**0.1**	**5/20/2010**	**NP (nrm)/OH**	**NaN**	**28**	**0.03024**	**0.01767**	**unknown**	**ShapiroWilk**
Cadmium (mg/L)	MW-35	No	n/a	n/a	OH	NaN	28	0.0002061	0.0001388	n/a	n/a
Chromium (mg/L)	MW-35	No	n/a	n/a	OH	NaN	28	0.003023	0.001034	n/a	n/a
Cobalt (mg/L)	MW-35	No	n/a	n/a	EPA/OH	0.05	25	0.01373	0.01458	ln(x)	ShapiroWilk
Copper (mg/L)	**MW-35**	**Yes**	**0.0212,0.0102,0.01**	**7/28/2015,4/15/2015,5/10/2022**	**OH**	**NaN**	**29**	**0.003547**	**0.00395**	**n/a**	**n/a**
Lead (mg/L)	**MW-35**	**Yes**	**0.002,0.002,0.002,0.002,0.002,0.002,0.001**	**4/26/2012,10/24/2012,5/7/2013,10/18/2013,3/25/201**	**OH**	**NaN**	**28**	**0.0006802**	**0.0007193**	**n/a**	**n/a**
Nickel (mg/L)	**MW-35**	**Yes**	**0.227**	**10/24/2012**	**NP (nrm)/OH**	**NaN**	**28**	**0.05247**	**0.05564**	**unknown**	**ShapiroWilk**
Selenium (mg/L)	MW-35	No	n/a	n/a	OH	NaN	28	0.002362	0.0003146	n/a	n/a
Thallium (mg/L)	**MW-35**	**Yes**	**0.002,0.002,0.002,0.002**	**10/18/2013,3/25/2014,9/30/2014,5/10/2022**	**OH**	**NaN**	**28**	**0.0007029**	**0.0006009**	**n/a**	**n/a**
Vanadium (mg/L)	**MW-35**	**Yes**	**0.01,0.01,0.01,0.01,0.01,0.01,0.01,0.01,0.01,0.01**	**5/20/2010,10/1/2010,4/29/2011,4/26/2012,10/24/201**	**OH**	**NaN**	**28**	**0.005259**	**0.003698**	**n/a**	**n/a**
Zinc (mg/L)	**MW-35**	**Yes**	**0.147,0.04,0.04**	**9/23/2016,10/19/2009,5/10/2022**	**OH**	**NaN**	**29**	**0.01636**	**0.02639**	**n/a**	**n/a**

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm

MW-35



n = 25

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 both the lower and upper quartiles represent reporting limits.

Constituent: Antimony Analysis Run 2/27/2025 6:22 PM View: 2024AWQR-MW-35_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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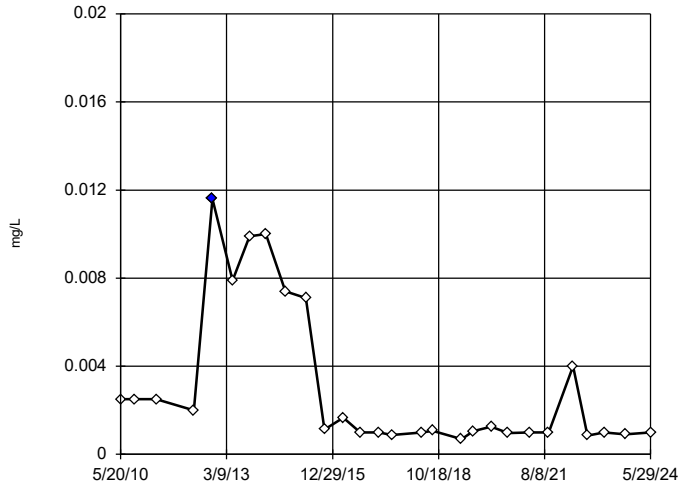
Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm

MW-35



n = 28

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 = 0.01, low cutoff = -0.00575, based on IQR multiplier of 3.

Constituent: Arsenic Analysis Run 2/27/2025 6:22 PM View: 2024AWQR-MW-35_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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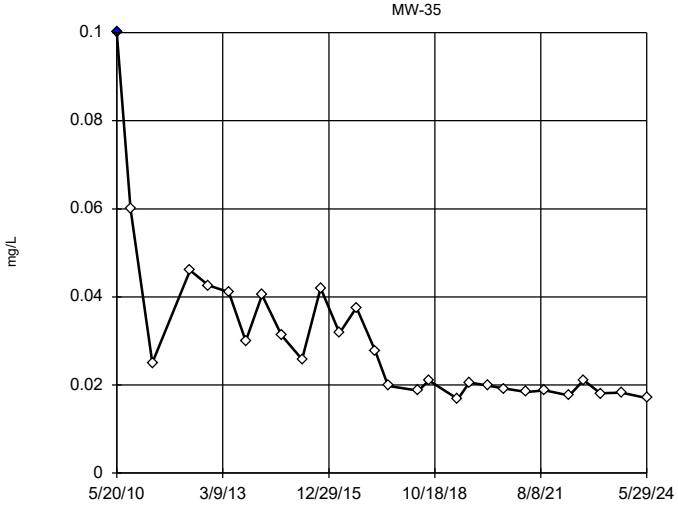
Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm

MW-35



n = 28

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.

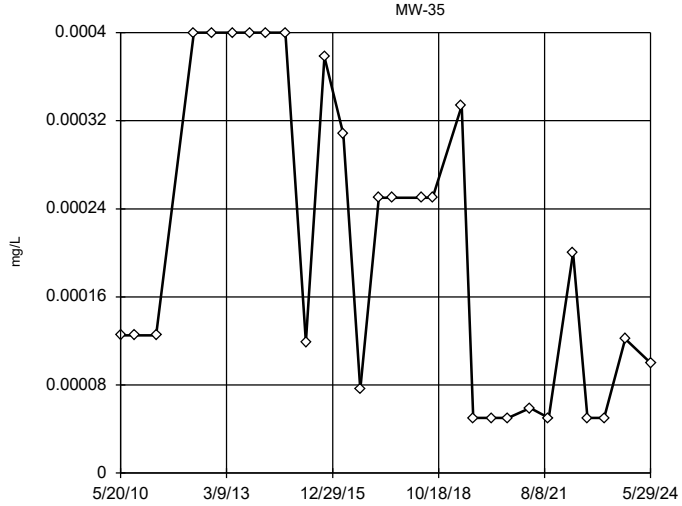
High cutoff = 0.09975, low cutoff = -0.042, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 2/27/2025 6:22 PM View: 2024AWQR-MW-35_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm

MW-35



n = 28

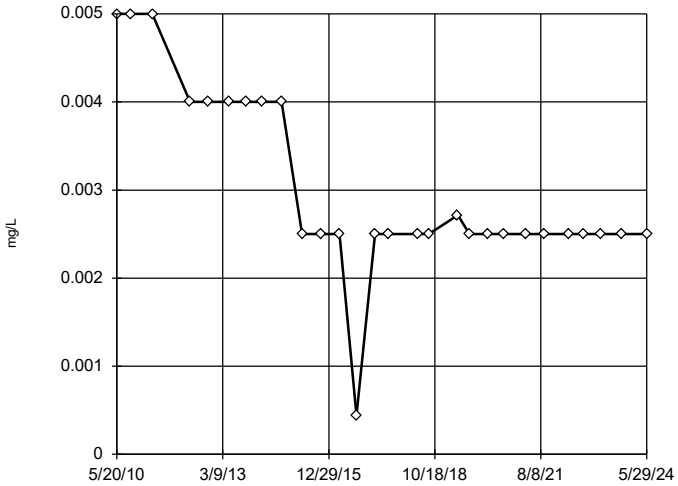
No statistical outliers.

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8641
Critical = 0.894
The distribution was found to be normally distributed.

Constituent: Cadmium Analysis Run 2/27/2025 6:22 PM View: 2024AWQR-MW-35_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Ohio EPA 0715 Outlier Algorithm

MW-35



n = 28

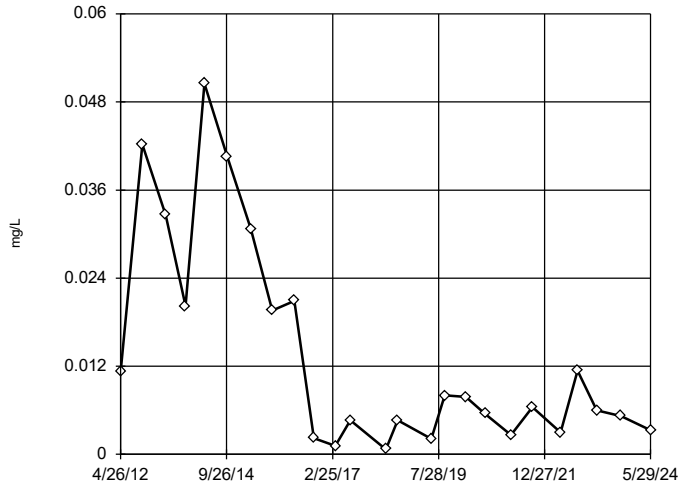
No statistical outliers.

Constituent: Chromium Analysis Run 2/27/2025 6:22 PM View: 2024AWQR-MW-35_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

EPA Screening (suspected outliers for Rosner's Test)

MW-35



n = 25

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.01373, std. dev. 0.01458, critical Tn 2.663

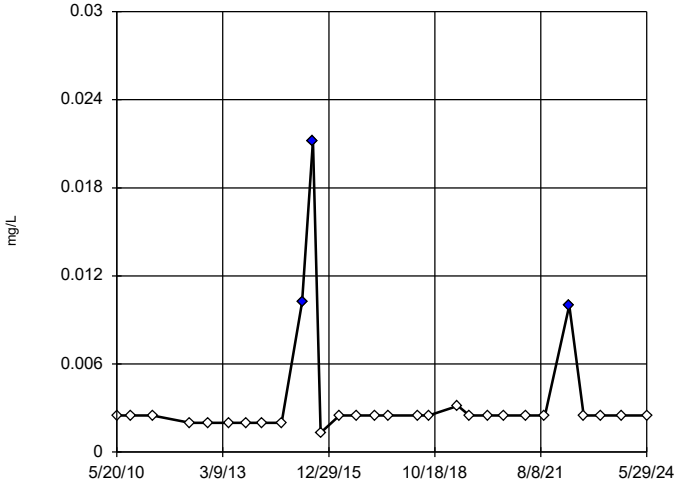
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.968
Critical = 0.888 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Cobalt Analysis Run 2/27/2025 6:22 PM View: 2024AWQR-MW-35_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm

MW-35



n = 29

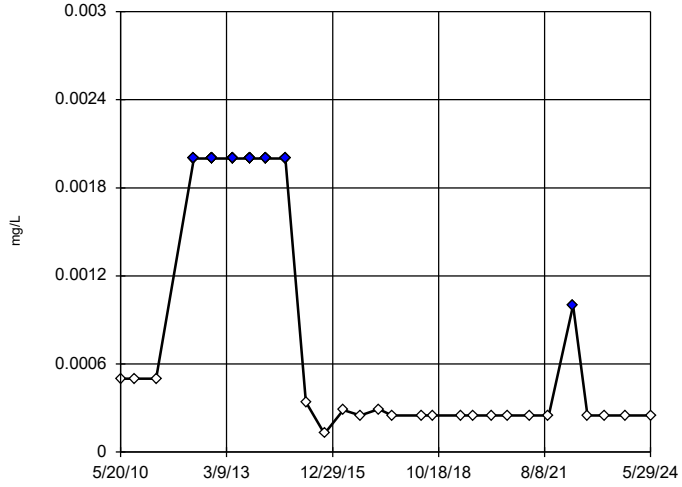
Statistical outliers are drawn as solid.
Outliers per Ohio method.

Constituent: Copper Analysis Run 2/27/2025 6:22 PM View: 2024AWQR-MW-35_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm

MW-35



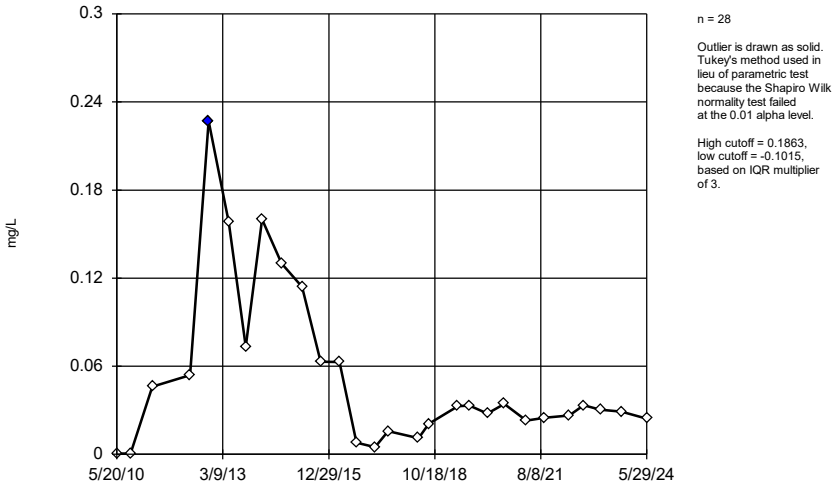
n = 28

Statistical outliers are drawn as solid.
Outliers per Ohio method.

Constituent: Lead Analysis Run 2/27/2025 6:22 PM View: 2024AWQR-MW-35_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm

MW-35



n = 28

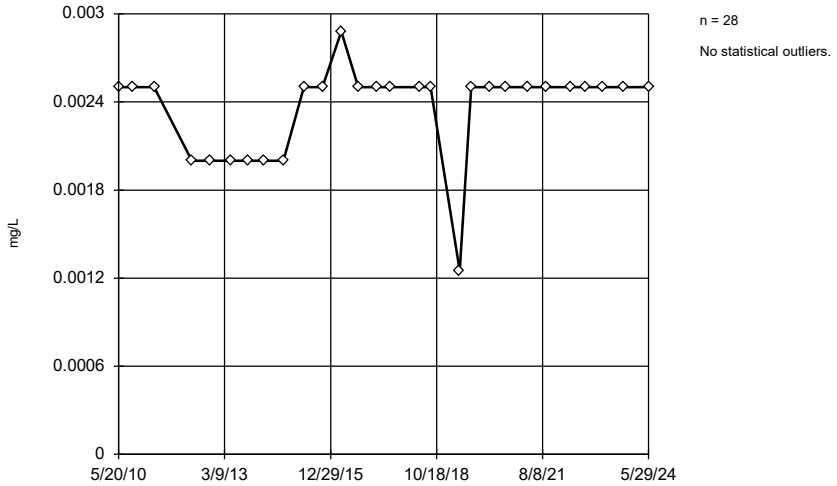
Outlier is drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.01 alpha level.

High cutoff = 0.1863, low cutoff = -0.1015, based on IQR multiplier of 3.

Constituent: Nickel Analysis Run 2/27/2025 6:22 PM View: 2024AWQR-MW-35_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Ohio EPA 0715 Outlier Algorithm

MW-35



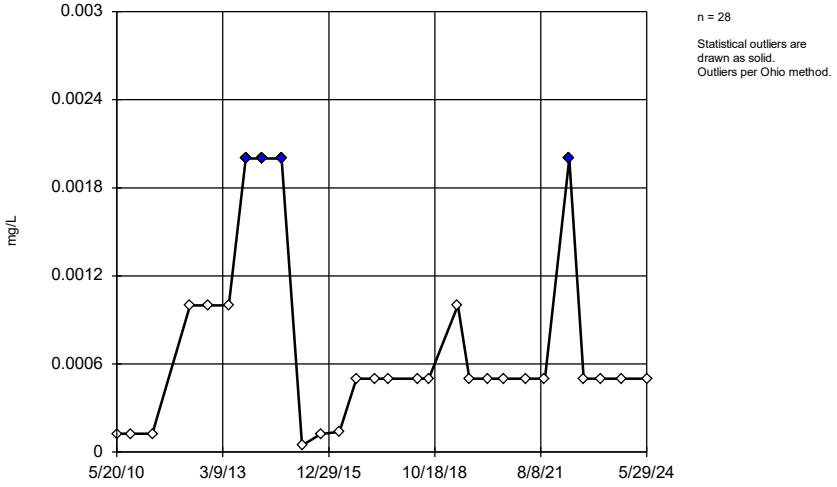
n = 28

No statistical outliers.

Constituent: Selenium Analysis Run 2/27/2025 6:22 PM View: 2024AWQR-MW-35_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Ohio EPA 0715 Outlier Algorithm

MW-35



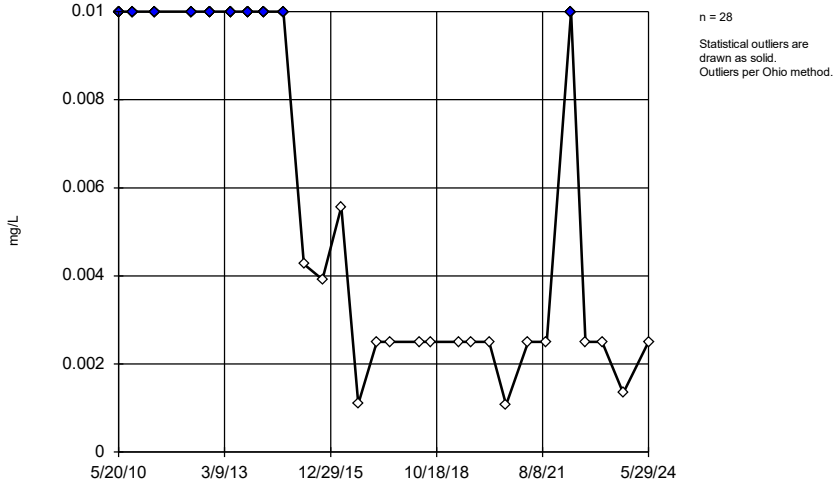
n = 28

Statistical outliers are drawn as solid.
Outliers per Ohio method.

Constituent: Thallium Analysis Run 2/27/2025 6:22 PM View: 2024AWQR-MW-35_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Ohio EPA 0715 Outlier Algorithm

MW-35



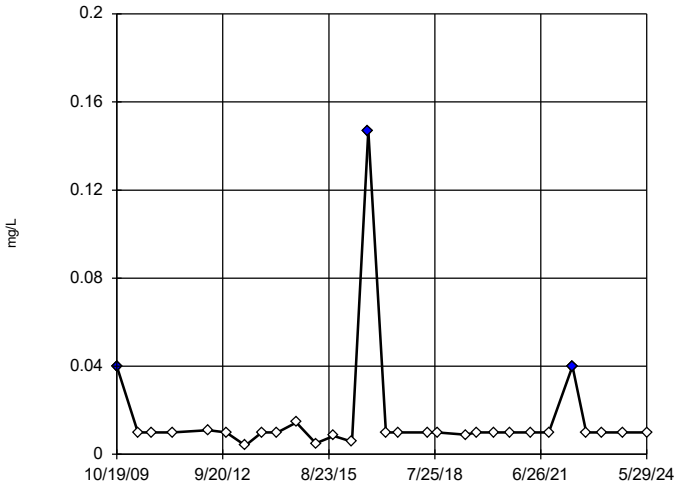
n = 28

Statistical outliers are drawn as solid.
Outliers per Ohio method.

Constituent: Vanadium Analysis Run 2/27/2025 6:22 PM View: 2024AWQR-MW-35_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Ohio EPA 0715 Outlier Algorithm

MW-35



n = 29

Statistical outliers are drawn as solid.
Outliers per Ohio method.

Constituent: Zinc Analysis Run 2/27/2025 6:22 PM View: 2024AWQR-MW-35_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

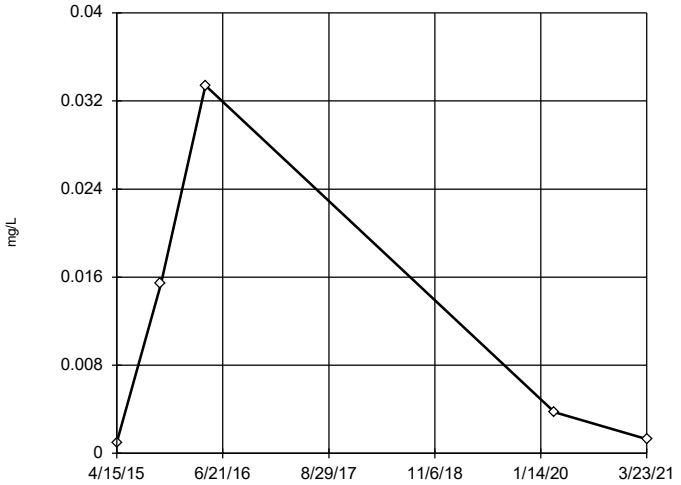
GWD-2 BG Outlier Analysis

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master Printed 2/26/2025, 2:19 PM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Arsenic (mg/L)	GWD-2	No	n/a	n/a	EPA/OH	0.05	5	0.01097	0.01386	normal	ShapiroWilk
Barium (mg/L)	GWD-2	No	n/a	n/a	EPA/OH	0.05	5	0.914	0.9026	normal	ShapiroWilk
Beryllium (mg/L)	GWD-2	No	n/a	n/a	OH	NaN	5	0.0004152	0.0001896	n/a	n/a
Cadmium (mg/L)	GWD-2	No	n/a	n/a	EPA/OH	0.05	5	0.0006044	0.000537	normal	ShapiroWilk
Chromium (mg/L)	GWD-2	No	n/a	n/a	OH	NaN	5	0.002162	0.0007562	n/a	n/a
Cobalt (mg/L)	GWD-2	No	n/a	n/a	Dixon/OH	0.01	5	0.005806	0.00575	normal	ShapiroWilk
Copper (mg/L)	GWD-2	No	n/a	n/a	EPA/OH	0.05	5	0.002621	0.001532	normal	ShapiroWilk
Lead (mg/L)	GWD-2	No	n/a	n/a	EPA/OH	0.05	5	0.0007414	0.0006419	normal	ShapiroWilk
Nickel (mg/L)	GWD-2	No	n/a	n/a	Dixon/OH	0.01	5	0.01751	0.009664	normal	ShapiroWilk
Selenium (mg/L)	GWD-2	No	n/a	n/a	EPA/OH	0.05	5	0.00187	0.0008824	normal	ShapiroWilk
Vanadium (mg/L)	GWD-2	No	n/a	n/a	Dixon/OH	0.01	5	0.002145	0.0009602	normal	ShapiroWilk
Zinc (mg/L)	GWD-2	No	n/a	n/a	EPA/OH	0.05	5	0.007648	0.002717	normal	ShapiroWilk

EPA Screening (suspected outliers for Dixon's Test)

GWD-2



n = 5

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.01097, std. dev. 0.01386, critical Tn 1.672

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8097
Critical = 0.686
The distribution was found to be normally distributed.

Constituent: Arsenic Analysis Run 2/26/2025 2:14 PM View: 2024AWQR-GWD-2_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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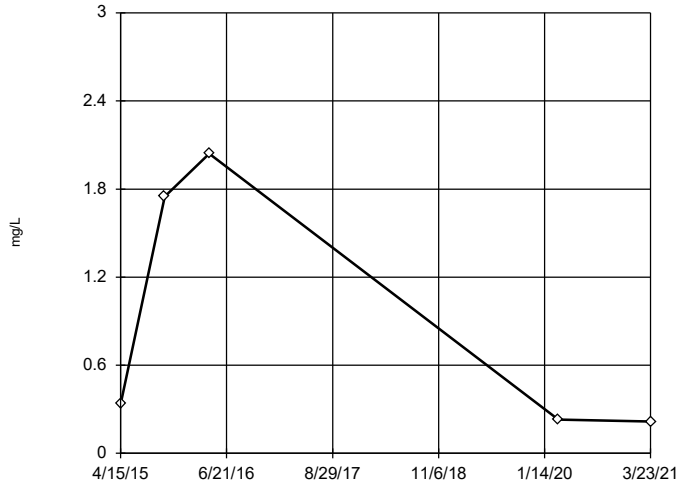
EPA Screening (suspected outliers for Dixon's Test)

GWD-2



n = 5

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.914, std. dev. 0.9026, critical Tn 1.672

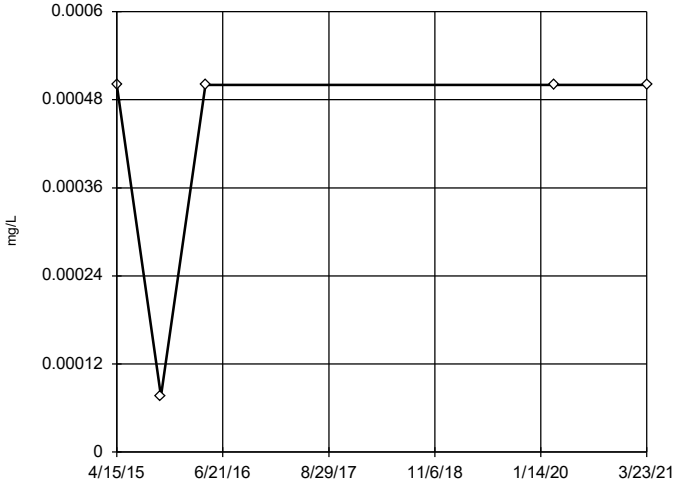
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.7654
Critical = 0.686
The distribution was found to be normally distributed.

Constituent: Barium Analysis Run 2/26/2025 2:14 PM View: 2024AWQR-GWD-2_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm

GWD-2



n = 5

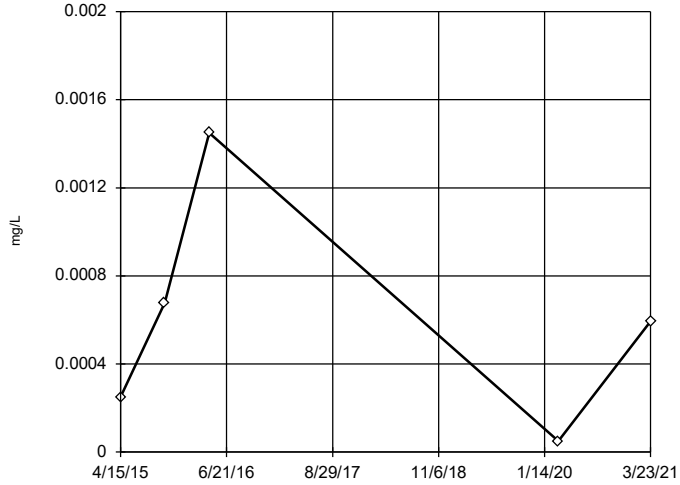
No statistical outliers.

Constituent: Beryllium Analysis Run 2/26/2025 2:14 PM View: 2024AWQR-GWD-2_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

EPA Screening (suspected outliers for Dixon's Test)

GWD-2



n = 5

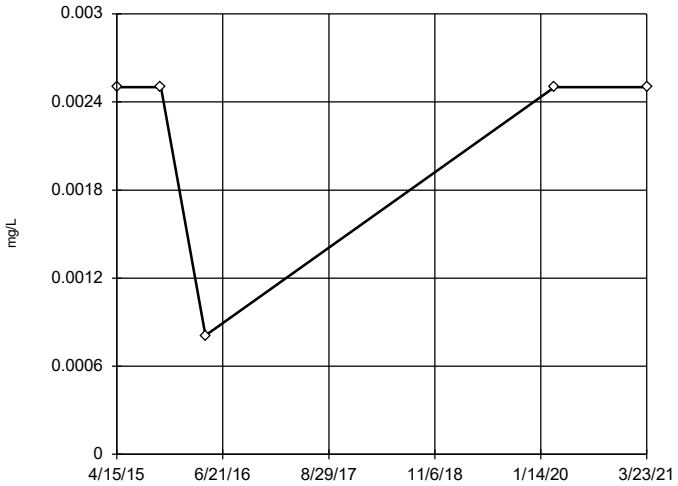
Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.0006044, std. dev. 0.000537, critical Tn 1.672

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9264
Critical = 0.686
The distribution was found to be normally distributed.

Constituent: Cadmium Analysis Run 2/26/2025 2:14 PM View: 2024AWQR-GWD-2_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Ohio EPA 0715 Outlier Algorithm

GWD-2



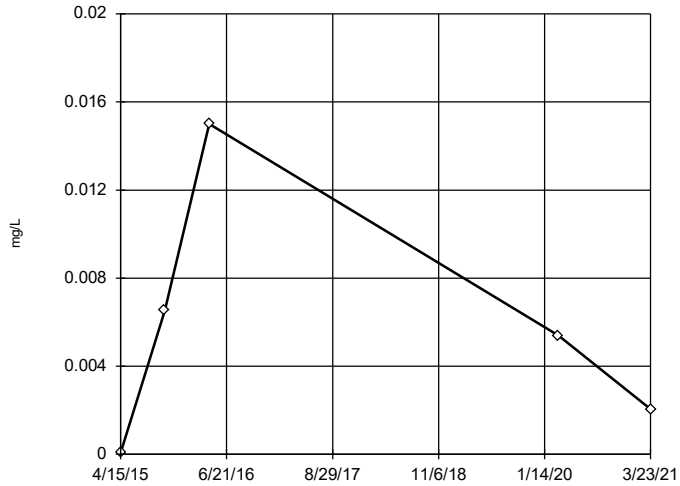
n = 5

No statistical outliers.

Constituent: Chromium Analysis Run 2/26/2025 2:14 PM View: 2024AWQR-GWD-2_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Dixon's Outlier Test / Ohio EPA 0715 Outlier Algorithm

GWD-2



n = 5

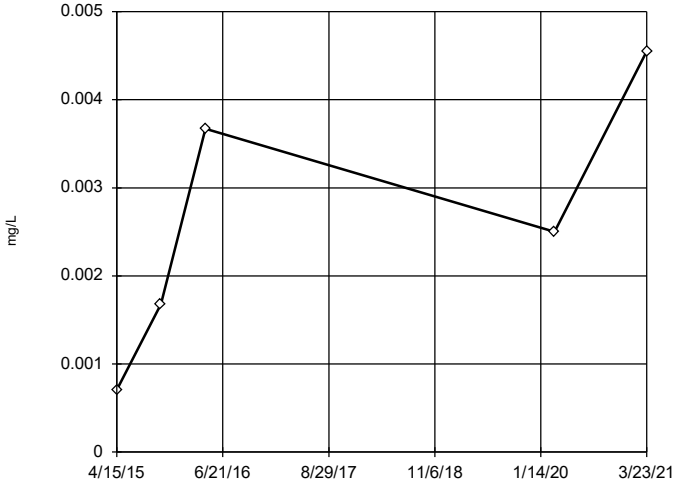
No statistical outliers.
Testing for 1 low outlier.
Mean = 0.005806.
Std. Dev. = 0.00575.
6.8E-05 (J): c = 0.1327
tabl = 0.78.
Alpha = 0.01.

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9068
Critical = 0.687
The distribution was found to be normally distrib-uted.

Constituent: Cobalt Analysis Run 2/26/2025 2:14 PM View: 2024AWQR-GWD-2_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

EPA Screening (suspected outliers for Dixon's Test)

GWD-2



n = 5

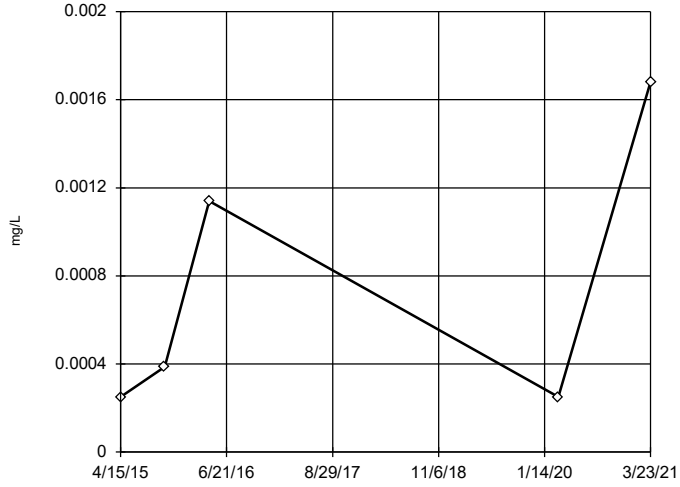
Dixon's will not be run.
No suspect values identi-fied or unable to estab-lish suspect values.
Ohio method in use.
Mean 0.002621, std. dev. 0.001532, critical Tn 1.672

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.981
Critical = 0.686
The distribution was found to be normally distrib-uted.

Constituent: Copper Analysis Run 2/26/2025 2:14 PM View: 2024AWQR-GWD-2_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

EPA Screening (suspected outliers for Dixon's Test)

GWD-2



n = 5

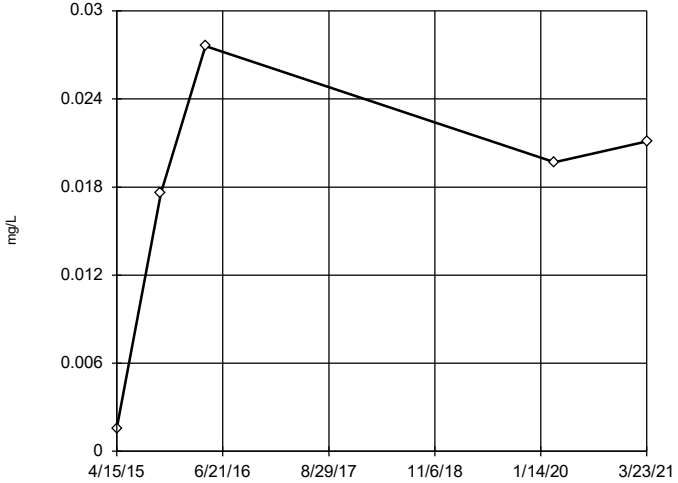
Dixon's will not be run.
No suspect values identi-fied or unable to estab-lish suspect values.
Ohio method in use.
Mean 0.0007414, std. dev. 0.0006419, critical Tn 1.672

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8236
Critical = 0.686
The distribution was found to be normally distrib-uted.

Constituent: Lead Analysis Run 2/26/2025 2:14 PM View: 2024AWQR-GWD-2_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Dixon's Outlier Test / Ohio EPA 0715 Outlier Algorithm

GWD-2



n = 5

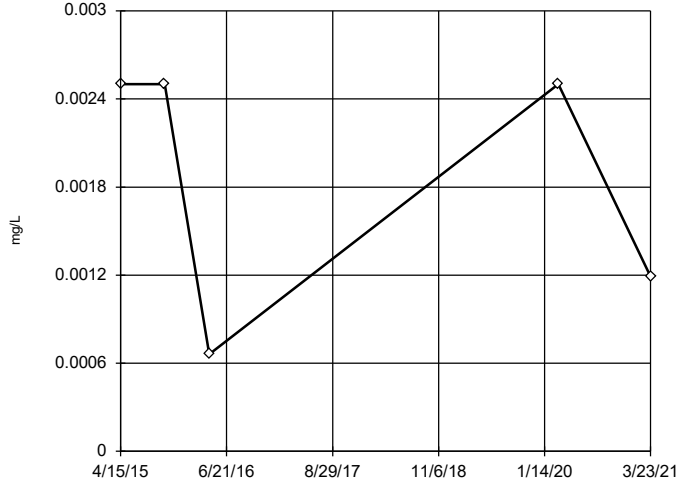
No statistical outliers.
Testing for 1 low outlier.
Mean = 0.01751.
Std. Dev. = 0.009664.
0.00157 (J): c = 0.6158
tabl = 0.78.
Alpha = 0.01.

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9048
Critical = 0.687
The distribution was found to be normally distrib-uted.

Constituent: Nickel Analysis Run 2/26/2025 2:14 PM View: 2024AWQR-GWD-2_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

EPA Screening (suspected outliers for Dixon's Test)

GWD-2



n = 5

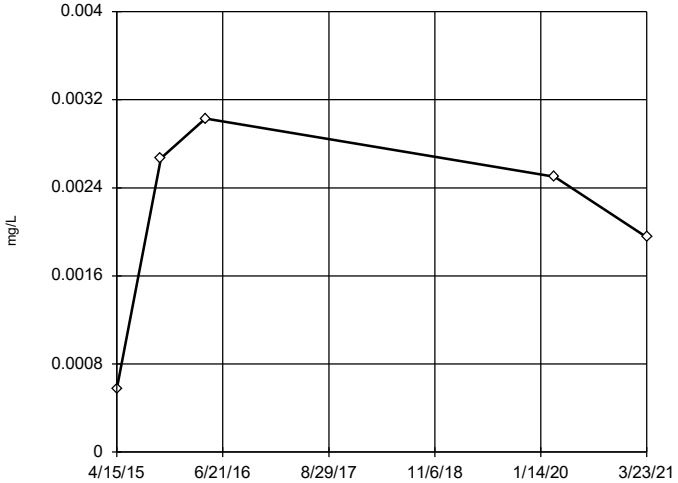
Dixon's will not be run.
No suspect values identi-fied or unable to estab-lish suspect values.
Ohio method in use.
Mean 0.00187, std. dev. 0.0008824, critical Tn 1.672

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.7597
Critical = 0.686
The distribution was found to be normally distrib-uted.

Constituent: Selenium Analysis Run 2/26/2025 2:14 PM View: 2024AWQR-GWD-2_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Dixon's Outlier Test / Ohio EPA 0715 Outlier Algorithm

GWD-2



n = 5

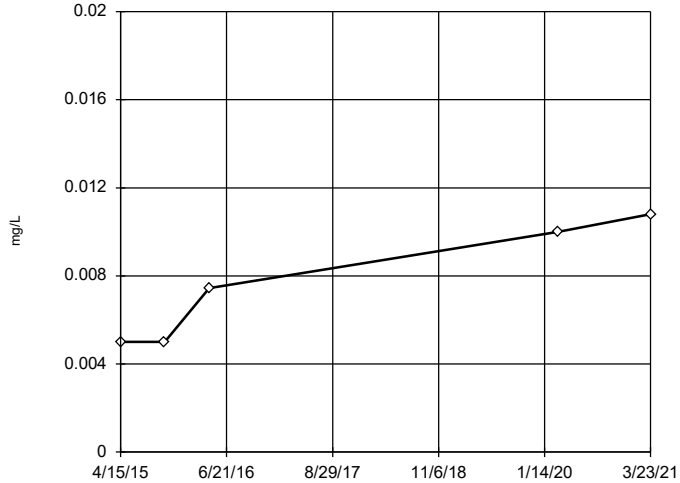
No statistical outliers.
Testing for 1 low outlier.
Mean = 0.002145.
Std. Dev. = 0.0009602.
0.000575 (J): c = 0.5601
tabl = 0.78.
Alpha = 0.01.

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.979
Critical = 0.687
The distribution was found to be normally distrib-uted.

Constituent: Vanadium Analysis Run 2/26/2025 2:14 PM View: 2024AWQR-GWD-2_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

EPA Screening (suspected outliers for Dixon's Test)

GWD-2



n = 5

Dixon's will not be run.
No suspect values identi-fied or unable to estab-lish suspect values.
Ohio method in use.
Mean 0.007648, std. dev. 0.002717, critical Tn 1.672

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8673
Critical = 0.686
The distribution was found to be normally distrib-uted.

Constituent: Zinc Analysis Run 2/26/2025 2:14 PM View: 2024AWQR-GWD-2_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

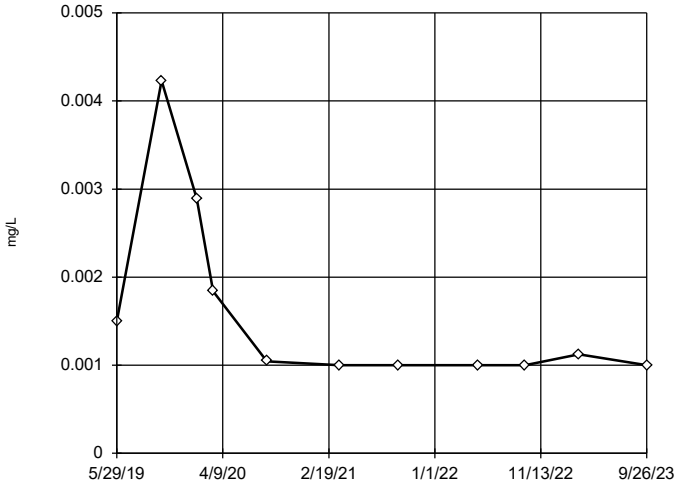
MW-42R BG Outlier Analysis

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master Printed 2/27/2025, 7:22 PM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Antimony (mg/L)	MW-42R	No	n/a	n/a	NP (nrm)/OH	NaN	11	0.001603	0.001048	unknown	ShapiroWilk
Arsenic (mg/L)	MW-42R	No	n/a	n/a	EPA/OH	0.05	11	0.001016	0.0001351	normal	ShapiroWilk
Barium (mg/L)	MW-42R	No	n/a	n/a	EPA/OH	0.05	11	0.02443	0.004789	normal	ShapiroWilk
Beryllium (mg/L)	MW-42R	No	n/a	n/a	OH	NaN	11	0.0004976	0.00000783	n/a	n/a
Cadmium (mg/L)	MW-42R	No	n/a	n/a	EPA/OH	0.05	11	0.000195	0.00008983	normal	ShapiroWilk
Chromium (mg/L)	MW-42R	No	n/a	n/a	OH	NaN	11	0.002398	0.0003377	n/a	n/a
Cobalt (mg/L)	MW-42R	No	n/a	n/a	Dixon/OH	0.01	12	0.004744	0.001288	normal	ShapiroWilk
Copper (mg/L)	**MW-42R**	**Yes**	**0.00419,0.00905**	**8/19/2020,5/29/2019**	**Dixon/OH**	**0.01**	**11**	**0.003365**	**0.001967**	**normal**	**ShapiroWilk**
Lead (mg/L)	MW-42R	No	n/a	n/a	OH	NaN	11	0.0002916	0.000116	n/a	n/a
Nickel (mg/L)	**MW-42R**	**Yes**	**0.0469**	**5/29/2019**	**Dixon/OH**	**0.01**	**11**	**0.02061**	**0.009487**	**normal**	**ShapiroWilk**
Selenium (mg/L)	MW-42R	No	n/a	n/a	EPA/OH	0.05	11	0.003925	0.003093	ln(x)	ShapiroWilk
Thallium (mg/L)	**MW-42R**	**Yes**	**0.001**	**5/29/2019**	**OH**	**NaN**	**11**	**0.0005608**	**0.0001542**	**n/a**	**n/a**
Vanadium (mg/L)	MW-42R	No	n/a	n/a	EPA/OH	0.05	11	0.00185	0.0005645	normal	ShapiroWilk
Zinc (mg/L)	MW-42R	No	n/a	n/a	EPA/OH	0.05	11	0.01111	0.003106	ln(x)	ShapiroWilk

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm

MW-42R



n = 11

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.01 alpha level.

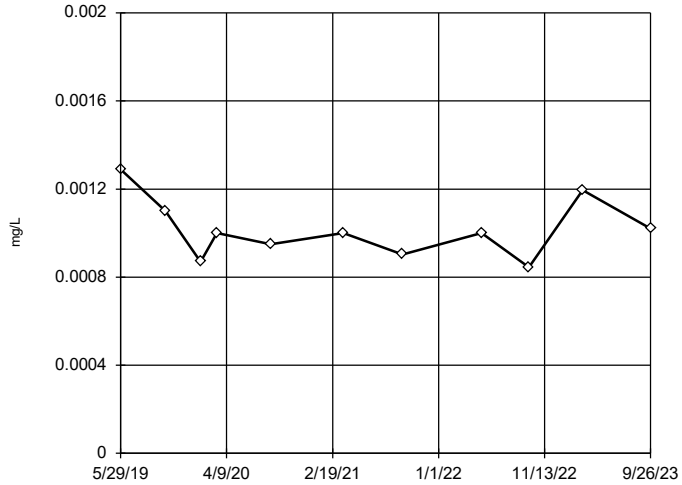
High cutoff = 0.00436, low cutoff = -0.00152, based on IQR multiplier of 3.

Constituent: Antimony Analysis Run 2/27/2025 7:18 PM View: 2024AWQR-MW-42R_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

EPA Screening (suspected outliers for Dixon's Test)

MW-42R



n = 11

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.001016, std. dev. 0.0001351, critical Tn 2.234

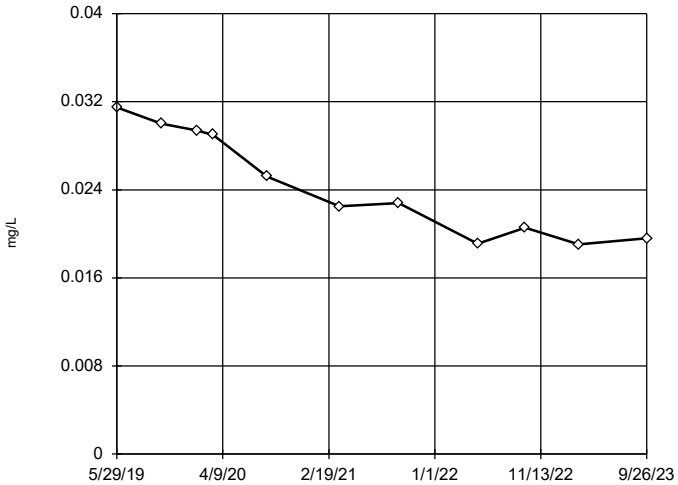
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9268
Critical = 0.792
The distribution was found to be normally distributed.

Constituent: Arsenic Analysis Run 2/27/2025 7:18 PM View: 2024AWQR-MW-42R_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

EPA Screening (suspected outliers for Dixon's Test)

MW-42R



n = 11

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.02443, std. dev. 0.004789, critical Tn 2.234

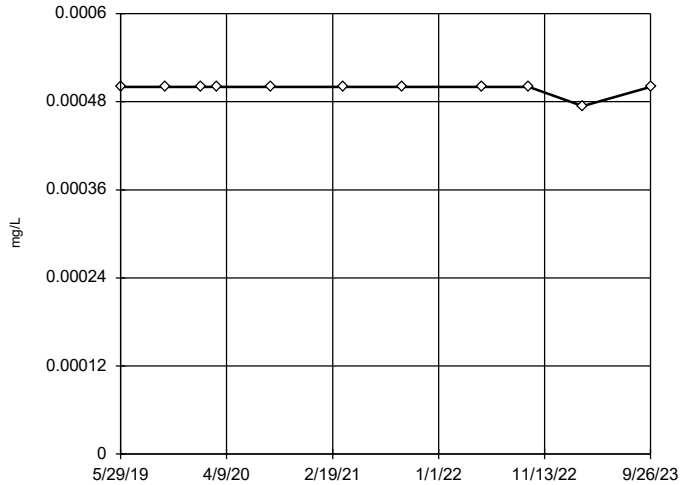
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8789
Critical = 0.792
The distribution was found to be normally distributed.

Constituent: Barium Analysis Run 2/27/2025 7:18 PM View: 2024AWQR-MW-42R_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm

MW-42R



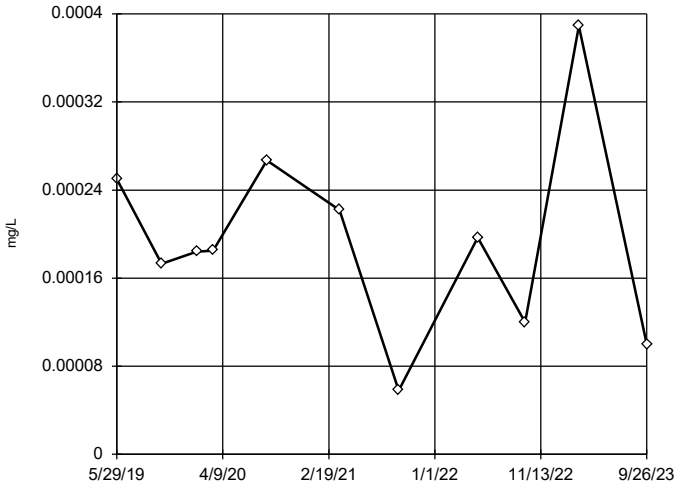
n = 11

No statistical outliers.

Constituent: Beryllium Analysis Run 2/27/2025 7:18 PM View: 2024AWQR-MW-42R_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

EPA Screening (suspected outliers for Dixon's Test)

MW-42R



n = 11

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.000195, std. dev. 0.00008983, critical Tn 2.234

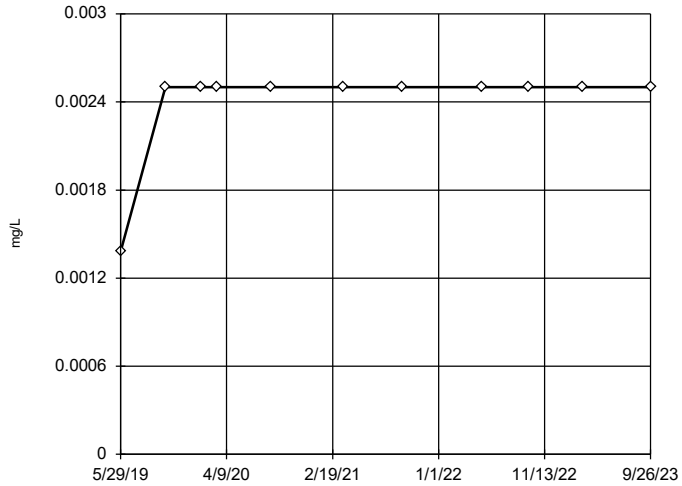
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9579
Critical = 0.792
The distribution was found to be normally distributed.

Constituent: Cadmium Analysis Run 2/27/2025 7:18 PM View: 2024AWQR-MW-42R_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm

MW-42R



n = 11

No statistical outliers.

Constituent: Chromium Analysis Run 2/27/2025 7:18 PM View: 2024AWQR-MW-42R_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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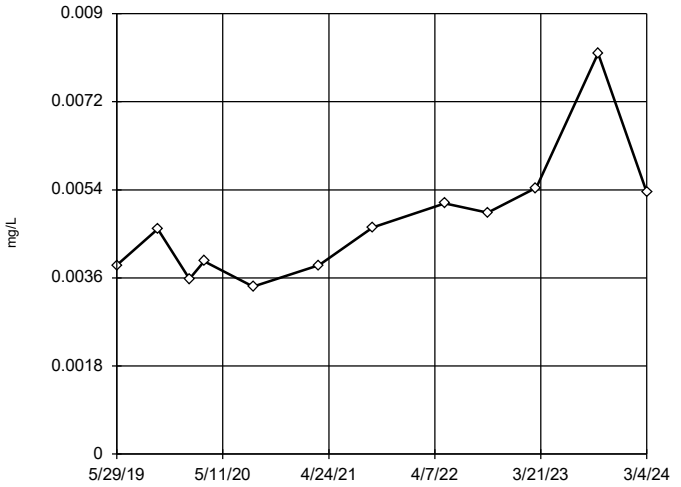
Dixon's Outlier Test / Ohio EPA 0715 Outlier Algorithm

MW-42R



n = 12

No statistical outliers.
Testing for 1 high outlier.
Mean = 0.004744.
Std. Dev. = 0.001288.
0.00819: c = 0.6161
tabl = 0.642.
Alpha = 0.01.

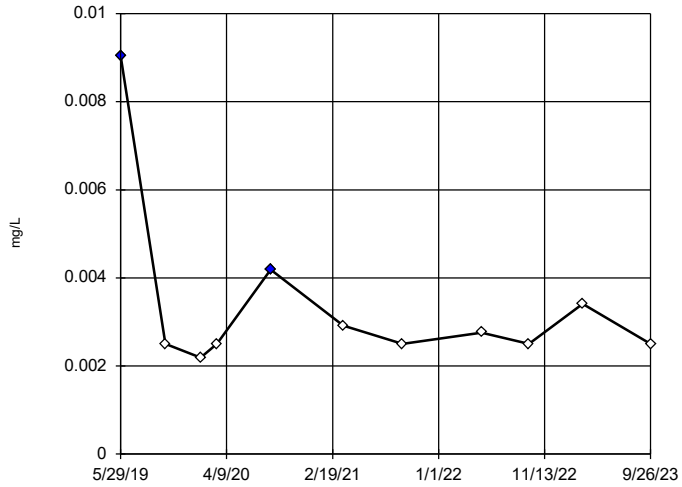
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9168
Critical = 0.792
The distribution was found to be normally distributed.

Constituent: Cobalt Analysis Run 2/27/2025 7:18 PM View: 2024AWQR-MW-42R_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Dixon's Outlier Test / Ohio EPA 0715 Outlier Algorithm

MW-42R



n = 11

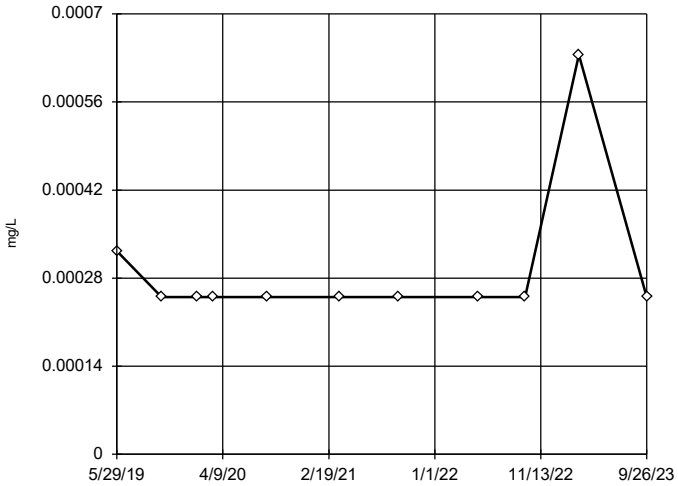
Statistical outliers are drawn as solid.
Testing for 2 high outliers.
Mean = 0.003365.
Std. Dev. = 0.001967.
0.0419 (JD): c = 0.7515
tabl = 0.679.
Alpha = 0.01.

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8323
Critical = 0.764
The distribution, after removal of suspect values, was found to be normally distributed.

