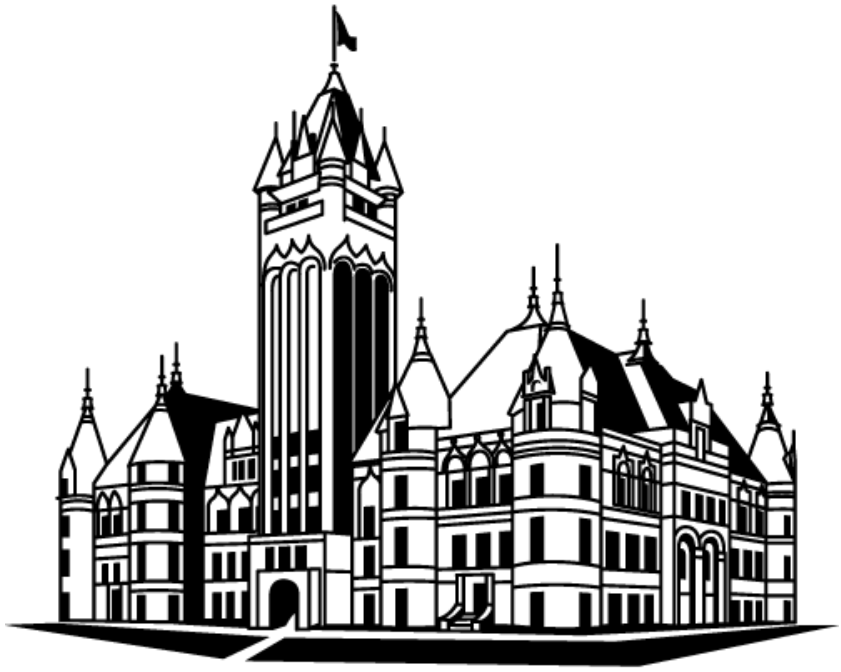
MICA LANDFILL
SEMI-ANNUAL PERFORMANCE REPORT
March 2024



Spokane County

WASHINGTON

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1 INTRODUCTION

1.1 MICA LANDFILL INFORMATION SUMMARY

SITE:	Mica Landfill, Spokane County, WA S.11, 14 & 15 T.24 R.44
REPORTING PERIOD:	October 2023 through March 2024.
REGULATORY AUTHORITY:	Washington State Department of Ecology, EPA Scope of work for Remedial Action as stated in the Final Cleanup Action Plan (CAP) 2002.
TECHNOLOGY:	Impermeable cover system with passive landfill gas collection and flare stations. Leachate collection system conveying leachate to local sewer for treatment and disposal.
CRITERIA:	Criteria were established as stated in the Consent Decree and outlined in the Final CAP. See Table 1-1.
SAMPLING PROGRAMS:	Compliance Monitoring Program: Semi-annual groundwater sampling (leachate sampling/permit discontinued) completed in accordance with Final Cleanup Action Plan (CAP) and the SAP. Since monitoring well MW-16 is still sampled on a quarterly basis; December 2023 results are included in this report. See Figure 1-1 for site locations. See Table 1-2 for well designations, and Table 1-3 for the sampling schedule.

Table 1-1 Mica Landfill Summary of Indicator Analytes and Cleanup Levels

GROUNDWATER / *LEACHATE			
Indicator Analyte	**Method B Cleanup Level, ug/L**	**Indicator Analyte**	**Method B Cleanup Level, ug/L**
Conventionals		**Volatile Organic Compounds**	
Alkalinity	N	1,2-Dichloroethane	1.2
Ammonia	272,000	1,2-Dichloropropane	0.643
Chloride	N	Acetone	688
N-Nitrate	800	Benzene	0.795
Sulfate	N	cis-1,2-Dichloroethene	33
Total Dissolved Solids	N	Methylene Chloride (MC)	5
Total Organic Carbon	N	Tetrachloroethene (PCE)	0.858
Inorganics		Toluene	100
Arsenic	5	Trichloroethene (TCE)	3.98
Barium	560	Vinyl Chloride (VC)	0.023
Lead	15	**Phthalates**	
Manganese	1,926	bis(2- ethylhexyl) Phthalate (BEHP)	6
Mercury	0.4		
Vanadium	112		
Zinc	400		

* On November 1st, 2021, Spokane County Environmental Services discontinued the Mica Landfill's Wastewater Discharge Permit number SIU-4953-0-A, along with the leachate sampling and monthly Discharge Monitoring Reports (DMRs).