Constituent: Copper Analysis Run 2/27/2025 7:18 PM View: 2024AWQR-MW-42R_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Ohio EPA 0715 Outlier Algorithm

MW-42R



n = 11

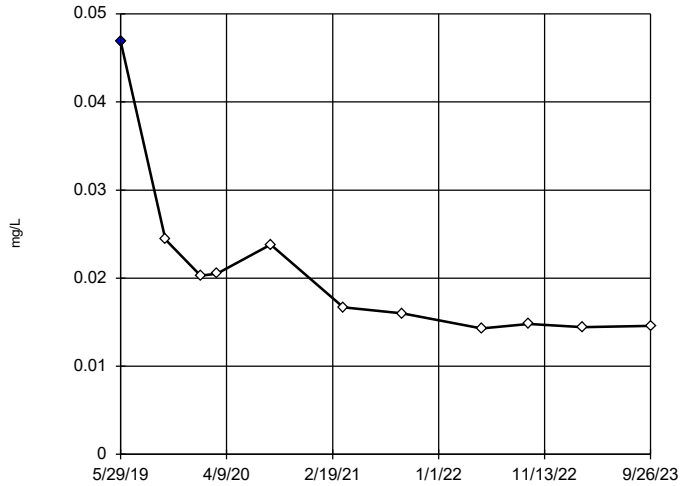
No statistical outliers.

Constituent: Lead Analysis Run 2/27/2025 7:18 PM View: 2024AWQR-MW-42R_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Dixon's Outlier Test / Ohio EPA 0715 Outlier Algorithm

MW-42R



n = 11

Statistical outlier is drawn as solid.
Testing for 1 high outlier.
Mean = 0.02061.
Std. Dev. = 0.009487.
0.0469: c = 0.7119
tabl = 0.679.
Alpha = 0.01.

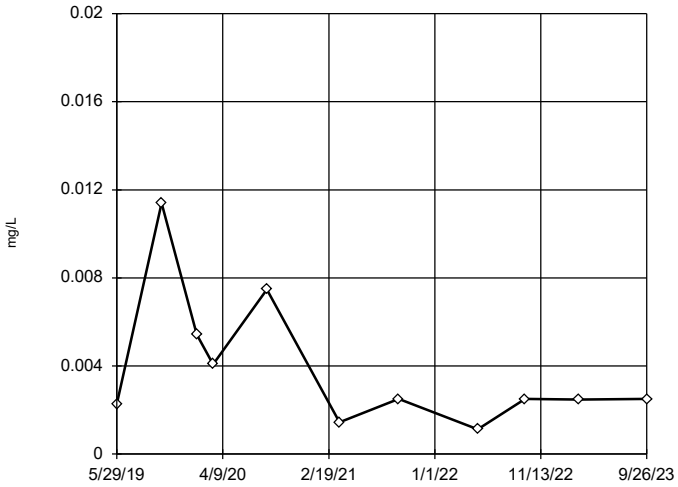
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8395
Critical = 0.781
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Nickel Analysis Run 2/27/2025 7:18 PM View: 2024AWQR-MW-42R_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

EPA Screening (suspected outliers for Dixon's Test)

MW-42R



n = 11

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.003925, std. dev. 0.003093, critical Tn 2.234

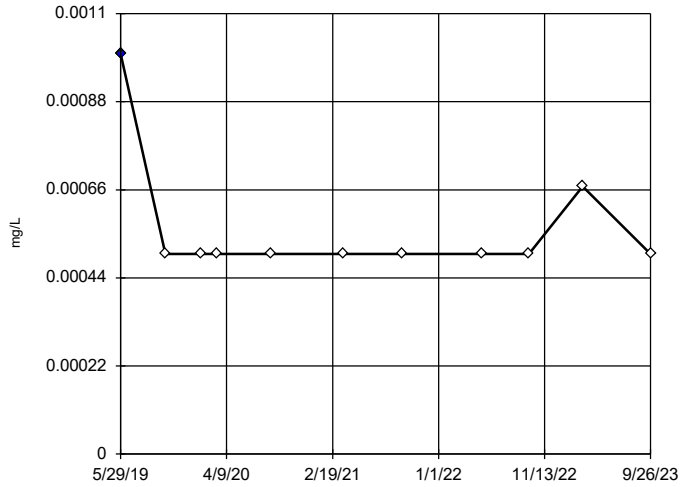
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9368
Critical = 0.792 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Selenium Analysis Run 2/27/2025 7:18 PM View: 2024AWQR-MW-42R_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm

MW-42R



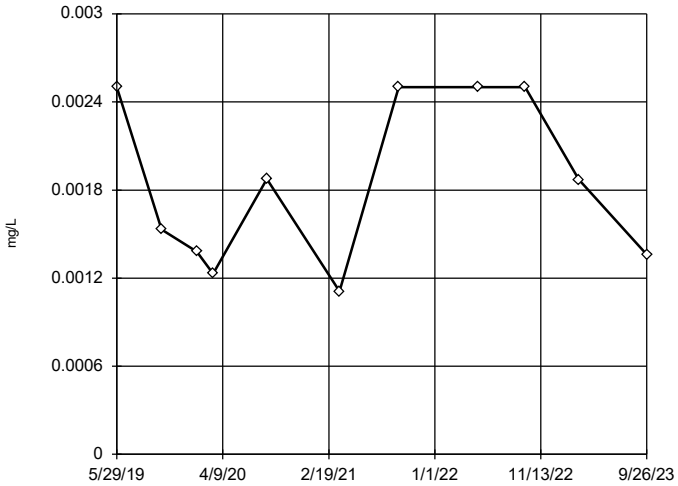
n = 11

Statistical outlier is drawn as solid.
Outlier per Ohio method.

Constituent: Thallium Analysis Run 2/27/2025 7:18 PM View: 2024AWQR-MW-42R_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

EPA Screening (suspected outliers for Dixon's Test)

MW-42R



n = 11

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.00185, std. dev. 0.0005645, critical Tn 2.234

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8453
Critical = 0.792
The distribution was found to be normally distributed.

Constituent: Vanadium Analysis Run 2/27/2025 7:18 PM View: 2024AWQR-MW-42R_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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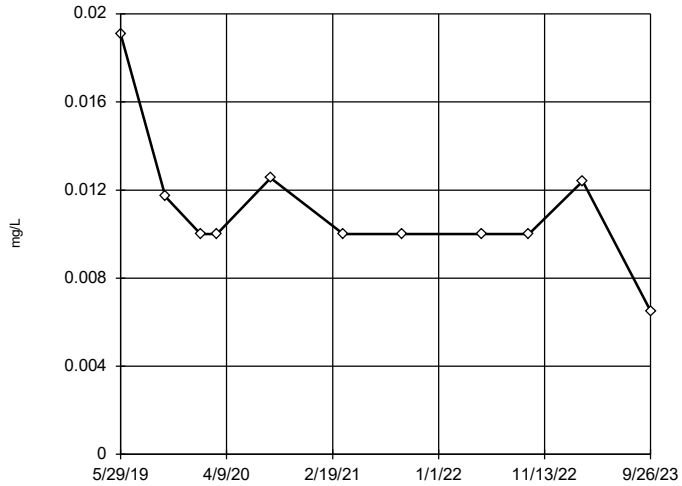
EPA Screening (suspected outliers for Dixon's Test)

MW-42R



n = 11

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.01111, std. dev. 0.003106, critical Tn 2.234

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8443
Critical = 0.792 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Zinc Analysis Run 2/27/2025 7:18 PM View: 2024AWQR-MW-42R_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Outlier Test Summary Table and Graphs – Closed MSWLF Unit

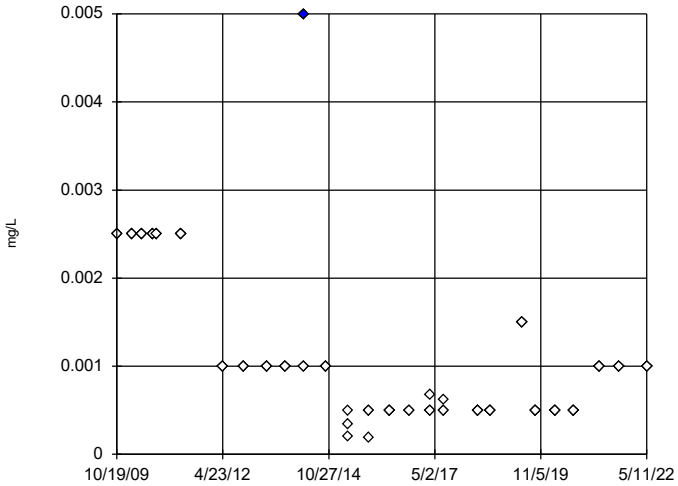
BG Outlier Analysis

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master Printed 2/28/2025, 3:13 PM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Antimony (mg/L)	**MW-1,MW-11,MW-4**	**Yes**	**0.005**	**n/a w/combined bg**	**OH**	**NaN**	**80**	**0.0012**	**0.0008913**	**n/a**	**n/a**
Arsenic (mg/L)	**MW-1,MW-11,MW-4**	**Yes**	**0.0064,0.005,0.005**	**n/a w/combined bg**	**OH**	**NaN**	**81**	**0.001752**	**0.001243**	**n/a**	**n/a**
Barium (mg/L)	MW-11,MW-1,MW-4	No	n/a	n/a w/combined bg	EPA/OH	0.05	82	0.03684	0.02306	ln(x)	ShapiroFrancia
Cadmium (mg/L)	**MW-1,MW-11,MW-4**	**Yes**	**0.0066,0.0079,0.0105,0.0494**	**n/a w/combined bg**	**NP (nrm)/OH**	**NaN**	**80**	**0.001727**	**0.005707**	**unknown**	**ShapiroFrancia**
Chromium (mg/L)	**MW-1,MW-11,MW-4**	**Yes**	**0.014,0.0125,0.01,0.01,0.01**	**n/a w/combined bg**	**OH**	**NaN**	**80**	**0.00396**	**0.002695**	**n/a**	**n/a**
Cobalt (mg/L)	**MW-1,MW-11,MW-4**	**Yes**	**0.0074**	**n/a w/combined bg**	**NP (nrm)/OH**	**NaN**	**63**	**0.0007968**	**0.001114**	**unknown**	**ShapiroFrancia**
Copper (mg/L)	**MW-1,MW-11,MW-4**	**Yes**	**0.005,0.005,0.005,0.0133,0.0068,0.0051,0.0111,0.0**	**n/a w/combined bg**	**NP (nrm)/OH**	**NaN**	**80**	**0.003762**	**0.00356**	**unknown**	**ShapiroFrancia**
Lead (mg/L)	MW-1,MW-11,MW-4	No	n/a	n/a w/combined bg	NP (nrm)/OH	NaN	82	0.002582	0.004646	unknown	ShapiroFrancia
Nickel (mg/L)	MW-11,MW-4,MW-1	No	n/a	n/a w/combined bg	EPA/OH	0.05	82	0.006801	0.008193	ln(x)	ShapiroFrancia
Selenium (mg/L)	MW-1,MW-11,MW-4	No	n/a	n/a w/combined bg	NP (nrm)/OH	NaN	80	0.004993	0.004639	unknown	ShapiroFrancia
Silver (mg/L)	**MW-1,MW-11,MW-4**	**Yes**	**0.01,0.005,0.004,0.0025,0.0025,0.0025**	**n/a w/combined bg**	**OH**	**NaN**	**80**	**0.001371**	**0.001574**	**n/a**	**n/a**
Thallium (mg/L)	**MW-1,MW-11,MW-4**	**Yes**	**0.01,0.002,0.002**	**n/a w/combined bg**	**OH**	**NaN**	**80**	**0.0008656**	**0.001166**	**n/a**	**n/a**
Vanadium (mg/L)	**MW-1,MW-11,MW-4**	**Yes**	**0.05,0.0424**	**n/a w/combined bg**	**OH**	**NaN**	**80**	**0.008904**	**0.01017**	**n/a**	**n/a**
Zinc (mg/L)	**MW-1,MW-11,MW-4**	**Yes**	**0.0551,0.0598,0.0772,0.05,1.3,0.113,0.119**	**n/a w/combined bg**	**NP (nrm)/OH**	**NaN**	**80**	**0.03498**	**0.1447**	**unknown**	**ShapiroFrancia**

Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-11,MW-4



n = 80

Statistical outlier is drawn as solid.
Outlier per Ohio method.

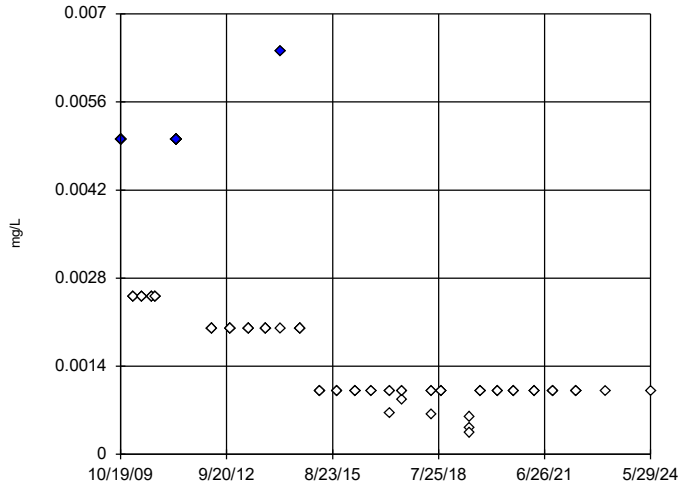
Constituent: Antimony Analysis Run 2/28/2025 2:58 PM View: 2024AWQR-BG_Outliers

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-11,MW-4



n = 81

Statistical outliers are drawn as solid.
Outliers per Ohio method.

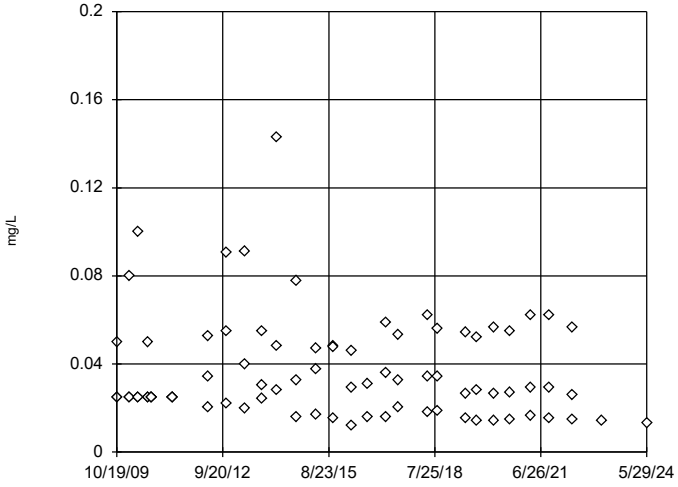
Constituent: Arsenic Analysis Run 2/28/2025 2:58 PM View: 2024AWQR-BG_Outliers

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

EPA Screening (suspected outliers for Rosner's Test)

MW-11,MW-1,MW-4



n = 82

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.03684, std. dev. 0.02306, critical Tn 3.139

Normality test used:
Shapiro Francia@alpha = 0.01
Calculated = 0.9662
Critical = 0.959 (after natural log transformation)
The distribution was found to be log-normal.

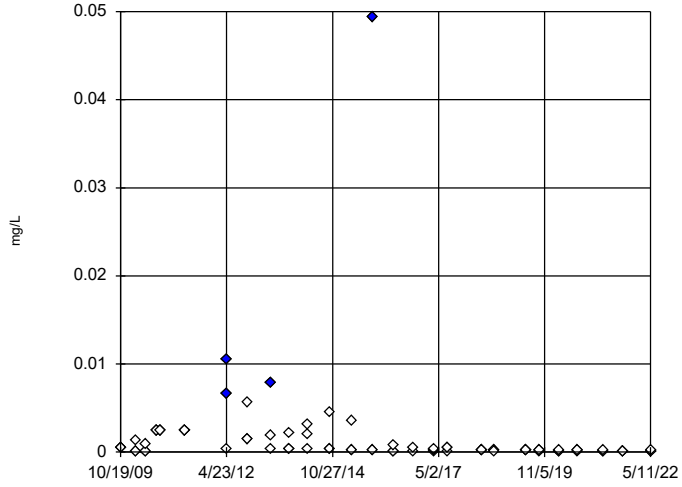
Constituent: Barium Analysis Run 2/28/2025 2:58 PM View: 2024AWQR-BG_Outliers

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-11,MW-4



n = 80

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Francia normality test failed at the 0.01 alpha level.

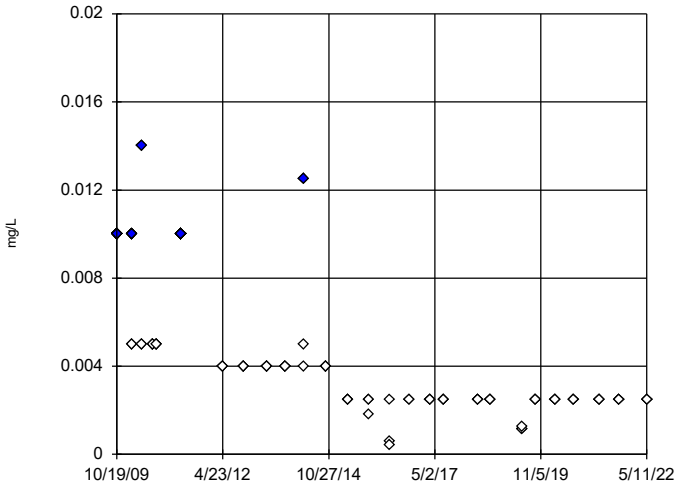
High cutoff = 0.006404, low cutoff = -0.004572, based on IQR multiplier of 3.

Constituent: Cadmium Analysis Run 2/28/2025 2:58 PM View: 2024AWQR-BG_Outliers

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-11,MW-4



n = 80

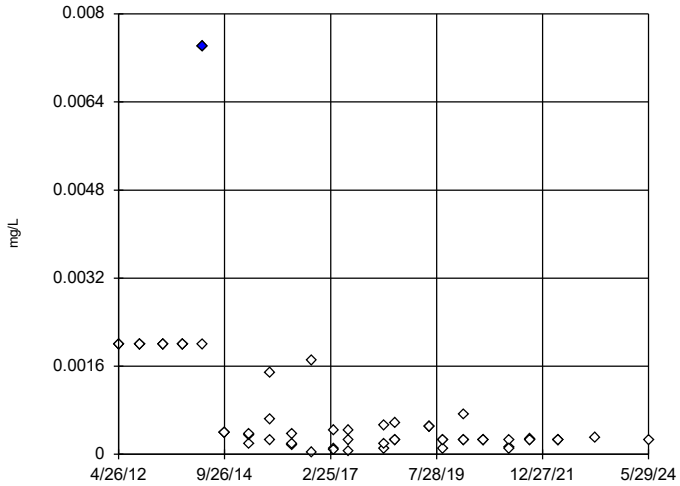
Statistical outliers are drawn as solid.
Outliers per Ohio method.

Constituent: Chromium Analysis Run 2/28/2025 2:58 PM View: 2024AWQR-BG_Outliers

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-11,MW-4



n = 63

Outlier is drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Francia normality test failed at the 0.01 alpha level.

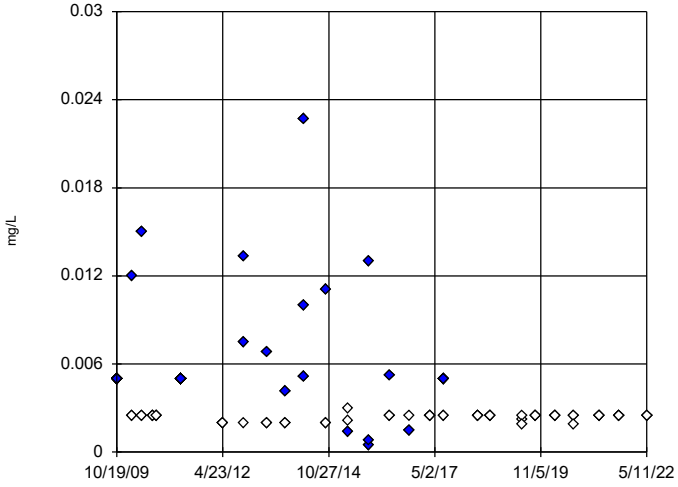
High cutoff = 0.00521, low cutoff = -0.00347, based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 2/28/2025 2:58 PM View: 2024AWQR-BG_Outliers

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-11,MW-4



n = 80

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Francia normality test failed at the 0.01 alpha level.

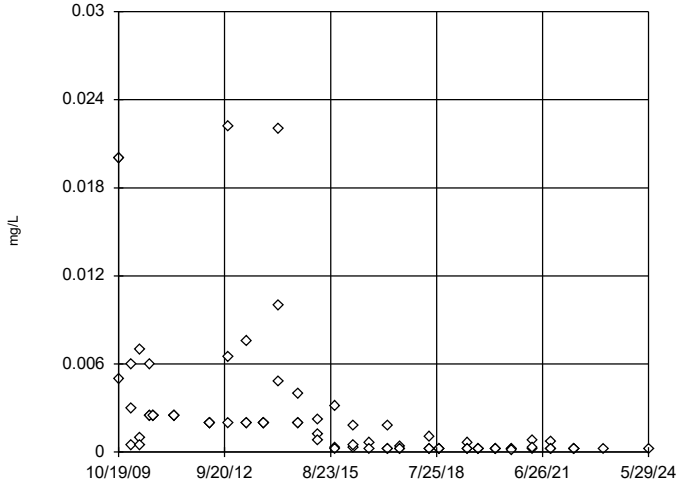
High cutoff = 0.0034, low cutoff = 0.001825, based on IQR multiplier of 3.

Constituent: Copper Analysis Run 2/28/2025 2:58 PM View: 2024AWQR-BG_Outliers

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-11,MW-4



n = 82

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Francia normality test failed at the 0.01 alpha level.

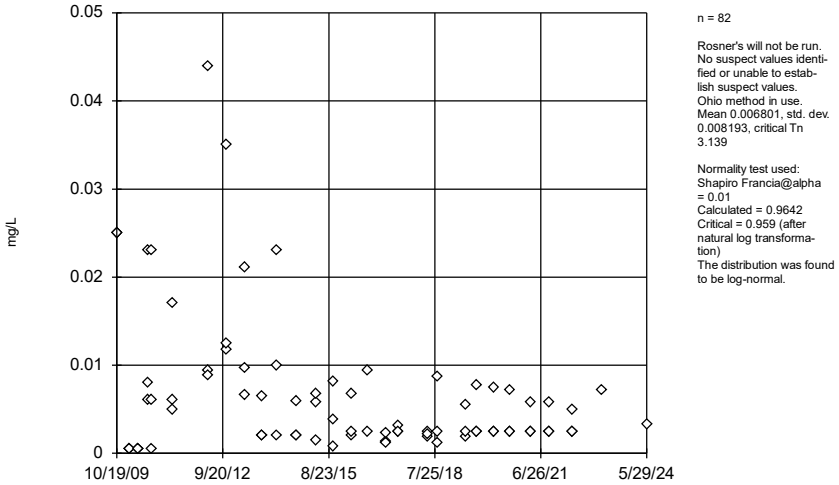
The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Lead Analysis Run 2/28/2025 2:58 PM View: 2024AWQR-BG_Outliers

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

EPA Screening (suspected outliers for Rosner's Test)

MW-11,MW-4,MW-1



n = 82

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.006801, std. dev. 0.008193, critical Tn 3.139

Normality test used:
Shapiro Francia@alpha = 0.01
Calculated = 0.9642
Critical = 0.959 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Nickel Analysis Run 2/28/2025 2:58 PM View: 2024AWQR-BG_Outliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

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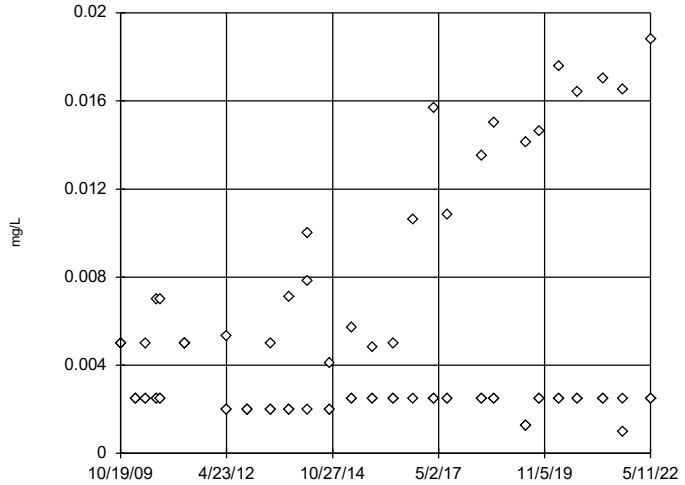
Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-11,MW-4



n = 80

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Francia normality test failed at the 0.01 alpha level.

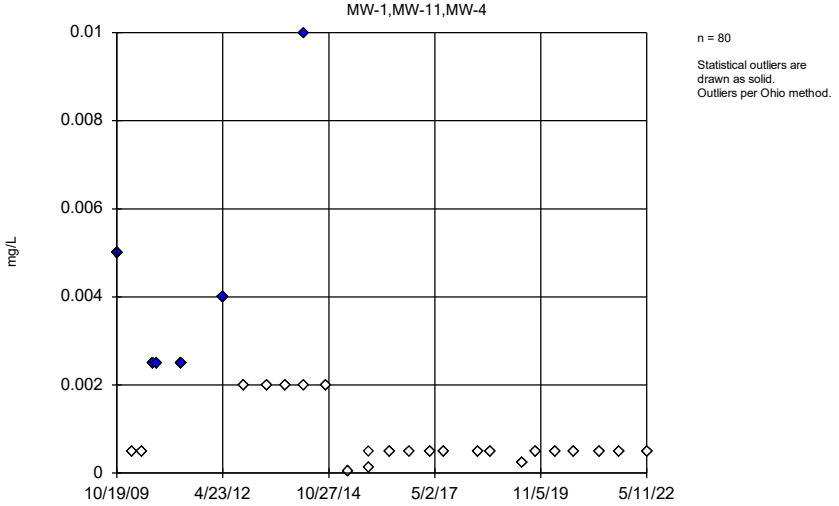
The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Selenium Analysis Run 2/28/2025 2:58 PM View: 2024AWQR-BG_Outliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-11,MW-4



n = 80

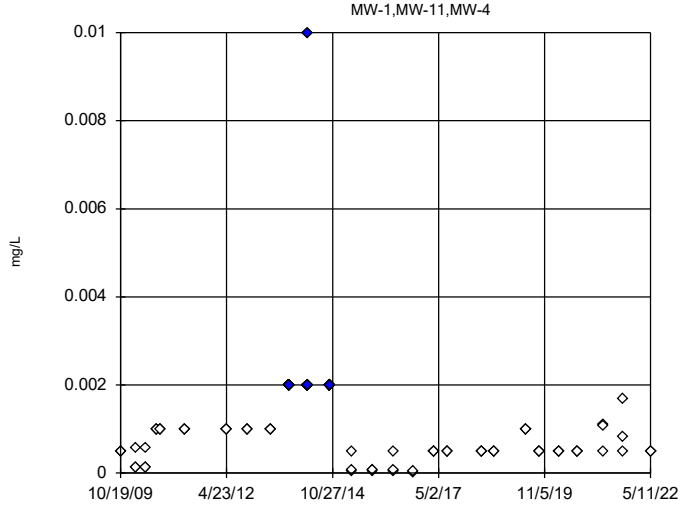
Statistical outliers are drawn as solid.
Outliers per Ohio method.

Constituent: Silver Analysis Run 2/28/2025 2:58 PM View: 2024AWQR-BG_Outliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-11,MW-4



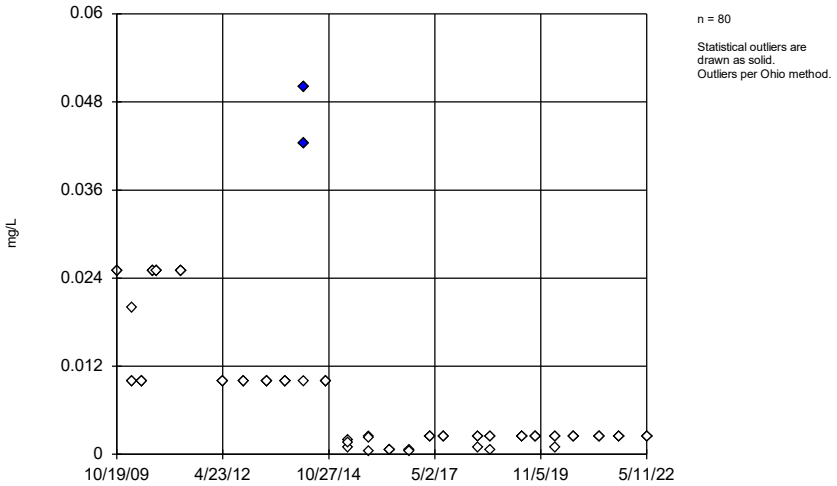
n = 80

Statistical outliers are drawn as solid.
Outliers per Ohio method.

Constituent: Thallium Analysis Run 2/28/2025 2:58 PM View: 2024AWQR-BG_Outliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-11,MW-4



n = 80

Statistical outliers are drawn as solid.
Outliers per Ohio method.

Constituent: Vanadium Analysis Run 2/28/2025 2:58 PM View: 2024AWQR-BG_Outliers

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

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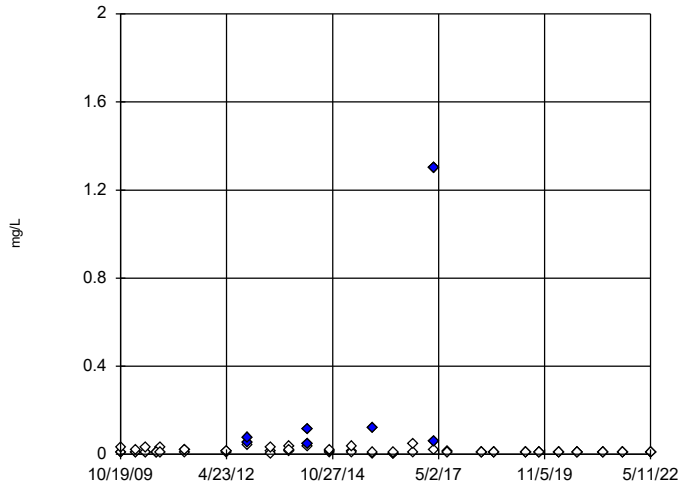
Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-11,MW-4



n = 80

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Francia normality test failed at the 0.01 alpha level.

High cutoff = 0.05, low cutoff = -0.02, based on IQR multiplier of 3.

Constituent: Zinc Analysis Run 2/28/2025 2:58 PM View: 2024AWQR-BG_Outliers

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

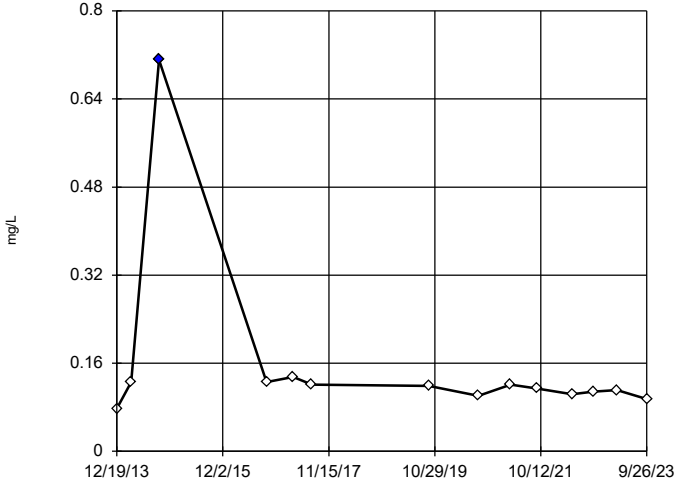
MW-15C BG Outlier Analysis

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master Printed 2/28/2025, 4:12 PM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Barium (mg/L)	**MW-15C**	**Yes**	**0.711**	**9/30/2014**	**Dixon/OH**	**0.01**	**14**	**0.155**	**0.1607**	**normal**	**ShapiroWilk**
Cadmium (mg/L)	MW-15C	No	n/a	n/a	EPA/OH	0.05	8	0.001839	0.002733	ln(x)	ShapiroWilk
Cobalt (mg/L)	MW-15C	No	n/a	n/a	EPA/OH	0.05	17	0.0005391	0.0006417	ln(x)	ShapiroWilk
Nickel (mg/L)	MW-15C	No	n/a	n/a	EPA/OH	0.05	11	0.007845	0.002621	normal	ShapiroWilk
Zinc (mg/L)	**MW-15C**	**Yes**	**0.0426**	**9/30/2014**	**OH**	**NaN**	**8**	**0.01342**	**0.01199**	**n/a**	**n/a**

Dixon's Outlier Test / Ohio EPA 0715 Outlier Algorithm

MW-15C



n = 14

Statistical outlier is drawn as solid.
Testing for 1 high and 1 low outliers.
Mean = 0.155.
Std. Dev. = 0.1607.
0.711: c = 0.959
tabl = 0.641.
0.0774: c = 0.4856
tabl = 0.641.
Alpha = 0.01.

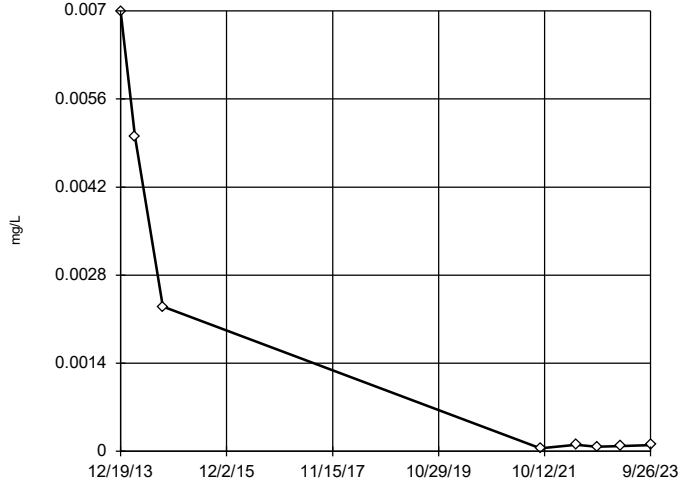
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.981
Critical = 0.805
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Barium Analysis Run 2/28/2025 4:04 PM View: 2024AWQR-MW-15C_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

EPA Screening (suspected outliers for Dixon's Test)

MW-15C



n = 8

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.001839, std. dev. 0.002733, critical Tn 2.032

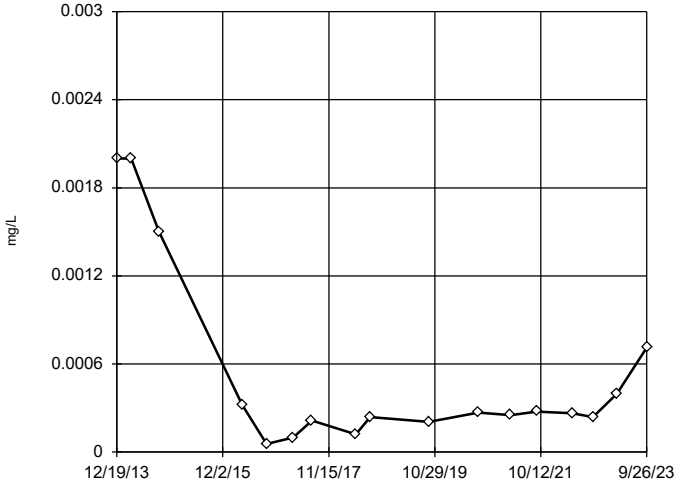
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.7789
Critical = 0.749 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Cadmium Analysis Run 2/28/2025 4:04 PM View: 2024AWQR-MW-15C_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

EPA Screening (suspected outliers for Dixon's Test)

MW-15C



n = 17

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.0005391, std. dev. 0.0006417, critical Tn 2.475

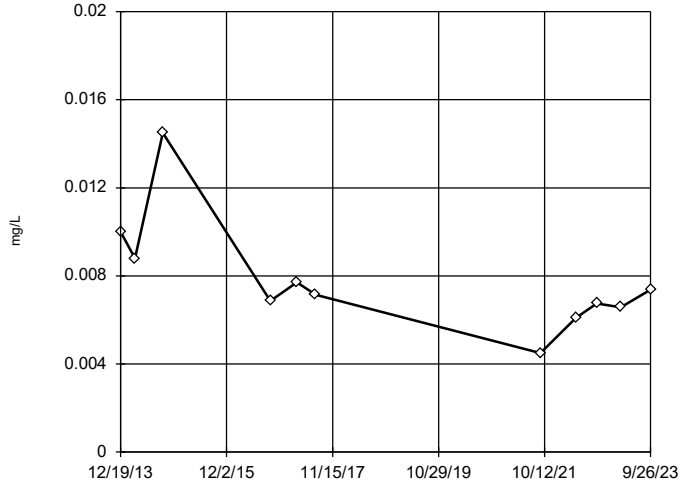
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9059
Critical = 0.851 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Cobalt Analysis Run 2/28/2025 4:04 PM View: 2024AWQR-MW-15C_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

EPA Screening (suspected outliers for Dixon's Test)

MW-15C



n = 11

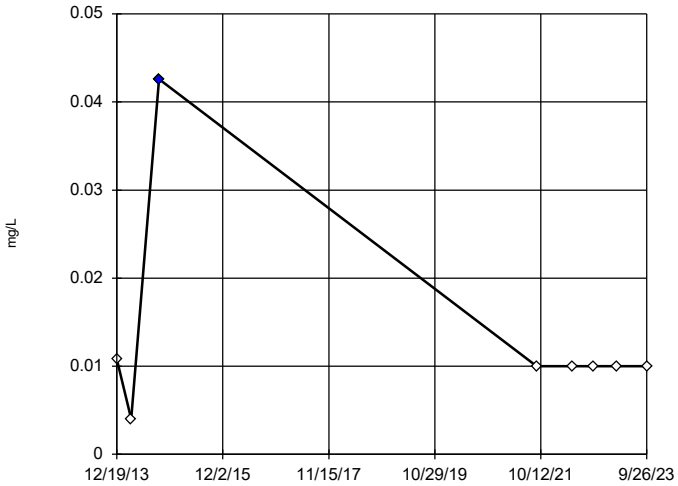
Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.007845, std. dev. 0.002621, critical Tn 2.234

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8358
Critical = 0.792
The distribution was found to be normally distributed.

Constituent: Nickel Analysis Run 2/28/2025 4:04 PM View: 2024AWQR-MW-15C_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Ohio EPA 0715 Outlier Algorithm

MW-15C



n = 8

Statistical outlier is drawn as solid.
Outlier per Ohio method.

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8358
Critical = 0.792
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Zinc Analysis Run 2/28/2025 4:04 PM View: 2024AWQR-MW-15C_BGOutliers

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

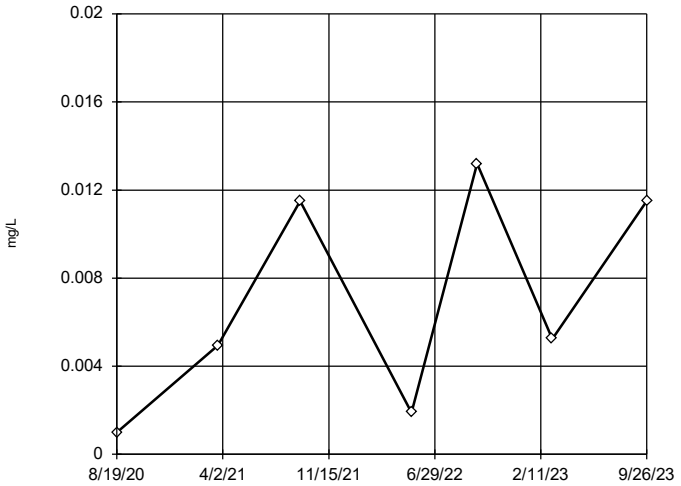
MW-44 BG Outlier Analysis

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master Printed 2/28/2025, 4:23 PM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Arsenic (mg/L)	MW-44	No	n/a	n/a	EPA/OH	0.05	7	0.007041	0.004971	normal	ShapiroWilk
Barium (mg/L)	MW-44	No	n/a	n/a	EPA/OH	0.05	7	0.025	0.008163	normal	ShapiroWilk
Cobalt (mg/L)	MW-44	No	n/a	n/a	EPA/OH	0.05	7	0.001564	0.001503	normal	ShapiroWilk
Nickel (mg/L)	MW-44	No	n/a	n/a	OH	NaN	5	0.002402	0.0002191	n/a	n/a

EPA Screening (suspected outliers for Dixon's Test)

MW-44



n = 7

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.007041, std. dev. 0.004971, critical Tn 1.938

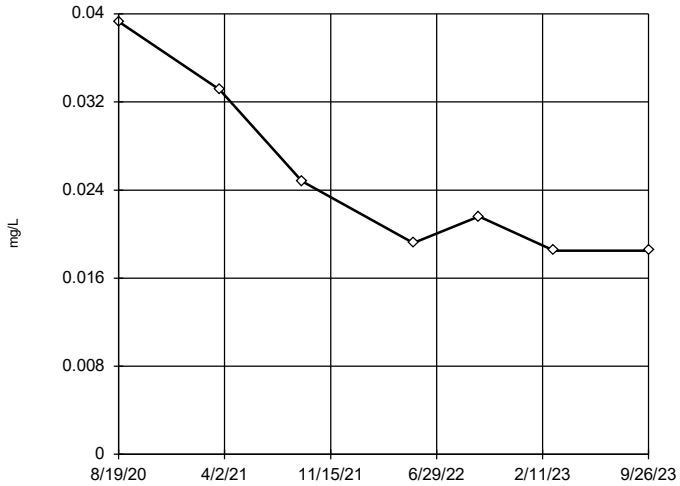
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8816
Critical = 0.73
The distribution was found to be normally distributed.

Constituent: Arsenic Analysis Run 2/28/2025 4:22 PM View: 2024AWQR-MW-44_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

EPA Screening (suspected outliers for Dixon's Test)

MW-44



n = 7

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.025, std. dev. 0.008163, critical Tn 1.938

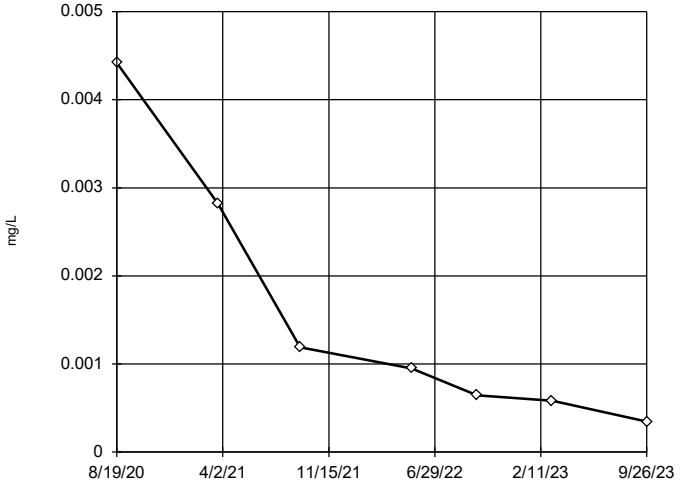
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8261
Critical = 0.73
The distribution was found to be normally distributed.

Constituent: Barium Analysis Run 2/28/2025 4:22 PM View: 2024AWQR-MW-44_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

EPA Screening (suspected outliers for Dixon's Test)

MW-44



n = 7

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.001564, std. dev. 0.001503, critical Tn 1.938

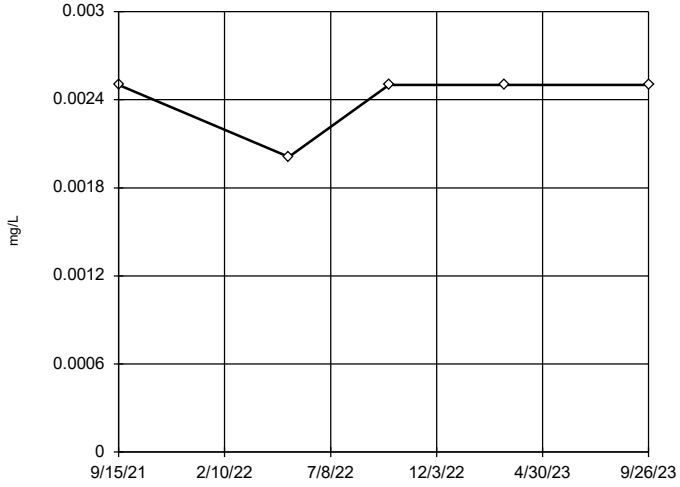
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8011
Critical = 0.73
The distribution was found to be normally distributed.

Constituent: Cobalt Analysis Run 2/28/2025 4:22 PM View: 2024AWQR-MW-44_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm

MW-44



n = 5

No statistical outliers.

Constituent: Nickel Analysis Run 2/28/2025 4:22 PM View: 2024AWQR-MW-44_BGOutliers
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Intrawell Prediction Limits Summary Table and Graphs – Open MSWLF Unit

MW-16 Intra Prediction Limit

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master Printed 2/27/2025, 5:15 PM

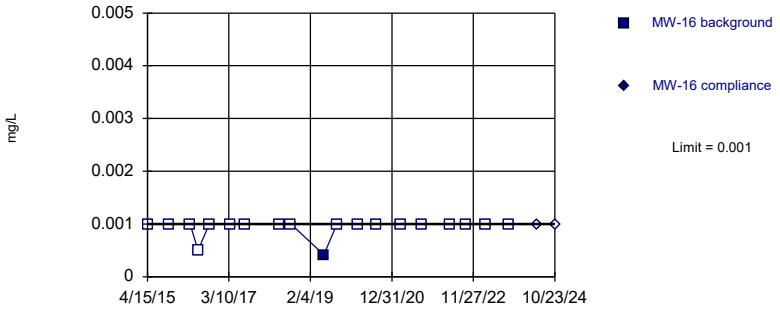
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	%NDs	Transform	Alpha	Method
Arsenic (mg/L)	MW-16	0.001	n/a	10/23/2024	0.001ND	No	19	n/a	94.74	n/a	0.004832	NP Intra (NDs) 1 of 2
Barium (mg/L)	MW-16	0.3962	n/a	10/23/2024	0.171	No	19	n/a	0	No	0.0008776	Param Intra 1 of 2
Beryllium (mg/L)	MW-16	0.0005	n/a	10/23/2024	0.0005ND	No	19	n/a	94.74	n/a	0.004832	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	MW-16	0.0002835	n/a	10/23/2024	0.0001ND	No	19	n/a	63.16	n/a	0.004832	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	MW-16	0.0004544	n/a	10/23/2024	0.00025ND	No	19	n/a	21.05	No	0.0008776	Param Intra 1 of 2
Copper (mg/L)	MW-16	0.0025	n/a	10/23/2024	0.0025ND	No	18	n/a	83.33	n/a	0.005373	NP Intra (NDs) 1 of 2
Lead (mg/L)	MW-16	0.000478	n/a	10/23/2024	0.00025ND	No	19	n/a	68.42	n/a	0.004832	NP Intra (NDs) 1 of 2
Nickel (mg/L)	MW-16	0.01394	n/a	10/23/2024	0.00784	No	19	n/a	0	No	0.0008776	Param Intra 1 of 2
Silver (mg/L)	MW-16	0.000752	n/a	10/23/2024	0.0005ND	No	19	n/a	94.74	n/a	0.004832	NP Intra (NDs) 1 of 2
Thallium (mg/L)	MW-16	0.001	n/a	10/23/2024	0.0005ND	No	19	n/a	94.74	n/a	0.004832	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	MW-16	0.0025	n/a	10/23/2024	0.0025ND	No	19	n/a	89.47	n/a	0.004832	NP Intra (NDs) 1 of 2
Zinc (mg/L)	MW-16	0.01	n/a	10/23/2024	0.01ND	No	19	n/a	94.74	n/a	0.004832	NP Intra (NDs) 1 of 2

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 94.74% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

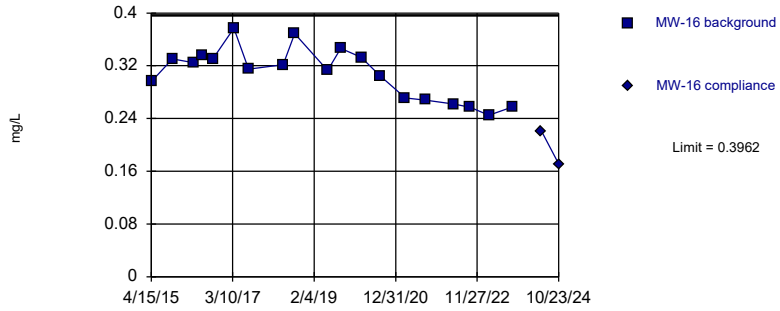
Constituent: Arsenic Analysis Run 2/27/2025 5:13 PM View: 2024AWQR-MW-16_IntraPL
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.3083, Std. Dev.=0.03886, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9453, critical = 0.863. Kappa = 2.263 (c=12, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008776.

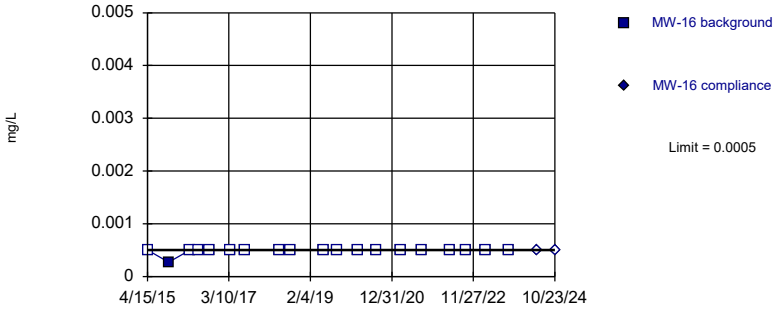
Constituent: Barium Analysis Run 2/27/2025 5:13 PM View: 2024AWQR-MW-16_IntraPL
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 94.74% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

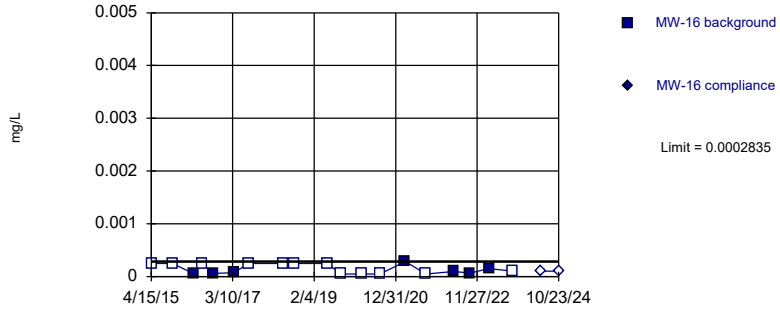
Constituent: Beryllium Analysis Run 2/27/2025 5:13 PM View: 2024AWQR-MW-16_IntraPL
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 63.16% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

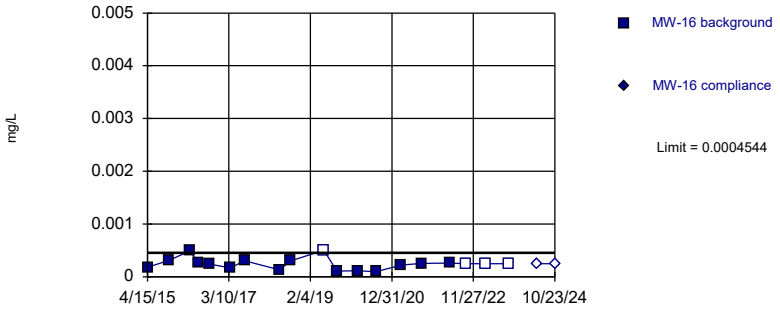
Constituent: Cadmium Analysis Run 2/27/2025 5:13 PM View: 2024AWQR-MW-16_IntraPL
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.0002298, Std. Dev.=0.00009929, n=19, 21.05% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8834, critical = 0.863. Kappa = 2.263 (c=12, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008776.

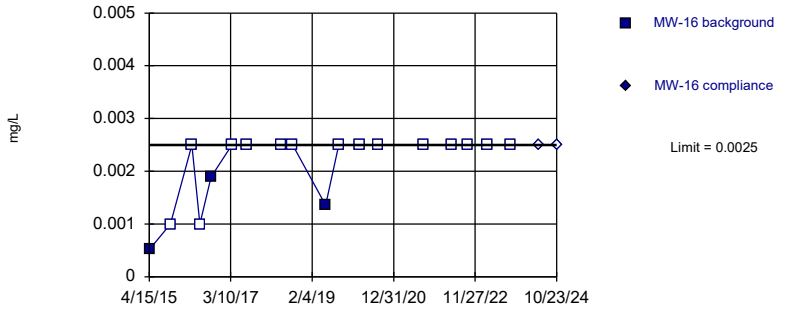
Constituent: Cobalt Analysis Run 2/27/2025 5:13 PM View: 2024AWQR-MW-16_IntraPL
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 83.33% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

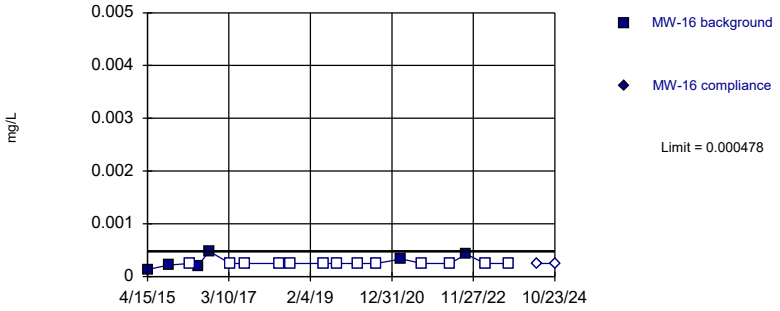
Constituent: Copper Analysis Run 2/27/2025 5:13 PM View: 2024AWQR-MW-16_IntraPL
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 68.42% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Lead Analysis Run 2/27/2025 5:13 PM View: 2024AWQR-MW-16_IntraPL
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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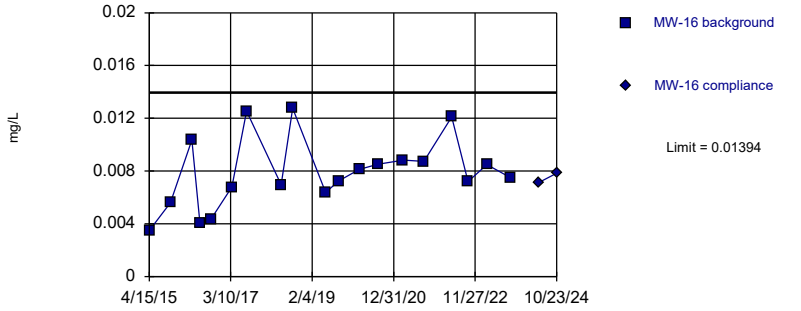
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.007898, Std. Dev.=0.002671, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9501, critical = 0.863. Kappa = 2.263 (c=12, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008776.

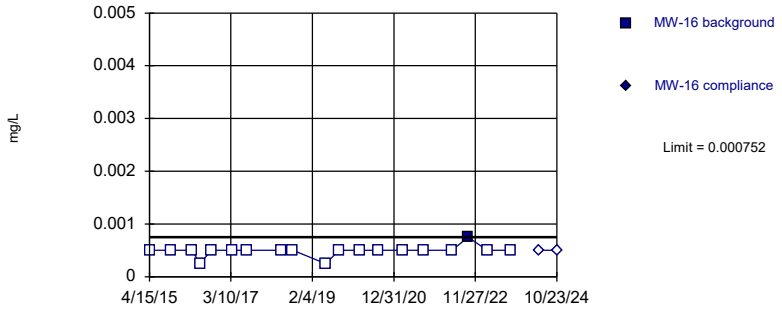
Constituent: Nickel Analysis Run 2/27/2025 5:13 PM View: 2024AWQR-MW-16_IntraPL
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 94.74% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

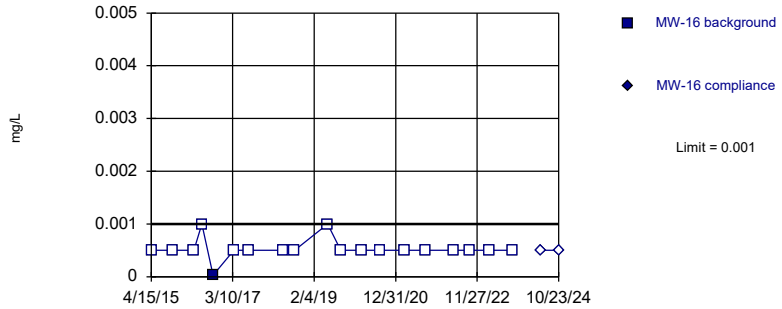
Constituent: Silver Analysis Run 2/27/2025 5:13 PM View: 2024AWQR-MW-16_IntraPL
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 94.74% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

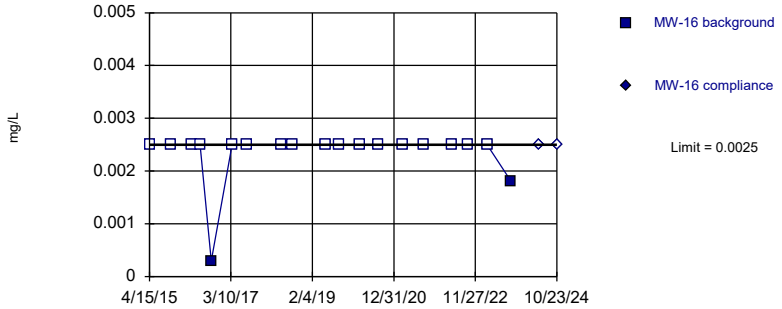
Constituent: Thallium Analysis Run 2/27/2025 5:13 PM View: 2024AWQR-MW-16_IntraPL
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 89.47% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

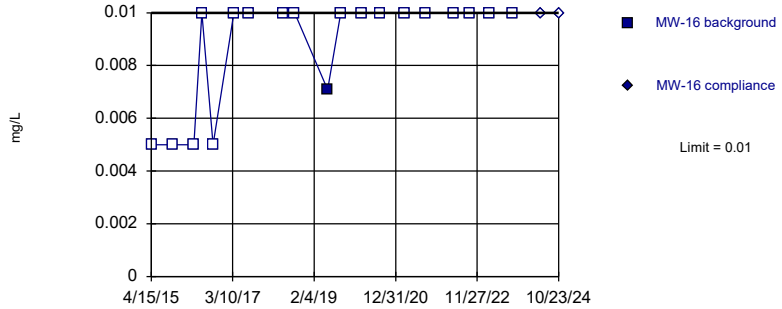
Constituent: Vanadium Analysis Run 2/27/2025 5:13 PM View: 2024AWQR-MW-16_IntraPL
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 94.74% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Zinc Analysis Run 2/27/2025 5:13 PM View: 2024AWQR-MW-16_IntraPL
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

MW-27 Intra Prediction Limit

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master Printed 2/27/2025, 5:51 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	%NDs	Transform	Alpha	Method
Antimony (mg/L)	MW-27	0.0015	n/a	10/23/2024	0.001ND	No	14	n/a	92.86	n/a	0.008612	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	MW-27	0.001	n/a	10/23/2024	0.001ND	No	14	n/a	92.86	n/a	0.008612	NP Intra (NDs) 1 of 2
Barium (mg/L)	MW-27	0.03802	n/a	10/23/2024	0.03185	No	14	n/a	0	No	0.001316	Param Intra 1 of 2
Chromium (mg/L)	MW-27	0.0025	n/a	10/23/2024	0.0025ND	No	14	n/a	85.71	n/a	0.008612	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	MW-27	0.0005	n/a	10/23/2024	0.00025ND	No	14	n/a	71.43	n/a	0.008612	NP Intra (NDs) 1 of 2
Copper (mg/L)	MW-27	0.0025	n/a	10/23/2024	0.0025ND	No	14	n/a	92.86	n/a	0.008612	NP Intra (NDs) 1 of 2
Lead (mg/L)	MW-27	0.00025	n/a	10/23/2024	0.00025ND	No	14	n/a	92.86	n/a	0.008612	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	MW-27	0.0025	n/a	10/23/2024	0.0025ND	No	14	n/a	57.14	n/a	0.008612	NP Intra (NDs) 1 of 2

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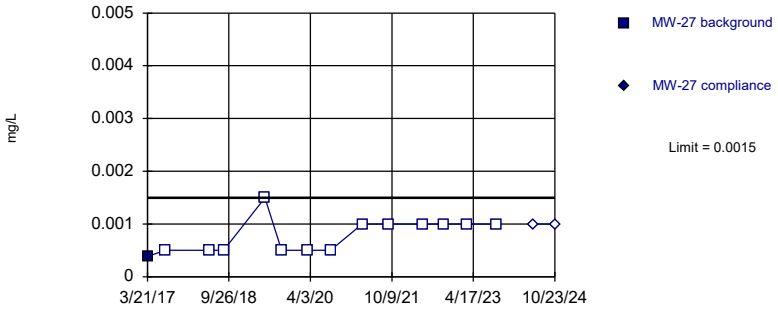
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 92.86% NDs. Well-constituent pair annual alpha = 0.01715. Individual comparison alpha = 0.008612 (1 of 2).

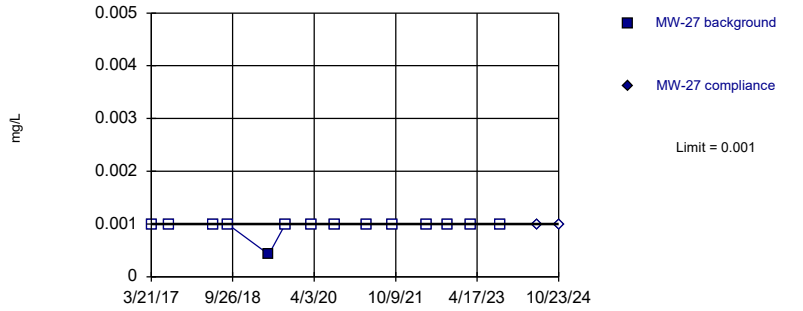
Constituent: Antimony Analysis Run 2/27/2025 5:49 PM View: 2024AWQR-MW-27_IntraPL
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 92.86% NDs. Well-constituent pair annual alpha = 0.01715. Individual comparison alpha = 0.008612 (1 of 2).

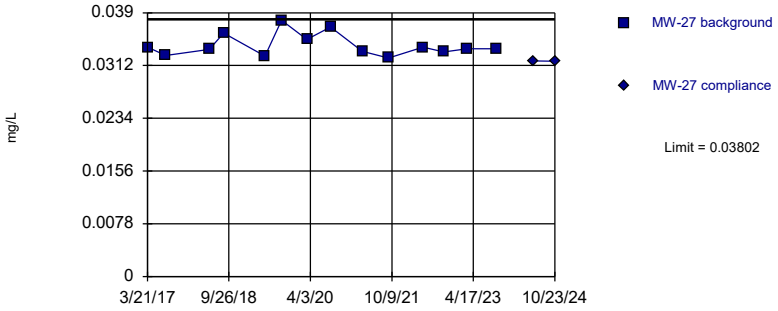
Constituent: Arsenic Analysis Run 2/27/2025 5:49 PM View: 2024AWQR-MW-27_IntraPL
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.0342, Std. Dev.=0.001669, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8687, critical = 0.825. Kappa = 2.289 (c=8, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001316.

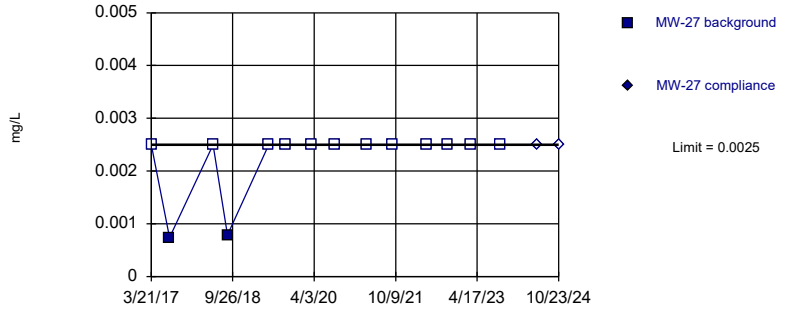
Constituent: Barium Analysis Run 2/27/2025 5:49 PM View: 2024AWQR-MW-27_IntraPL
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 85.71% NDs. Well-constituent pair annual alpha = 0.01715. Individual comparison alpha = 0.008612 (1 of 2).

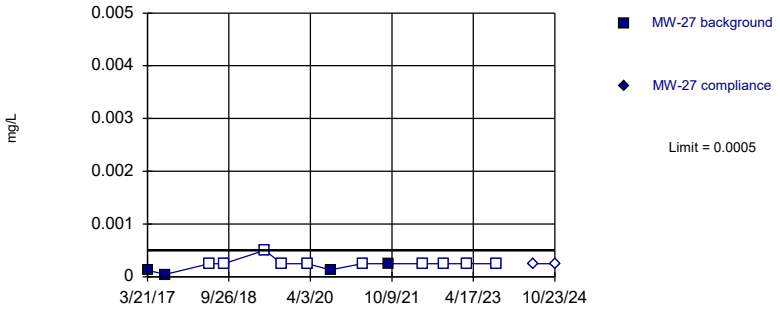
Constituent: Chromium Analysis Run 2/27/2025 5:49 PM View: 2024AWQR-MW-27_IntraPL
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 71.43% NDs. Well-constituent pair annual alpha = 0.01715. Individual comparison alpha = 0.008612 (1 of 2).

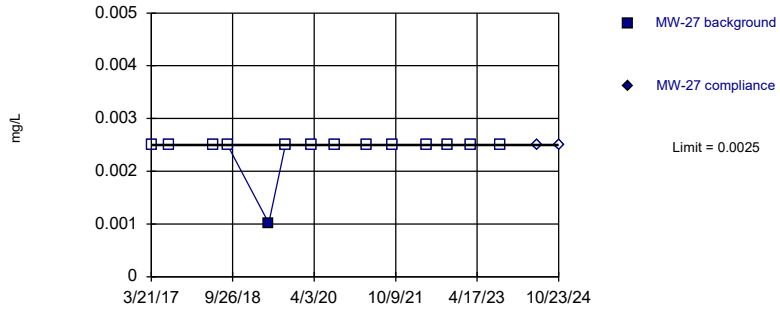
Constituent: Cobalt Analysis Run 2/27/2025 5:49 PM View: 2024AWQR-MW-27_IntraPL
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 92.86% NDs. Well-constituent pair annual alpha = 0.01715. Individual comparison alpha = 0.008612 (1 of 2).

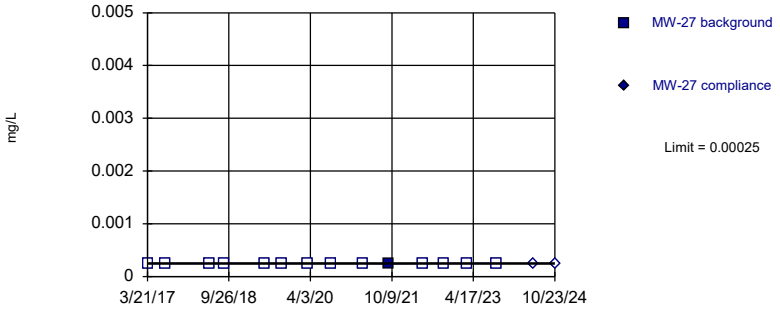
Constituent: Copper Analysis Run 2/27/2025 5:49 PM View: 2024AWQR-MW-27_IntraPL
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 92.86% NDs. Well-constituent pair annual alpha = 0.01715. Individual comparison alpha = 0.008612 (1 of 2).

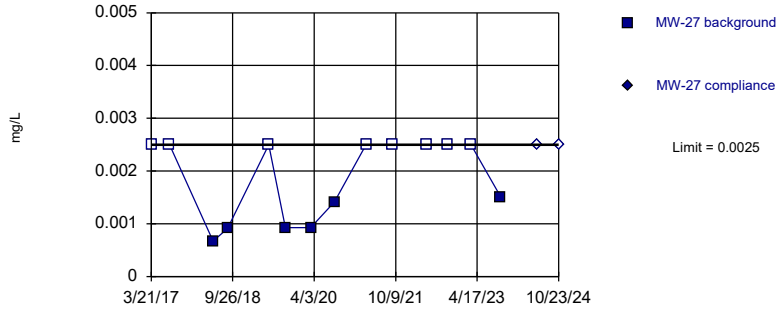
Constituent: Lead Analysis Run 2/27/2025 5:49 PM View: 2024AWQR-MW-27_IntraPL
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 57.14% NDs. Well-constituent pair annual alpha = 0.01715. Individual comparison alpha = 0.008612 (1 of 2).

Constituent: Vanadium Analysis Run 2/27/2025 5:49 PM View: 2024AWQR-MW-27_IntraPL
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

MW-42R Intra Prediction Limit

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master Printed 2/27/2025, 8:09 PM

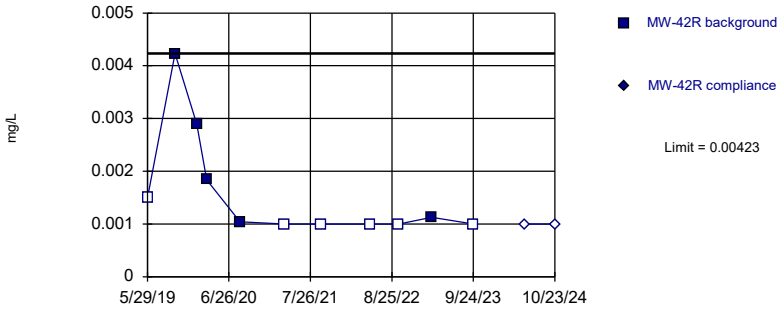
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	%NDs	Transform	Alpha	Method
Antimony (mg/L)	MW-42R	0.00423	n/a	10/23/2024	0.001ND	No	11	n/a	54.55	n/a	0.01276	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	MW-42R	0.001429	n/a	10/23/2024	0.001ND	No	11	n/a	27.27	No	0.0007523	Param Intra 1 of 2
Barium (mg/L)	MW-42R	0.03738	n/a	10/23/2024	0.0177	No	11	n/a	0	No	0.0007523	Param Intra 1 of 2
Beryllium (mg/L)	MW-42R	0.0005	n/a	10/23/2024	0.0005ND	No	11	n/a	90.91	n/a	0.01276	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	MW-42R	0.0004256	n/a	10/23/2024	0.000148J	No	11	n/a	18.18	No	0.0007523	Param Intra 1 of 2
Chromium (mg/L)	MW-42R	0.0025	n/a	10/23/2024	0.0025ND	No	11	n/a	90.91	n/a	0.01276	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	MW-42R	0.0081	n/a	10/23/2024	0.00505	No	12	n/a	0	No	0.0007523	Param Intra 1 of 2
Copper (mg/L)	MW-42R	0.00905	n/a	10/23/2024	0.00463J	No	11	n/a	45.45	n/a	0.01276	NP Intra (normality) ...
Lead (mg/L)	MW-42R	0.000635	n/a	10/23/2024	0.00025ND	No	11	n/a	81.82	n/a	0.01276	NP Intra (NDs) 1 of 2
Nickel (mg/L)	MW-42R	0.05051	n/a	10/23/2024	0.0136	No	11	n/a	0	ln(x)	0.0007523	Param Intra 1 of 2
Selenium (mg/L)	MW-42R	0.01389	n/a	10/23/2024	0.0025ND	No	11	n/a	27.27	sqrt(x)	0.0007523	Param Intra 1 of 2
Thallium (mg/L)	MW-42R	0.001	n/a	10/23/2024	0.0005ND	No	11	n/a	90.91	n/a	0.01276	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	MW-42R	0.002226	n/a	10/23/2024	0.0025ND	No	11	n/a	36.36	No	0.0007523	Param Intra 1 of 2
Zinc (mg/L)	MW-42R	0.0191	n/a	10/23/2024	0.01ND	No	11	n/a	54.55	n/a	0.01276	NP Intra (NDs) 1 of 2

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 54.55% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

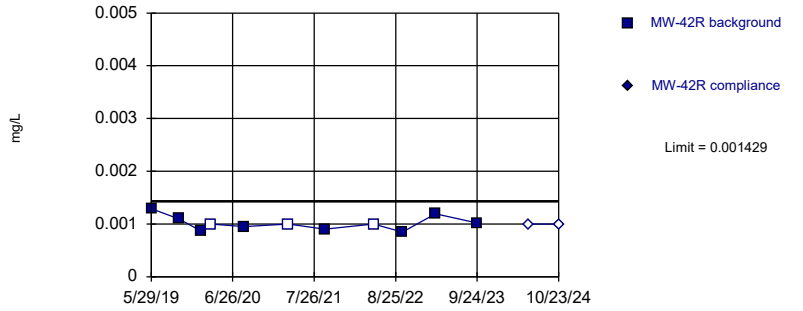
Constituent: Antimony Analysis Run 2/27/2025 8:08 PM View: 2024AWQR-MW-42R_IntraPL
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.001022, Std. Dev.=0.0001506, n=11, 27.27% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9268, critical = 0.792. Kappa = 2.704 (c=14, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

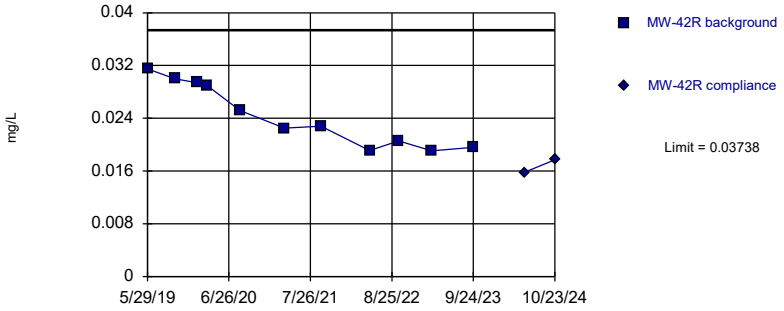
Constituent: Arsenic Analysis Run 2/27/2025 8:08 PM View: 2024AWQR-MW-42R_IntraPL
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.02443, Std. Dev.=0.004789, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8789, critical = 0.792. Kappa = 2.704 (c=14, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

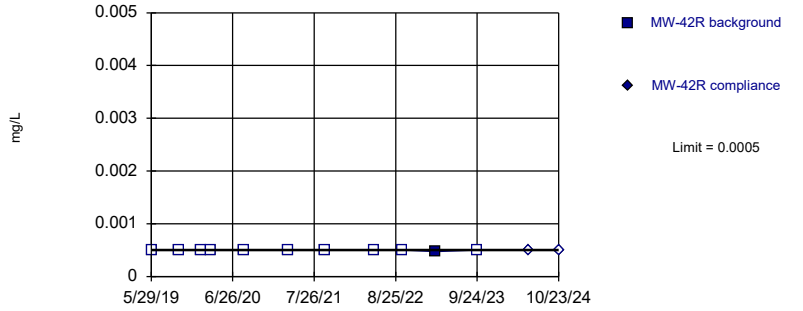
Constituent: Barium Analysis Run 2/27/2025 8:08 PM View: 2024AWQR-MW-42R_IntraPL
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

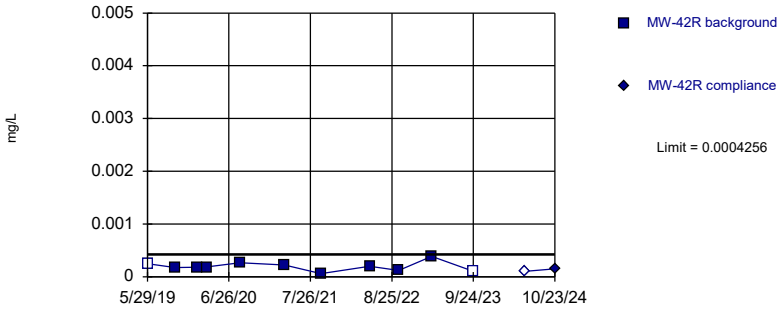
Constituent: Beryllium Analysis Run 2/27/2025 8:08 PM View: 2024AWQR-MW-42R_IntraPL
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.0001948, Std. Dev.=0.00008534, n=11, 18.18% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9579, critical = 0.792. Kappa = 2.704 (c=14, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

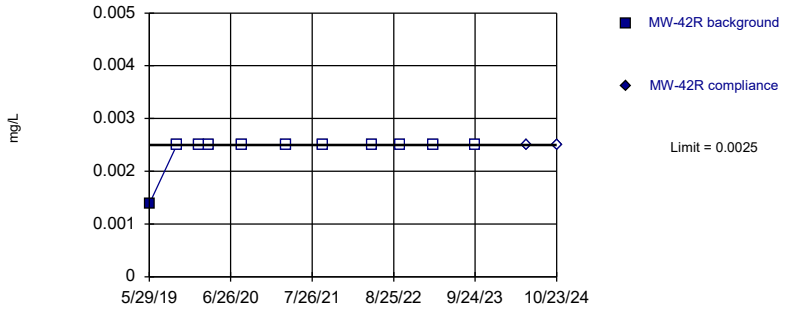
Constituent: Cadmium Analysis Run 2/27/2025 8:08 PM View: 2024AWQR-MW-42R_IntraPL
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

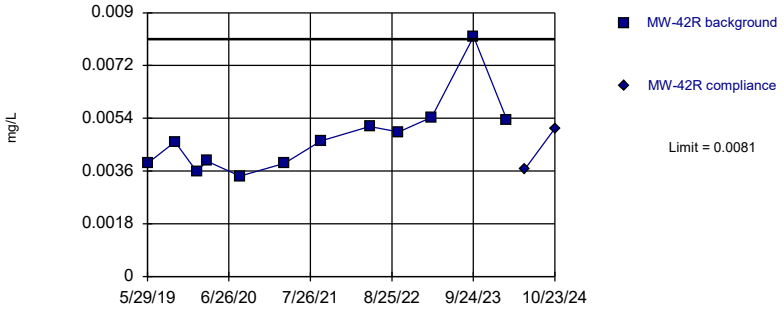
Constituent: Chromium Analysis Run 2/27/2025 8:08 PM View: 2024AWQR-MW-42R_IntraPL
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.004744, Std. Dev.=0.001288, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8207, critical = 0.805. Kappa = 2.606 (c=14, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Cobalt Analysis Run 2/27/2025 8:08 PM View: 2024AWQR-MW-42R_IntraPL
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

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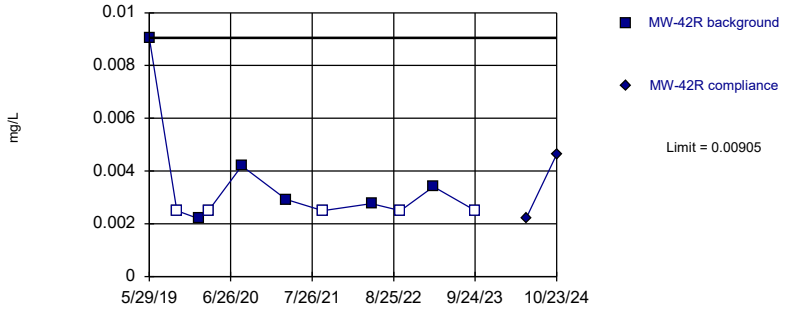
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 11 background values. 45.45% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

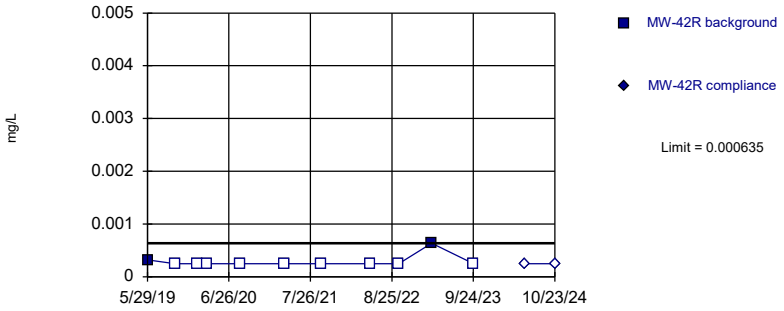
Constituent: Copper Analysis Run 2/27/2025 8:08 PM View: 2024AWQR-MW-42R_IntraPL
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

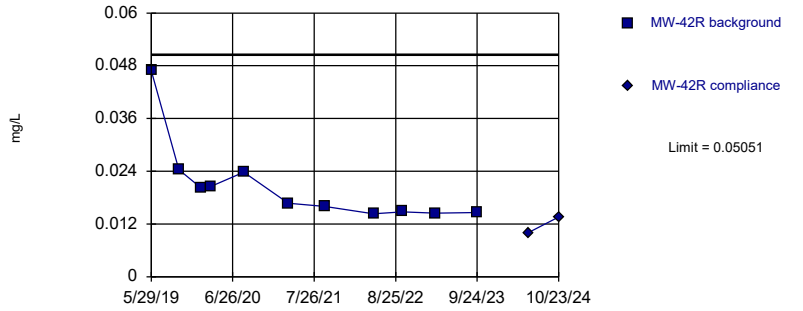
Constituent: Lead Analysis Run 2/27/2025 8:08 PM View: 2024AWQR-MW-42R_IntraPL
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=-3.95, Std. Dev.=0.3566, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8062, critical = 0.792. Kappa = 2.704 (c=14, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

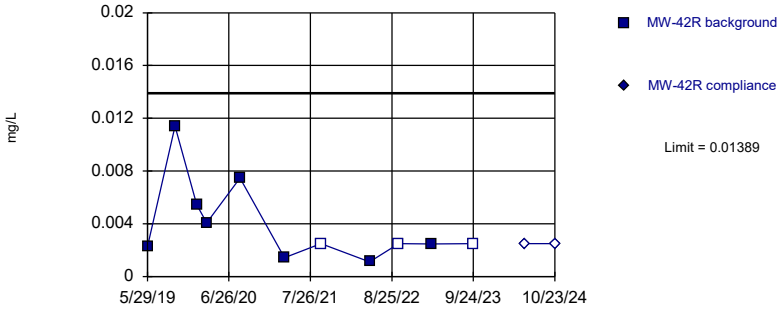
Constituent: Nickel Analysis Run 2/27/2025 8:08 PM View: 2024AWQR-MW-42R_IntraPL
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.05811, Std. Dev.=0.0221, n=11, 27.27% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8762, critical = 0.792. Kappa = 2.704 (c=14, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

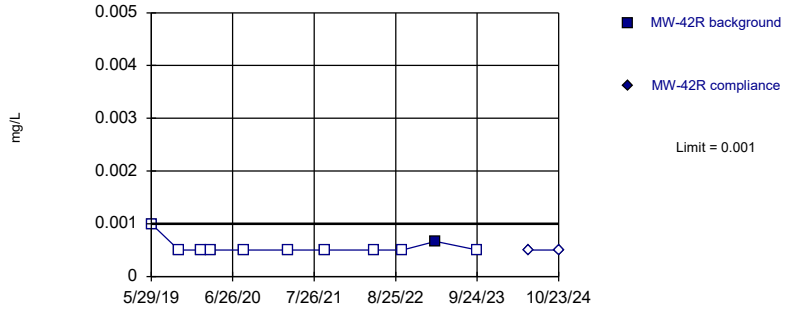
Constituent: Selenium Analysis Run 2/27/2025 8:08 PM View: 2024AWQR-MW-42R_IntraPL
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

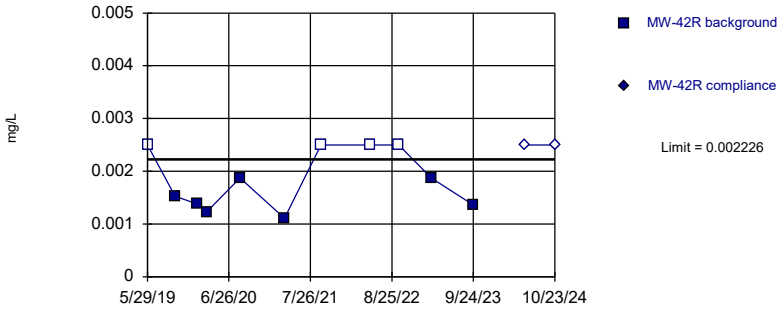
Constituent: Thallium Analysis Run 2/27/2025 8:08 PM View: 2024AWQR-MW-42R_IntraPL
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.001479, Std. Dev.=0.0002763, n=11, 36.36% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8453, critical = 0.792. Kappa = 2.704 (c=14, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Vanadium Analysis Run 2/27/2025 8:08 PM View: 2024AWQR-MW-42R_IntraPL

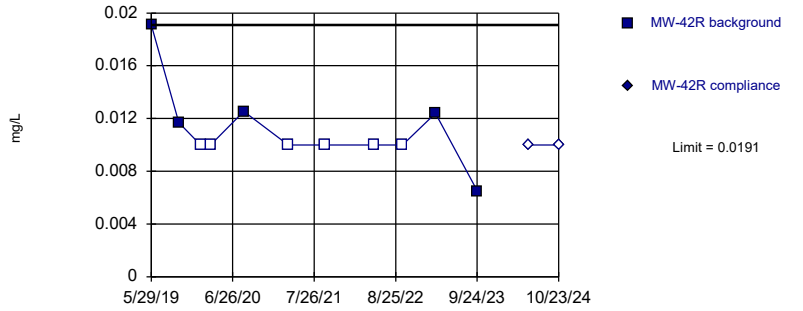
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 54.55% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Zinc Analysis Run 2/27/2025 8:08 PM View: 2024AWQR-MW-42R_IntraPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Open Master

Intrawell Prediction Limits Summary Table and Graphs – Closed MSWLF Unit

MW-15C Intra Prediction Limit

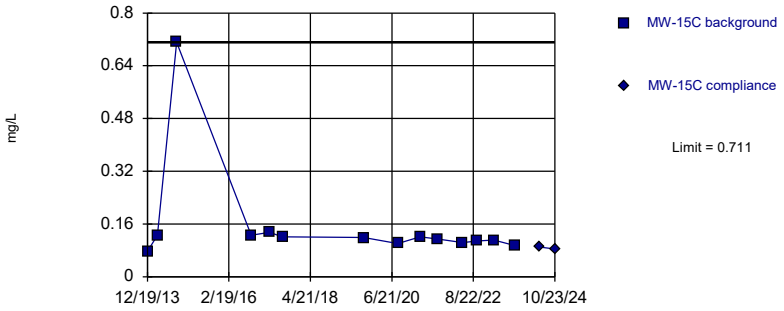
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master Printed 2/28/2025, 4:19 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	%NDs	Transform	Alpha	Method
Barium (mg/L)	MW-15C	0.711	n/a	10/23/2024	0.0842	No	14	n/a	0	n/a	0.008612	NP Intra (normality) ...
Cadmium (mg/L)	MW-15C	0.01272	n/a	10/23/2024	0.0001ND	No	8	n/a	25	sqrt(x)	0.001504	Param Intra 1 of 2
Cobalt (mg/L)	MW-15C	0.002712	n/a	10/23/2024	0.000301J	No	17	n/a	11.76	ln(x)	0.001504	Param Intra 1 of 2
Nickel (mg/L)	MW-15C	0.01417	n/a	10/23/2024	0.00705	No	11	n/a	0	No	0.001504	Param Intra 1 of 2
Zinc (mg/L)	MW-15C	0.0426	n/a	10/23/2024	0.01ND	No	8	n/a	75	n/a	0.02144	NP Intra (NDs) 1 of 2

Within Limit

Prediction Limit

Intrawell 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 14 background values. Well-constituent pair annual alpha = 0.01715. Individual comparison alpha = 0.008612 (1 of 2).

Constituent: Barium Analysis Run 2/28/2025 4:17 PM View: 2024AWQR-MW-15C_IntraPL

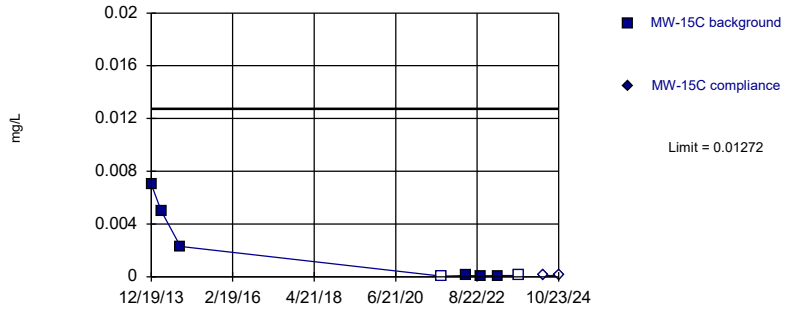
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.03102, Std. Dev.=0.02963, n=8, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.75, critical = 0.749. Kappa = 2.76 (c=5, w=7, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Cadmium Analysis Run 2/28/2025 4:17 PM View: 2024AWQR-MW-15C_IntraPL

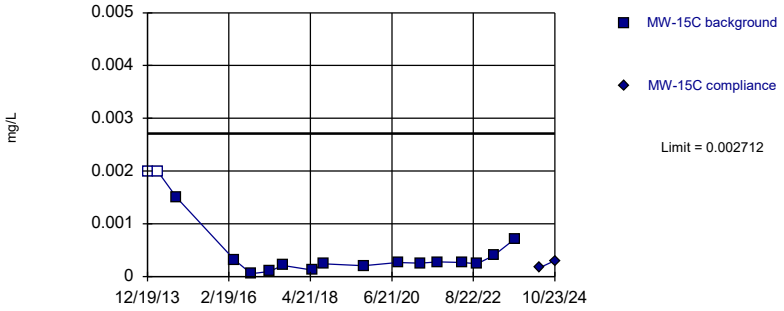
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=-8.038, Std. Dev.=0.9943, n=17, 11.76% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9059, critical = 0.851. Kappa = 2.14 (c=5, w=7, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

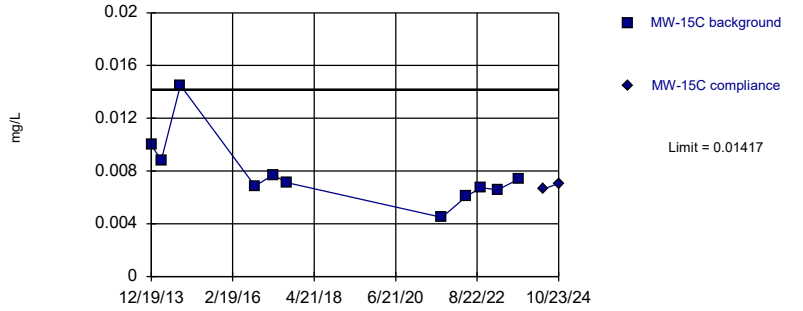
Constituent: Cobalt Analysis Run 2/28/2025 4:17 PM View: 2024AWQR-MW-15C_IntraPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.007845, Std. Dev.=0.002621, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8358, critical = 0.792. Kappa = 2.413 (c=5, w=7, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Nickel Analysis Run 2/28/2025 4:17 PM View: 2024AWQR-MW-15C_IntraPL

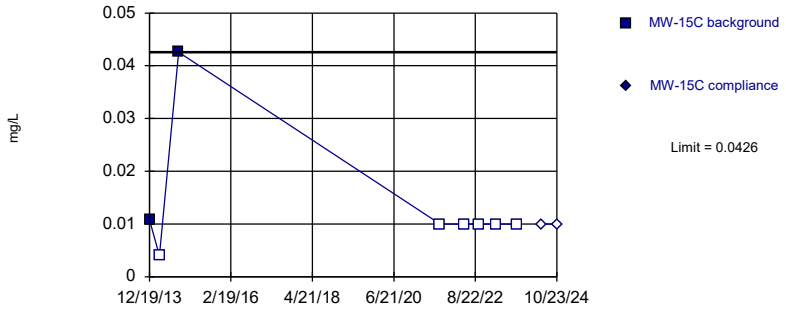
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 75% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2).

Constituent: Zinc Analysis Run 2/28/2025 4:18 PM View: 2024AWQR-MW-15C_IntraPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

MW-44 Intra Prediction Limit

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master Printed 2/28/2025, 4:31 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	%NDs	Transform	Alpha	Method
Arsenic (mg/L)	MW-44	0.02119	n/a	10/23/2024	0.0118	No	7	n/a	14.29	No	0.00188	Param Intra 1 of 2
Barium (mg/L)	MW-44	0.04824	n/a	10/23/2024	0.0193	No	7	n/a	0	No	0.00188	Param Intra 1 of 2
Cobalt (mg/L)	MW-44	0.005843	n/a	10/23/2024	0.000294J	No	7	n/a	0	No	0.00188	Param Intra 1 of 2
Nickel (mg/L)	MW-44	0.0025	n/a	10/23/2024	0.0025ND	No	5	n/a	80	n/a	0.04755	NP Intra (NDs) 1 of 2

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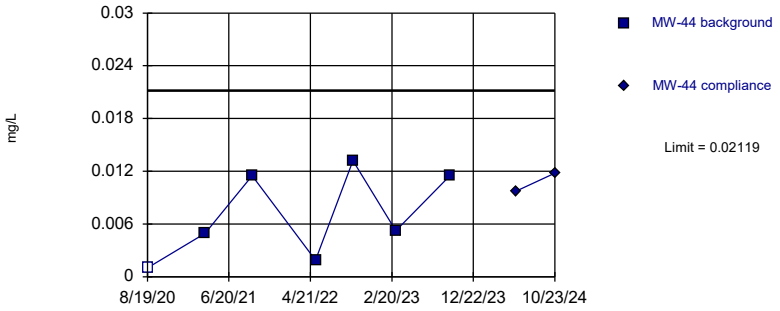
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.007041, Std. Dev.=0.004971, n=7, 14.29% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8816, critical = 0.73. Kappa = 2.847 (c=4, w=7, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Arsenic Analysis Run 2/28/2025 4:30 PM View: 2024AWQR-MW-44_IntraPL

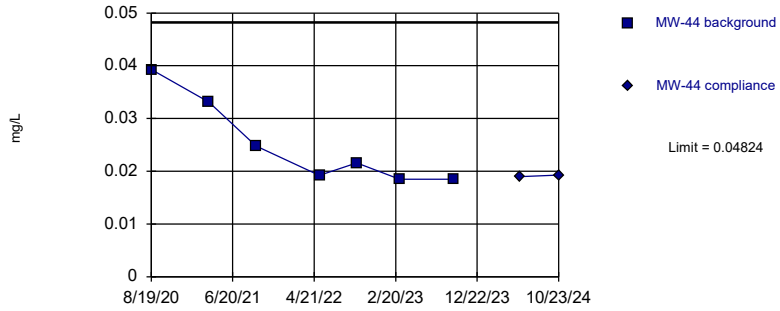
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.025, Std. Dev.=0.008163, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8261, critical = 0.73. Kappa = 2.847 (c=4, w=7, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Barium Analysis Run 2/28/2025 4:30 PM View: 2024AWQR-MW-44_IntraPL

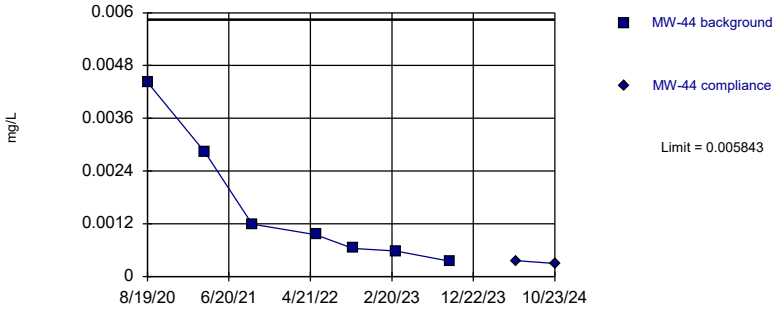
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.001564, Std. Dev.=0.001503, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8011, critical = 0.73. Kappa = 2.847 (c=4, w=7, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Cobalt Analysis Run 2/28/2025 4:30 PM View: 2024AWQR-MW-44_IntraPL

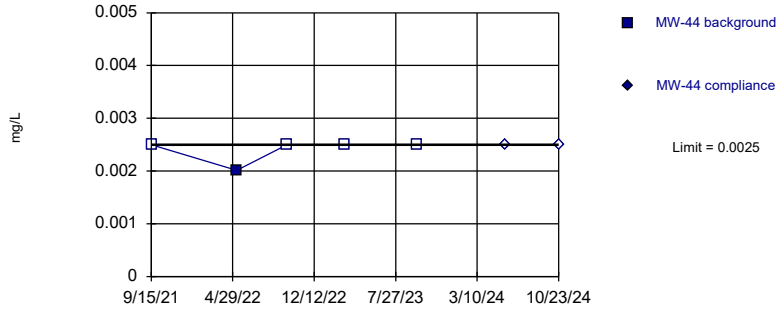
Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 5 background values. 80% NDs. Well-constituent pair annual alpha = 0.09284. Individual comparison alpha = 0.04755 (1 of 2).

Constituent: Nickel Analysis Run 2/28/2025 4:30 PM View: 2024AWQR-MW-44_IntraPL

Cherokee County Sanitary Landfill Client: SCS Engineers Data: Sanitas CHRKE Closed Master

Sen's Slope/Mann-Kendall Summary Table and Graphs –
Closed MSWLF Unit

AM AZPOC Trend Test

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM Printed 2/28/2025, 6:05 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
1,1-Dichloroethane (ug/L)	MW-13R	0.01602	3	21	No	8	37.5	0.01	NP
Acrylonitrile (ug/L)	MW-9R	-1.315	-19	-21	No	8	87.5	0.01	NP
Arsenic (mg/L)	MW-10R	-0.0003711	-8	-21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-12	0.0003609	6	21	No	8	12.5	0.01	NP
Arsenic (mg/L)	MW-13R	0.001858	11	21	No	8	37.5	0.01	NP
Arsenic (mg/L)	MW-44	0.001568	9	21	No	8	0	0.01	NP
Barium (mg/L)	MW-7	-0.00002897	-2	-21	No	8	0	0.01	NP
Barium (mg/L)	**MW-9R**	**0.007121**	**26**	**21**	**Yes**	**8**	**0**	**0.01**	**NP**
Barium (mg/L)	MW-10R	-0.004455	-6	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-12	0.0008239	2	21	No	8	0	0.01	NP
Barium (mg/L)	MW-13R	-0.03342	-12	-21	No	8	0	0.01	NP
Barium (mg/L)	**MW-15C**	**-0.009629**	**-22**	**-21**	**Yes**	**8**	**0**	**0.01**	**NP**
Barium (mg/L)	MW-44	-0.001958	-13	-21	No	8	0	0.01	NP
Cadmium (mg/L)	MW-9R	-0.00002748	-15	-21	No	8	37.5	0.01	NP
Cadmium (mg/L)	MW-12	0.000008663	7	21	No	8	50	0.01	NP
Cadmium (mg/L)	MW-15C	0	1	21	No	8	50	0.01	NP
Carbon Disulfide (ug/L)	MW-9R	-0.1678	-12	-21	No	8	12.5	0.01	NP
Chlorobenzene (ug/L)	MW-13R	-0.5744	-18	-21	No	8	12.5	0.01	NP
Chlorobenzene (ug/L)	MW-15C	0	-7	-21	No	8	87.5	0.01	NP
Chloroethane (ug/L)	MW-15C	0	7	21	No	8	87.5	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-7	-0.0946	-10	-21	No	8	0	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-10R	-0.2283	-16	-21	No	8	12.5	0.01	NP
Cobalt (mg/L)	MW-7	0.00004231	11	21	No	8	25	0.01	NP
Cobalt (mg/L)	MW-9R	0.0006987	16	21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-10R	-0.0004451	-11	-21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-12	0.0004315	12	21	No	8	12.5	0.01	NP
Cobalt (mg/L)	MW-13R	-0.001222	-10	-21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-15C	0.00001256	4	21	No	8	0	0.01	NP
Cobalt (mg/L)	**MW-44**	**-0.00039**	**-26**	**-21**	**Yes**	**8**	**0**	**0.01**	**NP**
Copper (mg/L)	MW-7	0	5	21	No	8	87.5	0.01	NP
Copper (mg/L)	MW-10R	0	5	21	No	8	87.5	0.01	NP
Copper (mg/L)	MW-13R	0	7	21	No	8	87.5	0.01	NP
Lead (mg/L)	MW-10R	-0.00002	-2	-21	No	8	0	0.01	NP
Lead (mg/L)	MW-12	0	4	21	No	8	50	0.01	NP
Nickel (mg/L)	MW-9R	0.00166	6	21	No	8	0	0.01	NP
Nickel (mg/L)	MW-10R	0.0002952	4	21	No	8	0	0.01	NP
Nickel (mg/L)	MW-12	0.003772	10	21	No	8	0	0.01	NP
Nickel (mg/L)	MW-13R	-0.0004919	-14	-21	No	8	0	0.01	NP
Nickel (mg/L)	MW-15C	0.0002782	8	21	No	8	0	0.01	NP
Selenium (mg/L)	MW-12	0.0007979	16	21	No	8	62.5	0.01	NP
Styrene (ug/L)	MW-9R	0	-7	-21	No	8	87.5	0.01	NP
Trichloroethene (ug/L)	**MW-7**	**-0.1407**	**-22**	**-21**	**Yes**	**8**	**0**	**0.01**	**NP**
Zinc (mg/L)	MW-15C	0	-7	-21	No	8	87.5	0.01	NP

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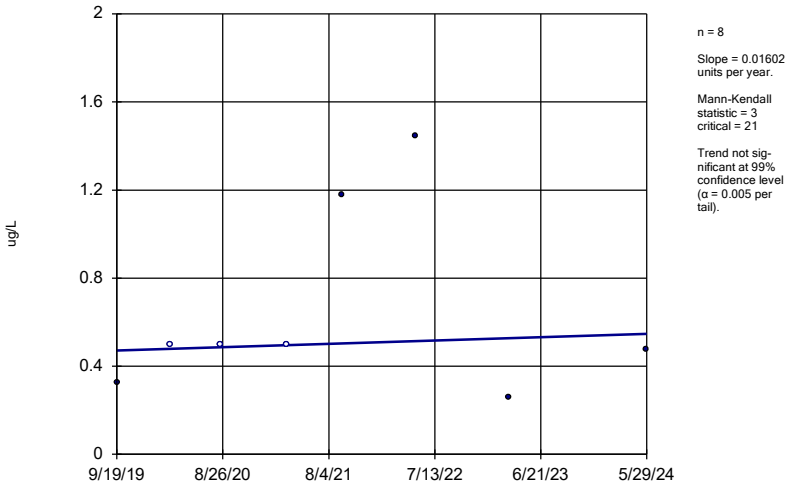
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-13R



Constituent: 1,1-Dichloroethane Analysis Run 2/28/2025 6:03 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

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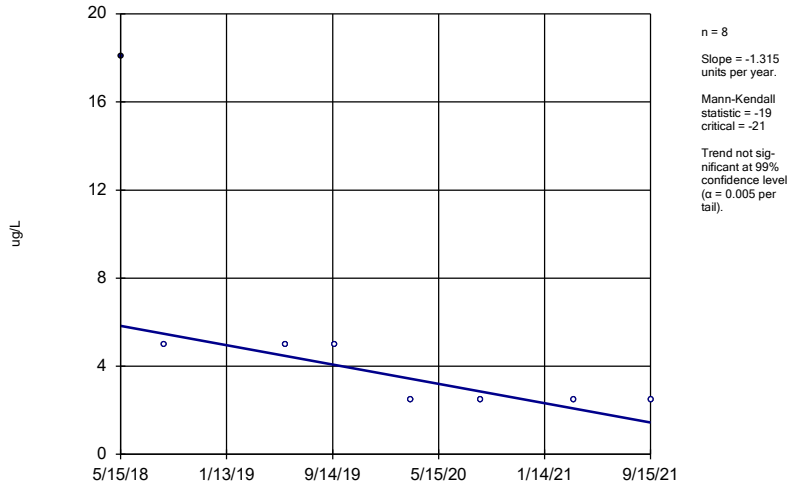
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-9R



Constituent: Acrylonitrile Analysis Run 2/28/2025 6:03 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

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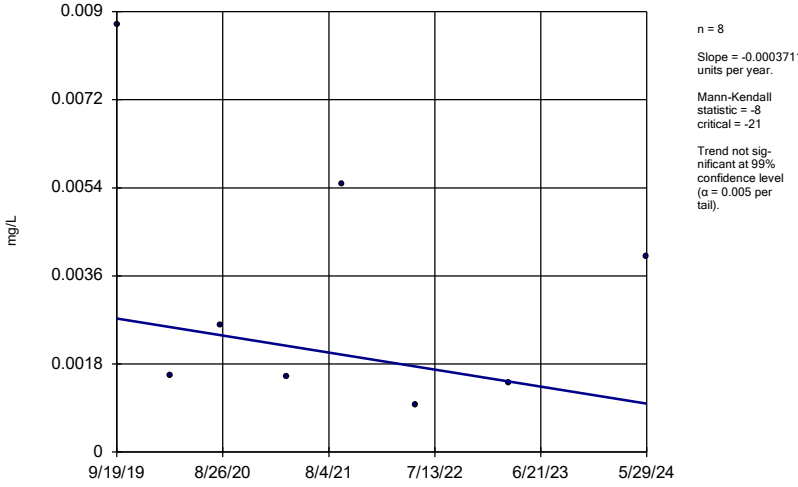
Sen's Slope Estimator

MW-10R



Constituent: Arsenic Analysis Run 2/28/2025 6:03 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

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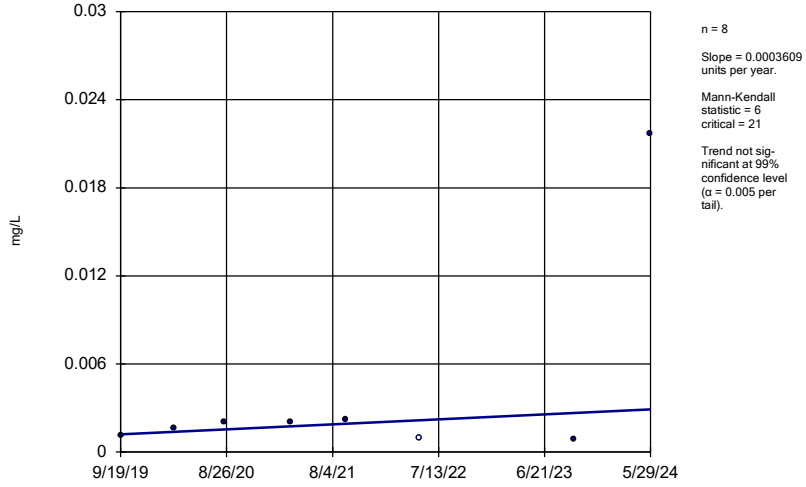
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-12

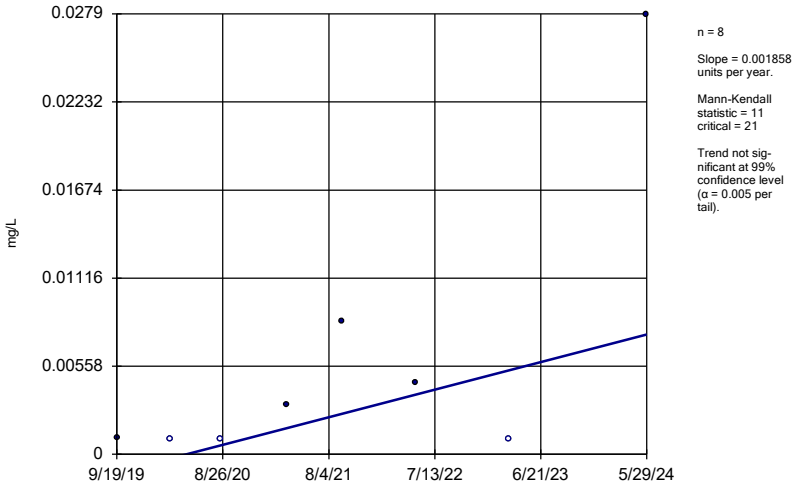


Constituent: Arsenic Analysis Run 2/28/2025 6:03 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-13R



n = 8

Slope = 0.001858 units per year.