Mica Landfill Site Map

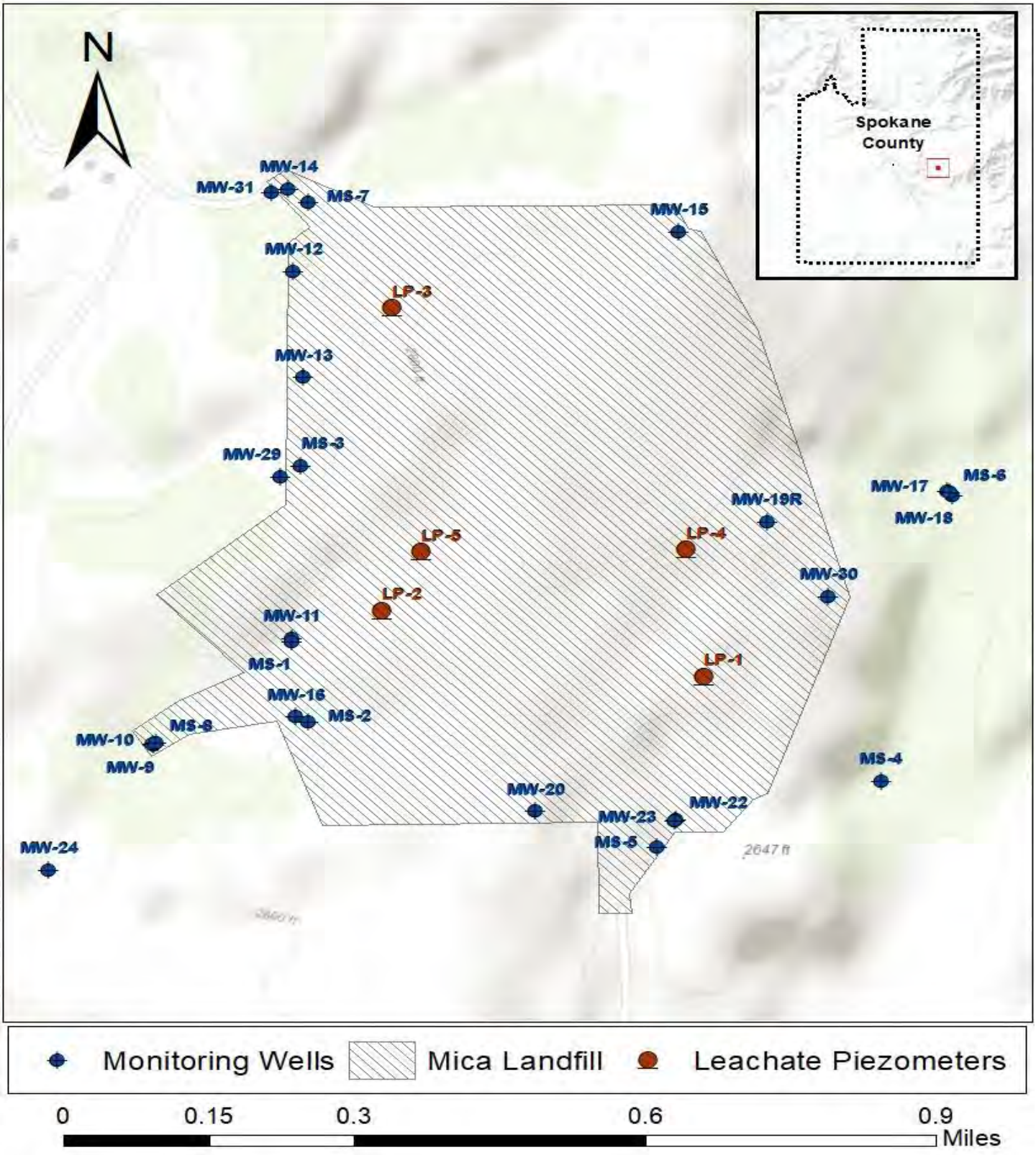


Figure 1-1: Mica Landfill Site Map

Mica Landfill RA Compliance Monitoring Wells

Table 1-2: Mica Landfill Summary Groundwater Monitoring Wells

Well ID	Geologic Unit*	Sampling Frequency	Drainage Area
MS-4	WB	Semi-Annual	Southeast
MS-5	WB	Semi-Annual	South
MW-9	WB	Semi-Annual	Southwest
MW-10	FB	Semi-Annual	Southwest
MW-13	FB	Semi-Annual	Northwest
MW-14	FB	Semi-Annual	Northwest
MW-16	FB	Quarterly	Southwest
MW-19R	FB	Semi-Annual	Southeast
MW-20	FB	Semi-Annual	South
MW-23	WB	Semi-Annual	South
MW-29	FB	Semi-Annual	Northwest
MW-31	WB	Semi-Annual	Northwest
DW-001	FB	Semi-Annual	South Pines Estates
DW-002	WB	Semi-Annual	Hidden Hollow
DW-003	FB	Semi-Annual	Miller Well