Mann-Kendall statistic = 11
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 2/28/2025 6:03 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

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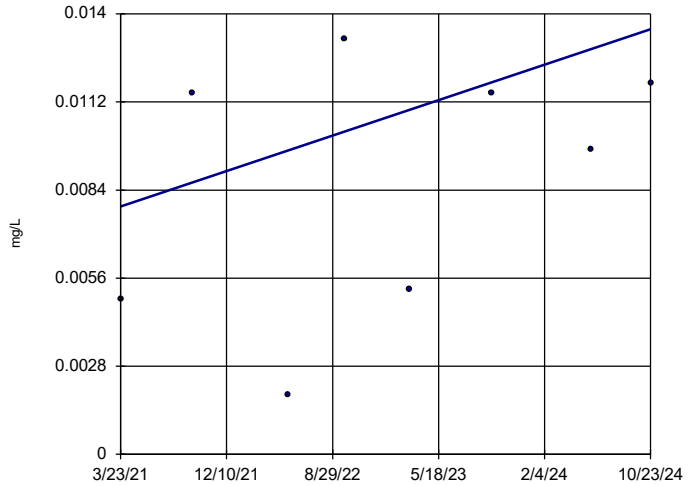
Sen's Slope Estimator

MW-44



n = 8

Slope = 0.001568 units per year.

Mann-Kendall statistic = 9
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 2/28/2025 6:03 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

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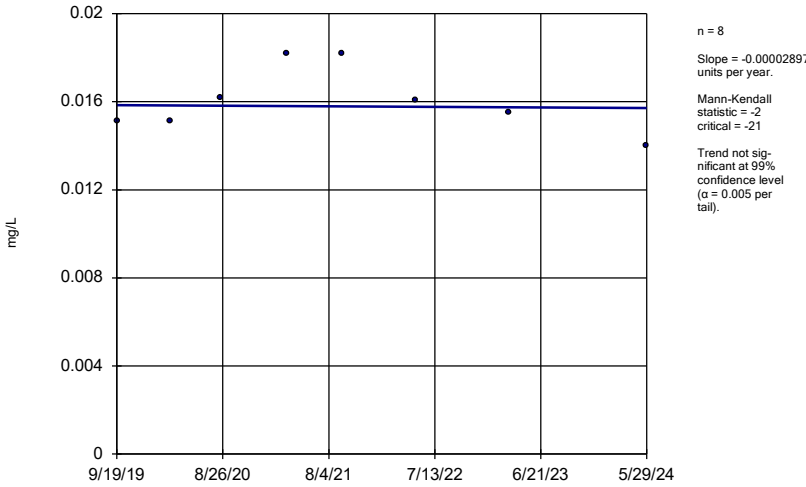
Sen's Slope Estimator

MW-7



n = 8

Slope = -0.00002897 units per year.

Mann-Kendall statistic = -2
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 2/28/2025 6:03 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

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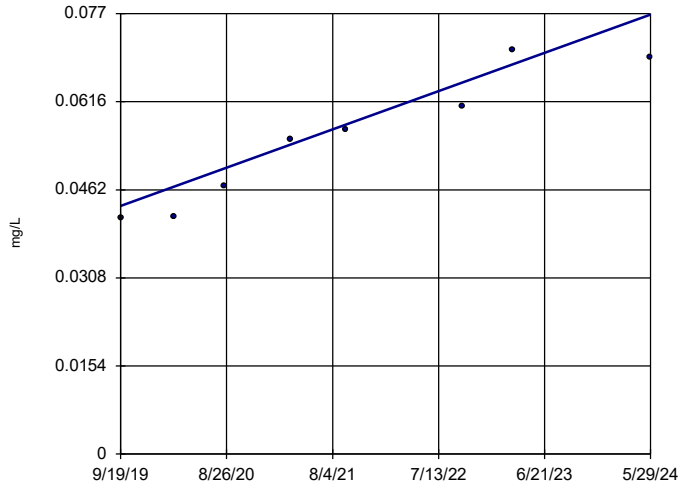
Sen's Slope Estimator

MW-9R



n = 8

Slope = 0.007121 units per year.

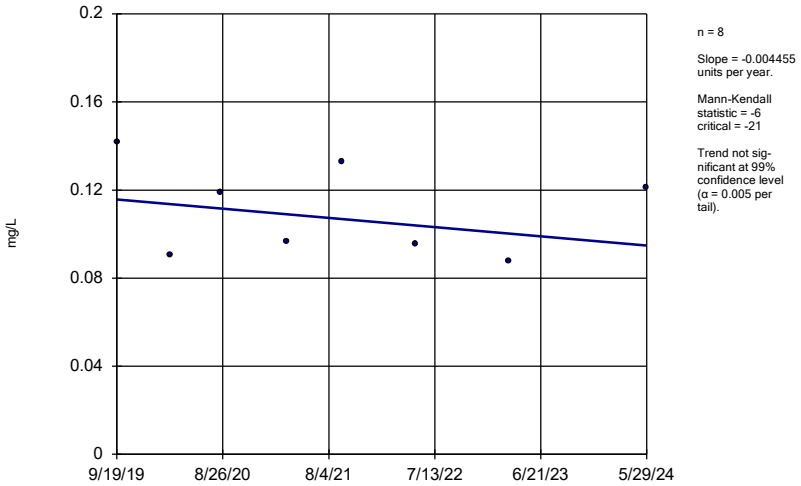
Mann-Kendall statistic = 26
critical = 21

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 2/28/2025 6:03 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Sen's Slope Estimator

MW-10R



n = 8

Slope = -0.004455 units per year.

Mann-Kendall statistic = -6
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 2/28/2025 6:03 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

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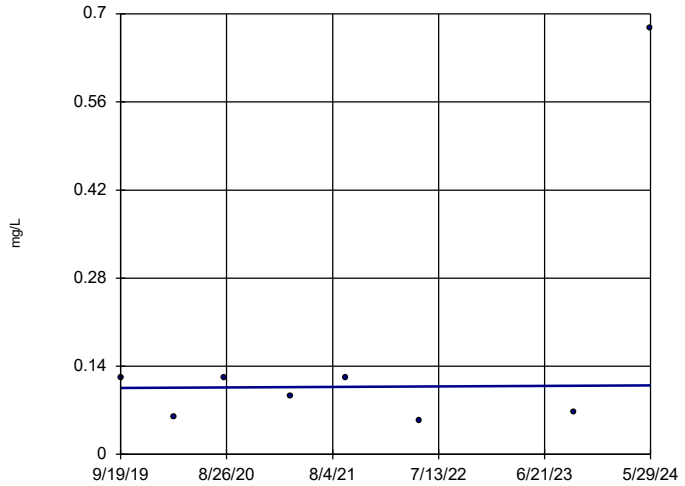
Sen's Slope Estimator

MW-12



n = 8

Slope = 0.0008239 units per year.

Mann-Kendall statistic = 2
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 2/28/2025 6:03 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

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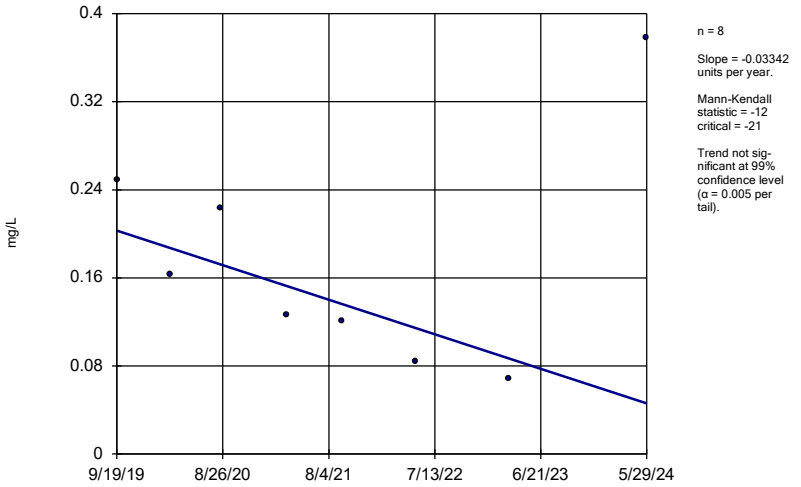
Sen's Slope Estimator

MW-13R



n = 8

Slope = -0.03342 units per year.

Mann-Kendall statistic = -12
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 2/28/2025 6:03 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

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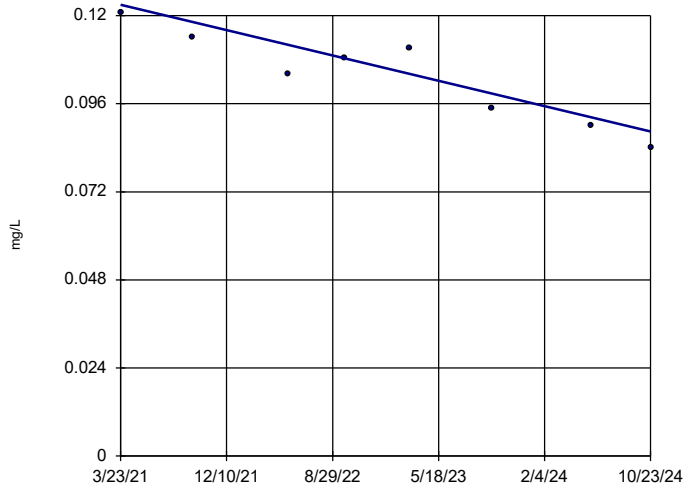
Sen's Slope Estimator

MW-15C



n = 8

Slope = -0.009629 units per year.

Mann-Kendall statistic = -22
critical = -21

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 2/28/2025 6:03 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

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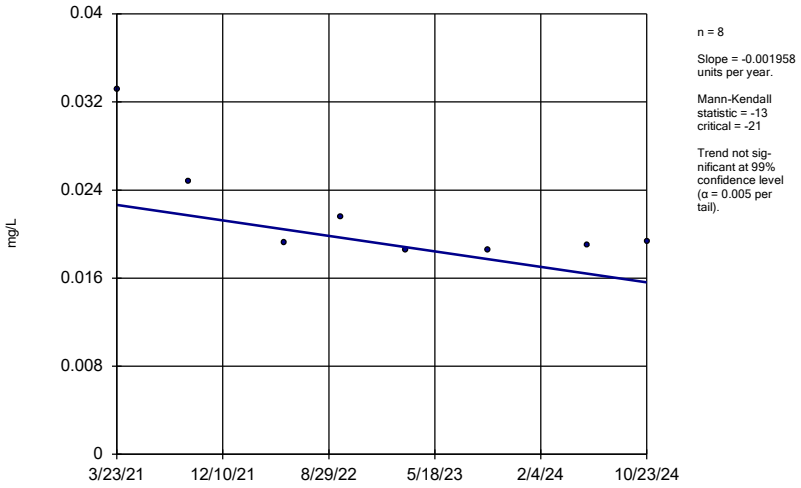
Sen's Slope Estimator

MW-44



Constituent: Barium Analysis Run 2/28/2025 6:03 PM View: 2024AWQR-Mann_Kendall

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

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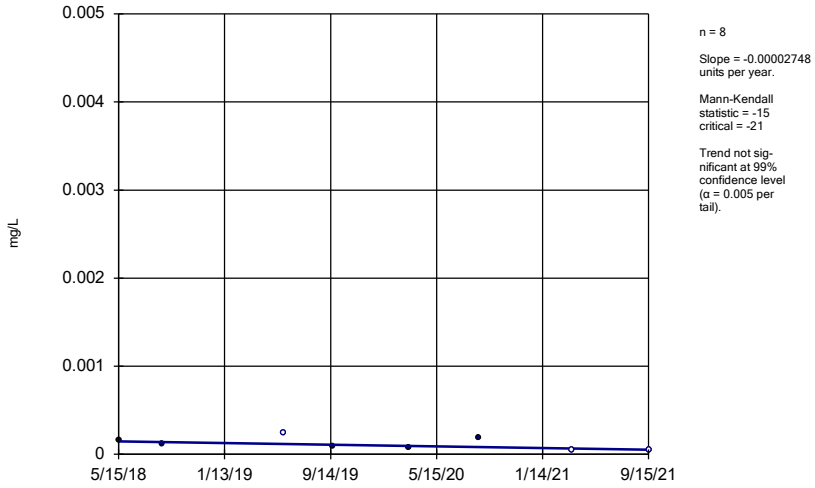
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-9R



Constituent: Cadmium Analysis Run 2/28/2025 6:03 PM View: 2024AWQR-Mann_Kendall

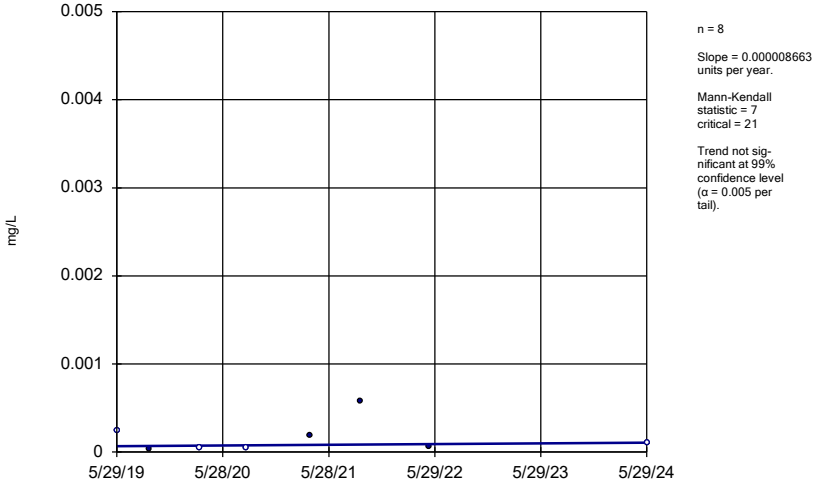
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-12



Constituent: Cadmium Analysis Run 2/28/2025 6:03 PM View: 2024AWQR-Mann_Kendall

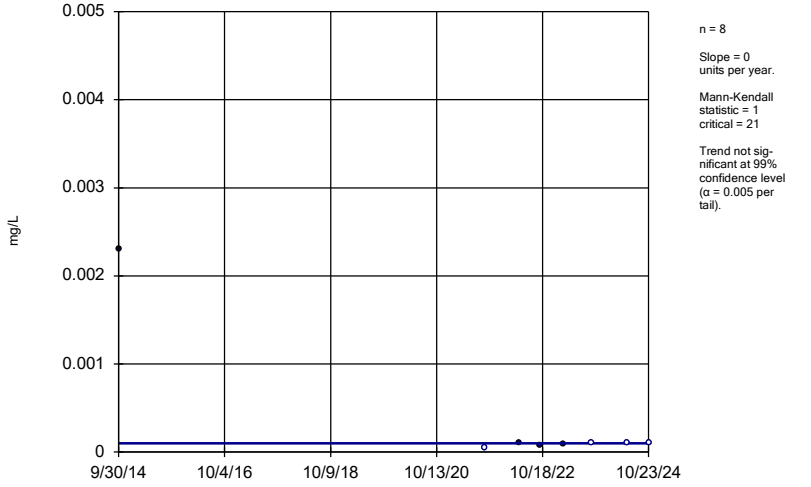
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-15C



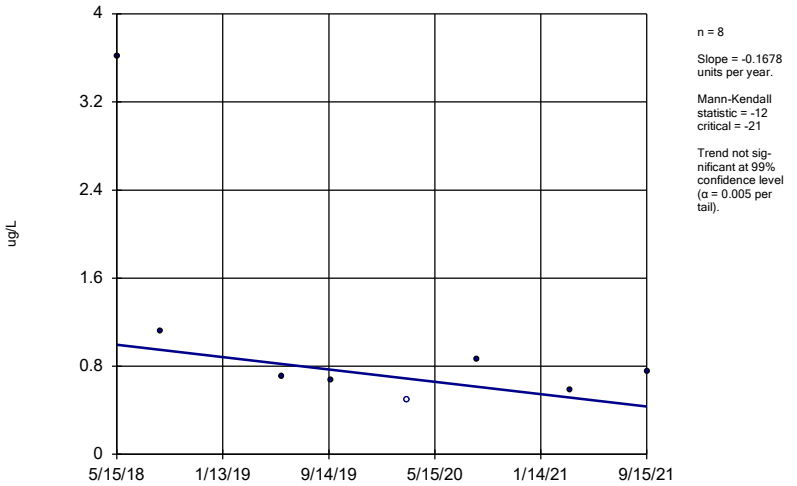
Constituent: Cadmium Analysis Run 2/28/2025 6:03 PM View: 2024AWQR-Mann_Kendall

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-9R

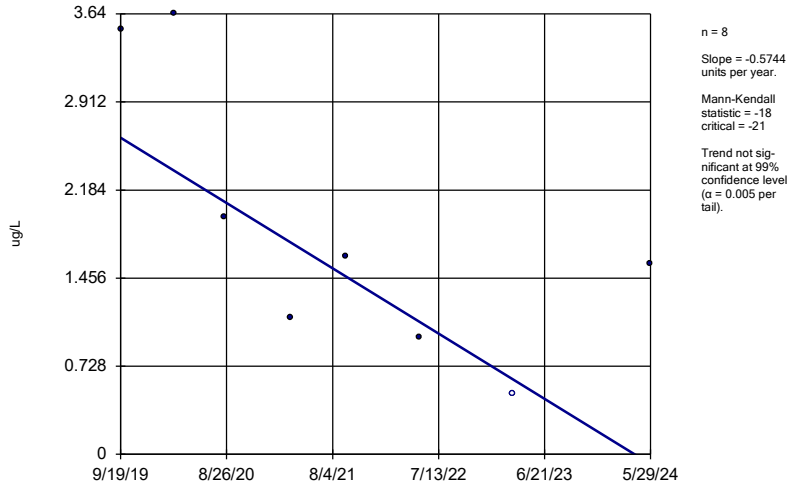


Constituent: Carbon Disulfide Analysis Run 2/28/2025 6:03 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-13R

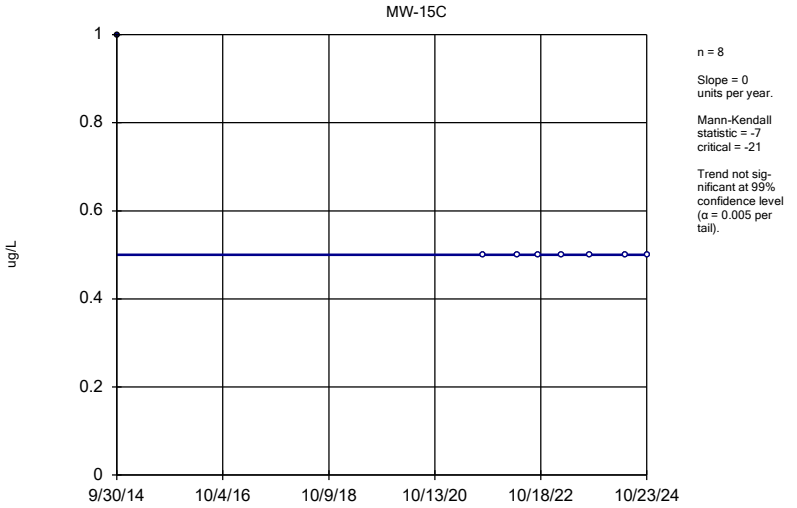


Constituent: Chlorobenzene Analysis Run 2/28/2025 6:03 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-15C

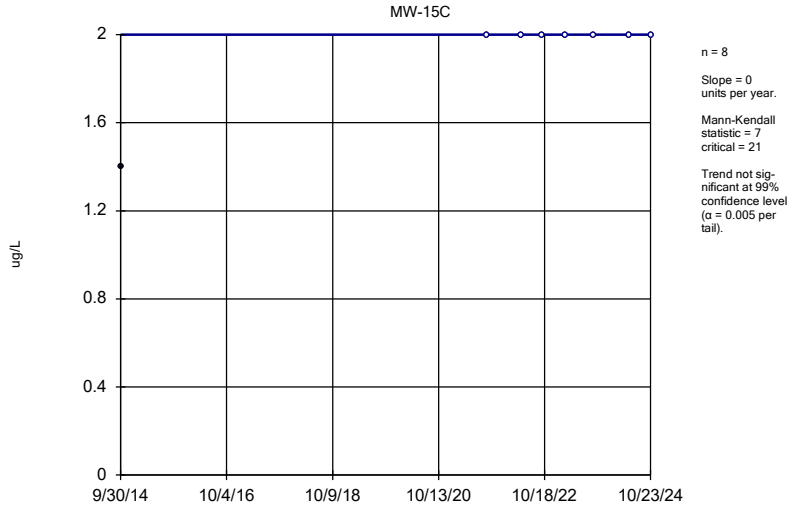


Constituent: Chlorobenzene Analysis Run 2/28/2025 6:03 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

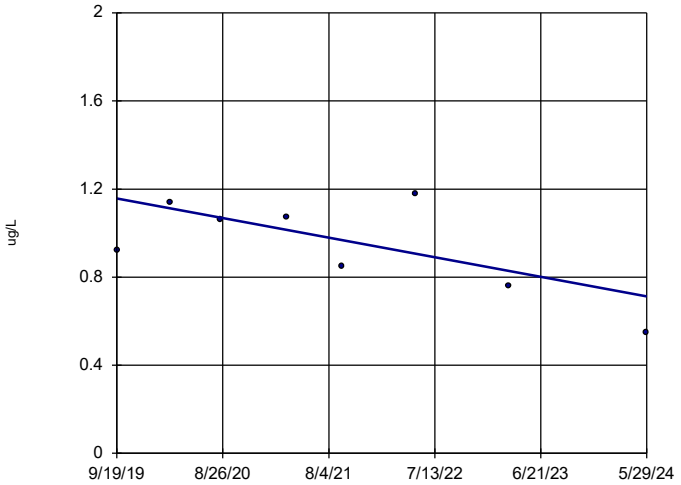
MW-15C



Constituent: Chloroethane Analysis Run 2/28/2025 6:03 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Sen's Slope Estimator

MW-7



n = 8

Slope = -0.0946 units per year.

Mann-Kendall statistic = -10
critical = -21

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

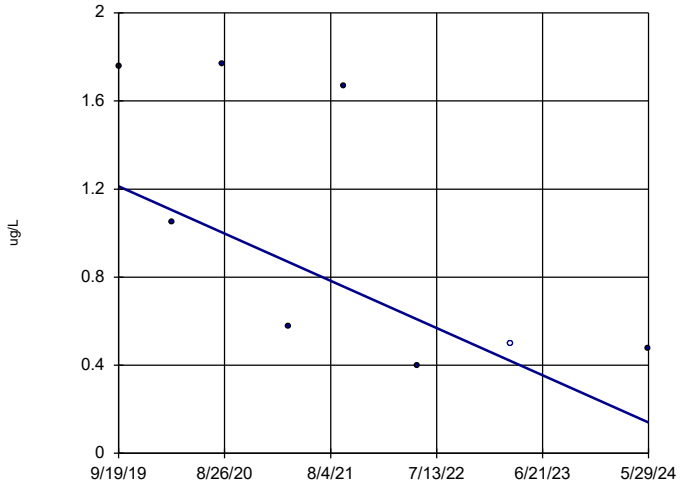
Constituent: cis-1,2-Dichloroethene Analysis Run 2/28/2025 6:03 PM View: 2024AWQR-Mann_Kendall

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-10R



n = 8

Slope = -0.2283 units per year.

Mann-Kendall statistic = -16
critical = -21

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

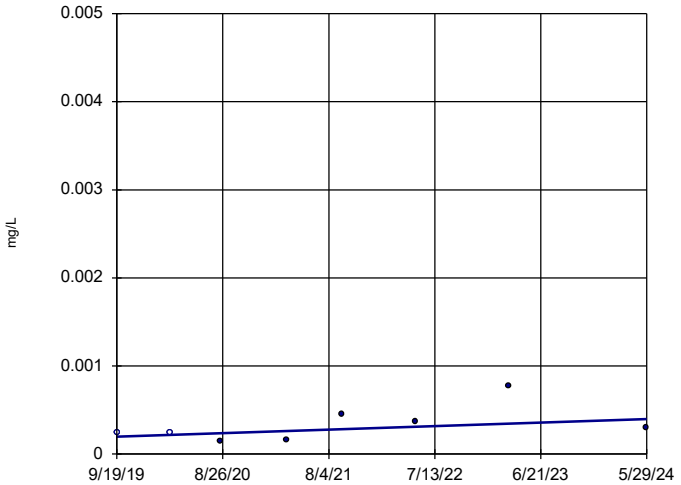
Constituent: cis-1,2-Dichloroethene Analysis Run 2/28/2025 6:03 PM View: 2024AWQR-Mann_Kendall

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-7



n = 8

Slope = 0.00004231 units per year.

Mann-Kendall statistic = 11
critical = 21

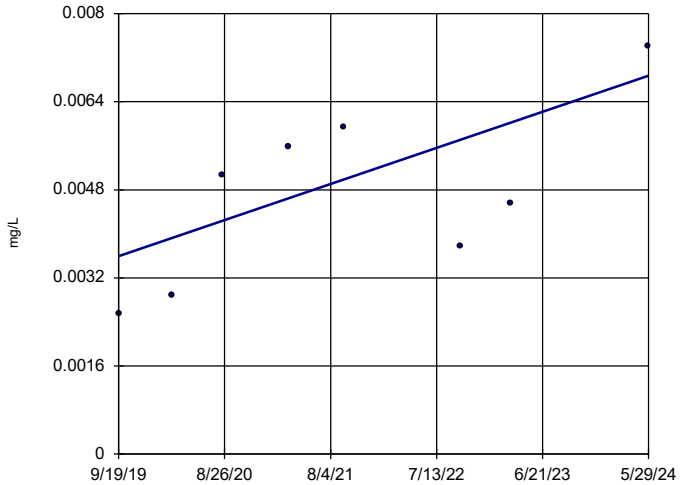
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 2/28/2025 6:03 PM View: 2024AWQR-Mann_Kendall

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Sen's Slope Estimator

MW-9R



n = 8

Slope = 0.0006987 units per year.

Mann-Kendall statistic = 16
critical = 21

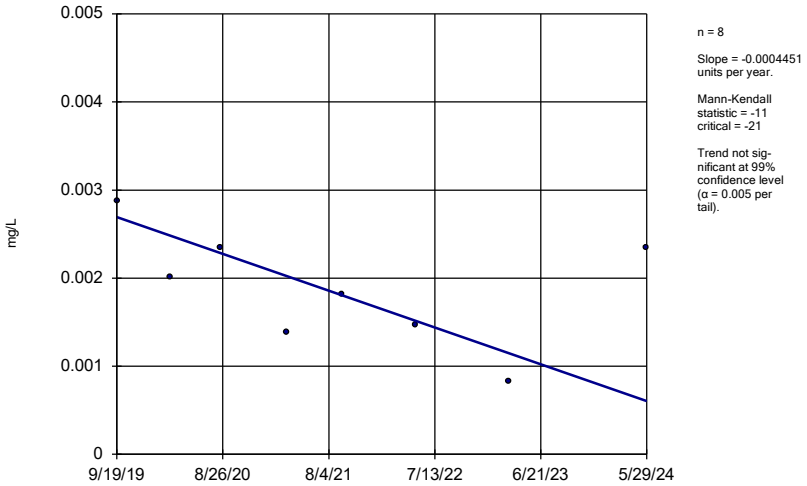
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 2/28/2025 6:03 PM View: 2024AWQR-Mann_Kendall

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Sen's Slope Estimator

MW-10R



n = 8

Slope = -0.0004451 units per year.

Mann-Kendall statistic = -11
critical = -21

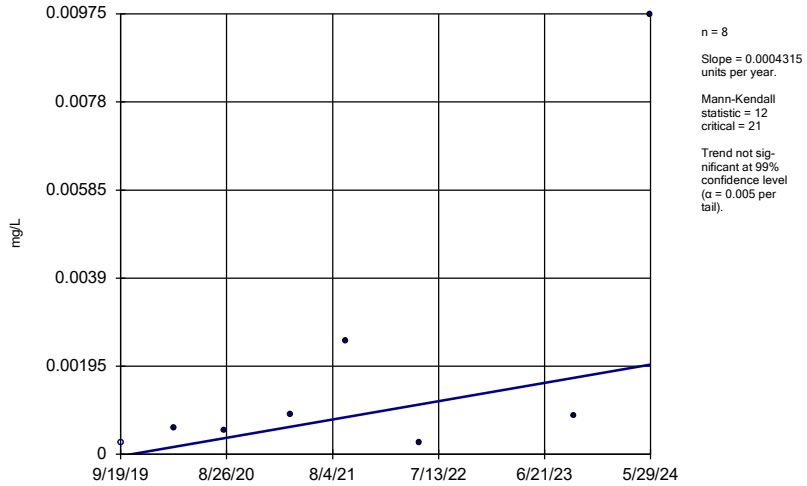
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 2/28/2025 6:03 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-12



n = 8

Slope = 0.0004315 units per year.

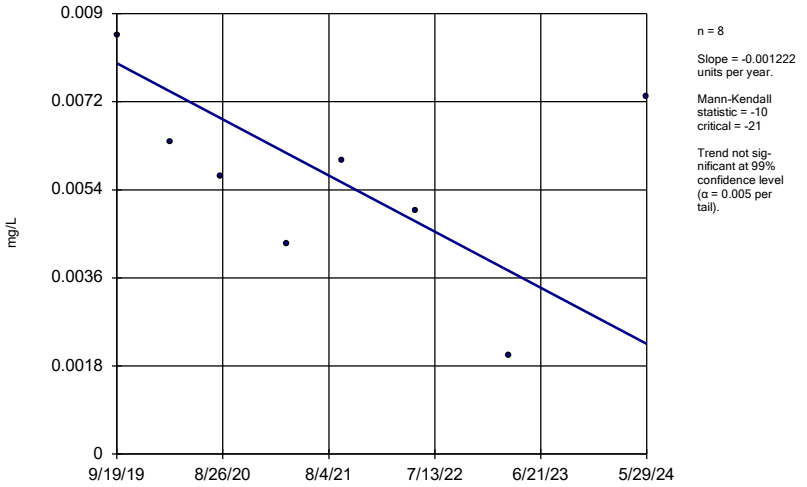
Mann-Kendall statistic = 12
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 2/28/2025 6:03 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Sen's Slope Estimator

MW-13R



n = 8

Slope = -0.001222 units per year.

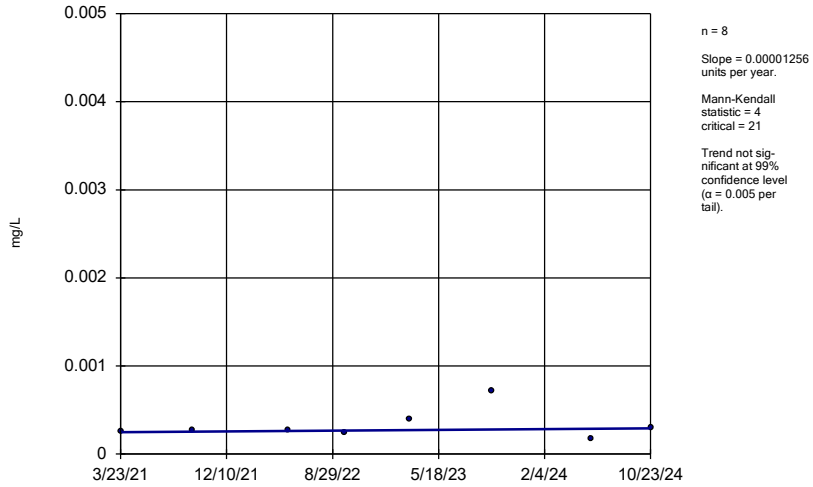
Mann-Kendall statistic = -10
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 2/28/2025 6:03 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Sen's Slope Estimator

MW-15C



n = 8

Slope = 0.00001256 units per year.

Mann-Kendall statistic = 4
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 2/28/2025 6:03 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

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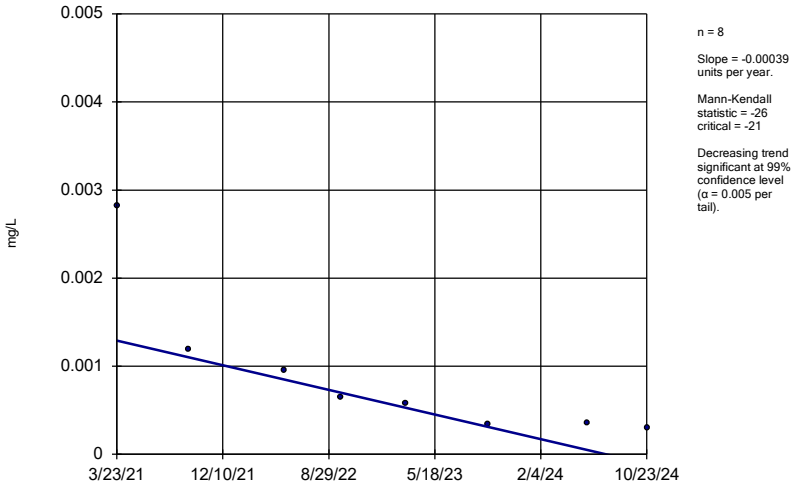
Sen's Slope Estimator

MW-44



Constituent: Cobalt Analysis Run 2/28/2025 6:04 PM View: 2024AWQR-Mann_Kendall

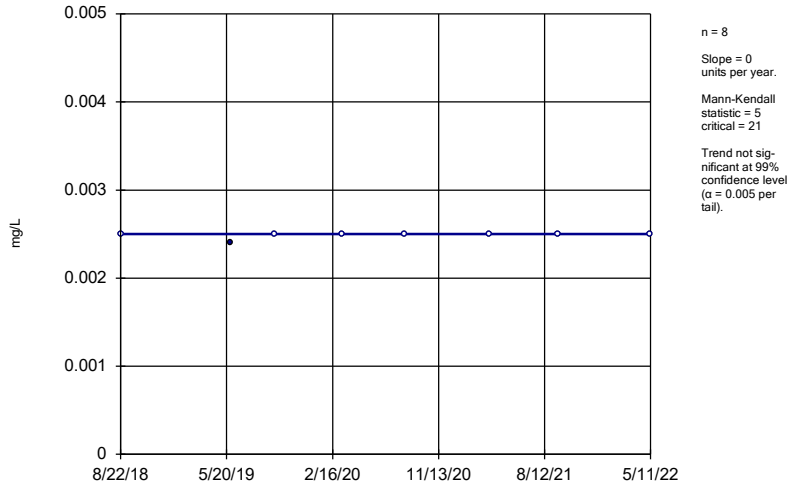
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-7



Constituent: Copper Analysis Run 2/28/2025 6:04 PM View: 2024AWQR-Mann_Kendall

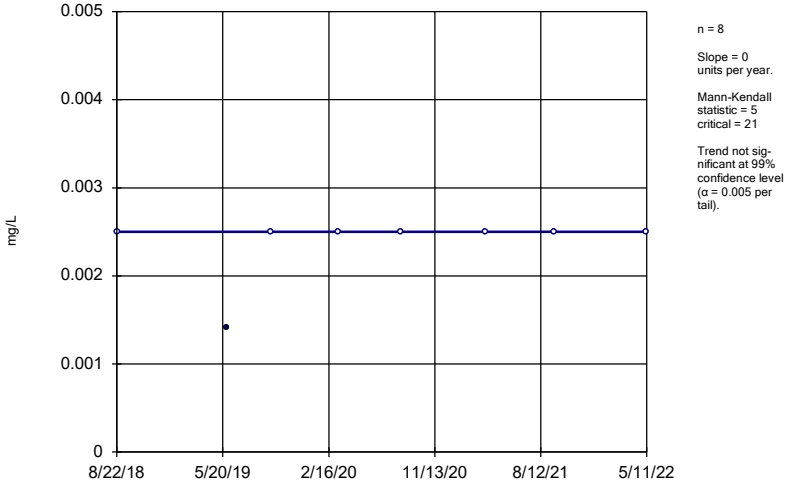
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-10R



Constituent: Copper Analysis Run 2/28/2025 6:04 PM View: 2024AWQR-Mann_Kendall

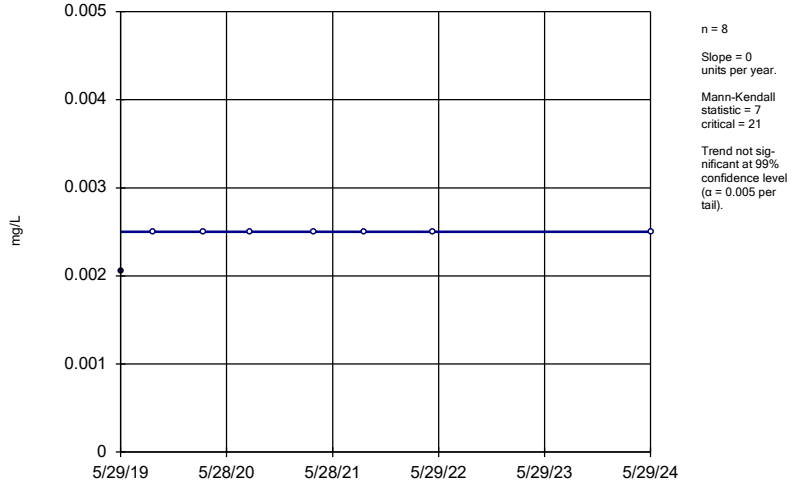
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-13R

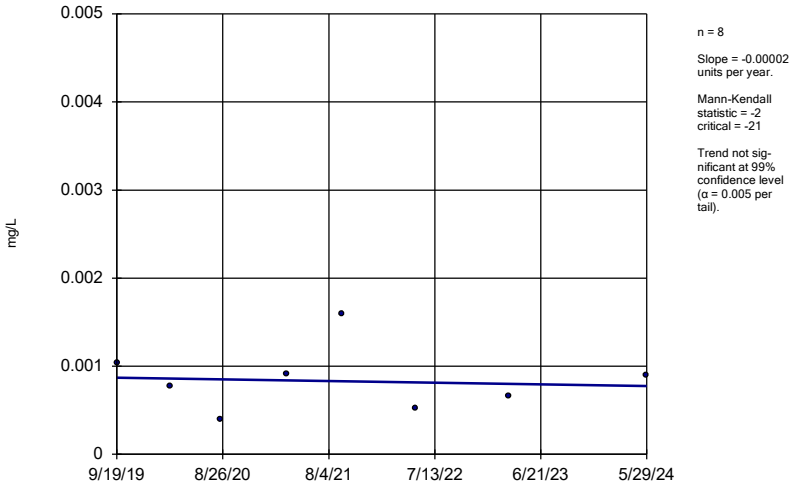


Constituent: Copper Analysis Run 2/28/2025 6:04 PM View: 2024AWQR-Mann_Kendall

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Sen's Slope Estimator

MW-10R



n = 8

Slope = -0.00002 units per year.

Mann-Kendall statistic = -2
critical = -21

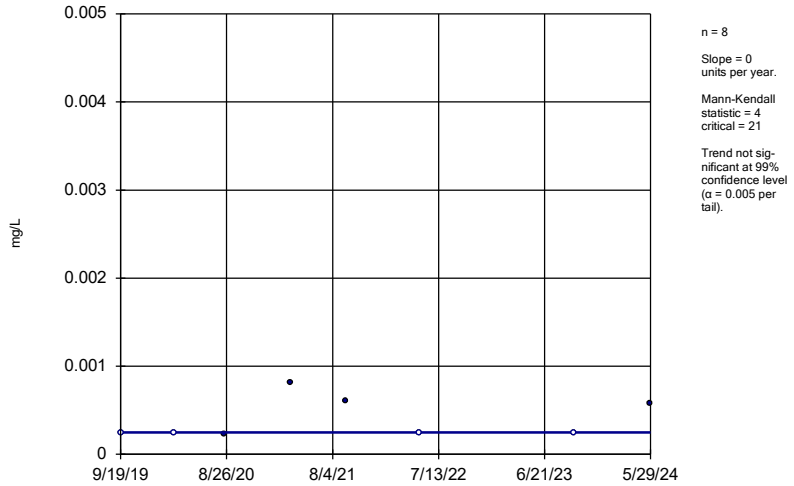
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 2/28/2025 6:04 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-12



n = 8

Slope = 0 units per year.

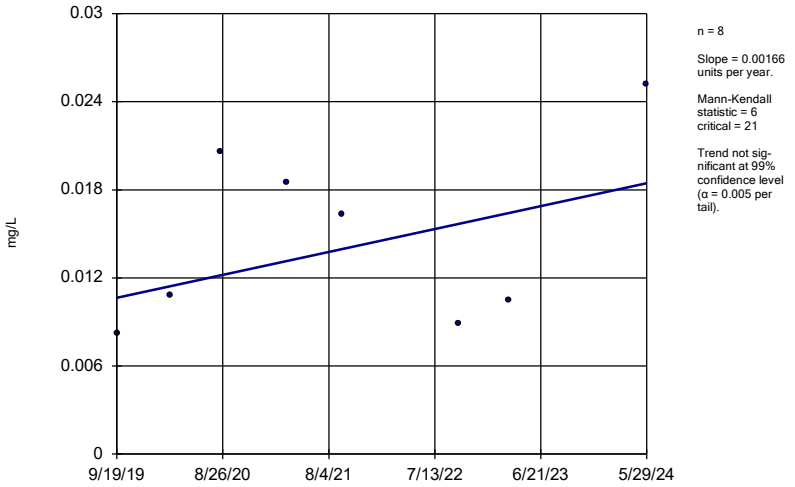
Mann-Kendall statistic = 4
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 2/28/2025 6:04 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Sen's Slope Estimator

MW-9R



n = 8

Slope = 0.00166 units per year.

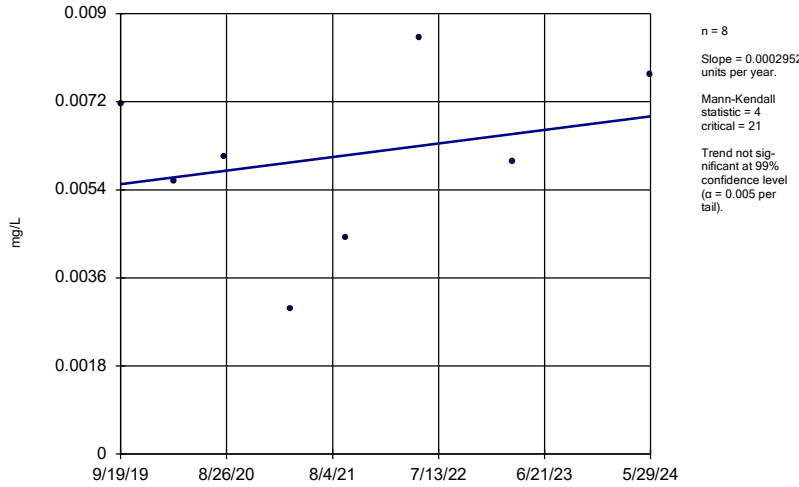
Mann-Kendall statistic = 6
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 2/28/2025 6:04 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Sen's Slope Estimator

MW-10R



n = 8

Slope = 0.0002952 units per year.

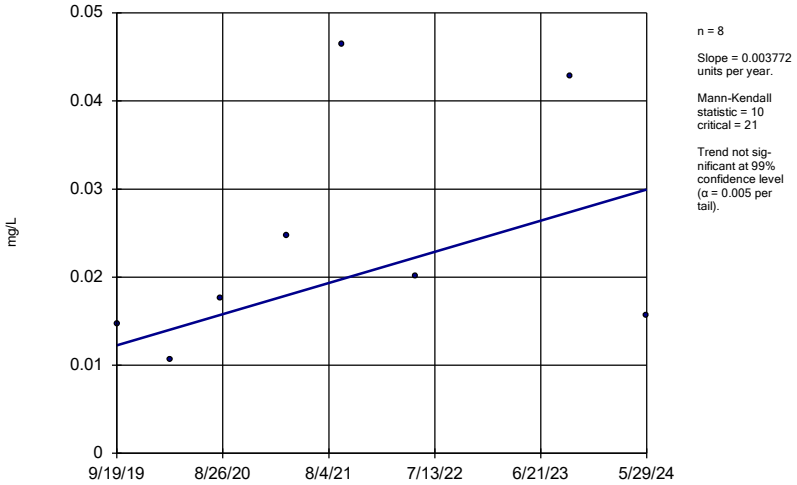
Mann-Kendall statistic = 4
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 2/28/2025 6:04 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Sen's Slope Estimator

MW-12



n = 8

Slope = 0.003772 units per year.

Mann-Kendall statistic = 10 critical = 21

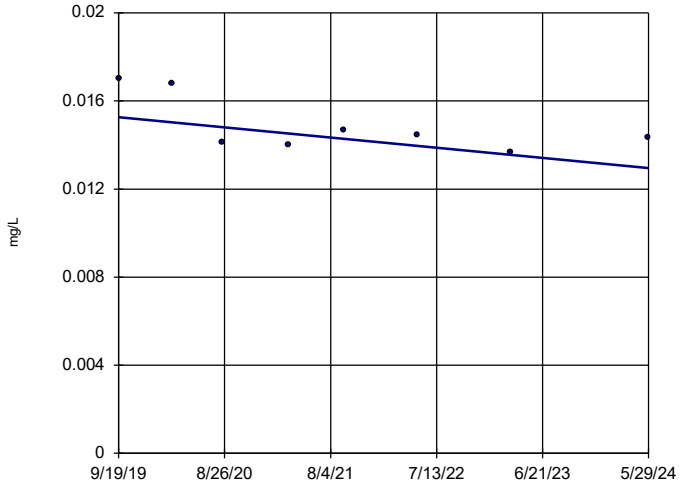
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 2/28/2025 6:04 PM View: 2024AWQR-Mann_Kendall

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Sen's Slope Estimator

MW-13R



n = 8

Slope = -0.0004919 units per year.

Mann-Kendall statistic = -14 critical = -21

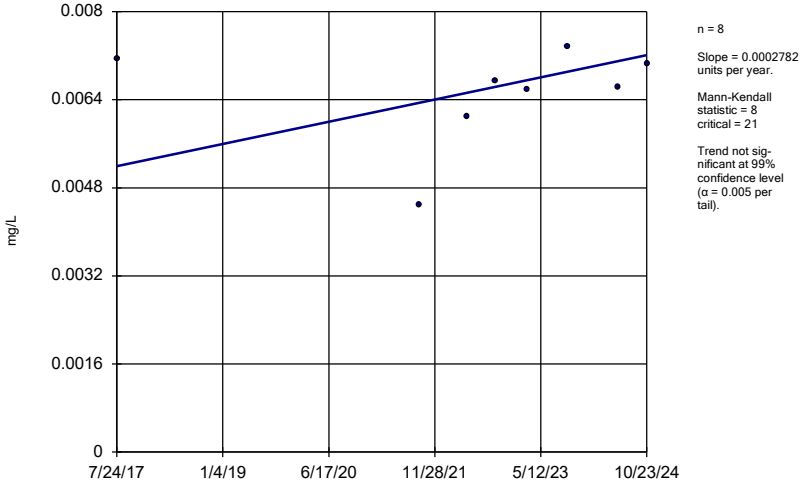
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 2/28/2025 6:04 PM View: 2024AWQR-Mann_Kendall

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Sen's Slope Estimator

MW-15C



n = 8

Slope = 0.0002782 units per year.

Mann-Kendall statistic = 8 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

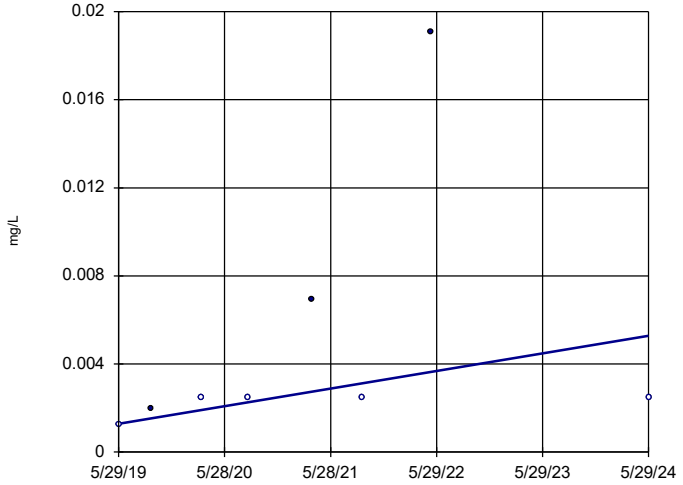
Constituent: Nickel Analysis Run 2/28/2025 6:04 PM View: 2024AWQR-Mann_Kendall

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-12



n = 8

Slope = 0.0007979 units per year.

Mann-Kendall statistic = 16 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 2/28/2025 6:04 PM View: 2024AWQR-Mann_Kendall

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

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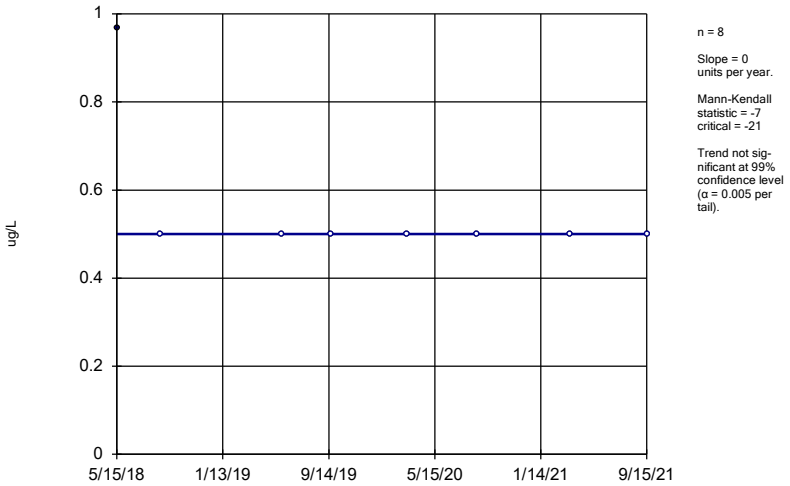
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-9R

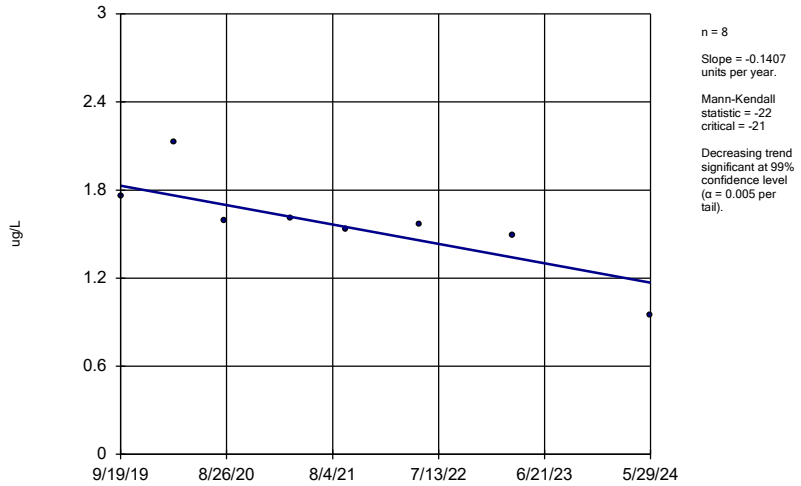


Constituent: Styrene Analysis Run 2/28/2025 6:04 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-7

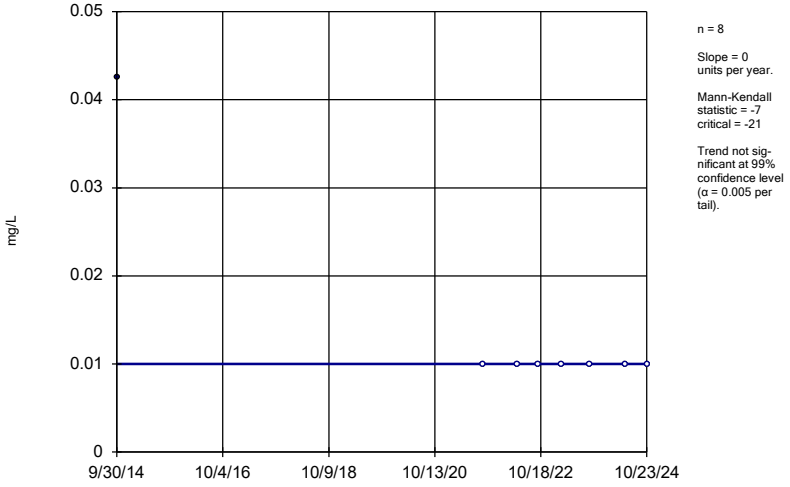


Constituent: Trichloroethene Analysis Run 2/28/2025 6:04 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-15C



Constituent: Zinc Analysis Run 2/28/2025 6:04 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Confidence Interval Summary Table and Graphs – Closed MSWLF Unit

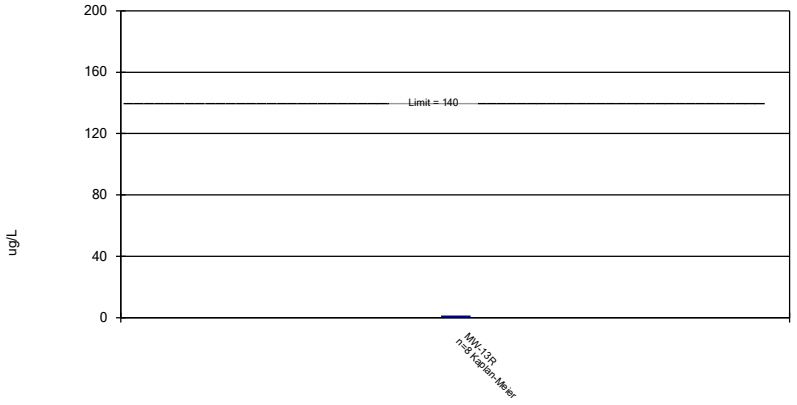
Confidence Interval

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM Printed 2/28/2025, 8:11 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
1,1-Dichloroethane (ug/L)	MW-13R	1.047	0.1418	140	No	8	37.5	No	0.01	Param.
Acrylonitrile (ug/L)	MW-9R	18.1	2.5	10	No	8	87.5	No	0.004	NP (NDs)
Arsenic (mg/L)	MW-10R	0.006129	0.0004393	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	MW-12	0.0217	0.0008915	0.01	No	8	12.5	No	0.004	NP (normality)
Arsenic (mg/L)	MW-13R	0.0279	0.001	0.01	No	8	37.5	No	0.004	NP (normality)
Arsenic (mg/L)	MW-44	0.01309	0.004358	0.01	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-7	0.01763	0.01447	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-10R	0.1327	0.0887	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-12	0.678	0.0545	2	No	8	0	No	0.004	NP (normality)
Barium (mg/L)	MW-13R	0.2856	0.06761	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-44	0.0331	0.0185	2	No	8	0	No	0.004	NP (normality)
Cadmium (mg/L)	MW-9R	0.0001556	0.0000683	0.0494	No	8	37.5	No	0.01	Param.
Cadmium (mg/L)	MW-12	0.000582	0.00004	0.0494	No	8	50	No	0.004	NP (normality)
Cadmium (mg/L)	MW-15C	0.0023	0.00005	0.0494	No	8	50	No	0.004	NP (normality)
Carbon Disulfide (ug/L)	MW-9R	3.615	0.5	700	No	8	12.5	No	0.004	NP (normality)
Chlorobenzene (ug/L)	MW-13R	3.081	0.6498	100	No	8	12.5	No	0.01	Param.
Chlorobenzene (ug/L)	MW-15C	1	0.5	100	No	8	87.5	No	0.004	NP (NDs)
Chloroethane (ug/L)	MW-15C	2	1.4	2800	No	8	87.5	No	0.004	NP (NDs)
cis-1,2-Dichloroethene (ug/L)	MW-7	1.169	0.7147	70	No	8	0	No	0.01	Param.
cis-1,2-Dichloroethene (ug/L)	MW-10R	1.681	0.3689	70	No	8	12.5	No	0.01	Param.
Cobalt (mg/L)	MW-7	0.0005505	0.0001387	0.0074	No	8	25	No	0.01	Param.
Cobalt (mg/L)	MW-9R	0.006447	0.002998	0.0074	No	8	0	No	0.01	Param.
Cobalt (mg/L)	MW-10R	0.002579	0.001192	0.0074	No	8	0	No	0.01	Param.
Cobalt (mg/L)	MW-12	0.00975	0.000247	0.0074	No	8	12.5	No	0.004	NP (normality)
Cobalt (mg/L)	MW-13R	0.00775	0.003555	0.0074	No	8	0	No	0.01	Param.
Cobalt (mg/L)	MW-15C	0.0005044	0.0001489	0.0074	No	8	0	No	0.01	Param.
Copper (mg/L)	MW-7	0.0025	0.0024	1.3	No	8	87.5	No	0.004	NP (NDs)
Copper (mg/L)	MW-10R	0.0025	0.001417	1.3	No	8	87.5	No	0.004	NP (NDs)
Copper (mg/L)	MW-13R	0.0025	0.00206	1.3	No	8	87.5	No	0.004	NP (NDs)
Lead (mg/L)	MW-10R	0.001239	0.0004569	0.0222	No	8	0	No	0.01	Param.
Lead (mg/L)	MW-12	0.000627	0.0001524	0.0222	No	8	50	No	0.01	Param.
Nickel (mg/L)	MW-9R	0.02146	0.008296	0.1	No	8	0	No	0.01	Param.
Nickel (mg/L)	MW-10R	0.00796	0.004153	0.1	No	8	0	No	0.01	Param.
Nickel (mg/L)	MW-12	0.03822	0.009929	0.1	No	8	0	No	0.01	Param.
Nickel (mg/L)	MW-13R	0.01624	0.01353	0.1	No	8	0	No	0.01	Param.
Nickel (mg/L)	MW-15C	0.007476	0.005552	0.1	No	8	0	No	0.01	Param.
Selenium (mg/L)	MW-12	0.0191	0.00125	0.05	No	8	62.5	No	0.004	NP (NDs)
Styrene (ug/L)	MW-9R	0.969	0.5	100	No	8	87.5	No	0.004	NP (NDs)
Zinc (mg/L)	MW-15C	0.0426	0.01	2	No	8	87.5	No	0.004	NP (NDs)

Parametric Confidence Interval

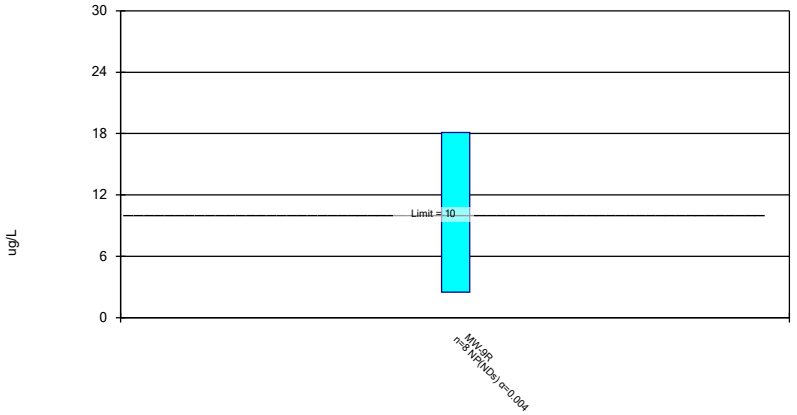
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: 1,1-Dichloroethane Analysis Run 2/28/2025 8:10 PM View: 2024AWQR-Confidence_Interval
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Non-Parametric Confidence Interval

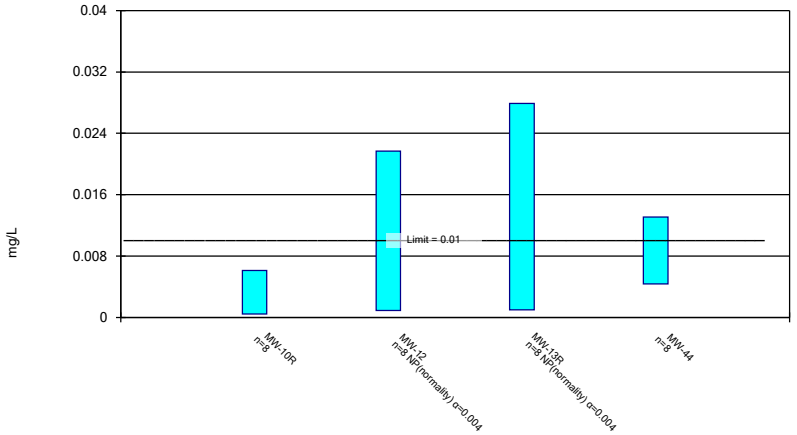
Compliance Limit is not exceeded.



Constituent: Acrylonitrile Analysis Run 2/28/2025 8:10 PM View: 2024AWQR-Confidence_Interval
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Parametric and Non-Parametric (NP) Confidence Interval

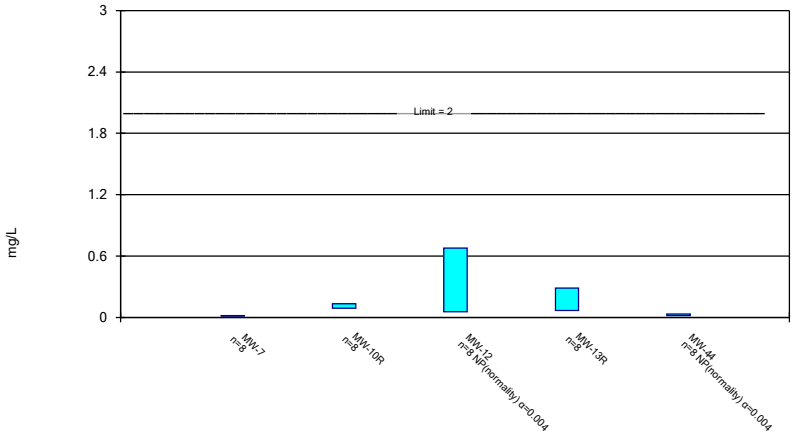
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Arsenic Analysis Run 2/28/2025 8:10 PM View: 2024AWQR-Confidence_Interval
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Parametric and Non-Parametric (NP) Confidence Interval

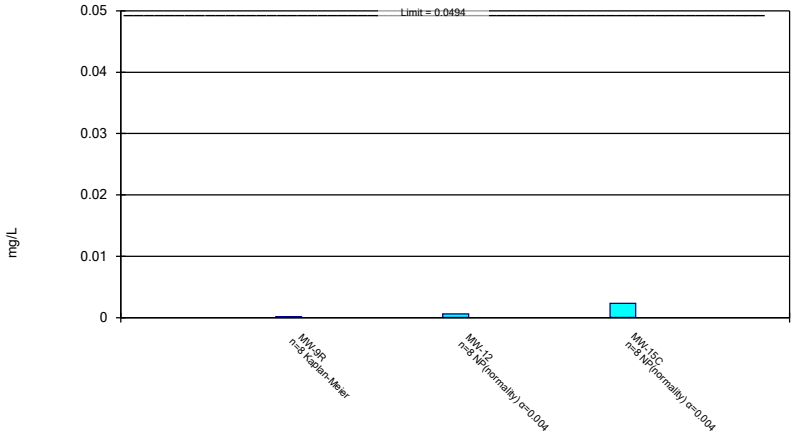
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Barium Analysis Run 2/28/2025 8:10 PM View: 2024AWQR-Confidence_Interval
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.

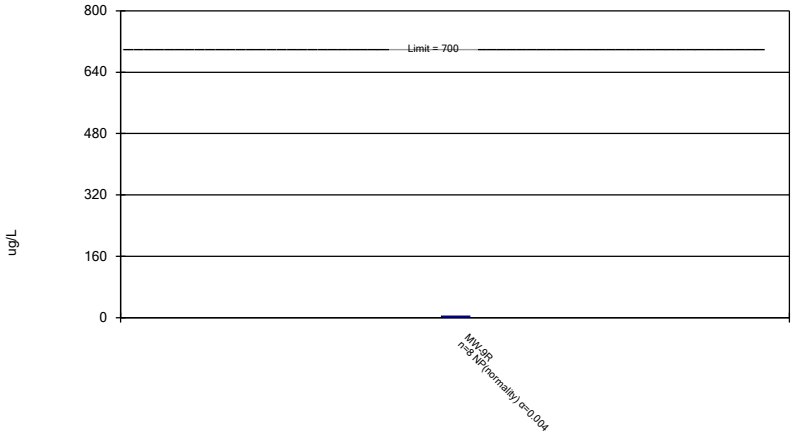


Constituent: Cadmium Analysis Run 2/28/2025 8:10 PM View: 2024AWQR-Confidence_Interval

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

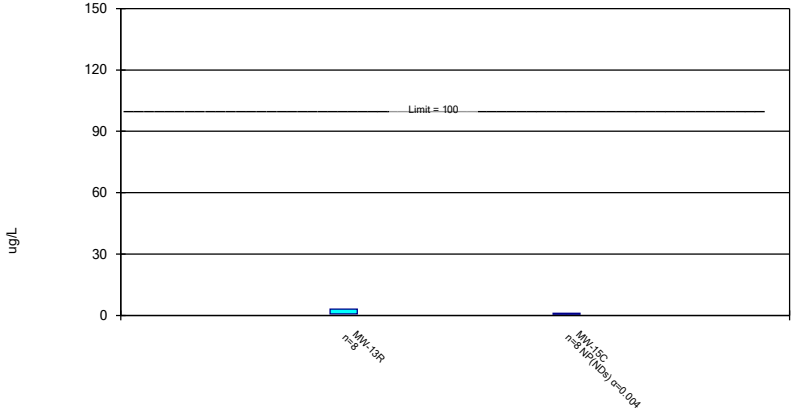


Constituent: Carbon Disulfide Analysis Run 2/28/2025 8:10 PM View: 2024AWQR-Confidence_Interval

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-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.

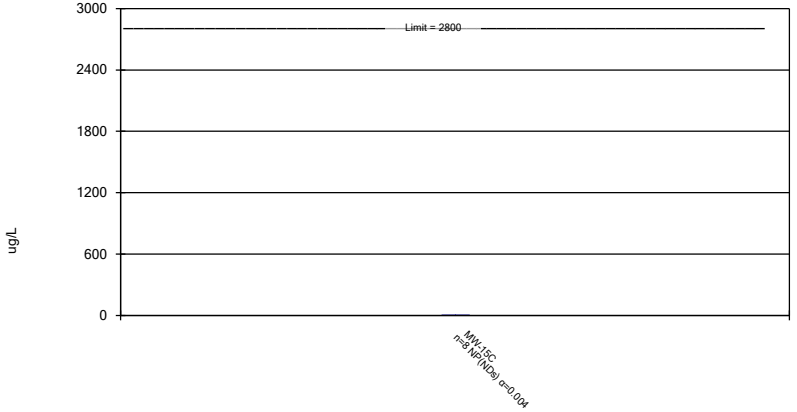


Constituent: Chlorobenzene Analysis Run 2/28/2025 8:10 PM View: 2024AWQR-Confidence_Interval

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

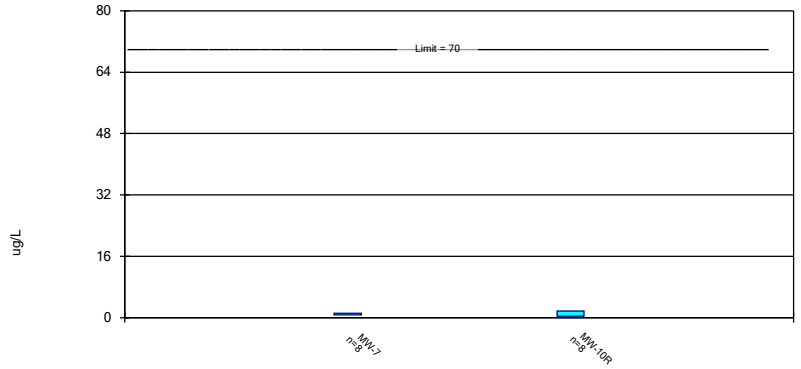


Constituent: Chloroethane Analysis Run 2/28/2025 8:10 PM View: 2024AWQR-Confidence_Interval

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: cis-1,2-Dichloroethene Analysis Run 2/28/2025 8:10 PM View: 2024AWQR-Confidence_Inter
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Parametric and Non-Parametric (NP) Confidence Interval

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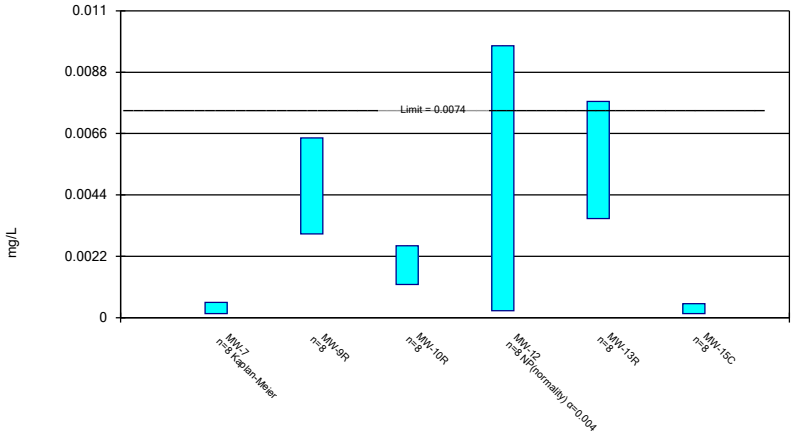
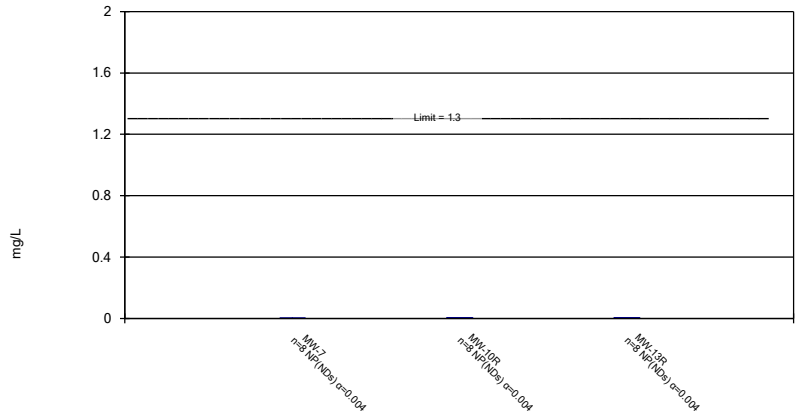


Constituent: Cobalt Analysis Run 2/28/2025 8:10 PM View: 2024AWQR-Confidence_Interval
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Non-Parametric Confidence Interval

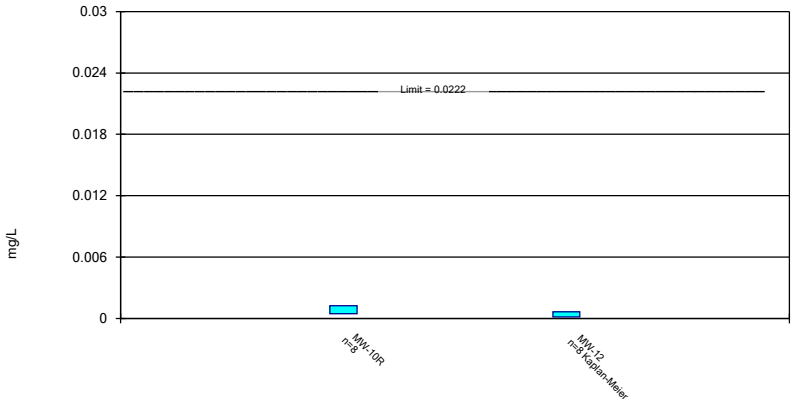
Compliance Limit is not exceeded.



Constituent: Copper Analysis Run 2/28/2025 8:10 PM View: 2024AWQR-Confidence_Interval
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Parametric Confidence Interval

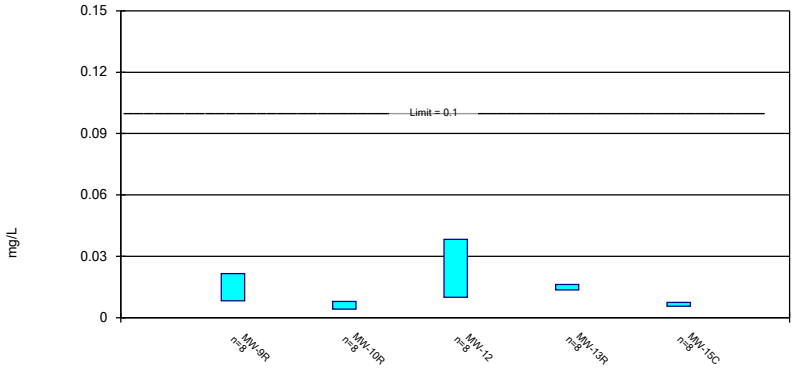
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Lead Analysis Run 2/28/2025 8:10 PM View: 2024AWQR-Confidence_Interval
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Parametric Confidence Interval

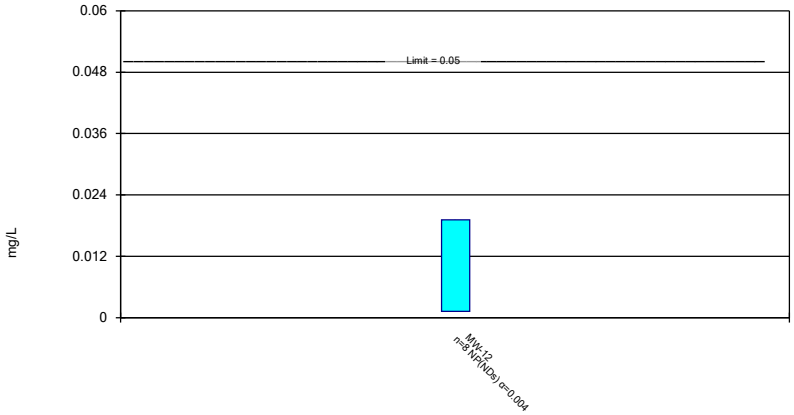
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Nickel Analysis Run 2/28/2025 8:10 PM View: 2024AWQR-Confidence_Interval
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Non-Parametric Confidence Interval

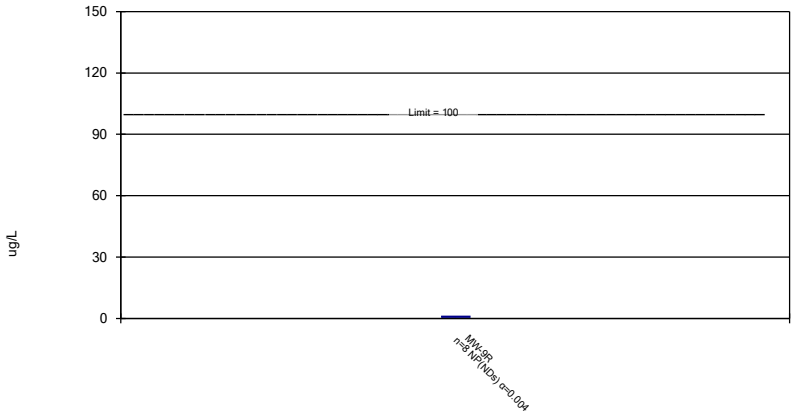
Compliance Limit is not exceeded.



Constituent: Selenium Analysis Run 2/28/2025 8:10 PM View: 2024AWQR-Confidence_Interval
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Non-Parametric Confidence Interval

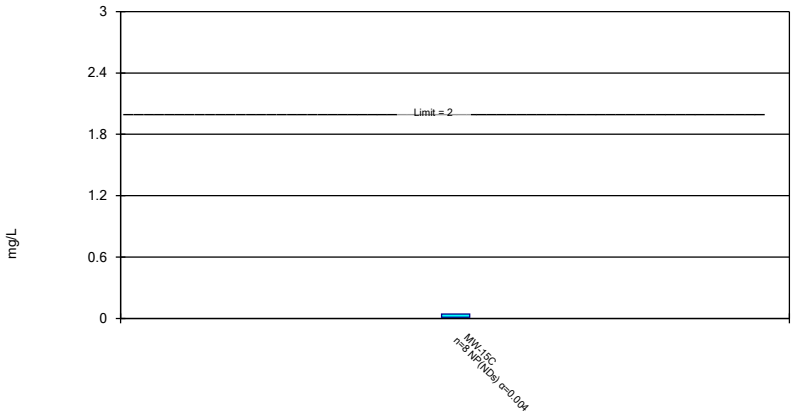
Compliance Limit is not exceeded.



Constituent: Styrene Analysis Run 2/28/2025 8:10 PM View: 2024AWQR-Confidence_Interval
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Zinc Analysis Run 2/28/2025 8:10 PM View: 2024AWQR-Confidence_Interval
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Theil-Sen Summary Table and Graphs – Closed MSWLF Unit

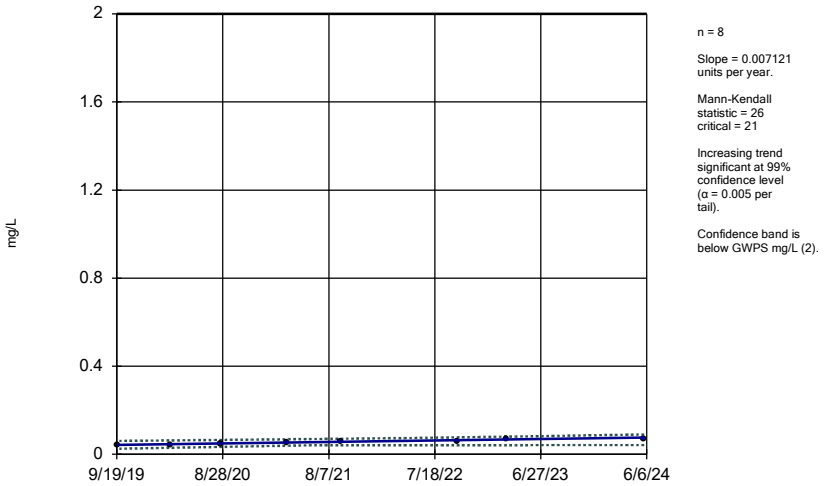
Theil Sen/Trend Test

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM Printed 2/28/2025, 8:18 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
Barium (mg/L)	**MW-9R**	**0.007121**	**26**	**21**	**Yes**	**8**	**0**	**0.01**	**NP**
Barium (mg/L)	**MW-15C**	**-0.009629**	**-22**	**-21**	**Yes**	**8**	**0**	**0.01**	**NP**
Cobalt (mg/L)	**MW-44**	**-0.00039**	**-26**	**-21**	**Yes**	**8**	**0**	**0.01**	**NP**
Trichloroethene (ug/L)	**MW-7**	**-0.1407**	**-22**	**-21**	**Yes**	**8**	**0**	**0.01**	**NP**

Sen's Slope and 99% Confidence Band

MW-9R



n = 8

Slope = 0.007121 units per year.

Mann-Kendall statistic = 26 critical = 21

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Confidence band is below GWPS mg/L (2).

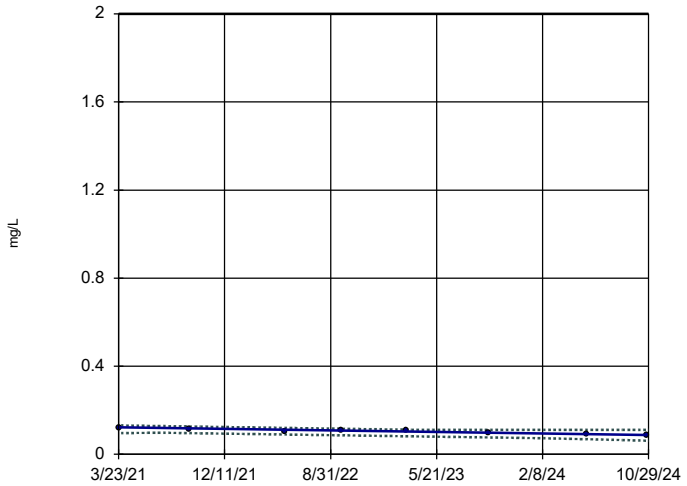
Constituent: Barium Analysis Run 2/28/2025 8:16 PM View: 2024AWQR-Theil_Sen

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Sen's Slope and 99% Confidence Band

MW-15C



n = 8

Slope = -0.009629 units per year.

Mann-Kendall statistic = -22 critical = -21

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Confidence band is below GWPS mg/L (2).

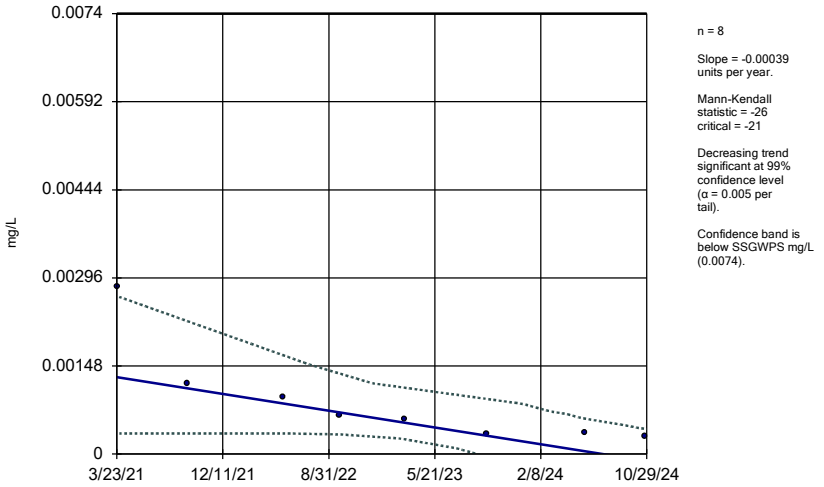
Constituent: Barium Analysis Run 2/28/2025 8:16 PM View: 2024AWQR-Theil_Sen

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Sen's Slope and 99% Confidence Band

MW-44



n = 8

Slope = -0.00039 units per year.

Mann-Kendall statistic = -26 critical = -21

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Confidence band is below SSGWPS mg/L (0.0074).

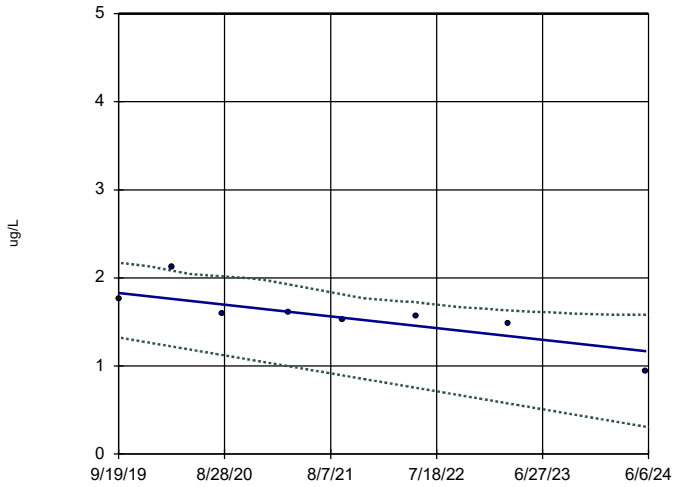
Constituent: Cobalt Analysis Run 2/28/2025 8:16 PM View: 2024AWQR-Theil_Sen

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Sen's Slope and 99% Confidence Band

MW-7



n = 8

Slope = -0.1407 units per year.

Mann-Kendall statistic = -22 critical = -21

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Confidence band is below GWPS mg/L (5).

Constituent: Trichloroethene Analysis Run 2/28/2025 8:17 PM View: 2024AWQR-Theil_Sen

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-AM AZPOC-2024AWQR-AM

Appendix E

2024 Leachate Control System Performance Evaluation Report

2024 LEACHATE CONTROL SYSTEM PERFORMANCE EVALUATION REPORT

CHEROKEE COUNTY SANITARY LANDFILL

CHEROKEE, IOWA

SUBMITTAL DATE: MARCH 2025

PREPARED FOR:
CHEROKEE COUNTY SOLID WASTE COMMISSION

PREPARED BY:
SCS ENGINEERS

Table of Contents

Figures

Attachments

Section 1.0

Leachate Control System

SCS Engineers (SCS), on behalf of the Cherokee County Solid Waste Commission (Commission), has prepared this Leachate Control System Performance Evaluation Report (LCSPER) for the Cherokee County Sanitary Landfill (Landfill). The purpose of this report is to evaluate the effectiveness of the leachate control system in place at the Landfill. This LCSPER was prepared in general accordance with the requirements of Iowa Administrative Code (IAC) 567-113.7"b"(14)," the site operating permit and subsequent applicable permit revisions, and additional Iowa Department of Natural Resources (DNR) requirements. This LCSPER describes the leachate control system monitoring program, provides an evaluation of the effectiveness of the system, and, if necessary, provides recommendations for additional control measures. The reporting period is December 2023 to December 2024.

1.1 Location of Control System

The Landfill property is depicted in Figure 1, Leachate Control System. The Landfill is located north of Linden Street, adjacent to the southeastern city limits of the City of Cherokee. The legal description is W ½ of the SW ¼, Section 36, Township 92 North, Range 40 West, in Cherokee County, Iowa.

1.1.1 Closed Unlined Area

The Closed MSWLF unit requires that leachate levels be maintained at a minimal practical head as it does not have a Subtitle D-compliant liner and does not have a leachate drainage layer. The leachate control monitoring system consists of three leachate piezometers: LM-1 (South), LM-2 (North), and LM-3 (Middle). Leachate piezometer LM-1 was approved to be abandoned by the DNR in correspondence dated April 18, 2017 (Doc #89136). The leachate control system consists of three extraction wells (EW-1, EW-2, and EW-3) along the ravine underlying the Original Landfill Area and Area B which discharge to the leachate lagoon west of Area B. The extraction wells were turned off in accordance with a request submitted November 12, 2021 (Doc #101679) and approved in the permit dated May 16, 2022 (Doc #103224). The leachate head levels are monitored using piezometers LM-2 (North) and LM-3 (Middle).

1.1.2 Open Subtitle D Area

Phase A of the Open MSWLF unit was constructed with a bottom liner and a leachate collection system. The liner and leachate collection system of each cell slopes downward to the south end of the waste boundary where leachate gravity drains to a lift station, which then pumps the leachate to the leachate lagoon. The leachate head in the Phase A cells of the Open MSWLF unit is monitored by measuring the liquid depth in leachate piezometers LM-A1, LM-A2, LM-A3, LM-A4, LM-A5, and LM-A6. Pursuant to IAC 567-113.7(5)"b"(3), the "*MSWLF unit shall have a leachate collection system that maintains less than a 30-centimeter (i.e., 12-inch) depth of leachate over the liner."*

1.2 Effectiveness of the Leachate System

1.2.1 Closed Unlined Area

Table 12 in Attachment A provides monthly leachate column thicknesses for the closed unlined area of the Landfill. Table B.1 in Attachment B provides a table and graphs of the leachate measurement points for the period of record. The leachate column thickness in leachate piezometer LM-2 was within the historical range throughout this reporting period with thicknesses ranging from 9.8 feet to 15.0 feet. The leachate column thickness in leachate piezometer LM-3 remained steady throughout this reporting period, with little variation and with the measurements within the historical range with thicknesses ranging from 3.9 feet to 4.4 feet.

1.2.2 Open Subtitle D Area

Table 12 in Attachment A provides monthly leachate column thicknesses for the open Subtitle D area. Table B.1 in Attachment B provides a table and graphs of the leachate measurement points for the period of record.

The leachate column thicknesses in the Open MSWLF unit leachate piezometers LM-A1, LM-A2, LM-A3, LM-A4, LM-A5, LM-A6 remained below 12 inches throughout this reporting period.

1.3 Approved Changes to System

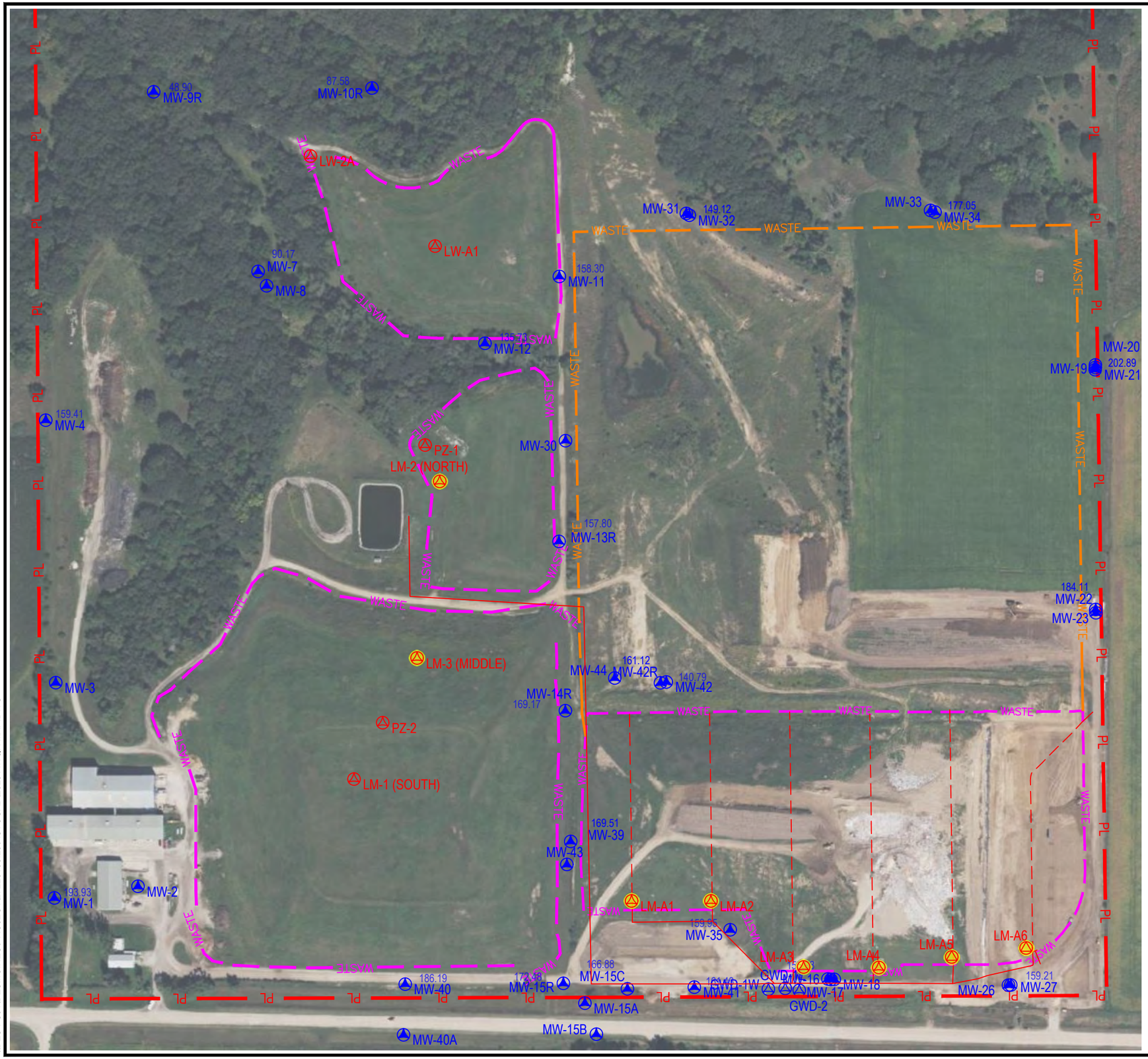
In August 2023, sluice gate valves that were no longer operable were removed from two Cell A outlets. The valves were replaced with butterfly valves in May 2024.

In September 2023, the three pumps in the lift station were removed for maintenance. Two of the pumps were cleaned, repaired, and reinstalled. The third pump was cleaned and reinstalled, but the pump did not function and repair was not possible. The third pump was replaced in May 2024 in conjunction with the valve replacement. The three pumps were cleaned and reinstalled after jetting of the lift station in August 2024.

1.4 Proposed Changes to System

SCS recommends continuing to perform the following items to maintain the effectiveness of the leachate control system:

- Continue monthly monitoring of the leachate levels as required in the facility permit.
- Maintain good vegetation over the final cover and intermediate cover over the inactive areas.
- Continue operation and maintenance of the leachate control system in accordance with the approved Leachate Control System Plan.
- Continue recording the volume of leachate disposed of at the City of Cherokee publicly-owned treatment works (POTW). 1,549,200 gallons of leachate were hauled to the POTW during this reporting period. Leachate analytical testing results are included in Attachment C.
- Continue recording the volume of leachate recirculated in the Open MSWLF unit. 168,000 gallons of leachate were recirculated during this reporting period.
- Continue cleaning the leachate collection system once every three years, or more frequently if leachate head or the volume of leachate collected indicates cleaning is necessary. Cleaning of the leachate collection system last occurred in May 2023 and will occur next in 2026.



LEGEND

- LPZ-1 — LEACHATE MONITORING POINT
- MW-4C — MONITORING WELL
- LFGW-1 — LANDFILL GAS WELL
- LPZ-1 — LEACHATE PIEZOMETER
- GV — GAS VENT
- CURRENT WASTE BOUNDARY
- FUTURE WASTE BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY

250 0 250

SCALE FEET

REV.	DATE	CK. BY
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-

SHEET TITLE
LEACHATE CONTROL SYSTEM

PROJECT TITLE
CHEROKEE COUNTY SANITARY LANDFILL
2024 ANNUAL WATER QUALITY REPORT

CLIENT
CHEROKEE COUNTY SOLID WASTE COMMISSION
1805 LINDEN ST
CHEROKEE, IOWA

SCS ENGINEERS
1690 ALL STATE COURT, SUITE 100
WEST DES MOINES, IOWA 50265
(515) 631-6160

PROJ. NO: 27223105.25
DSN. BY: CJD
DWN. BY: CJD
CHK. BY: SAM
PROJ. MGR: NO

CADD FILE: 2025 AWQR MAP.DWG

DATE: 3/7/25

FIGURE NO. **1**

\\DES-FS01\DESMOINES\PROJECT\27223105.25\AUTOCAD\2025 AWQR MAP.DWG

Attachment A

Table 12 – Leachate Management Summary

Table 12
Leachate Management Summary
2024 Leachate Control System Performance Evaluation Report
Cherokee County Landfill
Permit No. 18-SDP-01-75P

	Unlined Cells - Column Thickness (ft)		Lined Cells - Maximum Head on Liner (ft)						Volume	Discharged to City of	Precipitation
Month	LM-2	LM-3	LM-A1	LM-A2	LM-A3	LM-A4	LM-A5	LM-A6	Recirculated (gal)	Cherokee WWTP (gal)	(in)
12/2023	9.6	3.9	0.0	0.0	0.0	0.0	0.0	0.3			1.06
1/2024	9.8	4.1	0.0	0.0	0.0	0.0	0.0	0.3			0.15
2/2024	10.5	4.3	0.0	0.0	0.0	0.0	0.0	0.3			0.09
3/2024	10.5	3.9	0.0	0.0	0.0	0.0	0.0	0.3			1.72
4/2024	13.1	3.9	0.1	0.2	0.4	0.0	0.2	0.3			NM
5/2024	15.0	4.1	0.7	0.3	0.1	0.1	0.8	0.3			0.67
6/2024	14.8	4.4	0.4	0.1	0.3	0.1	0.7	0.3			3.96
7/2024	14.4	4.4	0.1	0.0	0.3	0.1	0.1	0.2			3.82
8/2024	13.8	4.3	0.1	0.0	0.3	0.1	0.1	0.1			1.93
9/2024	13.9	4.4	0.0	0.0	0.2	0.1	0.1	0.1			0.35
10/2024	13.0	NM	0.0	0.0	0.2	0.1	0.1	0.0			0.70
11/2024	13.3	NM	0.0	0.3	0.2	0.1	0.1	0.0			3.37
12/2024	13.7	NM	0.0	0.0	0.0	0.1	0.1	0.0			0.20
								December 2023 - December 2024 Total Gallons	168,000	1,549,200	18.02

Notes:

Leachate levels measured by Landfill staff.

NM - Not Measured.

Comments:

1. Reporting Period: December 2023 - December 2024.
2. Recommended Changes to Leachate Collection System: None.
3. Maintenance Performed on Leachate Collection System: See narrative.
4. Last Date of Cleaning and Inspection: May 2023.
5. Date for Next Cleaning and Inspection: Leachate line cleaning and inspection will be performed next in 2026.
6. Volume of Leachate Recirculated: 168,000 gallons of leachate were recirculated during this reporting period.
7. Volume of Leachate Treated On-Site: Leachate is not treated on-site at this facility.
8. Volume of Leachate Treated Off-Site: 1,549,200 gallons of leachate were transported for treatment off-site during this reporting period.
9. Precipitation data from https://mesonet.agron.iastate.edu/ASOS/reports/mon_prec.php?year=2024 for Cherokee, Iowa.

Attachment B

Historical Leachate Column Thickness Tables and Graphs

Table B.1

HISTORICAL LEACHATE COLUMN THICKNESSES AND ELEVATIONS

Cherokee County Sanitary Landfill

Permit No. 18-SDP-01-75P

Leachate Piezometer	LM-2 (North)		LM-3 (Middle)		LM-A1 (South)		LM-A2 (South)		LM-A3 (South)		LM-A4 (South)		LM-A5 (South)		LM-A6 (South)	
CONSTRUCTED WELL DEPTH	32.00		31.52		20.00		21.30		9.10		11.20		14.10			
Leachate Level & Leachate Column Thickness (feet)	Leachate Level	Leachate Thickness (feet)	Leachate Level	Leachate Thickness (feet)	Leachate Level	Leachate Thickness (feet)	Leachate Level	Leachate Thickness (feet)	Leachate Level	Leachate Thickness (feet)	Leachate Level	Leachate Thickness (feet)	Leachate Level	Leachate Thickness (feet)	Leachate Level	Leachate Thickness (feet)
November-11	17.45	14.55	25.30	6.22	15.40	0.10	15.50	0.00	5.52	0.00	6.00	0.00	NI	NA	NI	NA
December-11	17.44	14.56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NI	NA	NI	NA
January-12	14.50	17.50	24.80	6.72	15.50	0.00	15.00	0.50	5.52	0.00	6.00	0.00	NI	NA	NI	NA
February-12	14.50	17.50	24.10	7.42	14.95	0.55	14.75	0.75	5.52	0.00	6.00	0.00	NI	NA	NI	NA
March-12	17.50	14.50	24.35	7.17	15.50	0.00	15.50	0.00	5.52	0.00	6.00	0.00	NI	NA	NI	NA
April-12	17.65	14.35	24.70	6.82	15.50	0.00	15.50	0.00	5.52	0.00	6.00	0.00	NI	NA	NI	NA
May-12	17.60	14.40	25.90	5.62	15.50	0.00	15.50	0.00	5.52	0.00	6.00	0.00	NI	NA	NI	NA
June-12	18.00	14.00	26.00	5.52	15.50	0.00	15.50	0.00	5.52	0.00	6.00	0.00	NI	NA	NI	NA
July-12	18.10	13.90	26.20	5.32	15.50	0.00	15.50	0.00	5.52	0.00	6.00	0.00	NI	NA	NI	NA
August-12	18.80	13.20	26.15	5.37	15.50	0.00	15.50	0.00	5.52	0.00	6.00	0.00	NI	NA	NI	NA
September-12	19.30	12.70	26.35	5.17	15.50	0.00	15.50	0.00	5.52	0.00	6.00	0.00	NI	NA	NI	NA
October-12	19.40	12.60	26.65	4.87	15.50	0.00	15.50	0.00	5.52	0.00	6.00	0.00	NI	NA	NI	NA
November-12	22.00	10.00	26.40	5.12	15.50	0.00	15.50	0.00	5.55	-0.03	6.00	0.00	NI	NA	NI	NA
December-12	20.00	12.00	26.45	5.07	15.50	0.00	15.50	0.00	5.52	0.00	6.00	0.00	NI	NA	NI	NA
January-13	19.75	12.25	26.80	4.72	15.50	0.00	15.50	0.00	5.52	0.00	6.00	0.00	NI	NA	NI	NA
February-13	19.90	12.10	26.95	4.57	15.50	0.00	15.50	0.00	5.52	0.00	6.00	0.00	NI	NA	NI	NA
March-13	19.50	12.50	26.80	4.72	15.50	0.00	15.50	0.00	5.52	0.00	6.00	0.00	NI	NA	NI	NA
April-13	20.20	11.80	26.65	4.87	15.50	0.00	15.50	0.00	5.52	0.00	6.00	0.00	NI	NA	NI	NA
May-13	19.75	12.25	26.35	5.17	15.50	0.00	15.50	0.00	5.52	0.00	6.00	0.00	NI	NA	NI	NA
June-13	19.60	12.40	26.65	4.87	15.50	0.00	15.50	0.00	5.52	0.00	6.00	0.00	NI	NA	NI	NA
July-13	19.85	12.15	26.80	4.72	15.50	0.00	15.50	0.00	5.52	0.00	6.00	0.00	NI	NA	NI	NA
August-13	20.60	11.40	26.55	4.97	15.50	0.00	15.50	0.00	5.52	0.00	6.00	0.00	NI	NA	NI	NA
September-13	21.30	10.70	26.45	5.07	15.50	0.00	15.50	0.00	5.52	0.00	6.00	0.00	NI	NA	NI	NA
October-13	20.90	11.10	26.30	5.22	15.50	0.00	15.50	0.00	5.52	0.00	6.00	0.00	NI	NA	NI	NA
November-13	20.80	11.20	26.50	5.02	15.50	0.00	15.50	0.00	5.52	0.00	6.00	0.00	NI	NA	NI	NA
December-13	20.60	11.40	26.60	4.92	15.50	0.00	15.50	0.00	5.52	0.00	6.00	0.00	NI	NA	NI	NA
January-14	20.75	11.25	26.70	4.82	15.50	0.00	15.50	0.00	5.52	0.00	6.00	0.00	NI	NA	NI	NA
February-14	20.60	11.40	NM	NA	15.50	0.00	15.50	0.00	5.52	0.00	6.00	0.00	NI	NA	NI	NA
March-14	20.85	11.15	27.10	4.42	15.50	0.00	15.50	0.00	5.52	0.00	6.00	0.00	NI	NA	NI	NA
April-14	20.70	11.30	27.00	4.52	15.50	0.00	15.50	0.00	5.52	0.00	6.00	0.00	NI	NA	NI	NA
May-14	21.40	10.60	26.90	4.62	15.50	0.00	15.50	0.00	5.52	0.00	6.00	0.00	NI	NA	NI	NA
June-14	21.30	10.70	26.70	4.82	15.50	0.00	15.50	0.00	5.52	0.00	6.00	0.00	NI	NA	NI	NA
July-14	21.20	10.80	26.70	4.82	15.50	0.00	15.50	0.00	5.52	0.00	6.00	0.00	NI	NA	NI	NA
August-14	21.25	10.75	26.90	4.62	15.50	0.00	15.50	0.00	5.52	0.00	6.00	0.00	NI	NA	NI	NA
September-14	21.25	10.75	26.70	4.82	15.50	0.00	15.50	0.00	5.52	0.00	6.00	0.00	NI	NA	NI	NA
October-14	21.05	10.95	26.95	4.57	15.50	0.00	15.50	0.00	5.52	0.00	6.00	0.00	NI	NA	NI	NA
November-14	21.45	10.55	27.20	4.32	15.50	0.00	15.50	0.00	5.52	0.00	6.00	0.00	NI	NA	NI	NA
December-14	21.20	10.80	26.80	4.72	15.50	0.00	15.50	0.00	5.52	0.00	6.00	0.00	NI	NA	NI	NA
January-15	21.25	10.75	26.90	4.62	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	NI	NA	NI	NA
February-15	21.40	10.60	27.05	4.47	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	NI	NA	NI	NA
March-15	20.90	11.10	26.95	4.57	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	NI	NA	NI	NA
April-15	20.95	11.05	26.50	5.02	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	NI	NA	NI	NA
May-15	20.80	11.20	26.65	4.87	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	NI	NA	NI	NA
June-15	20.95	11.05	26.50	5.02	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	NI	NA	NI	NA
July-15	21.40	10.60	26.25	5.27	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	NI	NA	NI	NA
August-15	21.20	10.80	26.90	4.62	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	NI	NA	NI	NA
September-15	20.75	11.25	27.40	4.12	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	NI	NA	NI	NA
October-15	20.75	11.25	27.85	3.67	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	NI	NA	NI	NA
November-15	20.70	11.30	26.90	4.62	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	NI	NA	NI	NA
December-15	20.50	11.50	26.70	4.82	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	NI	NA	NI	NA
January-16	20.40	11.60	26.10	5.42	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	NI	NA	NI	NA
February-16	20.60	11.40	26.60	4.92	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	NI	NA	NI	NA
March-16	20.20	11.80	25.80	5.72	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	NI	NA	NI	NA
April-16	20.15	11.85	26.10	5.42	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	NI	NA	NI	NA
May-16	20.00	12.00	26.50	5.02	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	NI	NA	NI	NA
June-16	20.60	11.40	26.70	4.82	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	NI	NA	NI	NA
July-16	20.65	11.35	26.95	4.57	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	NI	NA	NI	NA
August-16	20.80	11.20	27.40	4.12	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	NI	NA	NI	NA
September-16	20.20	11.80	27.30	4.22	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	NI	NA	NI	NA
October-16	19.85	12.15	27.50	4.02	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	9.30	0.00	NI	NA
November-16	20.20	11.80	27.60	3.92	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	9.30	0.00	NI	NA
December-16	20.75	11.25	26.85	4.67	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	9.30	0.00	NI	NA

Table B.1

HISTORICAL LEACHATE COLUMN THICKNESSES AND ELEVATIONS
Cherokee County Sanitary Landfill
Permit No. 18-SDP-01-75P

Leachate Piezometer	LM-2 (North)		LM-3 (Middle)		LM-A1 (South)		LM-A2 (South)		LM-A3 (South)		LM-A4 (South)		LM-A5 (South)		LM-A6 (South)	
January-17	20.40	11.60	26.90	4.62	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	9.30	0.00	NI	NA
February-17	20.60	11.40	27.50	4.02	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	9.30	0.00	NI	NA
March-17	20.45	11.55	26.40	5.12	20.00	0.00	20.80	0.50	9.10	0.00	11.20	0.00	9.30	0.00	NI	NA
April-17	20.20	11.80	25.60	5.92	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	9.30	0.00	NI	NA
May-17	20.35	11.65	26.45	5.07	19.20	0.80	20.50	0.80	9.10	0.00	11.20	0.00	9.30	0.00	NI	NA
June-17	21.10	10.90	27.15	4.37	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	9.30	0.00	NI	NA
July-17	20.60	11.40	26.90	4.62	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	9.30	0.00	NI	NA
August-17	20.70	11.30	27.40	4.12	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	9.30	0.00	NI	NA
September-17	21.90	10.10	27.60	3.92	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	9.30	0.00	NI	NA
October-17	20.80	11.20	27.45	4.07	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	9.30	0.00	NI	NA
November-17	21.45	11.80	27.95	3.92	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	9.30	0.00	NI	NA
December-17	21.10	10.90	27.95	3.57	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	9.30	0.00	NI	NA
January-18	21.25	10.75	27.20	4.32	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	9.30	0.00	NI	NA
February-18	21.20	10.80	27.40	4.12	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	9.30	0.00	NI	NA
March-18	21.30	10.70	27.30	4.22	20.00	0.00	20.20	1.10	9.10	0.00	11.20	0.00	9.30	0.00	NI	NA
April-18	21.25	10.75	27.05	4.47	17.50	2.50	18.35	2.95	8.15	0.95	10.30	0.90	9.30	0.00	NI	NA
May-18	20.45	11.55	26.90	4.62	18.10	1.90	20.30	1.00	8.00	1.10	11.20	0.00	9.30	0.00	NI	NA
June-18	20.80	11.20	26.90	4.62	18.60	1.40	19.70	1.60	8.10	1.00	11.20	0.00	9.30	0.00	NI	NA
July-18	21.00	11.00	27.10	4.42	18.60	1.40	21.10	0.20	8.20	0.90	11.20	0.00	9.30	0.00	NI	NA
August-18	20.90	11.10	27.75	3.77	19.10	0.90	21.30	0.00	8.30	0.80	11.20	0.00	9.30	0.00	NI	NA
September-18	20.90	11.10	27.20	4.32	18.90	1.10	20.20	1.10	8.40	0.70	11.20	0.00	9.30	0.00	NI	NA
October-18	20.75	11.25	27.15	4.37	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	9.30	0.00	NI	NA
November-18	20.95	11.80	27.50	3.92	18.90	1.10	21.30	0.00	9.10	0.00	11.20	0.00	9.30	0.00	NI	NA
December-18	21.10	10.90	27.95	3.57	20.00	0.00	21.30	0.00	9.10	0.00	11.20	0.00	9.30	0.00	NI	NA
January-19	20.75	11.25	26.85	4.67	18.90	1.10	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	NI	NA
February-19	NM*	NA*	NM*	NA*	NM*	NA*	NM*	NA*	Dry	0.00	Dry	0.00	Dry	0.00	NI	NA
March-19	21.20	10.80	27.10	4.42	19.60	0.40	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	NI	NA
April-19	18.50	13.50	26.50	5.02	18.60	1.40	20.60	0.70	8.95	0.15	10.90	0.30	Dry	0.00	NI	NA
May-19	18.40	13.60	26.60	4.92	17.60	2.40	19.55	1.75	8.65	0.45	10.00	1.20	Dry	0.00	NI	NA
June-19	18.00	14.00	27.10	4.42	17.90	2.10	20.50	0.80	8.85	0.25	Dry	0.00	Dry	0.00	NI	NA
July-19	19.35	12.65	26.95	4.57	17.55	2.45	20.75	0.55	Dry	0.00	Dry	0.00	Dry	0.00	NI	NA
August-19	19.90	12.10	27.10	4.42	18.15	1.85	Dry	0.00	Dry	0.00	10.50	0.70	Dry	0.00	NI	NA
September-19	20.00	12.00	27.25	4.27	18.65	1.35	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	NI	NA
October-19	20.00	12.00	27.60	3.92	19.40	0.60	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	NI	NA
November-19	19.55	12.45	27.20	4.32	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	NI	NA
December-19	19.85	12.15	26.80	4.72	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	NI	NA
January-20	19.70	12.30	26.85	4.67	19.75	0.25	21.20	0.10	Dry	0.00	11.10	0.10	Dry	0.00	NI	NA
February-20	19.50	12.50	26.60	4.92	18.60	1.40	21.20	0.10	Dry	0.00	11.10	0.10	Dry	0.00	NI	NA
March-20	17.00	15.00	26.30	5.22	19.35	0.65	20.80	0.50	Dry	0.00	10.00	1.20	Dry	0.00	NI	NA
April-20	18.10	13.90	26.80	4.72	18.60	1.40	20.75	0.55	Dry	0.00	11.10	0.10	NA	NA	NI	NA
May-20	18.75	13.25	26.75	4.77	18.80	1.20	21.20	0.10	Dry	0.00	9.55	1.65	Dry	0.00	NI	NA
June-20	19.25	12.75	27.00	4.52	18.55	1.45	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	NI	NA
July-20	20.20	11.80	27.00	4.52	19.00	1.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	NI	NA
August-20	20.15	11.85	27.15	4.37	18.65	1.35	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	NI	NA
September-20	20.95	11.05	27.30	4.22	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	NI	NA
October-20	21.10	10.90	27.35	4.17	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	NI	NA
November-20	20.90	11.10	27.60	3.92	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	NI	NA
December-20	20.95	11.05	27.40	4.12	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	NI	NA
January-21	21.00	11.00	28.05	3.47	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	NI	NA
February-21	21.50	10.50	28.20	3.32	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	NI	NA
March-21	21.60	10.40	27.20	4.32	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	NI	NA
April-21	21.35	10.65	27.15	4.37	19.80	0.20	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	NI	NA
May-21	21.30	10.70	28.10	3.42	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	NI	NA
June-21	21.25	10.75	27.40	4.12	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	NI	NA
July-21	21.25	10.75	27.40	4.12	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	NI	NA
August-21	21.70	10.30	27.40	4.12	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	NI	NA
September-21	21.90	10.10	27.80	3.72	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	NI	NA
October-21	22.30	9.70	28.20	3.32	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	NI	NA
November-21	21.45	10.55	27.50	4.02	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	0.60	0.05
December-21	21.60	10.40	27.70	3.82	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	0.60	0.05

Table B.1

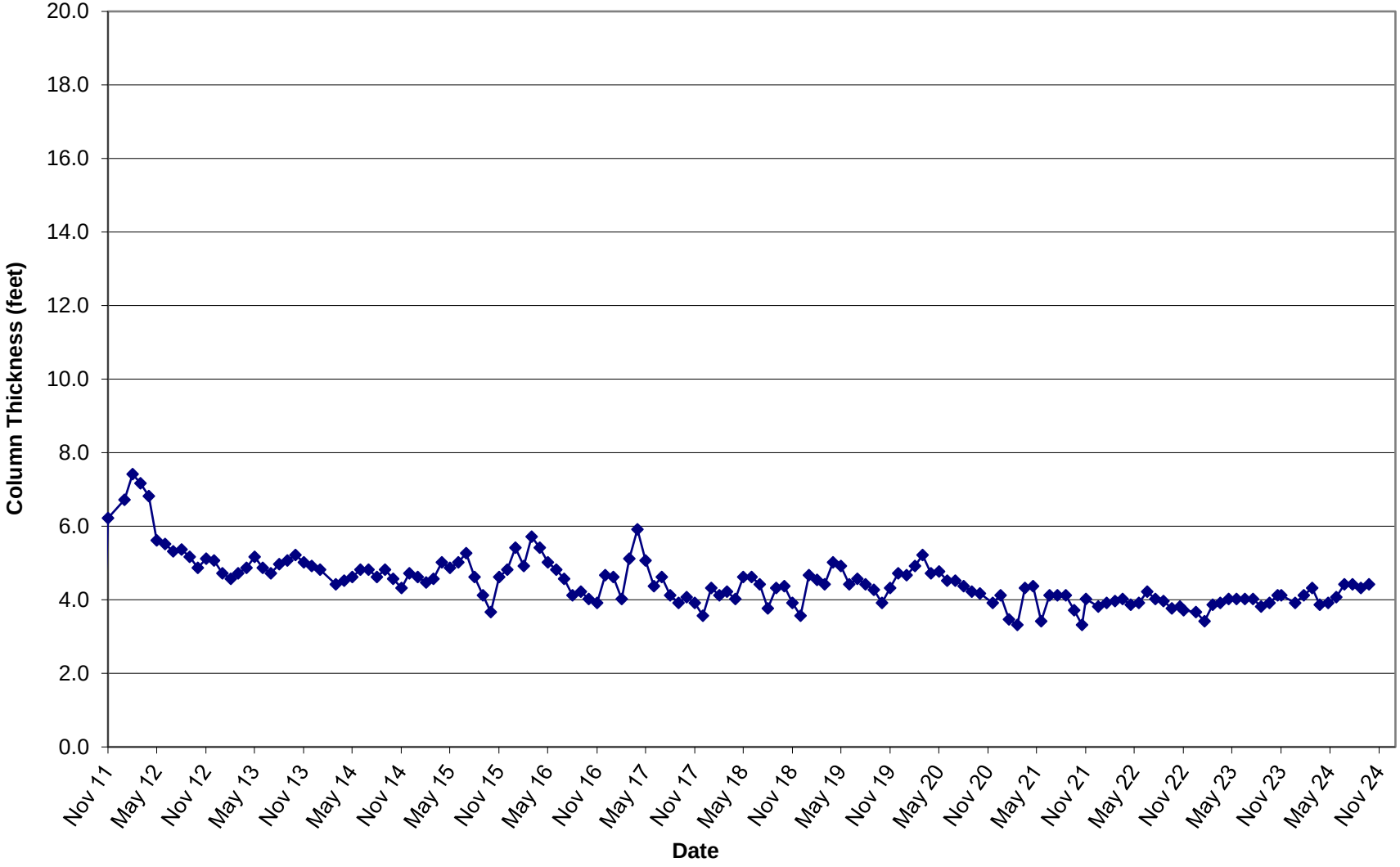
HISTORICAL LEACHATE COLUMN THICKNESSES AND ELEVATIONS
Cherokee County Sanitary Landfill
Permit No. 18-SDP-01-75P

Leachate Piezometer	LM-2 (North)		LM-3 (Middle)		LM-A1 (South)		LM-A2 (South)		LM-A3 (South)		LM-A4 (South)		LM-A5 (South)		LM-A6 (South)	
January-22	21.75	10.25	27.60	3.92	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00
February-22	21.85	10.15	27.55	3.97	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00
March-22	21.70	10.30	27.50	4.02	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00
April-22	21.90	10.10	27.65	3.87	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00
May-22	21.75	10.25	27.60	3.92	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00
June-22	22.20	9.80	27.30	4.22	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	0.40	0.03
July-22	21.85	10.15	27.50	4.02	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	0.40	0.03
August-22	22.15	9.85	27.55	3.97	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	0.40	0.03
September-22	22.30	9.70	27.75	3.77	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	0.40	0.03
October-22	22.35	9.65	27.70	3.82	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	0.40	0.03
November-22	22.40	9.60	27.80	3.72	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	0.40	0.03
December-22	22.90	9.10	27.85	3.67	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	0.60	0.05
January-23	22.70	9.30	28.10	3.42	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00
February-23	22.25	9.75	27.65	3.87	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00
March-23	23.00	9.00	27.60	3.92	Dry	0.00	21.00	0.30	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00
April-23	22.65	9.35	27.50	4.02	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	NM	NA
May-23	22.75	9.25	27.50	4.02	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	2.60	0.22
June-23	22.60	9.40	27.50	4.02	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	5.60	0.47
July-23	22.95	9.05	27.50	4.02	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	3.70	0.31
August-23	22.85	9.15	27.70	3.82	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	3.70	0.31
September-23	22.90	9.10	27.60	3.92	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	3.90	0.33
October-23	22.60	9.40	27.40	4.12	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	4.50	0.38
November-23	22.50	9.50	27.40	4.12	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	3.20	0.27
December-23	22.45	9.55	27.60	3.92	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	3.20	0.27
January-24	22.20	9.80	27.40	4.12	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	3.70	0.31
February-24	21.50	10.50	27.20	4.32	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	3.20	0.27
March-24	21.55	10.45	27.65	3.87	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	Dry	0.00	3.20	0.27
April-24	18.90	13.10	27.60	3.92	19.85	0.15	21.10	0.20	8.75	0.35	Dry	0.00	13.90	0.20	3.90	0.33
May-24	17.00	15.00	27.45	4.07	19.30	0.70	21.00	0.30	9.00	0.10	11.10	0.10	13.35	0.75	3.70	0.31
June-24	17.20	14.80	27.10	4.42	19.55	0.45	21.25	0.05	8.80	0.30	11.10	0.10	13.45	0.65	3.20	0.27
July-24	17.60	14.40	27.10	4.42	19.90	0.10	Dry	0.00	8.85	0.25	11.10	0.10	14.00	0.10	1.90	0.16
August-24	18.25	13.75	27.20	4.32	19.90	0.10	Dry	0.00	8.85	0.25	11.10	0.10	14.00	0.10	1.10	0.09
September-24	18.10	13.90	27.10	4.42	Dry	0.00	Dry	0.00	8.90	0.20	11.10	0.10	14.00	0.10	1.00	0.08
October-24	19.00	13.00	NA	NM	Dry	0.00	Dry	0.00	8.90	0.20	11.10	0.10	14.00	0.10	0.20	0.02
November-24	18.70	13.30	NA	NM	Dry	0.00	21.00	0.30	8.90	0.20	11.10	0.10	14.00	0.10	0.40	0.03
December-24	18.30	13.70	NA	NM	Dry	0.00	Dry	0.00	Dry	0.00	11.10	0.10	14.00	0.10	0.40	0.03

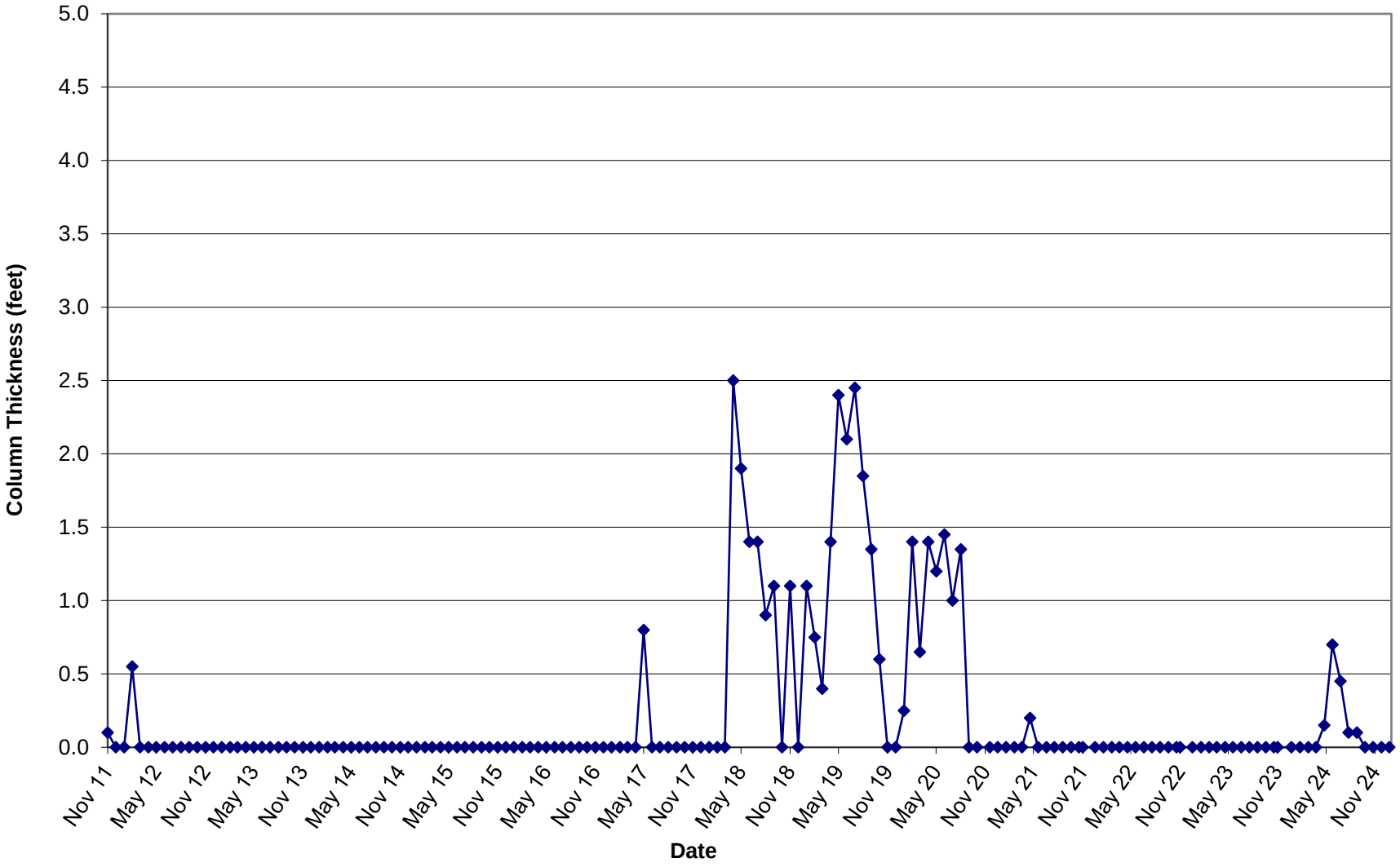
Measurements collected by Landfill staff.
* Levels not available due to heavy snow blocking access to the piezometers.
Measurements from January through October 2011 not available.
LM-A1 was extended from 15.50 feet to 20.00 feet prior to January 2015.
LM-A2 was extended from 15.50 feet to 21.30 feet prior to January 2015.
LM-A3 was extended from 5.52 feet to 9.10 feet prior to January 2015.
LM-A4 was extended from 9.30 feet to 14.10 feet prior to May 2020.
LM-A5 was installed in 2016 and first measured in October 2016.
LM-A6 was installed in 2021 and measurements began in November 2021.

LM-2 (North) Historical Leachate Column Thicknesses

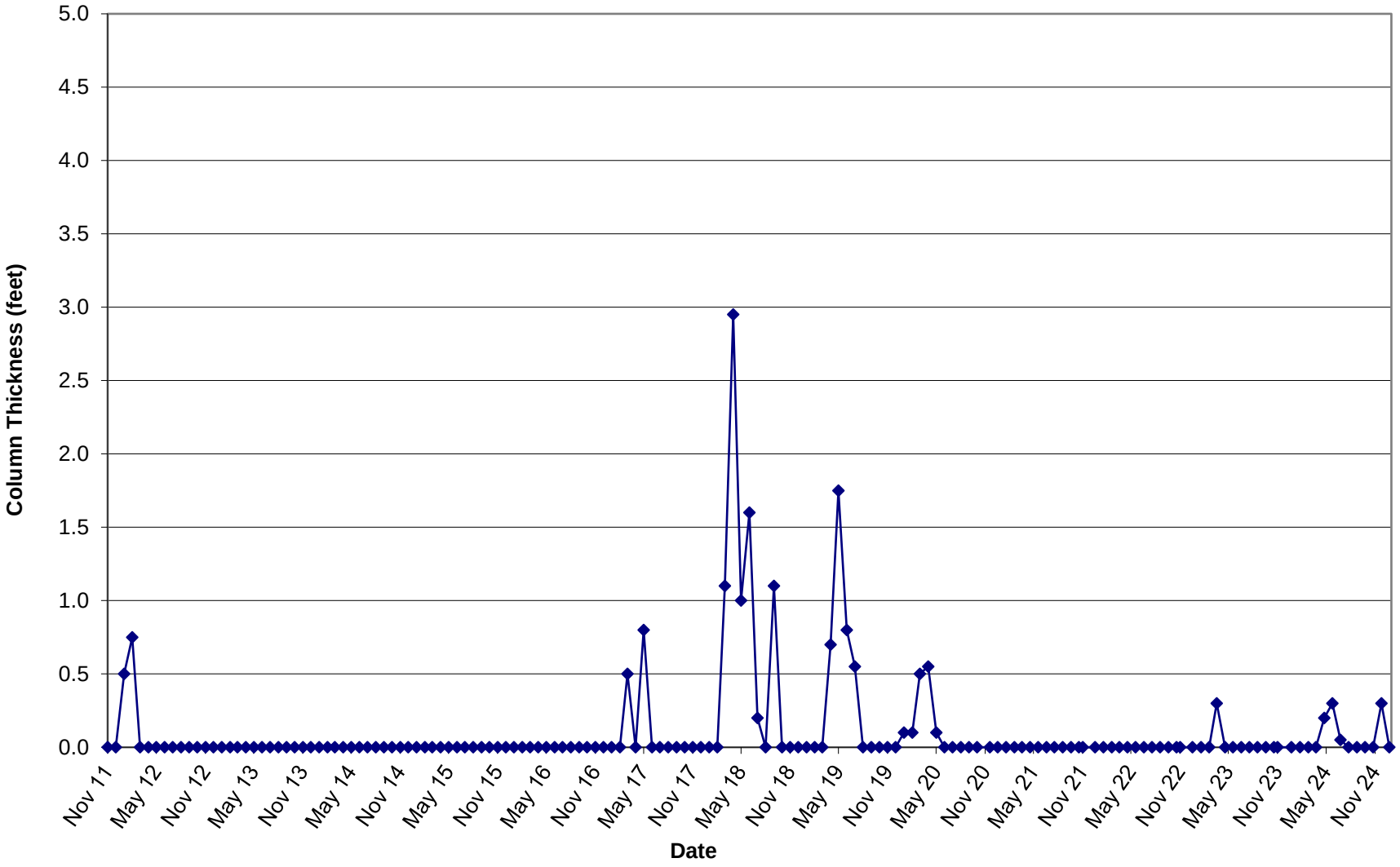
LM-3 (Middle) Historical Leachate Column Thicknesses



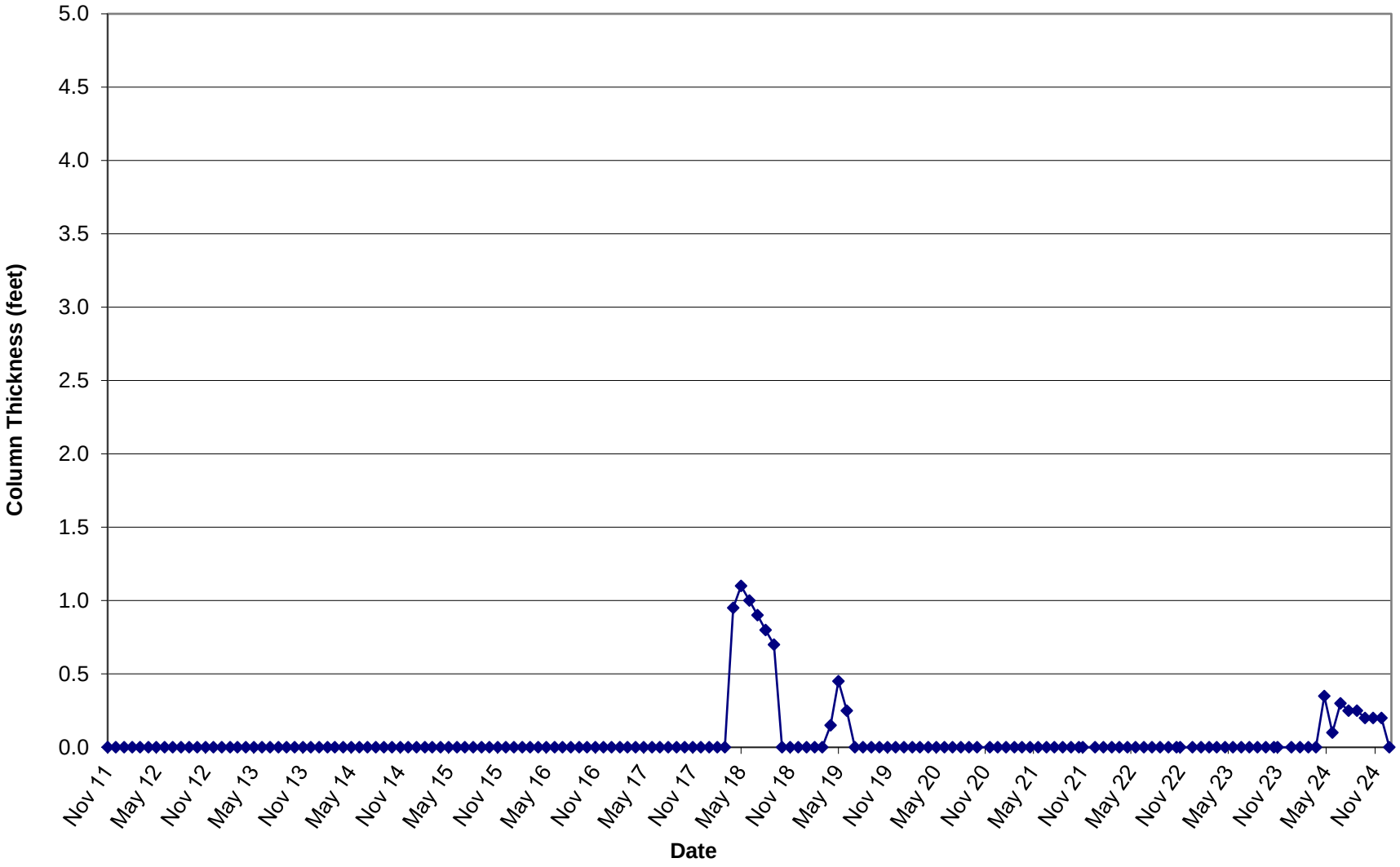
LM-A1 Cell Historical Leachate Column Thicknesses



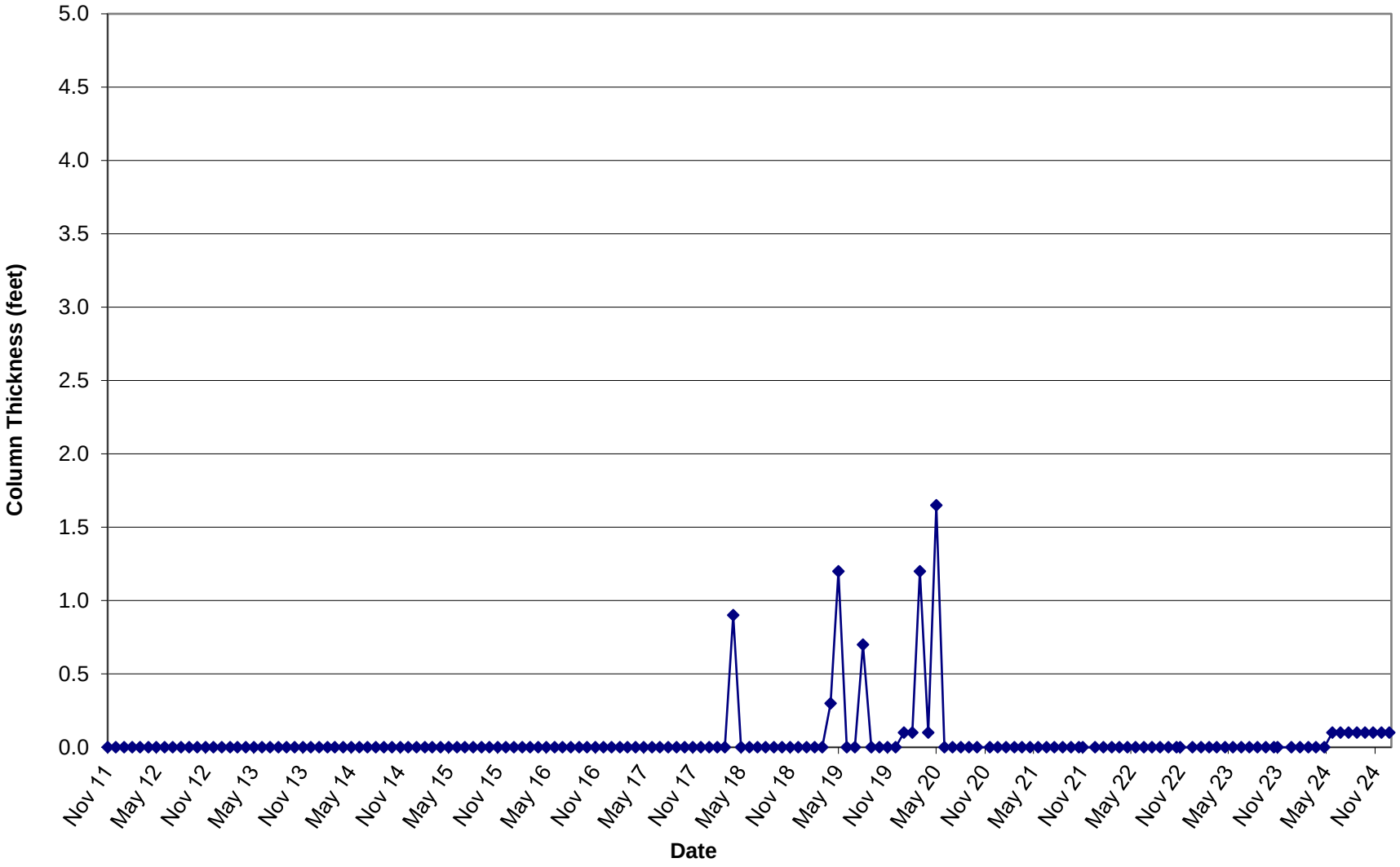
LM-A2 Cell Historical Leachate Column Thicknesses



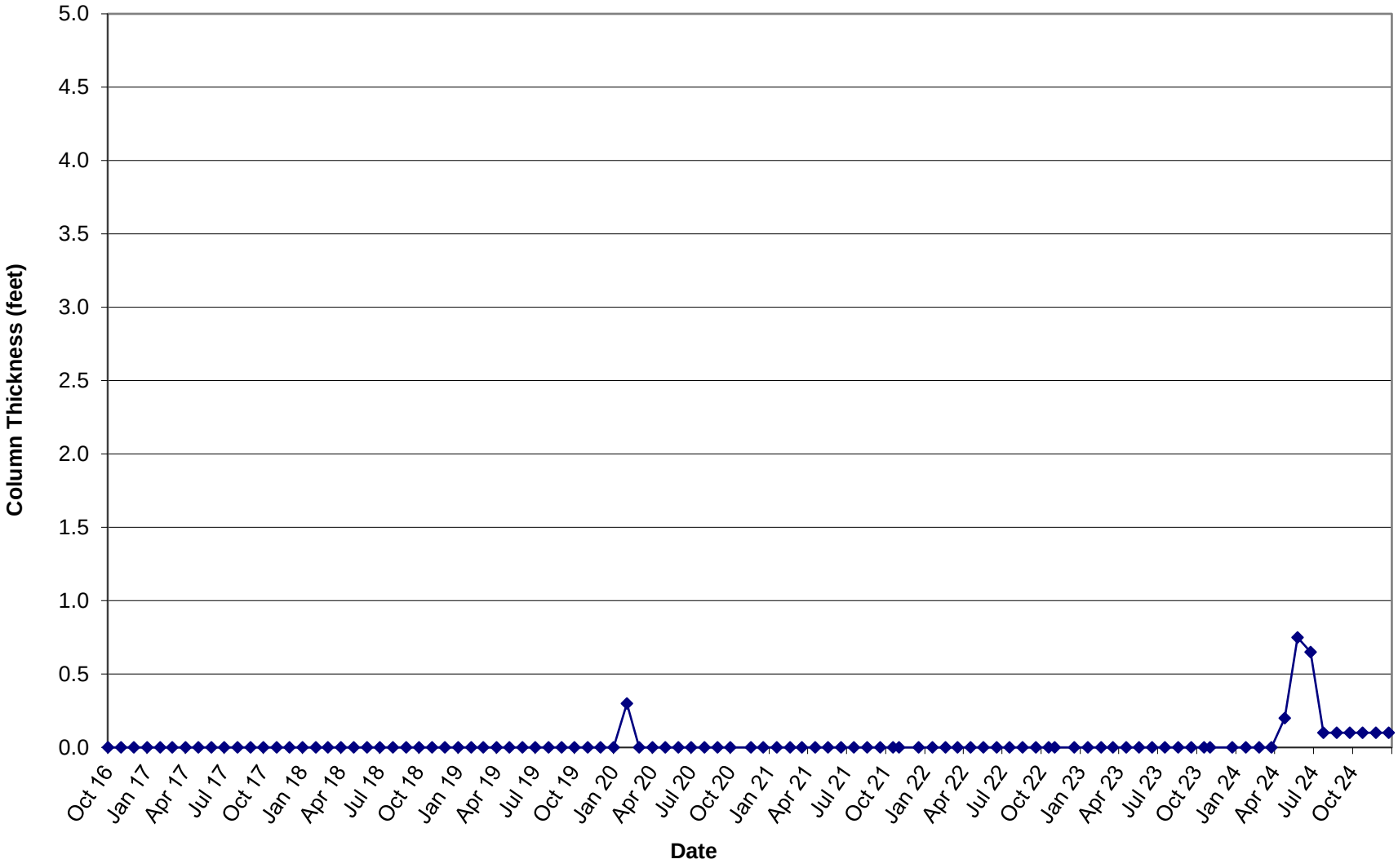
LM-A3 Cell Historic Leachate Column Thicknesses



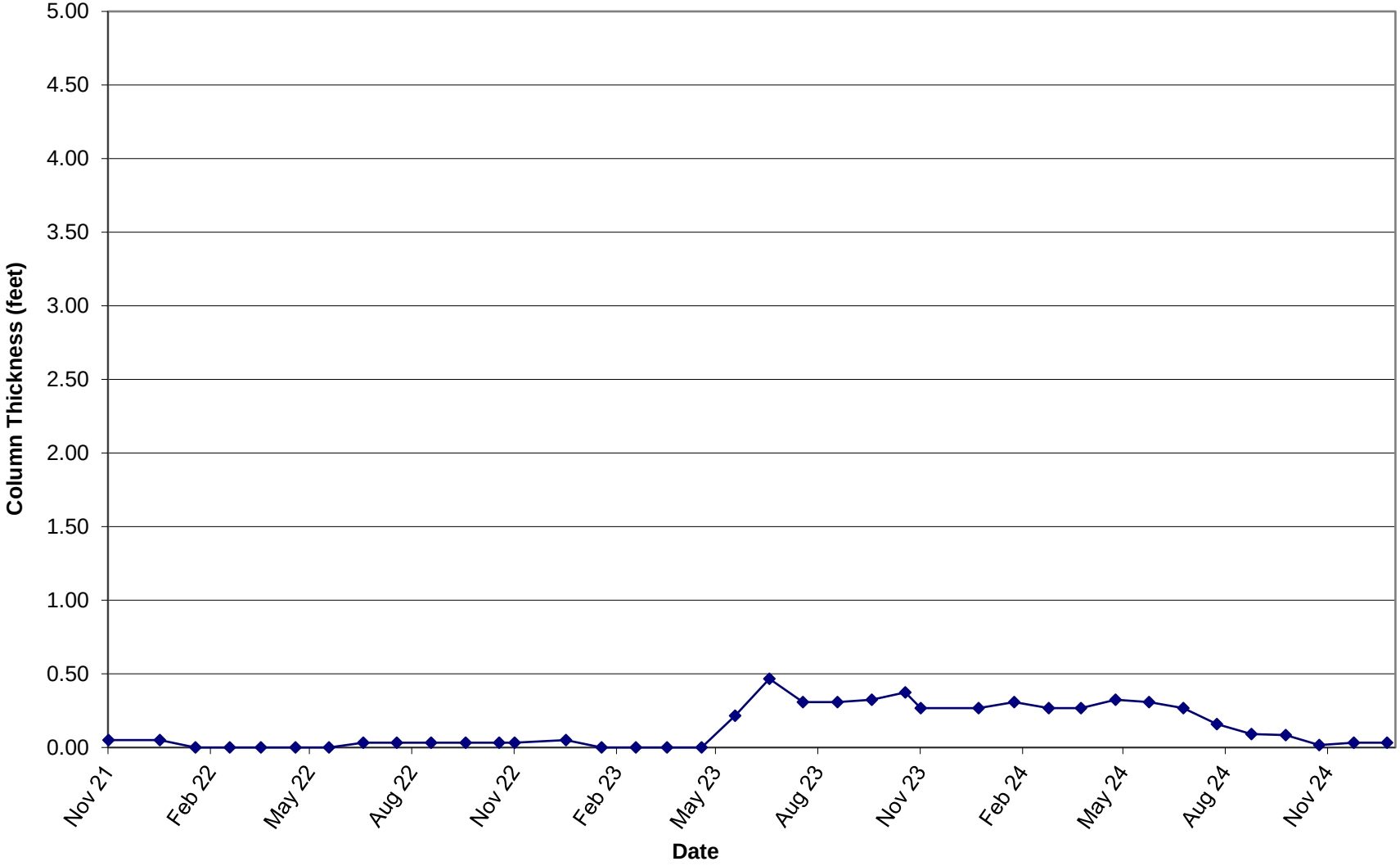
LM-A4 Cell Historical Leachate Column Thicknesses



LM-A5 Cell Historical Leachate Column Thicknesses



LM-A6 Cell Historical Leachate Column Thicknesses



Attachment C

Leachate Laboratory Analytical Data Sheets

Foundation
Analytical Laboratory

723 Sleezer Road
Cherokee, IA 51012
Phone: 712-225-6989
www.foundationanalytical.com

Certificate of Analysis

Report Date: 4-1-2024
Report Number: 24-092-0137
Lab ID Number: 24010376

Cherokee County Solid Waste Agency
1805 Linden Street
Cherokee, IA 51012

Date Submitted: 3-27-2024
Date Received: 3-27-2024
Contact: Brent Kach
Submitted By: Rob Stines

Sample Description: Landfill Leachate Grab
Sampled: 3-27-2024 @ 10:15 by RS
Received: 3-27-2024 @ 12:23 by SS (5.8°C)

Test Requested	Result	Analysis Date / Time	Analyst	Method
Total Kjeldahl Nitrogen (mg/L)	276	4-1-2024 8:48	HS	CFR PAI-DK03

Comments
Foundation Analytical Lab (IDNR Lab #396, USEPA Lab #IA01138) is certified by the Iowa Department of Natural Resources for the testing of wastewater and drinking water. Upon receipt sample met requirements for analysis.

Respectfully submitted by

Molly Lundsgaard
Laboratory Administrator

**** End Certificate of Analysis ****

Foundation
Analytical Laboratory

723 Sleezer Road
Cherokee, IA 51012
Phone: 712-225-6989
www.foundationanalytical.com

Certificate of Analysis

Report Date: 4-1-2024
Report Number: 24-092-0136
Lab ID Number: 24010375

Cherokee County Solid Waste Agency
1805 Linden Street
Cherokee, IA 51012

Date Submitted: 3-27-2024
Date Received: 3-27-2024
Contact: Brent Kach
Submitted By: Rob Stines

Sample Description: Landfill Leachate Grab
Sampled: 3-26-2024 @ 12:15 by RS
Received: 3-27-2024 @ 12:23 by SS (5.8°C)

Test Requested	Result	Analysis Date / Time	Analyst	Method
Total Kjeldahl Nitrogen (mg/L)	349	4-1-2024 8:48	HS	CFR PAI-DK03

Comments
Foundation Analytical Lab (IDNR Lab #396, USEPA Lab #IA01138) is certified by the Iowa Department of Natural Resources for the testing of wastewater and drinking water. Upon receipt sample met requirements for analysis.

Respectfully submitted by

Molly Lundsgaard
Laboratory Administrator

**** End Certificate of Analysis ****

Foundation
Analytical Laboratory

723 Sleezer Road
Cherokee, IA 51012
Phone: 712-225-6989
www.foundationanalytical.com

Certificate of Analysis

Report Date: 4-11-2024
Report Number: 24-102-0133
Lab ID Number: 24011989

Cherokee County Solid Waste Agency
1805 Linden Street
Cherokee, IA 51012

Date Submitted: 4-5-2024
Date Received: 4-5-2024
Contact: Tony Agnitsch

Sample Description: Landfill Leachate Grab
Sampled: 4-5-2024 @ 11:25 by RS
Received: 4-5-2024 @ 12:55 by SS (13.1°C)

Test Requested	Result	Analysis Date / Time	Analyst	Method
Total Kjeldahl Nitrogen (mg/L)	281	4-11-2024 8:24	HS	CFR PAI-DK03

Comments
Foundation Analytical Lab (IDNR Lab #396, USEPA Lab #IA01138) is certified by the Iowa Department of Natural Resources for the testing of wastewater and drinking water. Upon receipt sample met requirements for analysis EXCEPT sample temperature (TKN: 0-6°C).

Respectfully submitted by

Molly Lundsgaard
Laboratory Administrator

**** End Certificate of Analysis ****

Foundation
Analytical Laboratory

723 Sleezer Road
Cherokee, IA 51012
Phone: 712-225-6989
www.foundationanalytical.com

Certificate of Analysis

Report Date: 4-11-2024
Report Number: 24-102-0132
Lab ID Number: 24011988

Cherokee County Solid Waste Agency
1805 Linden Street
Cherokee, IA 51012

Date Submitted: 4-5-2024
Date Received: 4-5-2024
Contact: Tony Agnitsch

Sample Description: Landfill Leachate Grab
Sampled: 4-4-2024 @ 12:40 by RS
Received: 4-5-2024 @ 12:55 by SS (13.1°C)

Test Requested	Result	Analysis Date / Time	Analyst	Method
Total Kjeldahl Nitrogen (mg/L)	272	4-11-2024 8:24	HS	CFR PAI-DK03

Comments
Foundation Analytical Lab (IDNR Lab #396, USEPA Lab #IA01138) is certified by the Iowa Department of Natural Resources for the testing of wastewater and drinking water. Upon receipt sample met requirements for analysis EXCEPT sample temperature (TKN: 0-6°C) and pH guidelines not met.

Respectfully submitted by

Molly Lundsgaard
Laboratory Administrator

**** End Certificate of Analysis ****

Foundation
Analytical Laboratory

723 Sleezer Road
Cherokee, IA 51012
Phone: 712-225-6989
www.foundationanalytical.com

Certificate of Analysis

Report Date: 4-18-2024
Report Number: 24-109-0225
Lab ID Number: 24013018

Cherokee County Solid Waste Agency
1805 Linden Street
Cherokee, IA 51012

Date Submitted: 4-10-2024
Date Received: 4-15-2024
Contact: Brent Kach

Sample Description: Landfill Leachate Grab
Sampled: 4-10-2024 @ 11:10 by LD
Received: 4-15-2024 @ 10:59 by KH (9.0°C)

Test Requested	Result	Analysis Date / Time	Analyst	Method
Total Kjeldahl Nitrogen (mg/L)	296	4-18-2024 7:54	BG	CFR PAI-DK03

Comments
Foundation Analytical Lab (IDNR Lab #396, USEPA Lab #IA01138) is certified by the Iowa Department of Natural Resources for the testing of wastewater and drinking water. Upon receipt sample met requirements for analysis EXCEPT sample temperature (TKN: 0-6°C).

Respectfully submitted by

Brittany Erickson
Quality Manager

**** End Certificate of Analysis ****

Foundation
Analytical Laboratory

723 Sleezer Road
Cherokee, IA 51012
Phone: 712-225-6989
www.foundationanalytical.com

Certificate of Analysis

Report Date: 4-18-2024
Report Number: 24-109-0224
Lab ID Number: 24013017

Cherokee County Solid Waste Agency
1805 Linden Street
Cherokee, IA 51012

Date Submitted: 4-11-2024
Date Received: 4-15-2024
Contact: Brent Kach

Sample Description: Landfill Leachate Grab
Sampled: 4-11-2024 @ 12:35 by RS
Received: 4-15-2024 @ 10:59 by KH (9.0ºC)

Test Requested	Result	Analysis Date / Time	Analyst	Method
Total Kjeldahl Nitrogen (mg/L)	297	4-18-2024 7:54	BG	CFR PAI-DK03

Comments
Foundation Analytical Lab (IDNR Lab #396, USEPA Lab #IA01138) is certified by the Iowa Department of Natural Resources for the testing of wastewater and drinking water. Upon receipt sample met requirements for analysis EXCEPT sample temperature (TKN: 0-6°C).

Respectfully submitted by

Brittany Erickson
Quality Manager

**** End Certificate of Analysis ****

Foundation
Analytical Laboratory

723 Sleezer Road
Cherokee, IA 51012
Phone: 712-225-6989
www.foundationanalytical.com

Certificate of Analysis

Report Date: 5-8-2024
Report Number: 24-129-0049
Lab ID Number: 24015077

Cherokee County Solid Waste Agency
1805 Linden Street
Cherokee, IA 51012

Date Submitted: 5-3-2024
Date Received: 5-3-2024
Contact: Cherokee Wastewater

Sample Description: Landfill Leachate Grab
Sampled: 5-1-2024 @ 11:08 by RS
Received: 5-3-2024 @ 13:10 by AO (13.1°C)

Test Requested	Result	Analysis Date / Time	Analyst	Method
Total Kjeldahl Nitrogen (mg/L)	287	5-7-2024 11:31	JS	CFR PAI-DK03

Comments
Foundation Analytical Lab (IDNR Lab #396, USEPA Lab #IA01138) is certified by the Iowa Department of Natural Resources for the testing of wastewater and drinking water. Upon receipt sample met requirements for analysis EXCEPT sample temperature (TKN: 0-6°C).

Respectfully submitted by

Brittany Erickson
Quality Manager

**** End Certificate of Analysis ****

Foundation
Analytical Laboratory

723 Sleezer Road
Cherokee, IA 51012
Phone: 712-225-6989
www.foundationanalytical.com

Certificate of Analysis

Report Date: 5-8-2024
Report Number: 24-129-0048
Lab ID Number: 24015076

Cherokee County Solid Waste Agency
1805 Linden Street
Cherokee, IA 51012

Date Submitted: 5-3-2024
Date Received: 5-3-2024
Contact: Cherokee Wastewater

Sample Description: Landfill Leachate Grab
Sampled: 5-3-2024 @ 11:35 by RS
Received: 5-3-2024 @ 13:10 by AO (13.1°C)

Test Requested	Result	Analysis Date / Time	Analyst	Method
Total Kjeldahl Nitrogen (mg/L)	303	5-7-2024 11:31	JS	CFR PAI-DK03

Comments
Foundation Analytical Lab (IDNR Lab #396, USEPA Lab #IA01138) is certified by the Iowa Department of Natural Resources for the testing of wastewater and drinking water. Upon receipt sample met requirements for analysis EXCEPT sample temperature (TKN: 0-6°C).

Respectfully submitted by

Brittany Erickson
Quality Manager

**** End Certificate of Analysis ****

Foundation
Analytical Laboratory

723 Sleezer Road
Cherokee, IA 51012
Phone: 712-225-6989
www.foundationanalytical.com

Certificate of Analysis

Report Date: 5-22-2024
Report Number: 24-143-0043
Lab ID Number: 24016861

Cherokee County Solid Waste Agency
1805 Linden Street
Cherokee, IA 51012

Date Submitted: 5-16-2024
Date Received: 5-16-2024
Contact: Cherokee Wastewater

Sample Description: Landfill Leachate Grab
Sampled: 5-15-2024 @ 11:29 by LD
Received: 5-16-2024 @ 12:58 by zw (16.3°C)

Test Requested	Result	Analysis Date / Time	Analyst	Method
Total Kjeldahl Nitrogen (mg/L)	215	5-21-2024 1:16	BG	CFR PAI-DK03

Comments
Foundation Analytical Lab (IDNR Lab #396, USEPA Lab #IA01138) is certified by the Iowa Department of Natural Resources for the testing of wastewater and drinking water. Upon receipt sample met requirements for analysis EXCEPT sample temperature (TKN: 0-6°C).

Respectfully submitted by

Brittany Erickson
Quality Manager

**** End Certificate of Analysis ****

Foundation
Analytical Laboratory

723 Sleezer Road
Cherokee, IA 51012
Phone: 712-225-6989
www.foundationanalytical.com

Certificate of Analysis

Report Date: 5-29-2024
Report Number: 24-150-0152
Lab ID Number: 24017961

Cherokee County Solid Waste Agency
1805 Linden Street
Cherokee, IA 51012

Date Submitted: 5-23-2024
Date Received: 5-23-2024
Contact: Tony Agnitsch
Submitted By: Rob Stines

Sample Description: Landfill Leachate Grab
Sampled: 5-22-2024 @ 11:30 by LD
Received: 5-23-2024 @ 15:10 by BR (14.3°C)

Test Requested	Result	Analysis Date / Time	Analyst	Method
Total Kjeldahl Nitrogen (mg/L)	236	5-29-2024 9:21	HS	CFR PAI-DK03

Comments
Foundation Analytical Lab (IDNR Lab #396, USEPA Lab #IA01138) is certified by the Iowa Department of Natural Resources for the testing of wastewater and drinking water. Upon receipt sample met requirements for analysis EXCEPT sample temperature (TKN: 0-6°C).

Respectfully submitted by

Brittany Erickson
Quality Manager

**** End Certificate of Analysis ****

Foundation
Analytical Laboratory

723 Sleezer Road
Cherokee, IA 51012
Phone: 712-225-6989
www.foundationanalytical.com

Certificate of Analysis

Report Date: 5-29-2024
Report Number: 24-150-0151
Lab ID Number: 24017960

Cherokee County Solid Waste Agency
1805 Linden Street
Cherokee, IA 51012

Date Submitted: 5-23-2024
Date Received: 5-23-2024
Contact: Tony Agnitsch
Submitted By: Rob Stines

Sample Description: Landfill Leachate Grab
Sampled: 5-23-2024 @ 11:04 by LD
Received: 5-23-2024 @ 15:10 by BR (14.3°C)

Test Requested	Result	Analysis Date / Time	Analyst	Method
Total Kjeldahl Nitrogen (mg/L)	247	5-29-2024 9:21	HS	CFR PAI-DK03

Comments
Foundation Analytical Lab (IDNR Lab #396, USEPA Lab #IA01138) is certified by the Iowa Department of Natural Resources for the testing of wastewater and drinking water. Upon receipt sample met requirements for analysis EXCEPT sample temperature (TKN: 0-6°C). Total Kjeldahl Nitrogen analyzed in duplicate prior to reporting

Respectfully submitted by

Brittany Erickson

Brittany Erickson
Quality Manager

**** End Certificate of Analysis ****

Foundation
Analytical Laboratory

723 Sleezer Road
Cherokee, IA 51012
Phone: 712-225-6989
www.foundationanalytical.com

Certificate of Analysis

Report Date: 6-19-2024
Report Number: 24-171-0117
Lab ID Number: 24020314

Cherokee County Solid Waste Agency
1805 Linden Street
Cherokee, IA 51012

Date Submitted: 6-12-2024
Date Received: 6-12-2024
Contact: Cherokee Wastewater

Sample Description: Landfill Leachate Grab
Sampled: 6-12-2024 @ 12:05 by RS
Received: 6-12-2024 @ 13:49 by BR (6.8°C)

Test Requested	Result	Analysis Date / Time	Analyst	Method
Total Kjeldahl Nitrogen (mg/L)	314	6-19-2024 7:52	HS	CFR PAI-DK03

Comments
Foundation Analytical Lab (IDNR Lab #396, USEPA Lab #IA01138) is certified by the Iowa Department of Natural Resources for the testing of wastewater and drinking water. Upon receipt sample met requirements for analysis EXCEPT sample temperature (TKN: 0-6°C).

Respectfully submitted by

Molly Lundsgaard
Laboratory Administrator

**** End Certificate of Analysis ****

Foundation
Analytical Laboratory

723 Sleezer Road
Cherokee, IA 51012
Phone: 712-225-6989
www.foundationanalytical.com

Certificate of Analysis

Report Date: 6-19-2024
Report Number: 24-171-0116
Lab ID Number: 24020313

Cherokee County Solid Waste Agency
1805 Linden Street
Cherokee, IA 51012

Date Submitted: 6-12-2024
Date Received: 6-12-2024
Contact: Cherokee Wastewater

Sample Description: Landfill Leachate Grab
Sampled: 6-12-2024 @ 12:10 by RS
Received: 6-12-2024 @ 13:49 by BR (6.8°C)

Test Requested	Result	Analysis Date / Time	Analyst	Method
Total Kjeldahl Nitrogen (mg/L)	317	6-19-2024 7:52	HS	CFR PAI-DK03

Comments
Foundation Analytical Lab (IDNR Lab #396, USEPA Lab #IA01138) is certified by the Iowa Department of Natural Resources for the testing of wastewater and drinking water. Upon receipt sample met requirements for analysis EXCEPT sample temperature (TKN: 0-6°C).

Respectfully submitted by

Molly Lundsgaard
Laboratory Administrator

**** End Certificate of Analysis ****

Foundation
Analytical Laboratory

723 Sleezer Road
Cherokee, IA 51012
Phone: 712-225-6989
www.foundationanalytical.com

Certificate of Analysis

Report Date: 6-27-2024
Report Number: 24-179-0131
Lab ID Number: 24021432

Cherokee County Solid Waste Agency
1805 Linden Street
Cherokee, IA 51012

Date Submitted: 6-21-2024
Date Received: 6-21-2024
Contact: Tony Agnitsch
Submitted By: Rob Stines

Sample Description: Landfill Leachate Grab
Sampled: 6-21-2024 @ 10:30 by RS
Received: 6-21-2024 @ 13:00 by SS (14.5°C)

Test Requested	Result	Analysis Date / Time	Analyst	Method
Total Kjeldahl Nitrogen (mg/L)	164	6-27-2024 7:37	JS	CFR PAI-DK03

Comments
Foundation Analytical Lab (IDNR Lab #396, USEPA Lab #IA01138) is certified by the Iowa Department of Natural Resources for the testing of wastewater and drinking water. Upon receipt sample met requirements for analysis EXCEPT sample temperature (TKN: 0-6°C).

Respectfully submitted by

Brittany Erickson
Quality Manager

**** End Certificate of Analysis ****

Foundation
Analytical Laboratory

723 Sleezer Road
Cherokee, IA 51012
Phone: 712-225-6989
www.foundationanalytical.com

Certificate of Analysis

Report Date: 6-27-2024
Report Number: 24-179-0130
Lab ID Number: 24021431

Cherokee County Solid Waste Agency
1805 Linden Street
Cherokee, IA 51012

Date Submitted: 6-21-2024
Date Received: 6-21-2024
Contact: Tony Agnitsch
Submitted By: Rob Stines

Sample Description: Landfill Leachate Grab
Sampled: 6-20-2024 @ 11:30 by LD
Received: 6-21-2024 @ 13:00 by SS (14.5°C)

Test Requested	Result	Analysis Date / Time	Analyst	Method
Total Kjeldahl Nitrogen (mg/L)	240	6-27-2024 7:37	JS	CFR PAI-DK03

Comments
Foundation Analytical Lab (IDNR Lab #396, USEPA Lab #IA01138) is certified by the Iowa Department of Natural Resources for the testing of wastewater and drinking water. Upon receipt sample met requirements for analysis EXCEPT sample temperature (TKN: 0-6°C).

Respectfully submitted by

Brittany Erickson
Quality Manager

**** End Certificate of Analysis ****

Foundation
Analytical Laboratory

723 Sleezer Road
Cherokee, IA 51012
Phone: 712-225-6989
www.foundationanalytical.com

Certificate of Analysis

Report Date: 7-17-2024
Report Number: 24-199-0083
Lab ID Number: 24023624

Cherokee County Solid Waste Agency
1805 Linden Street
Cherokee, IA 51012

Date Submitted: 7-10-2024
Date Received: 7-10-2024
Contact: Tony Agnitsch
Submitted By: Luke Dobson

Sample Description: Landfill Leachate (4) Grab
Sampled: 7-10-2024 @ 14:44 by LD
Received: 7-10-2024 @ 15:34 by AO (13.4°C)

Test Requested	Result	Analysis Date / Time	Analyst	Method
Total Kjeldahl Nitrogen (mg/L)	280	7-16-2024 4:10	RT	CFR PAI-DK03

Comments
Foundation Analytical Lab (IDNR Lab #396, USEPA Lab #IA01138) is certified by the Iowa Department of Natural Resources for the testing of wastewater and drinking water. Upon receipt sample met requirements for analysis EXCEPT pH guidelines not met.

Respectfully submitted by

Brittany Erickson
Quality Manager

**** End Certificate of Analysis ****

Foundation
Analytical Laboratory

723 Sleezer Road
Cherokee, IA 51012
Phone: 712-225-6989
www.foundationanalytical.com

Certificate of Analysis

Report Date: 7-17-2024
Report Number: 24-199-0082
Lab ID Number: 24023623

Cherokee County Solid Waste Agency
1805 Linden Street
Cherokee, IA 51012

Date Submitted: 7-10-2024
Date Received: 7-10-2024
Contact: Tony Agnitsch
Submitted By: Luke Dobson

Sample Description: Landfill Leachate (3) Grab
Sampled: 7-10-2024 @ 14:44 by LD
Received: 7-10-2024 @ 15:34 by AO (13.4°C)

Test Requested	Result	Analysis Date / Time	Analyst	Method
BOD (mg/L)	340	7-12-2024 9:45	LA	SM 5210B - 2011
Total Suspended Solids (mg/L)	730	7-11-2024 7:53	JRS	SM 2540 D - 2011
pH	7.51	7-11-2024 9:06	BC	SM 4500-H B - 2011

Comments
Foundation Analytical Lab (IDNR Lab #396, USEPA Lab #IA01138) is certified by the Iowa Department of Natural Resources for the testing of wastewater and drinking water. Upon receipt sample met requirements for analysis EXCEPT maximum hold time exceeded (pH).

Respectfully submitted by

Brittany Erickson

Brittany Erickson
Quality Manager

**** End Certificate of Analysis ****

Foundation
Analytical Laboratory

723 Sleezer Road
Cherokee, IA 51012
Phone: 712-225-6989
www.foundationanalytical.com

Certificate of Analysis

Report Date: 7-17-2024
Report Number: 24-199-0081
Lab ID Number: 24023622

Cherokee County Solid Waste Agency
1805 Linden Street
Cherokee, IA 51012

Date Submitted: 7-10-2024
Date Received: 7-10-2024
Contact: Tony Agnitsch
Submitted By: Luke Dobson

Sample Description: Landfill Leacahte (2) Grab
Sampled: 7-10-2024 @ 14:44 by LD
Received: 7-10-2024 @ 15:34 by AO (13.4°C)

Test Requested	Result	Analysis Date / Time	Analyst	Method
Total Kjeldahl Nitrogen (mg/L)	264	7-16-2024 4:10	RT	CFR PAI-DK03

Comments
Foundation Analytical Lab (IDNR Lab #396, USEPA Lab #IA01138) is certified by the Iowa Department of Natural Resources for the testing of wastewater and drinking water. Upon receipt sample met requirements for analysis EXCEPT pH guidelines not met

Respectfully submitted by

Brittany Erickson

Brittany Erickson
Quality Manager

**** End Certificate of Analysis ****

Foundation
Analytical Laboratory

723 Sleezer Road
Cherokee, IA 51012
Phone: 712-225-6989
www.foundationanalytical.com

Certificate of Analysis

Report Date: 7-17-2024
Report Number: 24-199-0080
Lab ID Number: 24023621

Cherokee County Solid Waste Agency
1805 Linden Street
Cherokee, IA 51012

Date Submitted: 7-10-2024
Date Received: 7-10-2024
Contact: Tony Agnitsch
Submitted By: Luke Dobson

Sample Description: Landfill Leachate (1) Grab
Sampled: 7-10-2024 @ 14:44 by LD
Received: 7-10-2024 @ 15:34 by AO (13.4°C)

Test Requested	Result	Analysis Date / Time	Analyst	Method
BOD (mg/L)	< 218	7-12-2024 9:42	LA	SM 5210B - 2011
Total Suspended Solids (mg/L)	105	7-11-2024 7:53	JRS	SM 2540 D - 2011
pH	7.49	7-11-2024 9:08	BC	SM 4500-H B - 2011

Comments
Foundation Analytical Lab (IDNR Lab #396, USEPA Lab #IA01138) is certified by the Iowa Department of Natural Resources for the testing of wastewater and drinking water. Upon receipt sample met requirements for analysis EXCEPT maximum hold time exceeded (pH)

Respectfully submitted by

Brittany Erickson
Quality Manager

**** End Certificate of Analysis ****

Foundation
Analytical Laboratory

723 Sleezer Road
Cherokee, IA 51012
Phone: 712-225-6989
www.foundationanalytical.com

Certificate of Analysis

Report Date: 7-22-2024
Report Number: 24-204-0176
Lab ID Number: 24024516

Cherokee County Solid Waste Agency
1805 Linden Street
Cherokee, IA 51012

Date Submitted: 7-17-2024
Date Received: 7-17-2024
Contact: Cherokee Wastewater

Sample Description: Landfill Leachate Grab
Sampled: 7-17-2024 @ 14:02 by LO
Received: 7-17-2024 @ 14:44 by BR (13.5°C)

Test Requested	Result	Analysis Date / Time	Analyst	Method
BOD (mg/L)	245	7-17-2024 15:56	EB	SM 5210B - 2011
Total Kjeldahl Nitrogen (mg/L)	274	7-22-2024 10:10	MM	CFR PAI-DK03
Total Suspended Solids (mg/L)	70	7-18-2024 9:19	EB	SM 2540 D - 2011
pH	7.32	7-17-2024 15:51	BC	SM 4500-H B - 2011

Comments
Foundation Analytical Lab (IDNR Lab #396, USEPA Lab #IA01138) is certified by the Iowa Department of Natural Resources for the testing of wastewater and drinking water. Upon receipt sample met requirements for analysis EXCEPT sample temperature (BOD: 0-6°C; pH: 0-6°C; TKN: 0-6°C; Total Suspended Solids: 0-6°C), pH guidelines not met and maximum hold time exceeded (pH).

Respectfully submitted by

Molly Lundsgaard
Laboratory Administrator

**** End Certificate of Analysis ****

Foundation
Analytical Laboratory

723 Sleezer Road
Cherokee, IA 51012
Phone: 712-225-6989
www.foundationanalytical.com

Certificate of Analysis

Report Date: 8-6-2024
Report Number: 24-219-0207
Lab ID Number: 24026375

Cherokee County Solid Waste Agency
1805 Linden Street
Cherokee, IA 51012

Date Submitted: 8-1-2024
Date Received: 8-1-2024
Contact: Cherokee Wastewater

Sample Description: Landfill Leachate Grab
Sampled: 7-31-2024 @ 14:56 by Unknown
Received: 8-1-2024 @ 10:05 by zw (8.8°C)

Test Requested	Result	Analysis Date / Time	Analyst	Method
BOD (mg/L)	284	8-1-2024 13:50	SK	SM 5210B - 2011
Total Kjeldahl Nitrogen (mg/L)	338	8-6-2024 7:51	RT	CFR PAI-DK03
Total Suspended Solids (mg/L)	51	8-6-2024 7:55	EB	SM 2540 D - 2011

Comments
Foundation Analytical Lab (IDNR Lab #396, USEPA Lab #IA01138) is certified by the Iowa Department of Natural Resources for the testing of wastewater and drinking water. Upon receipt sample met requirements for analysis EXCEPT sample temperature (BOD: 0-6°C; TKN: 0-6°C; Total Suspended Solids: 0-6°C).

Respectfully submitted by

Molly Lundsgaard
Laboratory Administrator

**** End Certificate of Analysis ****

Foundation
Analytical Laboratory

723 Sleezer Road
Cherokee, IA 51012
Phone: 712-225-6989
www.foundationanalytical.com

Certificate of Analysis

Report Date: 8-6-2024
Report Number: 24-219-0206
Lab ID Number: 24026374

Cherokee County Solid Waste Agency
1805 Linden Street
Cherokee, IA 51012

Date Submitted: 8-1-2024
Date Received: 8-1-2024
Contact: Cherokee Wastewater

Sample Description: Landfill Leachate Grab
Sampled: 7-30-2024 @ 14:35 by LO
Received: 8-1-2024 @ 10:05 by zw (8.8°C)

Test Requested	Result	Analysis Date / Time	Analyst	Method
BOD (mg/L)	296	8-1-2024 13:24	SK	SM 5210B - 2011
Total Kjeldahl Nitrogen (mg/L)	346	8-5-2024 7:54	RT	CFR PAI-DK03
Total Suspended Solids (mg/L)	89	8-6-2024 7:55	EB	SM 2540 D - 2011

Comments
Foundation Analytical Lab (IDNR Lab #396, USEPA Lab #IA01138) is certified by the Iowa Department of Natural Resources for the testing of wastewater and drinking water. Upon receipt sample met requirements for analysis EXCEPT sample temperature (BOD: 0-6°C; TKN: 0-6°C; Total Suspended Solids: 0-6°C).

Respectfully submitted by

Molly Lundsgaard
Laboratory Administrator

**** End Certificate of Analysis ****

Foundation
Analytical Laboratory

723 Sleezer Road
Cherokee, IA 51012
Phone: 712-225-6989
www.foundationanalytical.com

Certificate of Analysis

Report Date: 8-26-2024
Report Number: 24-239-0049
Lab ID Number: 24029250

Cherokee County Solid Waste Agency
1805 Linden Street
Cherokee, IA 51012

Date Submitted: 8-21-2024
Date Received: 8-21-2024
Contact: Tony Agnitsch
Submitted By: Luke Dobson

Sample Description: Landfill Leachate Grab
Sampled: 8-21-2024 @ 8:43 by LD
Received: 8-21-2024 @ 9:03 by SS (7.2°C)

Test Requested	Result	Analysis Date / Time	Analyst	Method
BOD (mg/L)	< 58.5	8-21-2024 13:03	EB	SM 5210B - 2011
Total Kjeldahl Nitrogen (mg/L)	120	8-26-2024 7:50	JS	CFR PAI-DK03
Total Suspended Solids (mg/L)	126	8-22-2024 7:54	EB	SM 2540 D - 2011
pH	8.23	8-21-2024 15:07	RT	SM 4500-H B - 2011

Comments
Foundation Analytical Lab (IDNR Lab #396, USEPA Lab #IA01138) is certified by the Iowa Department of Natural Resources for the testing of wastewater and drinking water. Upon receipt sample met requirements for analysis EXCEPT pH guidelines not met and maximum hold time exceeded (pH). pH analyzed in duplicate prior to reporting

Respectfully submitted by

Brittany Erickson
Quality Manager

**** End Certificate of Analysis ****

Foundation
Analytical Laboratory

723 Sleezer Road
Cherokee, IA 51012
Phone: 712-225-6989
www.foundationanalytical.com

Certificate of Analysis

Report Date: 9-4-2024
Report Number: 24-248-0091
Lab ID Number: 24030261

Cherokee County Solid Waste Agency
1805 Linden Street
Cherokee, IA 51012

Date Submitted: 8-28-2024
Date Received: 8-28-2024
Contact: Cherokee Wastewater
Submitted By: Luke Dobson

Sample Description: Landfill Leachate Grab
Sampled: 8-28-2024 @ 13:34 by LD
Received: 8-28-2024 @ 14:01 by zw (10.9°C)

Test Requested	Result	Analysis Date / Time	Analyst	Method
BOD (mg/L)	42.5	8-29-2024 7:47	EW	SM 5210B - 2011
Total Kjeldahl Nitrogen (mg/L)	159	9-3-2024 7:54	HS	CFR PAI-DK03
Total Suspended Solids (mg/L)	41.7	8-30-2024 7:57	JRS	SM 2540 D - 2011
pH	7.97	8-28-2024 15:37	JRS	SM 4500-H B - 2011

Comments
Foundation Analytical Lab (IDNR Lab #396, USEPA Lab #IA01138) is certified by the Iowa Department of Natural Resources for the testing of wastewater and drinking water. Upon receipt sample met requirements for analysis EXCEPT pH guidelines not met and maximum hold time exceeded (pH).

Respectfully submitted by

Brittany Erickson
Quality Manager

**** End Certificate of Analysis ****

Foundation
Analytical Laboratory

723 Sleezer Road
Cherokee, IA 51012
Phone: 712-225-6989
www.foundationanalytical.com

Certificate of Analysis

Report Date: 10-29-2024
Report Number: 24-303-0061
Lab ID Number: 24038260

Cherokee County Solid Waste Agency
1805 Linden Street
Cherokee, IA 51012

Date Submitted: 10-23-2024
Date Received: 10-23-2024
Contact: Cherokee Wastewater
Submitted By: Luke Dobson

Sample Description: Landfill Leachate Grab
Sampled: 10-23-2024 @ 9:40 by LD
Received: 10-23-2024 @ 10:00 by zw (10.8°C)

Test Requested	Result	Analysis Date / Time	Analyst	Method
BOD (mg/L)	162	10-23-2024 14:04	EW	SM 5210B - 2011
Total Kjeldahl Nitrogen (mg/L)	551	10-24-2024 7:32	JS	CFR PAI-DK03
Total Suspended Solids (mg/L)	230	10-24-2024 7:18	SW	SM 2540 D - 2011
pH	7.56	10-23-2024 13:38	AH	SM 4500-H B - 2011

Comments
Foundation Analytical Lab (IDNR Lab #396, USEPA Lab #IA01138) is certified by the Iowa Department of Natural Resources for the testing of wastewater and drinking water. Upon receipt sample met requirements for analysis EXCEPT maximum hold time exceeded (pH).

Respectfully submitted by

Molly Lundsgaard
Laboratory Administrator

**** End Certificate of Analysis ****

Foundation
Analytical Laboratory

723 Sleezer Road
Cherokee, IA 51012
Phone: 712-225-6989
www.foundationanalytical.com

Certificate of Analysis

Report Date: 11-27-2024
Report Number: 24-332-0034
Lab ID Number: 24043026

Cherokee County Solid Waste Agency
1805 Linden Street
Cherokee, IA 51012

Date Submitted: 11-21-2024
Date Received: 11-21-2024
Contact: Cherokee Wastewater
Submitted By: Luke Dobson

Sample Description: Landfill Leachate Grab
Sampled: 11-21-2024 @ 10:41 by LD
Received: 11-21-2024 @ 11:02 by zw (5.6°C)

Test Requested	Result	Analysis Date / Time	Analyst	Method
BOD (mg/L)	44	11-22-2024 11:33	LA	SM 5210B - 2011
Total Kjeldahl Nitrogen (mg/L)	316	11-26-2024 8:12	HS	CFR PAI-DK03
Total Suspended Solids (mg/L)	37	11-26-2024 8:01	JRS	SM 2540 D - 2011
pH	8.05	11-21-2024 16:55	JRS	SM 4500-H B - 2011

Comments
Foundation Analytical Lab (IDNR Lab #396, USEPA Lab #IA01138) is certified by the Iowa Department of Natural Resources for the testing of wastewater and drinking water. Upon receipt sample met requirements for analysis EXCEPT pH guidelines not met and maximum hold time exceeded (pH).

Respectfully submitted by

Brittany Erickson

Brittany Erickson
Quality Manager

**** End Certificate of Analysis ****

Foundation
Analytical Laboratory

723 Sleezer Road
Cherokee, IA 51012
Phone: 712-225-6989
www.foundationanalytical.com

Certificate of Analysis

Report Date: 12-2-2024
Report Number: 24-337-0192
Lab ID Number: 24043357

Cherokee County Solid Waste Agency
1805 Linden Street
Cherokee, IA 51012

Date Submitted: 11-25-2024
Date Received: 11-26-2024
Contact: Cherokee Wastewater
Submitted By: Luke Dobson

Sample Description: Landfill Leachate Grab
Sampled: 11-25-2024 @ 14:02 by LD
Received: 11-26-2024 @ 12:26 by SS (4.1°C)

Test Requested	Result	Analysis Date / Time	Analyst	Method
BOD (mg/L)	74.5	11-27-2024 9:17	EW	SM 5210B - 2011
Total Kjeldahl Nitrogen (mg/L)	372	12-2-2024 7:52	MM	CFR PAI-DK03
Total Suspended Solids (mg/L)	92	12-2-2024 7:26	SK	SM 2540 D - 2011
pH	7.84	11-26-2024 14:55	BC	SM 4500-H B - 2011

Comments
Foundation Analytical Lab (IDNR Lab #396, USEPA Lab #IA01138) is certified by the Iowa Department of Natural Resources for the testing of wastewater and drinking water. Upon receipt sample met requirements for analysis EXCEPT pH guidelines not met and maximum hold time exceeded (pH).

Respectfully submitted by

Molly Lundsgaard
Laboratory Administrator

**** End Certificate of Analysis ****

Foundation
Analytical Laboratory

723 Sleezer Road
Cherokee, IA 51012
Phone: 712-225-6989
www.foundationanalytical.com

Certificate of Analysis

Report Date: 12-2-2024
Report Number: 24-337-0193
Lab ID Number: 24043358

Cherokee County Solid Waste Agency
1805 Linden Street
Cherokee, IA 51012

Date Submitted: 11-25-2024
Date Received: 11-26-2024
Contact: Cherokee Wastewater
Submitted By: Luke Dobson

Sample Description: Landfill Leachate Grab
Sampled: 11-26-2024 @ 11:54 by LD
Received: 11-26-2024 @ 12:26 by SS (4.1°C)

Test Requested	Result	Analysis Date / Time	Analyst	Method
BOD (mg/L)	72.3	11-27-2024 9:21	EW	SM 5210B - 2011
Total Kjeldahl Nitrogen (mg/L)	361	12-2-2024 7:52	MM	CFR PAI-DK03
Total Suspended Solids (mg/L)	84	12-2-2024 7:26	SK	SM 2540 D - 2011
pH	7.88	11-26-2024 14:55	BC	SM 4500-H B - 2011

Comments
Foundation Analytical Lab (IDNR Lab #396, USEPA Lab #IA01138) is certified by the Iowa Department of Natural Resources for the testing of wastewater and drinking water. Upon receipt sample met requirements for analysis EXCEPT pH guidelines not met and maximum hold time exceeded (pH).

Respectfully submitted by

Molly Lundsgaard
Laboratory Administrator

**** End Certificate of Analysis ****

Appendix F

2024 Landfill Gas Annual Report

Table 13
Gas Monitoring Summary
2024 Gas Monitoring Report
Cherokee County Landfill
Permit No. 18-SDP-01-75P

Monitoring Points				Methane Results (% LEL)									
Number	Name	Type	Description	11/29/2023	S (Y/N)*	3/20/2024	S (Y/N)*	6/26/2024	S (Y/N)*	9/18/2024	S (Y/N)*	12/18/2024	S (Y/N)*
GP-1	Subsurface gas probe	Subsurface	Southwest property boundary	0%	N	0%	N	0%	N	0%	N	0%	N
GP-2	Subsurface gas probe	Subsurface	East of HHW facility	100%	N	100%	N	100%	N	100%	N	100%	N
GP-3	Subsurface gas probe	Subsurface	Near MW-1	0%	N	0%	N	0%	N	0%	N	0%	N
GP-4	Subsurface gas probe	Subsurface	Northwest of Area A	0%	N	0%	N	0%	N	0%	N	0%	N
GP-5	Subsurface gas probe	Subsurface	Near MW-22/MW-23	0%	N	0%	N	0%	N	0%	N	0%	N
GP-6	Subsurface gas probe	Subsurface	Southeast property boundary	0%	N	0%	N	0%	N	0%	N	0%	N
GP-7	Subsurface gas probe	Subsurface	South of Cell A-1, along property boundary	0%	N	0%	N	0%	N	0%	N	0%	N
GP-8	Subsurface gas probe	Subsurface	South of GP-2, near southern property boundary	0%	N	0%	N	0%	N	0%	N	0%	N
B-1	Compressor Building	Indoor	Compressor Building - west-central in property	0%		0%		0%		0%		0%	
B-2	Recycling Building	Indoor	Recycling Building - southwest property corner	0%		0%		0%		0%		0%	
B-4	HHW Building	Indoor	HHW Building - southwest property corner	0%		0%		0%		0%		0%	
B-5	Storage Building	Indoor	Storage Building - southwest property corner	0%		0%		0%		0%		0%	
B-6	Scale Pit	Indoor	Scale Pit - southwest property corner	0%		0%		0%		0%		0%	

S(Y/N)* - Was screen submerged, yes or no or blank is non-applicable

100% LEL measurements at monitoring point GP-2 were bracketed by non-detect measurements at the property boundary to the south (GP-8), southwest (GP-1), and west (GP-3) during each monitoring event.

* - The top of screens for gas monitoring probes GP-1 through GP-6 range from 5.6 to 6.7 feet below ground surface. Groundwater levels through the majority of the site are greater than ten feet, indicating the screens of the gas monitoring probes are likely not submerged. Construction forms for gas monitoring probes GP-7 and GP-8 are unavailable.

Number	Description
GP-1	Southwest property boundary
GP-2	East of HHW facility
GP-3	Near MW-1
GP-4	Northwest of Area A
GP-5	Near MW-22/MW-23
GP-6	Southeast property boundary
GP-7	South of Cell A-1, along property boundary
GP-8	South of GP-2, near southern property boundary
B-1	Compressor Building - west-central in property
B-2	Recycling Building - southwest property corner
B-4	HHW Building - southwest property corner
B-5	Storage Building - southwest property corner
B-6	Scale Pit - southwest property corner

LEGEND

- LFGW-1 METHANE MONITORING LOCATION
- MW-4C MONITORING WELL
- LFGW-1 LANDFILL GAS WELL
- LPZ-1 LEACHATE PIEZOMETER
- GV GAS VENT
- CURRENT WASTE BOUNDARY
- FUTURE WASTE BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY

300 0 300

SCALE FEET

REV.	DATE	CK BY
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-

SHEET TITLE
METHANE MONITORING NETWORK

PROJECT TITLE
CHEROKEE COUNTY SANITARY LANDFILL
2024 ANNUAL WATER QUALITY REPORT

CLIENT
CHEROKEE COUNTY SOLID WASTE COMMISSION
1805 LINDEN ST
CHEROKEE, IOWA

SCS ENGINEERS
1690 ALL STATE COURT, SUITE 100
WEST DES MOINES, IOWA 50265
(515) 631-6160

PROJ. NO.	DWN. BY:	PROJ. MGR
27223105.25	CJD	NO
DSN. BY:	CHK. BY:	
CJD	SAM	

CADD FILE: 2025 AWQR MAP.DWG

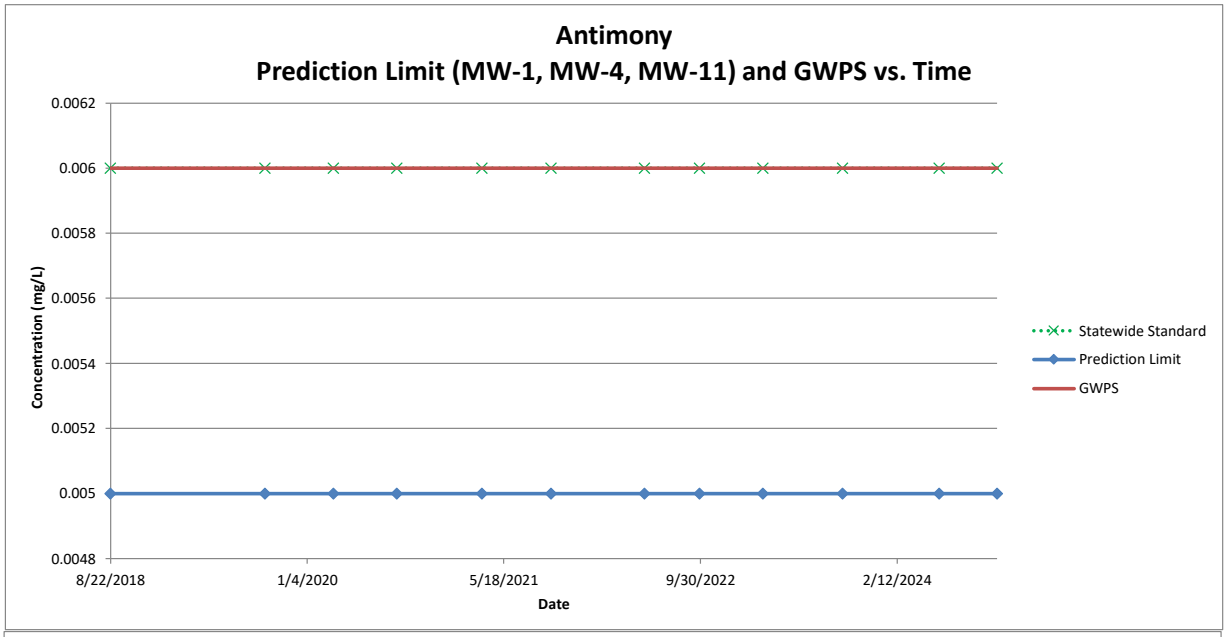
DATE: 3/7/25

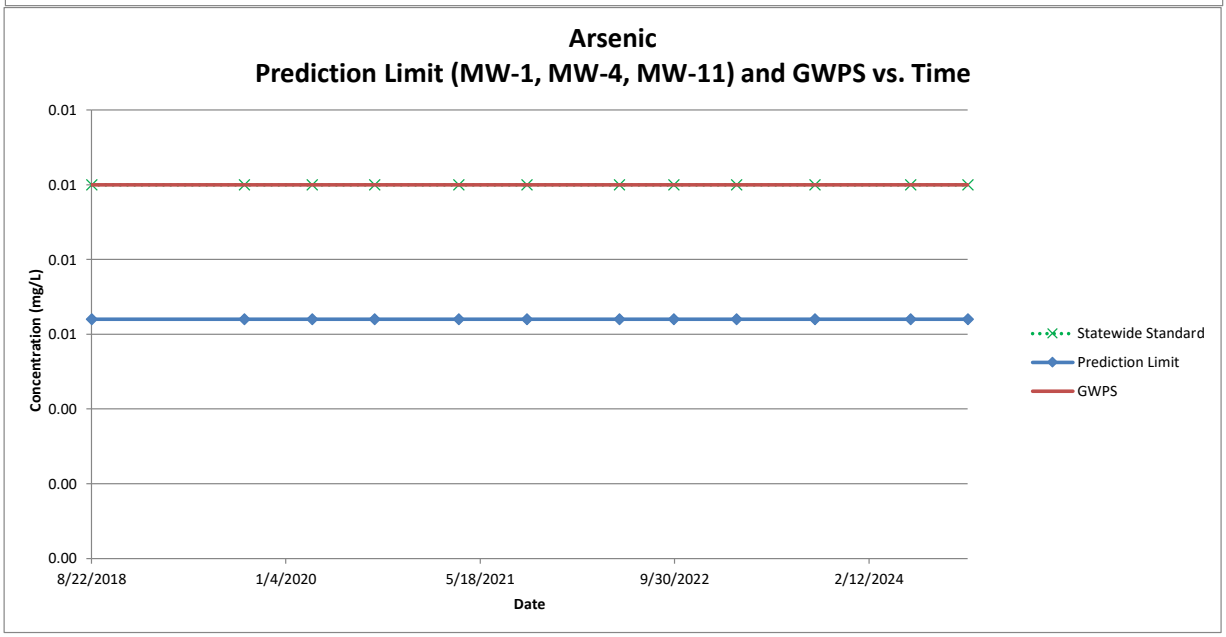
FIGURE NO. **1**

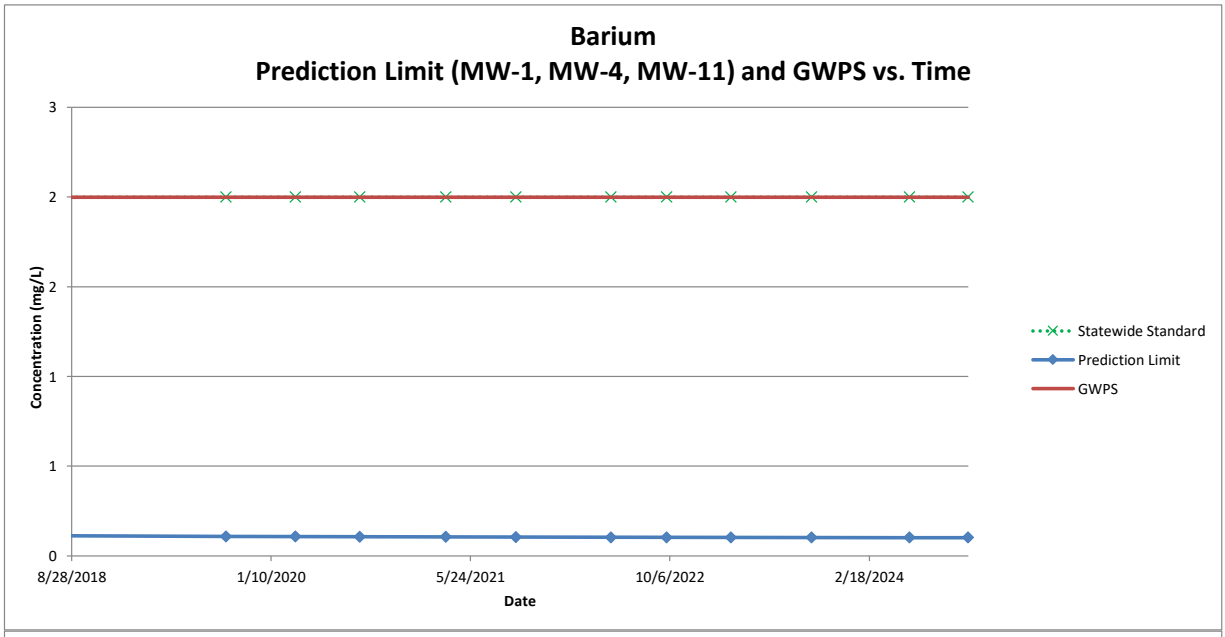
\\DES-FS01\DESMOINES\PROJECT\27223105.25\AUTOCAD\2025 AWQR MAP.DWG

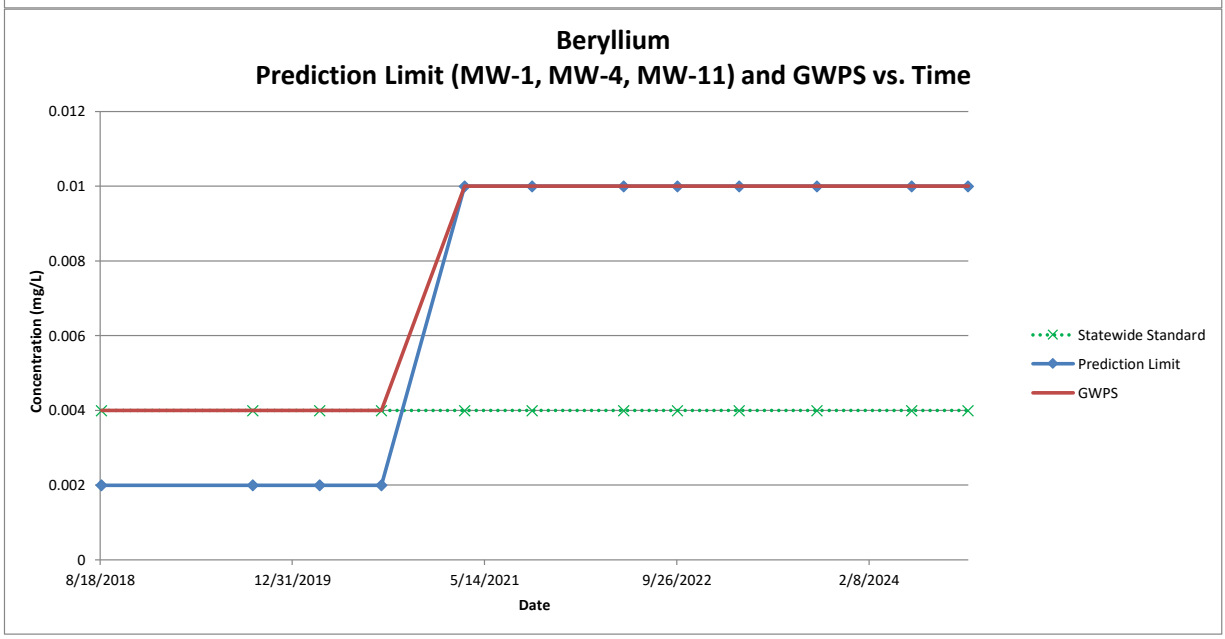
Appendix G

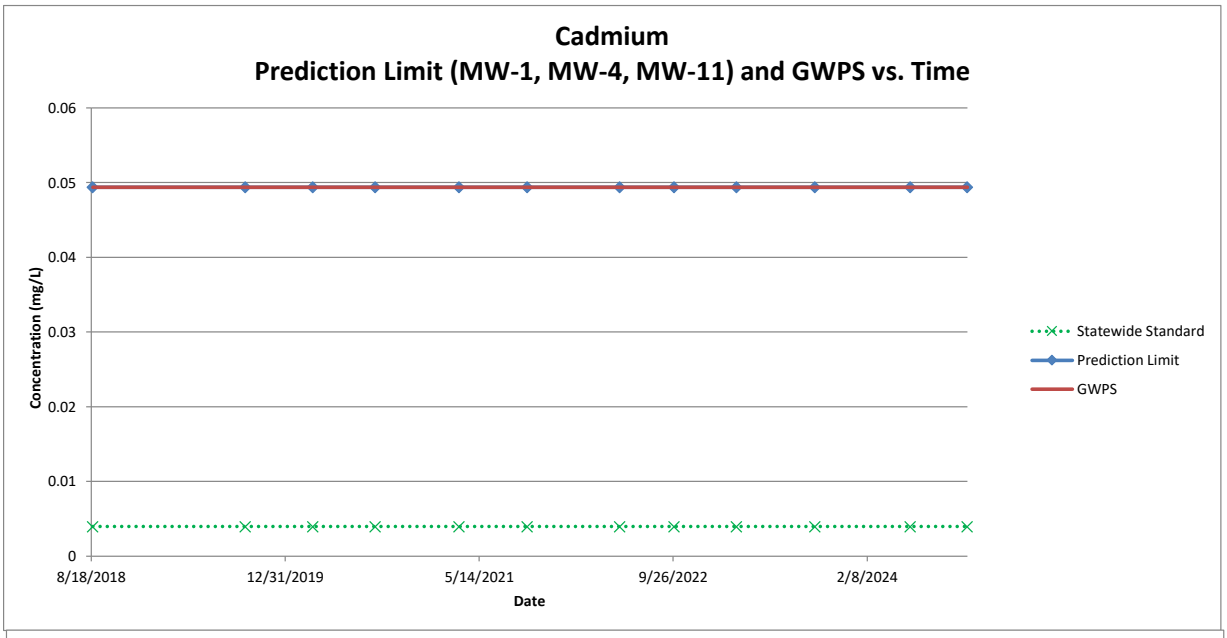
Standards History Graphs

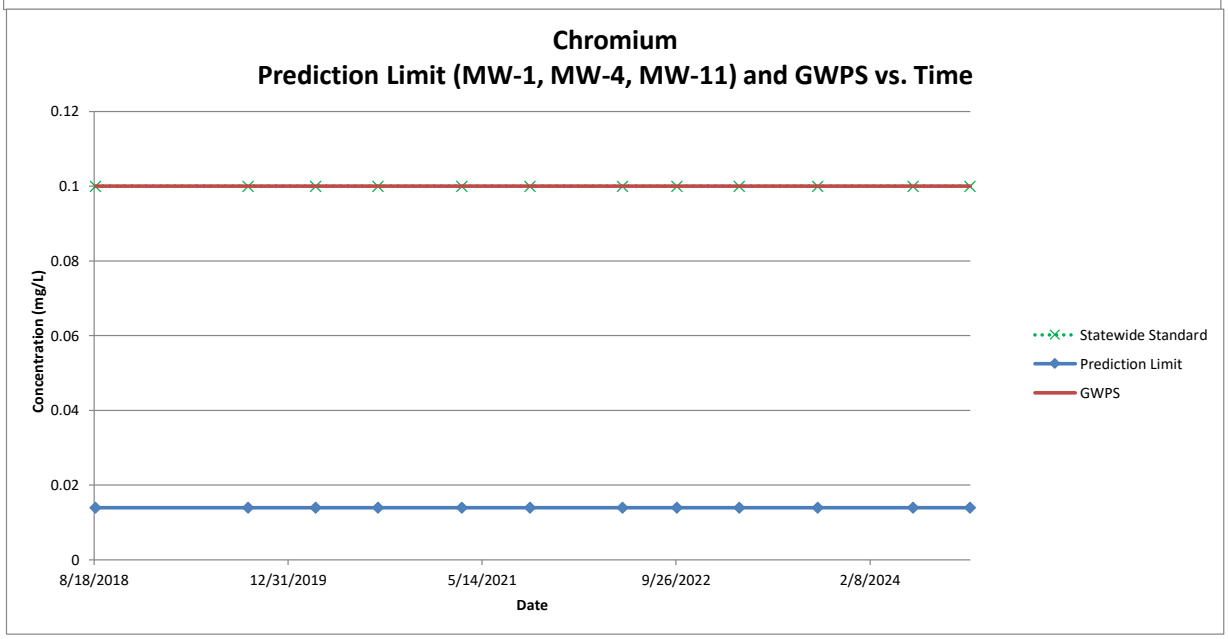

Antimony
Prediction Limit (MW-1, MW-4, MW-11) and GWPS vs. Time
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
Concentration (mg/L)
8/22/2018
1/4/2020
5/18/2021
9/30/2022
2/12/2024
Date
Statewide Standard
Prediction Limit
GWPS

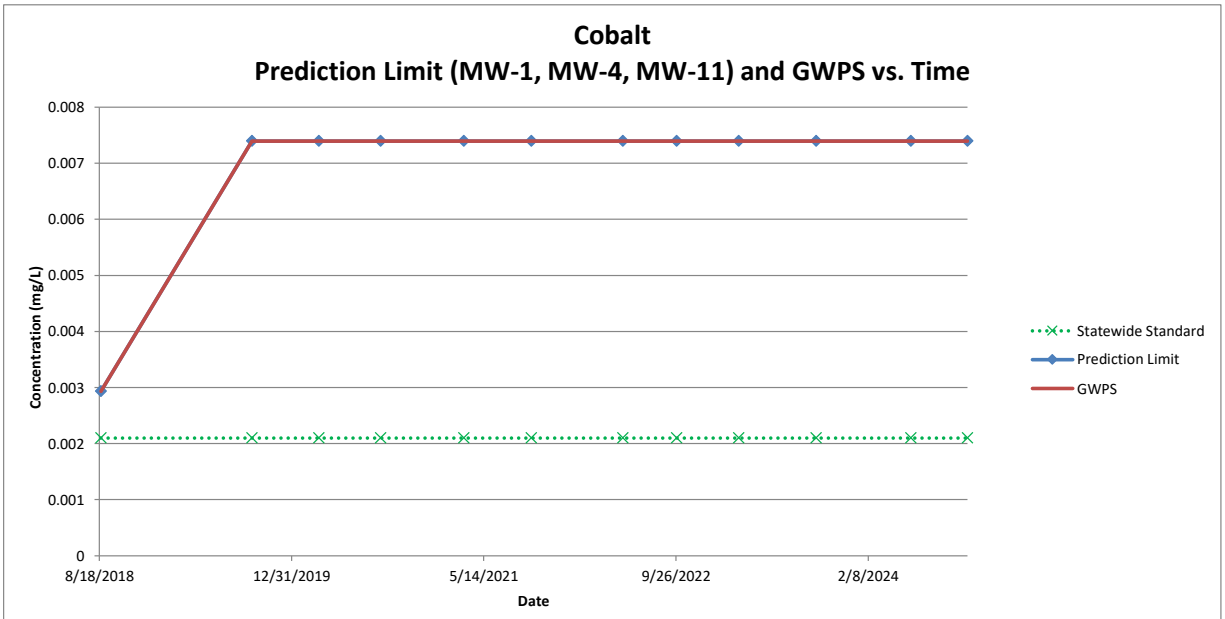

Arsenic
Prediction Limit (MW-1, MW-4, MW-11) and GWPS vs. Time
0.01
0.01
0.01
0.01
0.00
0.00
0.00
Concentration (mg/L)
8/22/2018
1/4/2020
5/18/2021
9/30/2022
2/12/2024
Date
Statewide Standard
Prediction Limit
GWPS

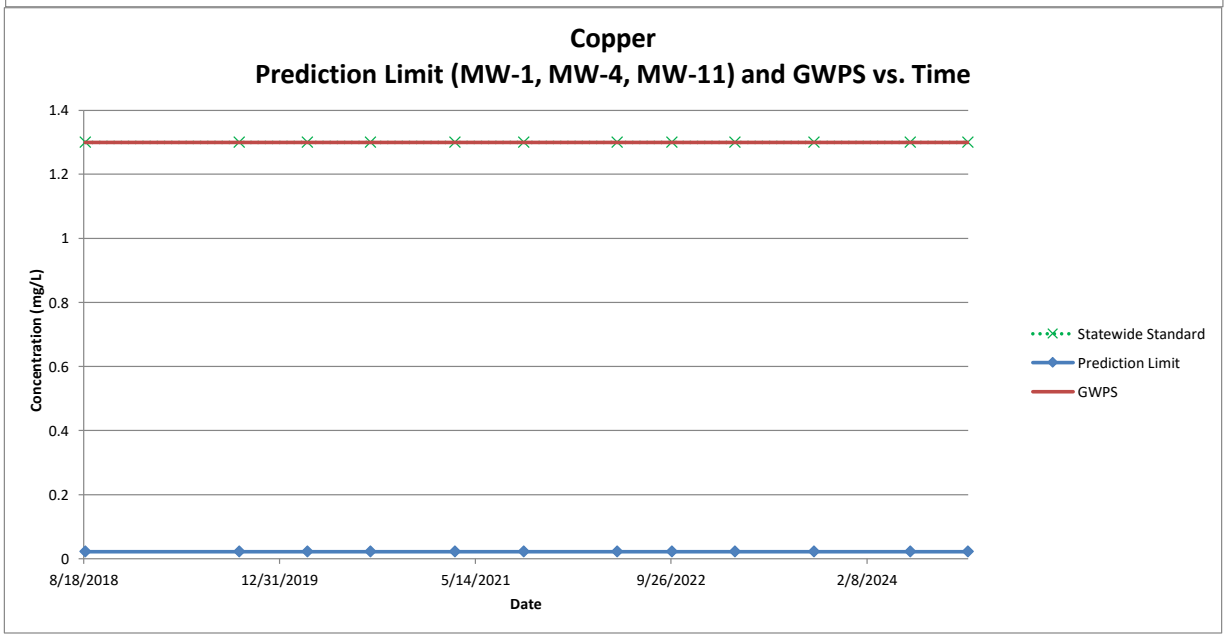

Barium
Prediction Limit (MW-1, MW-4, MW-11) and GWPS vs. Time
Concentration (mg/L)
3
2
2
1
1
0
8/28/2018
1/10/2020
5/24/2021
10/6/2022
2/18/2024
Date
Statewide Standard
Prediction Limit
GWPS

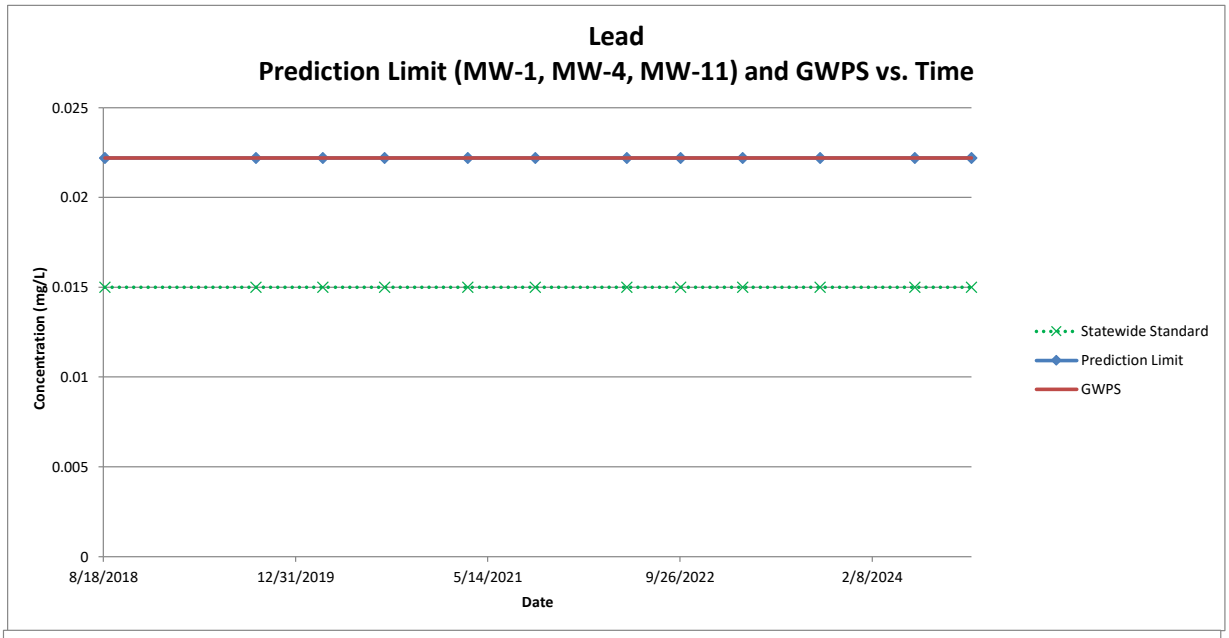

Beryllium
Prediction Limit (MW-1, MW-4, MW-11) and GWPS vs. Time
Concentration (mg/L)
0.012
0.01
0.008
0.006
0.004
0.002
0
8/18/2018
12/31/2019
5/14/2021
9/26/2022
2/8/2024
Date
Statewide Standard
Prediction Limit
GWPS

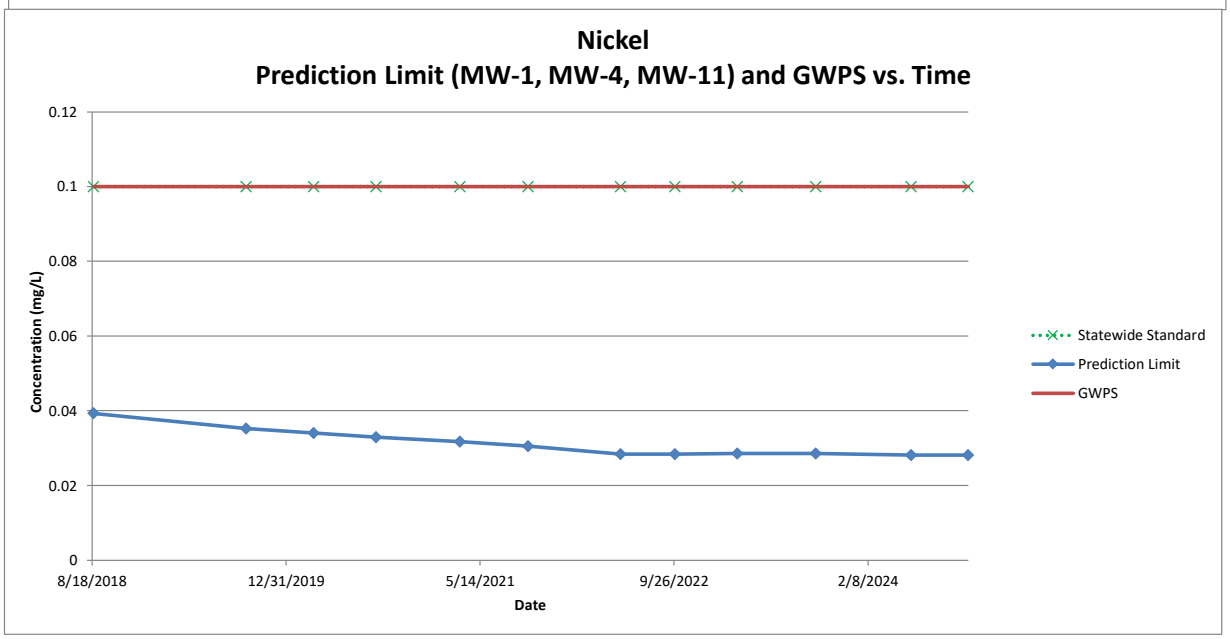

Cadmium
Prediction Limit (MW-1, MW-4, MW-11) and GWPS vs. Time
Concentration (mg/L)
0.06
0.05
0.04
0.03
0.02
0.01
0
8/18/2018
12/31/2019
5/14/2021
9/26/2022
2/8/2024
Date
Statewide Standard
Prediction Limit
GWPS

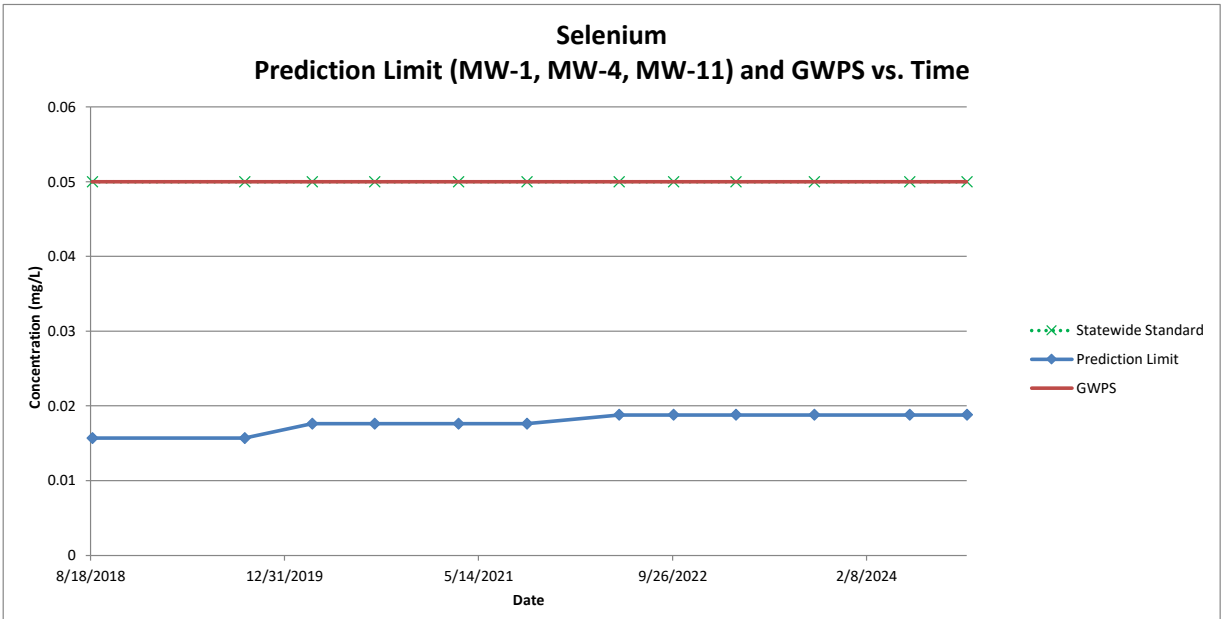

Chromium
Prediction Limit (MW-1, MW-4, MW-11) and GWPS vs. Time
Concentration (mg/L)
0.12
0.1
0.08
0.06
0.04
0.02
0
8/18/2018
12/31/2019
5/14/2021
9/26/2022
2/8/2024
Date
Statewide Standard
Prediction Limit
GWPS

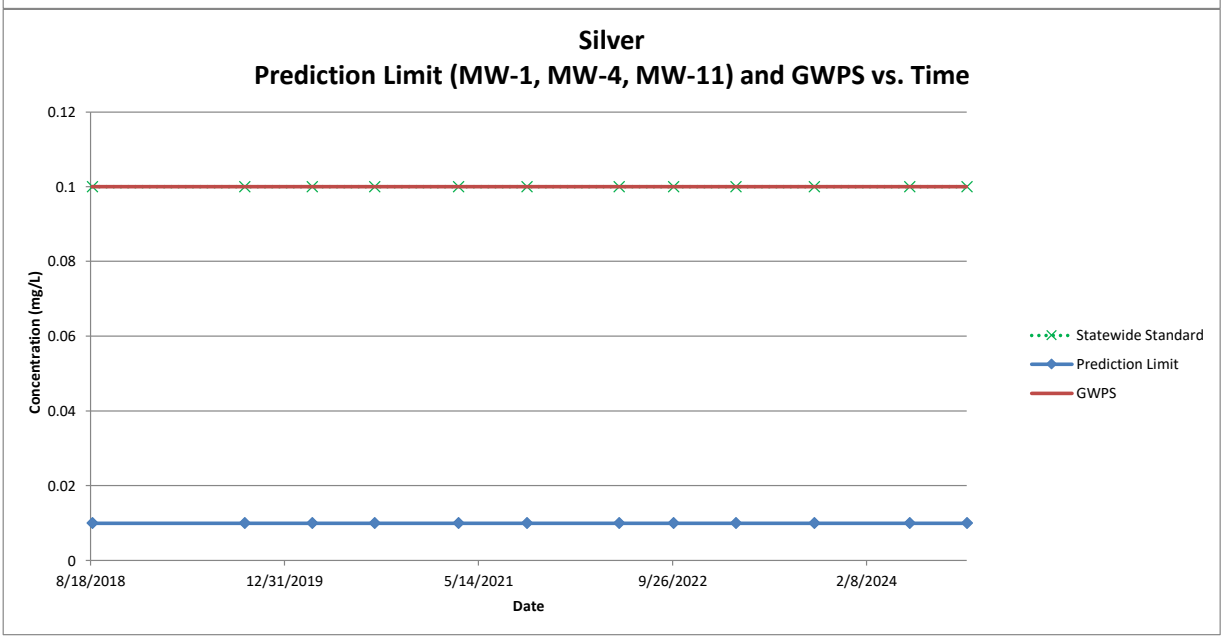

Cobalt
Prediction Limit (MW-1, MW-4, MW-11) and GWPS vs. Time
Concentration (mg/L)
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
8/18/2018
12/31/2019
5/14/2021
9/26/2022
2/8/2024
Date
Statewide Standard
Prediction Limit
GWPS

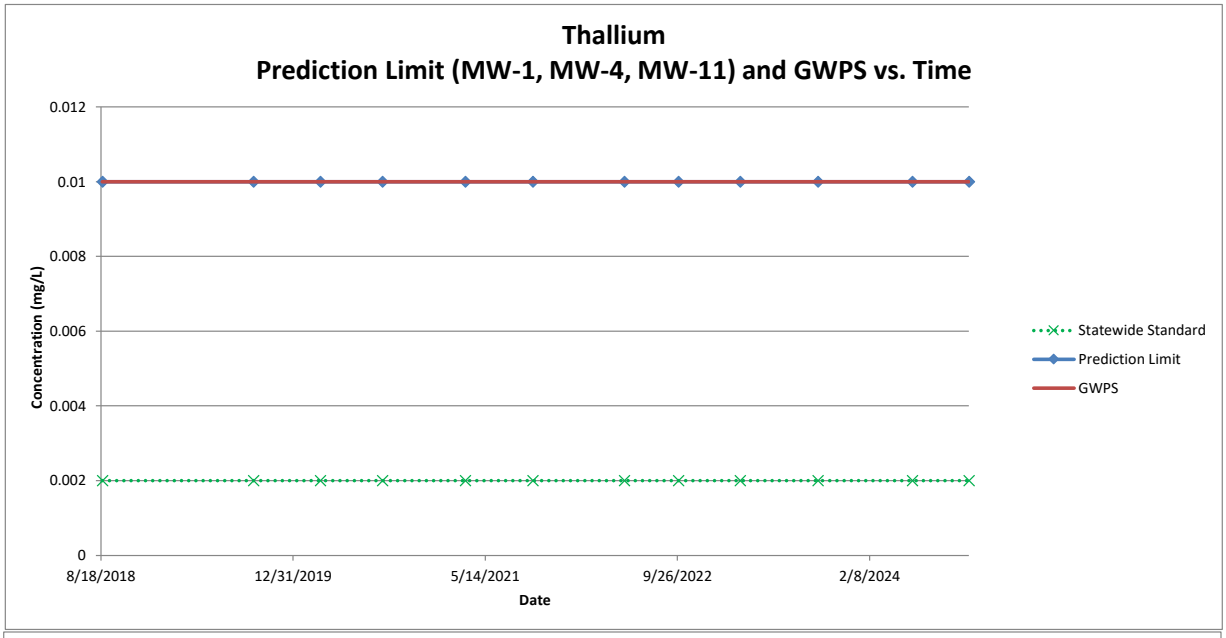

Copper
Prediction Limit (MW-1, MW-4, MW-11) and GWPS vs. Time
Concentration (mg/L)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
8/18/2018
12/31/2019
5/14/2021
9/26/2022
2/8/2024
Date
Statewide Standard
Prediction Limit
GWPS

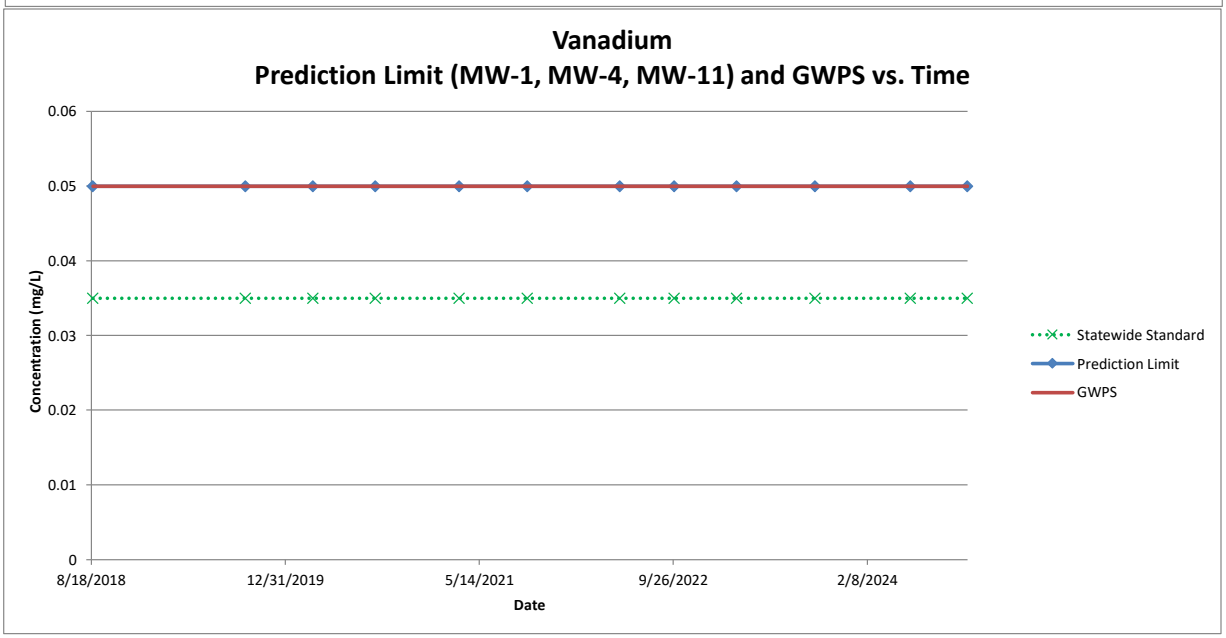

Lead
Prediction Limit (MW-1, MW-4, MW-11) and GWPS vs. Time
0.025
0.02
0.015
0.01
0.005
0
Concentration (mg/L)
8/18/2018
12/31/2019
5/14/2021
9/26/2022
2/8/2024
Date
Statewide Standard
Prediction Limit
GWPS

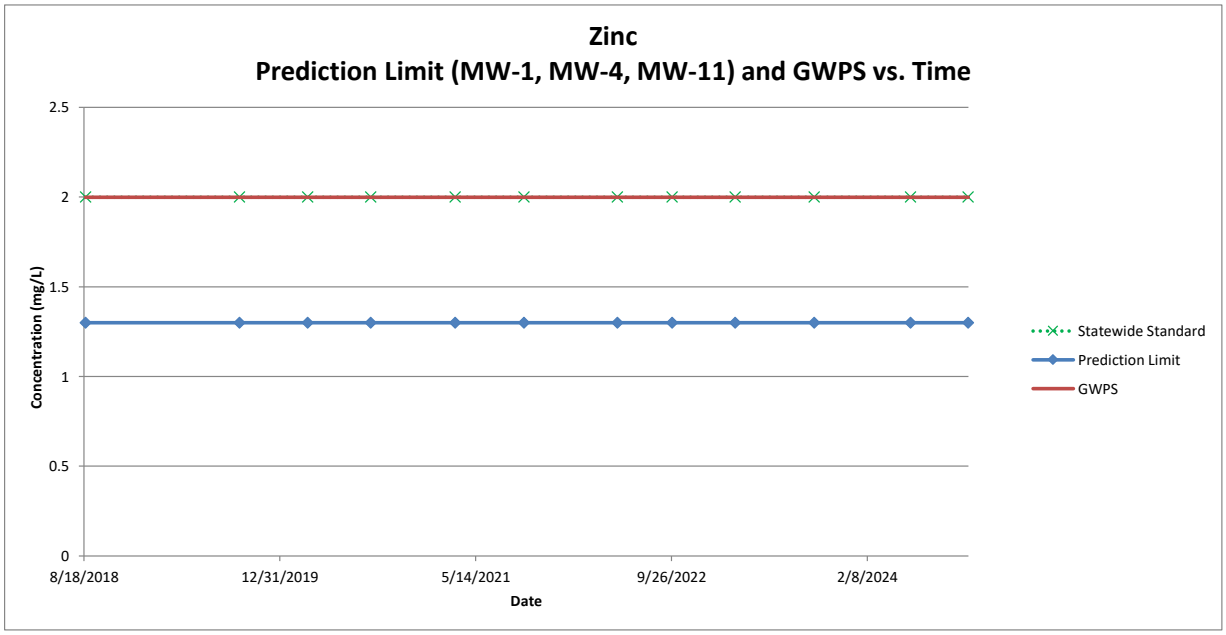

Nickel
Prediction Limit (MW-1, MW-4, MW-11) and GWPS vs. Time
0.12
0.1
0.08
0.06
0.04
0.02
0
Concentration (mg/L)
8/18/2018
12/31/2019
5/14/2021
9/26/2022
2/8/2024
Date
Statewide Standard
Prediction Limit
GWPS


Selenium
Prediction Limit (MW-1, MW-4, MW-11) and GWPS vs. Time
Concentration (mg/L)
0.06
0.05
0.04
0.03
0.02
0.01
0
8/18/2018
12/31/2019
5/14/2021
9/26/2022
2/8/2024
Date
Statewide Standard
Prediction Limit
GWPS


Silver
Prediction Limit (MW-1, MW-4, MW-11) and GWPS vs. Time
Concentration (mg/L)
0.12
0.1
0.08
0.06
0.04
0.02
0
8/18/2018
12/31/2019
5/14/2021
9/26/2022
2/8/2024
Date
Statewide Standard
Prediction Limit
GWPS


Thallium
Prediction Limit (MW-1, MW-4, MW-11) and GWPS vs. Time
0.012
0.01
0.008
0.006
0.004
0.002
0
Concentration (mg/L)
8/18/2018
12/31/2019
5/14/2021
9/26/2022
2/8/2024
Date
Statewide Standard
Prediction Limit
GWPS


Vanadium
Prediction Limit (MW-1, MW-4, MW-11) and GWPS vs. Time
0.06
0.05
0.04
0.03
0.02
0.01
0
Concentration (mg/L)
8/18/2018
12/31/2019
5/14/2021
9/26/2022
2/8/2024
Date
Statewide Standard
Prediction Limit
GWPS


Zinc
Prediction Limit (MW-1, MW-4, MW-11) and GWPS vs. Time
Concentration (mg/L)
2.5
2
1.5
1
0.5
0
8/18/2018
12/31/2019
5/14/2021
9/26/2022
2/8/2024
Date
Statewide Standard
Prediction Limit
GWPS

Appendix H

Mann-Kendall Trend Test Summary Table and Graphs – Source Wells

Source Wells Trend Test

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-SOURCE-2024AWQR-AM Printed 2/28/2025, 5:46 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
1,1-Dichloroethane (ug/L)	MW-14R	-0.2436	-12	-21	No	8	12.5	0.01	NP
1,4-Dichlorobenzene (ug/L)	MW-15R	0.4563	17	21	No	8	25	0.01	NP
1,4-Dichlorobenzene (ug/L)	MW-39	0.9539	7	21	No	8	12.5	0.01	NP
Acetone (ug/L)	MW-39	0	0	21	No	8	50	0.01	NP
Arsenic (mg/L)	MW-15R	0.001434	0	21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-39	0.0006633	8	21	No	8	0	0.01	NP
Barium (mg/L)	MW-14R	0.002124	2	21	No	8	0	0.01	NP
Barium (mg/L)	MW-15R	-0.00965	-4	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-39	-0.2141	-6	-21	No	8	0	0.01	NP
Benzene (ug/L)	MW-14R	0.004601	1	21	No	8	25	0.01	NP
Benzene (ug/L)	MW-15R	0.2312	14	21	No	8	12.5	0.01	NP
Benzene (ug/L)	MW-39	-0.1169	-8	-21	No	8	0	0.01	NP
Cadmium (mg/L)	MW-14R	-0.000005396	-6	-21	No	8	25	0.01	NP
Cadmium (mg/L)	MW-15R	-0.00003762	-7	-21	No	8	37.5	0.01	NP
Carbon Disulfide (ug/L)	MW-39	0	-1	-21	No	8	75	0.01	NP
Chlorobenzene (ug/L)	MW-15R	0.4937	12	21	No	8	0	0.01	NP
Chlorobenzene (ug/L)	MW-39	-0.07903	0	21	No	8	0	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-14R	-0.06112	-11	-21	No	8	25	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-39	-0.1874	-16	-21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-14R	-0.001656	-8	-21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-15R	-0.002403	-10	-21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-39	-0.004083	-14	-21	No	8	0	0.01	NP
Lead (mg/L)	MW-15R	-0.000008369	-6	-21	No	8	50	0.01	NP
Lead (mg/L)	MW-39	0.0000226	2	21	No	8	12.5	0.01	NP
Nickel (mg/L)	MW-14R	-0.004176	-14	-21	No	8	0	0.01	NP
Nickel (mg/L)	MW-15R	-0.007529	-17	-21	No	8	0	0.01	NP
Nickel (mg/L)	MW-39	-0.006188	-16	-21	No	8	0	0.01	NP
Thallium (mg/L)	MW-14R	0	3	21	No	8	87.5	0.01	NP
Vinyl Chloride (ug/L)	MW-15R	0	9	21	No	8	75	0.01	NP
Vinyl Chloride (ug/L)	MW-39	-0.929	-15	-21	No	8	25	0.01	NP

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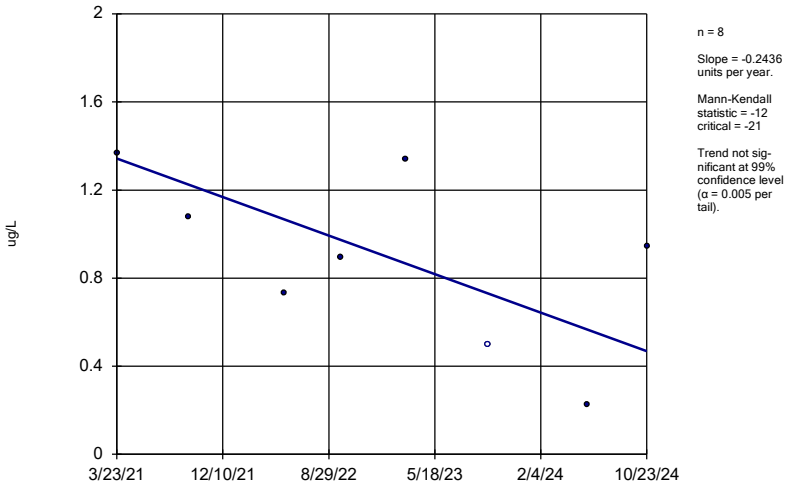
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-14R

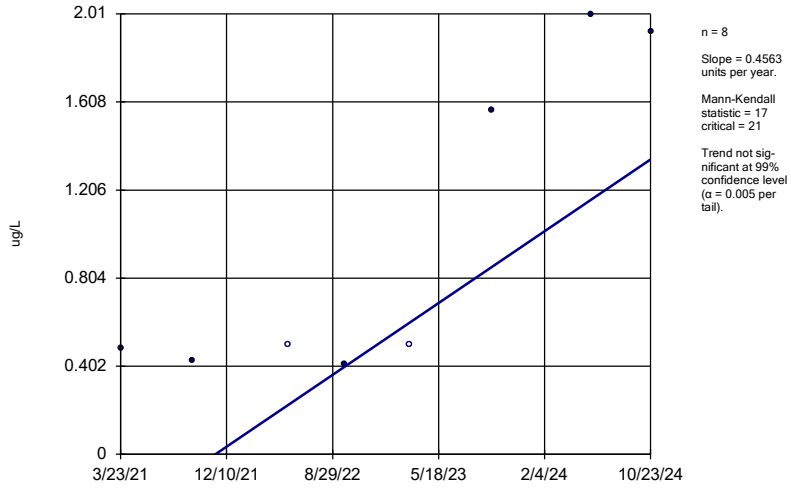


Constituent: 1,1-Dichloroethane Analysis Run 2/28/2025 5:42 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-SOURCE-2024AWQR-AM

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-15R



Constituent: 1,4-Dichlorobenzene Analysis Run 2/28/2025 5:42 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-SOURCE-2024AWQR-AM

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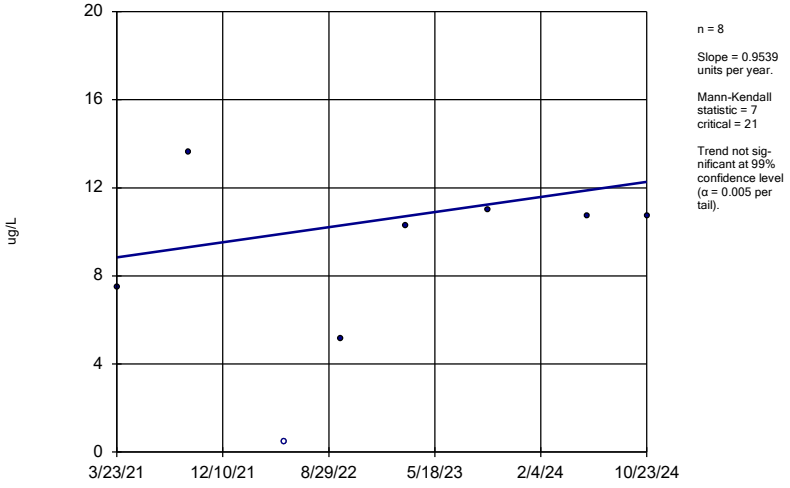
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-39



Constituent: 1,4-Dichlorobenzene Analysis Run 2/28/2025 5:42 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-SOURCE-2024AWQR-AM

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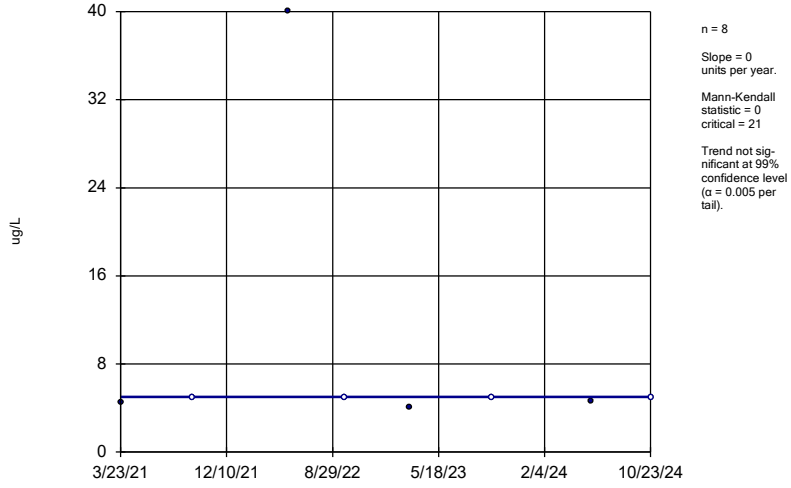
Hollow symbols indicate censored values.

Sen's Slope Estimator

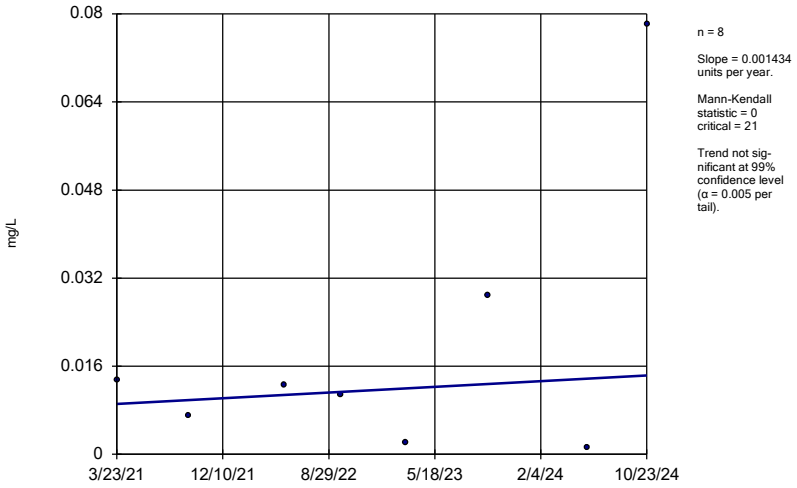
MW-39



Constituent: Acetone Analysis Run 2/28/2025 5:42 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-SOURCE-2024AWQR-AM

Sen's Slope Estimator

MW-15R



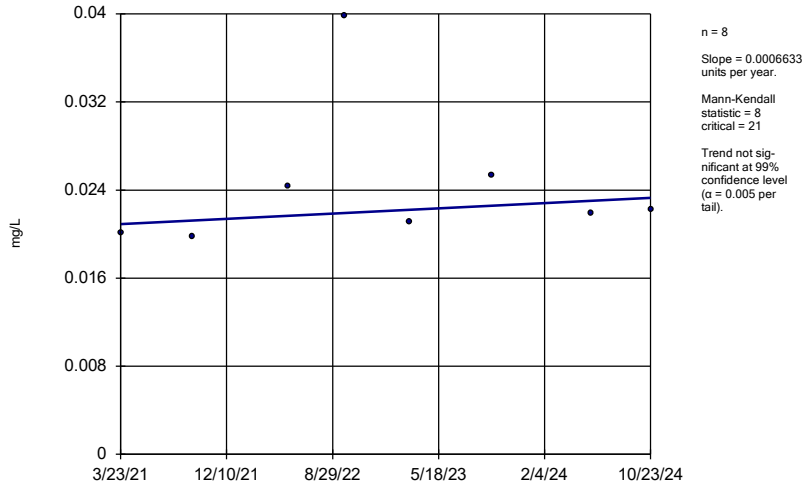
Constituent: Arsenic Analysis Run 2/28/2025 5:42 PM View: 2024AWQR-Mann_Kendall

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-SOURCE-2024AWQR-AM

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-39



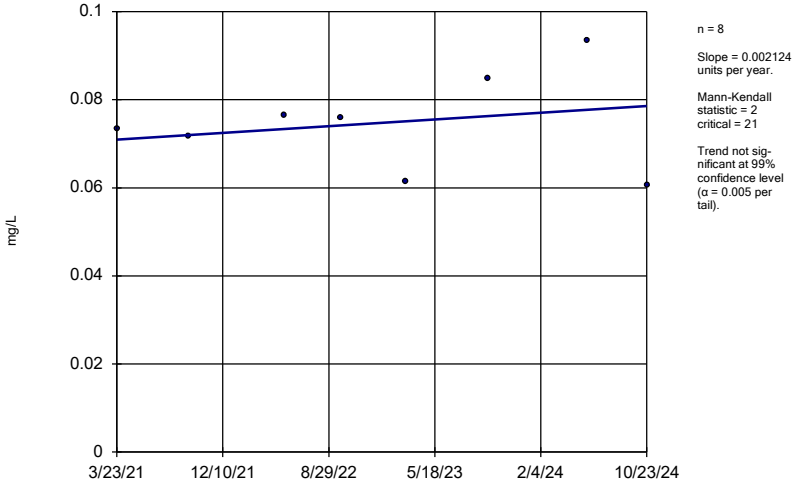
Constituent: Arsenic Analysis Run 2/28/2025 5:42 PM View: 2024AWQR-Mann_Kendall

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-SOURCE-2024AWQR-AM

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-14R



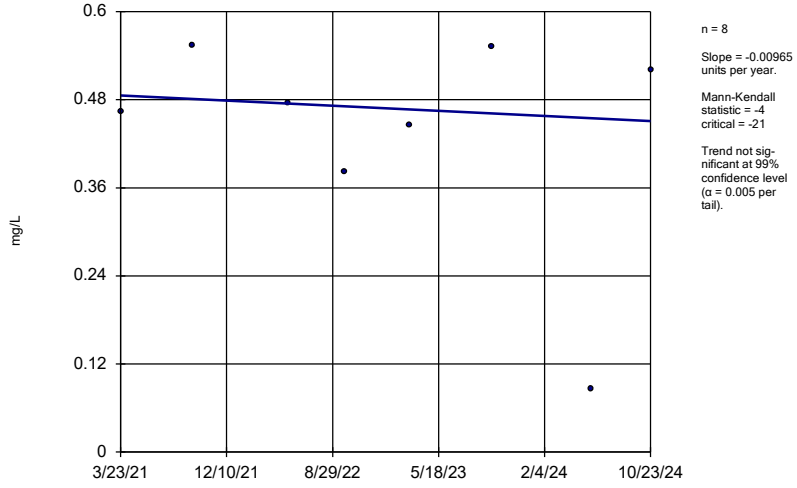
Constituent: Barium Analysis Run 2/28/2025 5:42 PM View: 2024AWQR-Mann_Kendall

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-SOURCE-2024AWQR-AM

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-15R



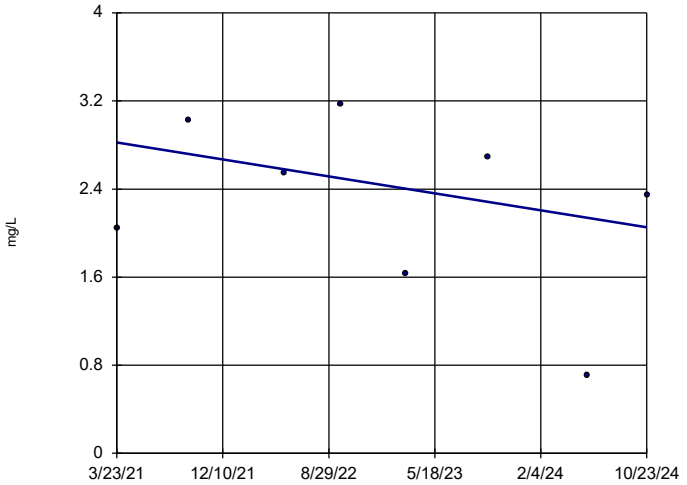
Constituent: Barium Analysis Run 2/28/2025 5:42 PM View: 2024AWQR-Mann_Kendall

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-SOURCE-2024AWQR-AM

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-39



n = 8

Slope = -0.2141 units per year.

Mann-Kendall statistic = -6
critical = -21

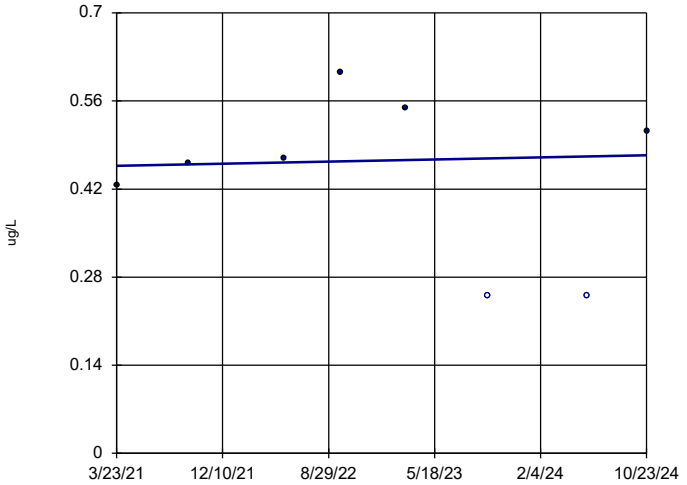
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 2/28/2025 5:42 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-SOURCE-2024AWQR-AM

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-14R



n = 8

Slope = 0.004601 units per year.

Mann-Kendall statistic = 1
critical = 21

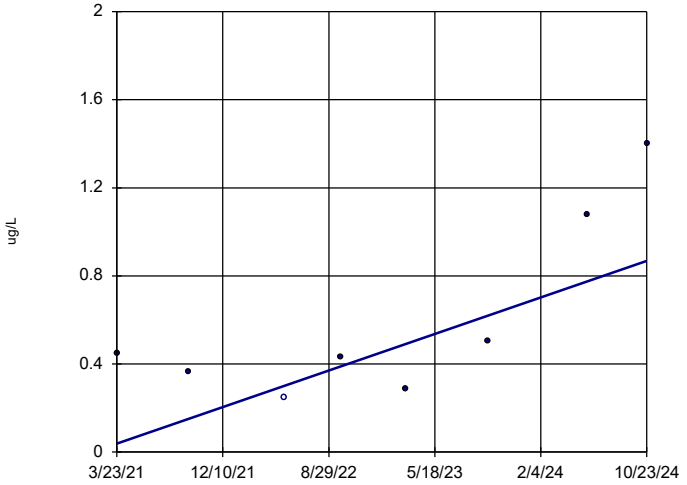
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Benzene Analysis Run 2/28/2025 5:42 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-SOURCE-2024AWQR-AM

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-15R



n = 8

Slope = 0.2312 units per year.

Mann-Kendall statistic = 14
critical = 21

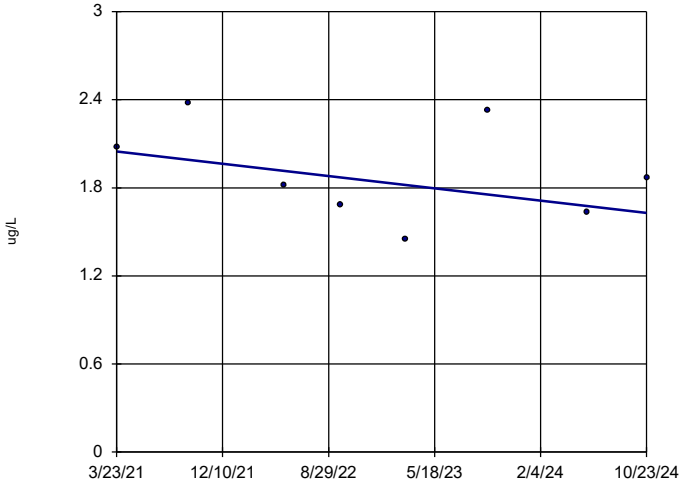
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Benzene Analysis Run 2/28/2025 5:42 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-SOURCE-2024AWQR-AM

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-39



n = 8

Slope = -0.1169 units per year.

Mann-Kendall statistic = -8
critical = -21

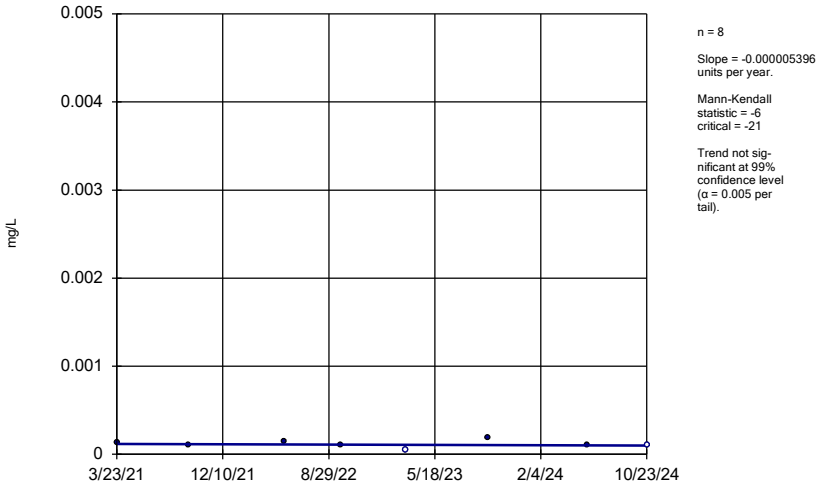
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Benzene Analysis Run 2/28/2025 5:43 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-SOURCE-2024AWQR-AM

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-14R

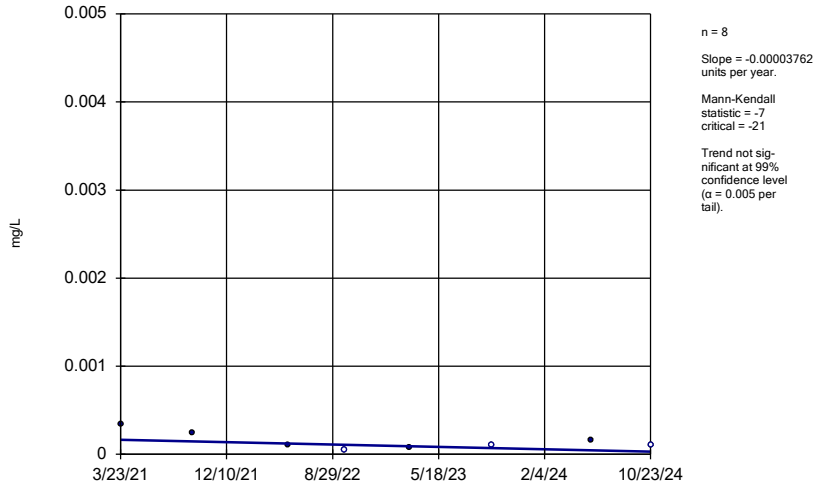


Constituent: Cadmium Analysis Run 2/28/2025 5:43 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-SOURCE-2024AWQR-AM

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-15R

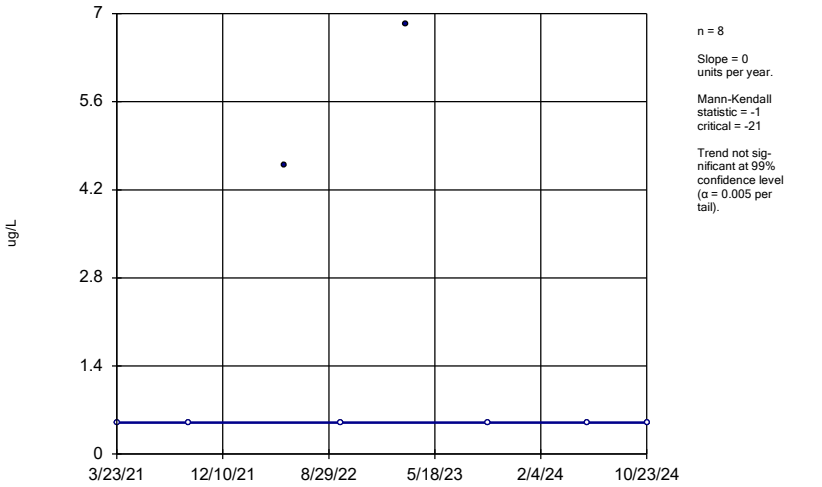


Constituent: Cadmium Analysis Run 2/28/2025 5:43 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-SOURCE-2024AWQR-AM

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-39

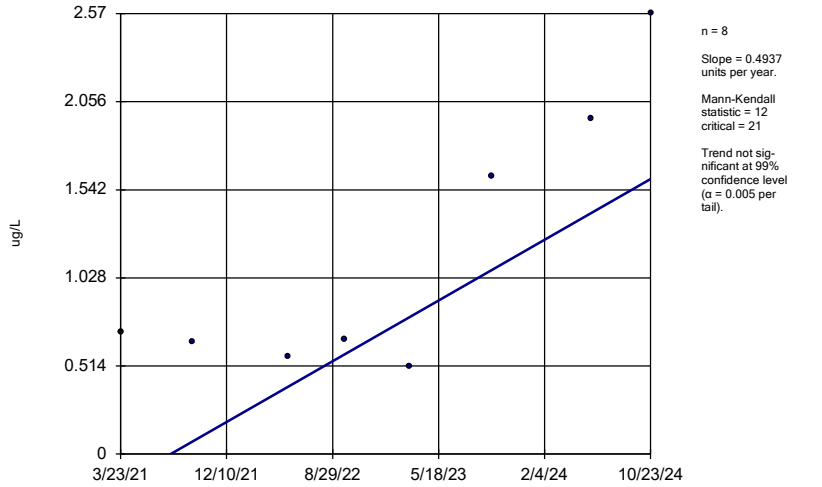


Constituent: Carbon Disulfide Analysis Run 2/28/2025 5:43 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-SOURCE-2024AWQR-AM

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

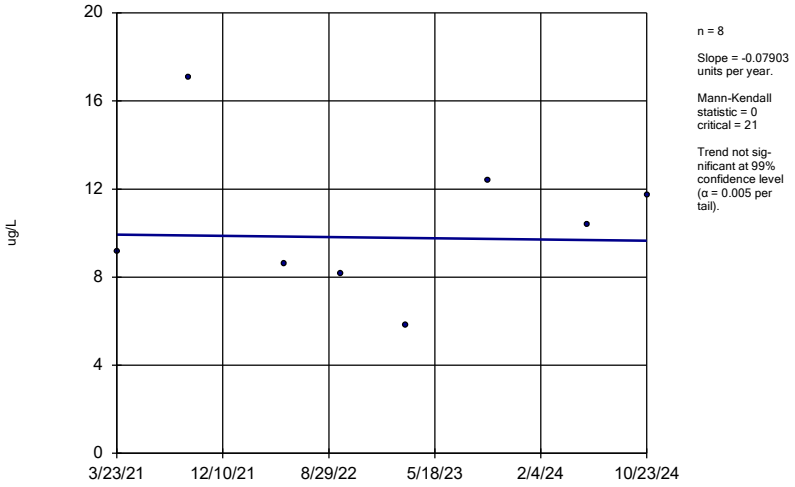
MW-15R



Constituent: Chlorobenzene Analysis Run 2/28/2025 5:43 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-SOURCE-2024AWQR-AM

Sen's Slope Estimator

MW-39



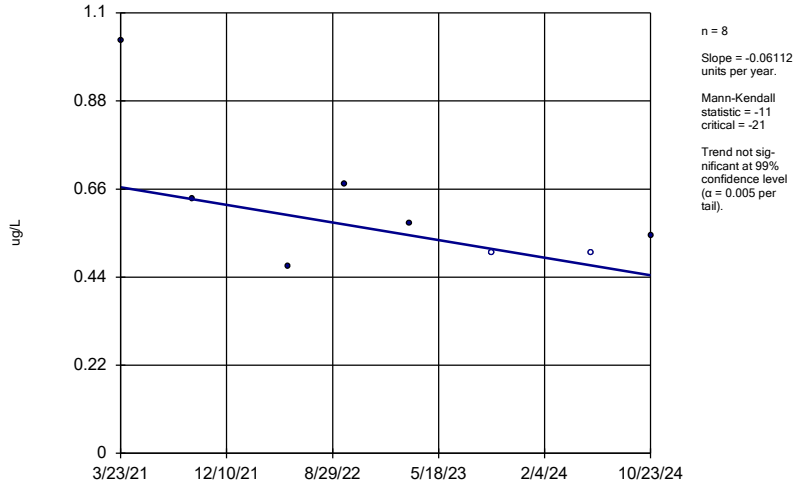
Constituent: Chlorobenzene Analysis Run 2/28/2025 5:43 PM View: 2024AWQR-Mann_Kendall

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-SOURCE-2024AWQR-AM

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-14R

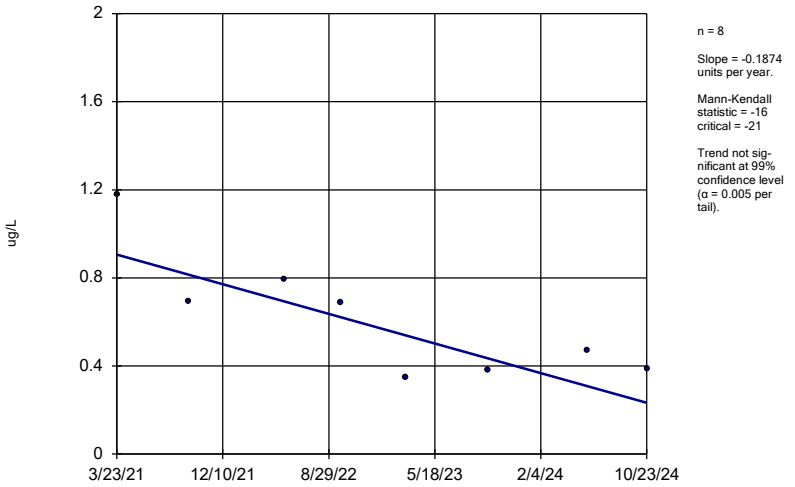


Constituent: cis-1,2-Dichloroethene Analysis Run 2/28/2025 5:43 PM View: 2024AWQR-Mann_Kendall

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-SOURCE-2024AWQR-AM

Sen's Slope Estimator

MW-39



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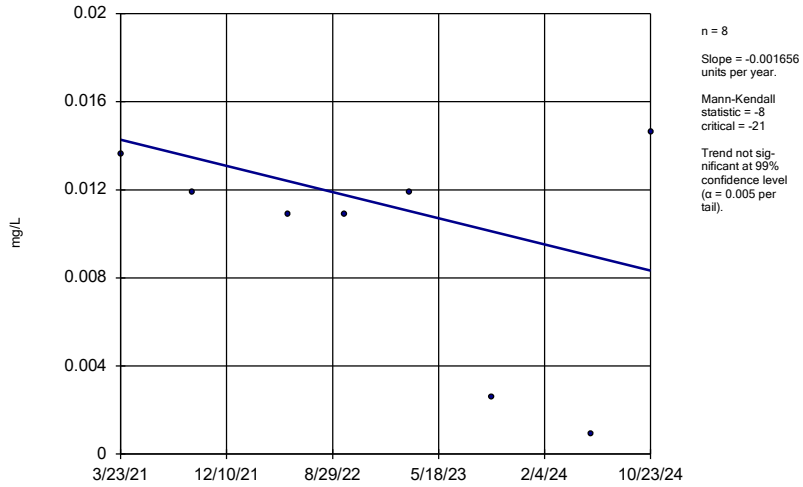
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-SOURCE-2024AWQR-AM

Sen's Slope Estimator

MW-14R

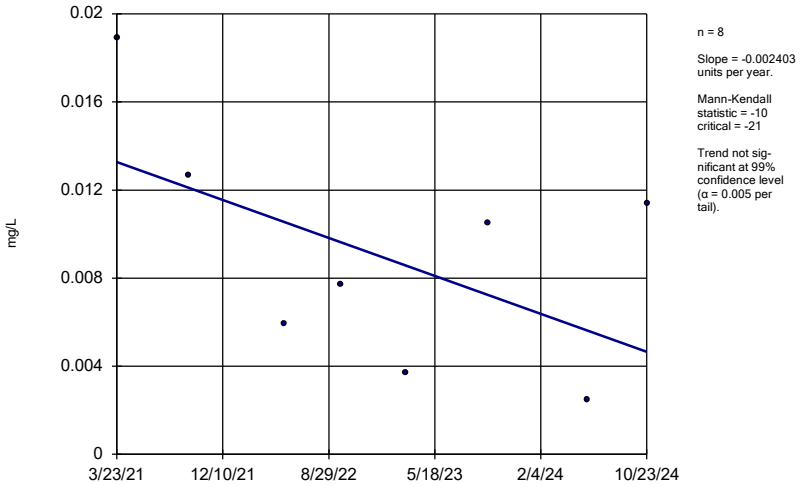


Constituent: Cobalt Analysis Run 2/28/2025 5:43 PM View: 2024AWQR-Mann_Kendall

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-SOURCE-2024AWQR-AM

Sen's Slope Estimator

MW-15R

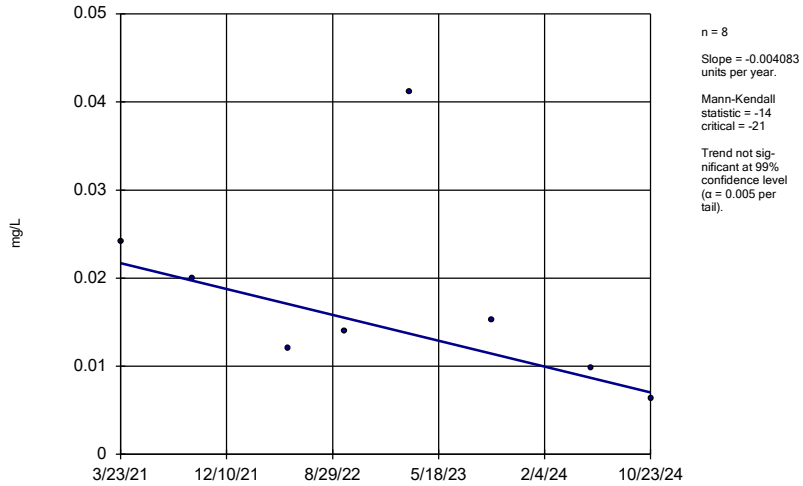


Constituent: Cobalt Analysis Run 2/28/2025 5:43 PM View: 2024AWQR-Mann_Kendall

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-SOURCE-2024AWQR-AM

Sen's Slope Estimator

MW-39



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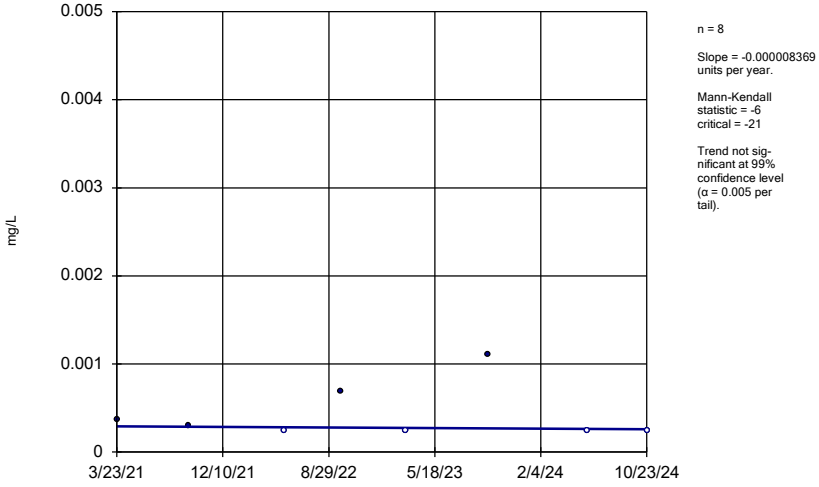
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-SOURCE-2024AWQR-AM

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-15R



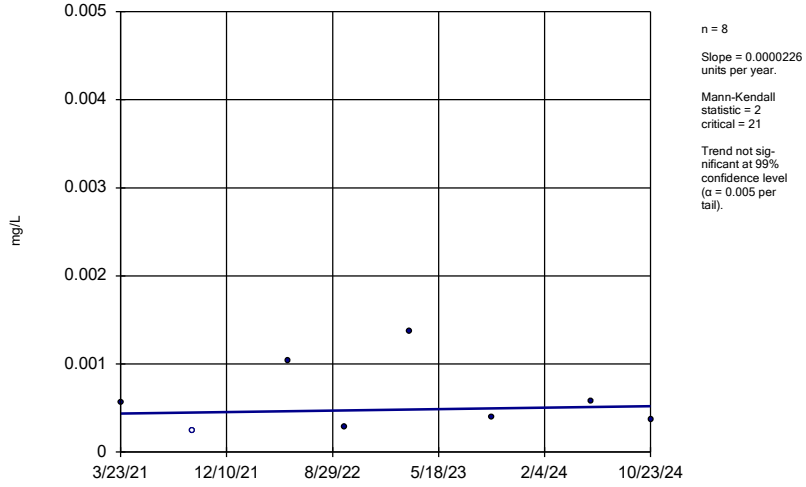
Constituent: Lead Analysis Run 2/28/2025 5:43 PM View: 2024AWQR-Mann_Kendall

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-SOURCE-2024AWQR-AM

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-39

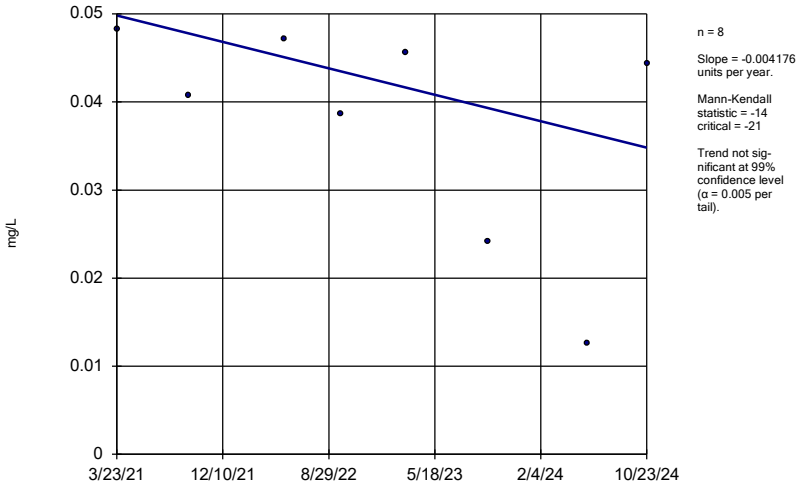


Constituent: Lead Analysis Run 2/28/2025 5:43 PM View: 2024AWQR-Mann_Kendall

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-SOURCE-2024AWQR-AM

Sen's Slope Estimator

MW-14R



Constituent: Nickel Analysis Run 2/28/2025 5:43 PM View: 2024AWQR-Mann_Kendall

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-SOURCE-2024AWQR-AM

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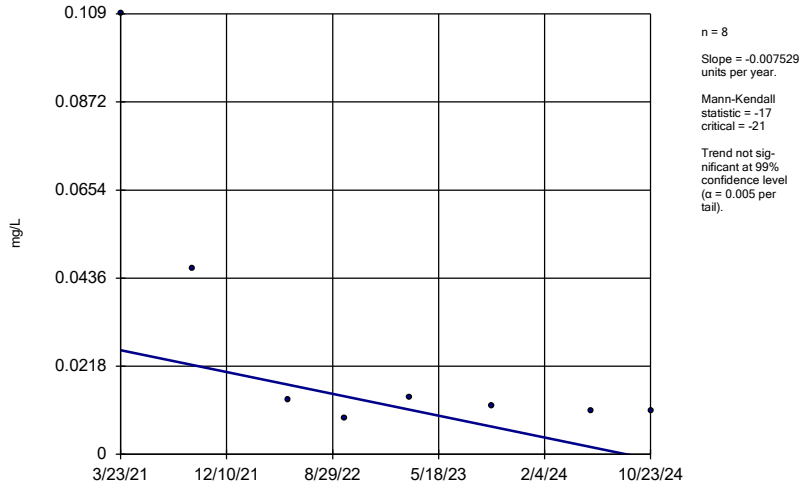
Sen's Slope Estimator

MW-15R



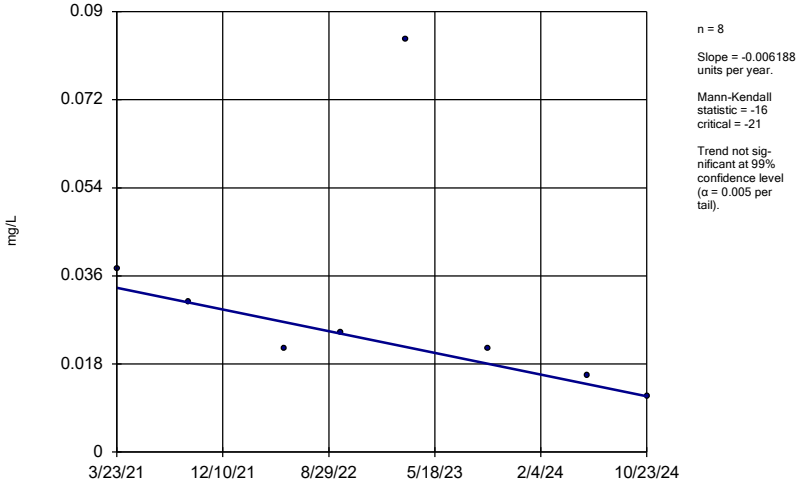
Constituent: Nickel Analysis Run 2/28/2025 5:43 PM View: 2024AWQR-Mann_Kendall

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-SOURCE-2024AWQR-AM

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-39



Constituent: Nickel Analysis Run 2/28/2025 5:43 PM View: 2024AWQR-Mann_Kendall

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-SOURCE-2024AWQR-AM

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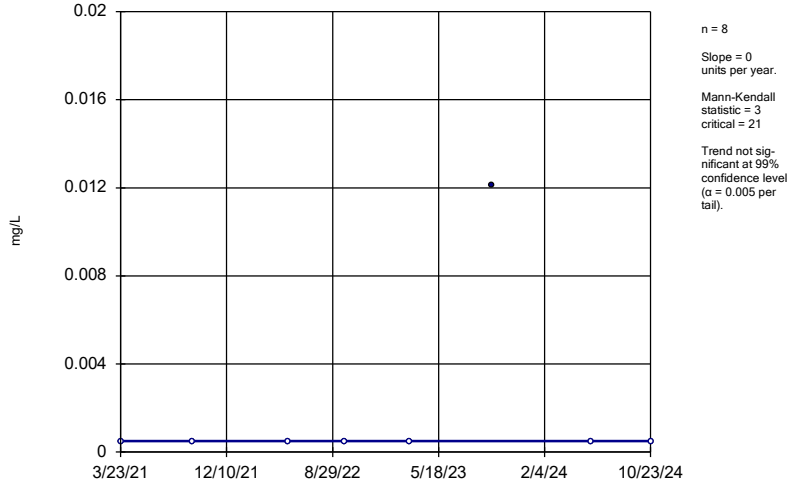
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-14R



Constituent: Thallium Analysis Run 2/28/2025 5:43 PM View: 2024AWQR-Mann_Kendall

Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-SOURCE-2024AWQR-AM

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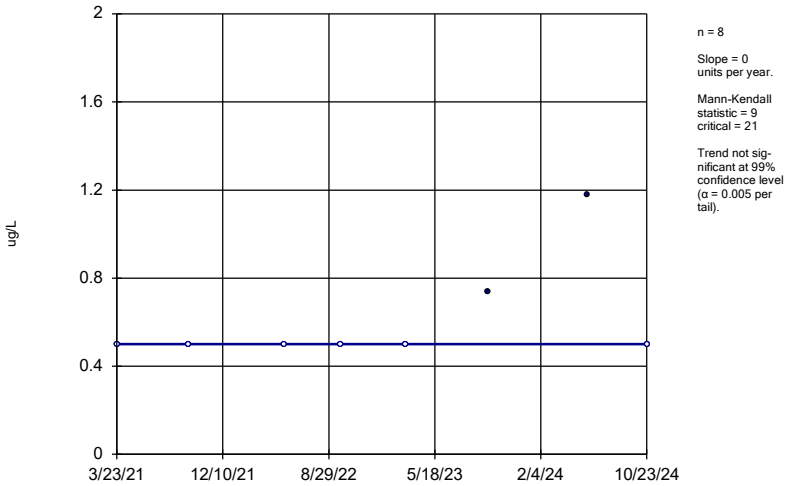
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-15R



Constituent: Vinyl Chloride Analysis Run 2/28/2025 5:43 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-SOURCE-2024AWQR-AM

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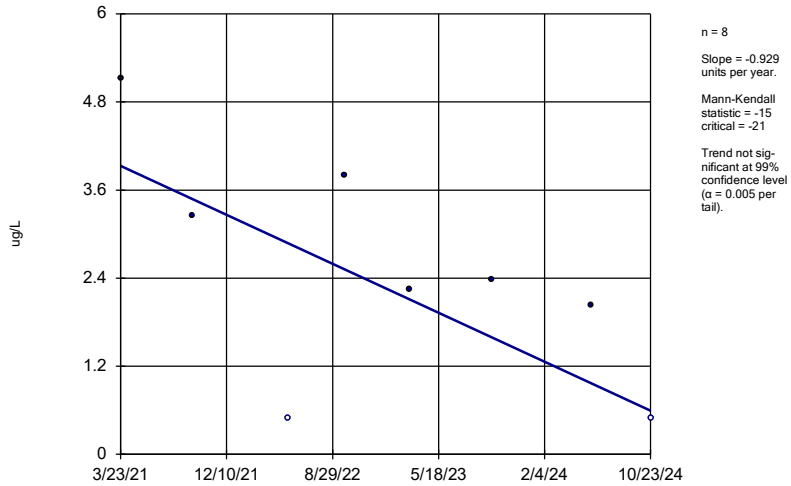
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-39



Constituent: Vinyl Chloride Analysis Run 2/28/2025 5:43 PM View: 2024AWQR-Mann_Kendall
Cherokee County Sanitary Landfill Client: SCS Engineers Data: CHRKE C-SOURCE-2024AWQR-AM