*WB = weathered (decomposed) bedrock

*FB = fractured bedrock

Mica Landfill Sampling Schedule

Table 1-3 Mica Landfill Sampling Schedule

LOCATION	VOLATILES				BEHP				TOC/NH3				Cl/Alk/NO3/SO4/TDS				As/Ba/Hg/Mn/Pb/V/Zn			
	Mar	Jun	Sep	Dec	Mar	Jun	Sep	Dec	Mar	Jun	Sep	Dec	Mar	Jun	Sep	Dec	Mar	Jun	Sep	Dec
Northwest Drainage																				
MW-013	X		X						X		X		X		X		X		X	
MW-014	X		X						X		X		X		X		X		X	
MW-029	X		X		X				X		X		X		X		X		X	
MW-031	X		X						X		X		X		X		X		X	
Southwest Drainage																				
MW-009	X		X		X				X		X		X		X		X		X	
MW-010	X		X						X		X		X		X		X		X	
MW-016	X	X	X	X					X	X	X	X	X		X		X	X	X	X
South Drainage																				
MS-005	X		X		X				X		X		X		X		X		X	
MW-020	X		X						X		X		X		X		X		X	
MW-023	X		X						X		X		X		X		X		X	
Southeast Drainage																				
MS-004	X		X		X		X		X		X		X		X		X		X	
MW-019R	X		X						X		X		X		X		X		X	
Domestic Wells																				
DW-001	X		X		X				X		X		X		X		X		X	
DW-002	X		X		X				X		X		X		X		X		X	
DW-003	X		X		X				X		X		X		X		X		X	

2 GROUNDWATER

2.1 GROUNDWATER DATA/SUMMARIES

PROBLEMS/ DEVIATIONS

Monitoring wells MS-4, MW-13, MW-19R, and MW-29 are low-producing wells that are purged once and allowed to recharge before obtaining samples. During the March 2024 sampling event, County personnel were not able to obtain groundwater samples from DW-2 due to issues with the internal components/plumbing. The well received repairs on 3/19/2024, and groundwater samples were obtained on 3/20/2024.

FIELD DATA

Field parameters for this report, including water elevations, are shown in Table 2-1.

CRITERIA EXCEEDANCES

Concentrations found above the clean-up criteria during this reporting period are presented in Table 2-2.

NORTHWEST DRAINAGE (MW-13, MW-14, MW-29, and MW-31)
Nitrate concentrations for MW-29 exceeded the cleanup criteria during the March 2024 sampling event. While nitrate concentrations for MW-31 dropped below the criteria during the March 2023 sampling event, nitrate concentrations exceeded the cleanup criteria during the March 2024 sampling event.

SOUTHWEST DRAINAGE (MW-9, MW-10, and MW-16)
Several VOC concentrations found in MW-16 were above the clean-up criteria during the December 2023 and March 2024 sampling events. VOCs that had concentrations above the clean-up criteria included 1,2-DCA, 1,2-DCP, benzene, and vinyl chloride. Concentrations for 1,2-DCP are currently on an increasing trend, and concentrations for 1,2-DCA, benzene, and vinyl chloride appear to be currently plateauing/decreasing. The concentrations for arsenic and barium were also above the criteria for MW-16 during the December 2023 and March 2024 sampling events. Any constituents that exhibited laboratory detections for MW-9 and MW-10 continue to show decreasing trends or consistent concentrations with previous years.

SOUTH DRAINAGE (MS-5, MW-20, and MW-23)
Nitrate concentrations for MS-5 and MW-20 exceeded the cleanup criteria during the March 2024 sampling event. While MW-20 exhibited concentrations for arsenic and lead that exceeded the criteria during the March 2023 sampling event, concentrations dropped below the cleanup criteria during the March 2024 sampling event. There appears to be somewhat high variation and seasonality associated with the arsenic and lead concentrations for MW-20. Lead and arsenic concentrations appear to be plateauing, and potentially starting to decline.

SOUTHEAST DRAINAGE (MS-4 and MW-19R)
Monitoring wells MW-19R and MS-4 exhibited nitrate concentrations above the clean-up criteria during the March 2024 sampling event. Nitrate concentrations at MW-19R appear to be relatively stable, while concentrations at MS-4 continue to increase. There are several examples of inorganic/ conventional concentrations decreasing in MW-19R while concentrations increase in

MS-4, indicating constituent concentration relationships between the two monitoring wells that are supported by the groundwater flow direction.

DOMESTIC WELLS (DW-1, DW-2, and DW-3)
Domestic Wells DW-2 and DW-3 continue to exhibit nitrate concentrations above the criteria of 0.8 mg/L. Nitrate concentrations for DW-3 appear to be on a current downward trend, while concentrations for DW-1 and DW-2 appear to be plateauing.

CHEMICAL DATA

All analytical results for this reporting period are shown in Table 2-3. Time-series graphs for northwest area analyte concentrations are presented in Figure 2-1 and Figure 2-2. Time-series graphs for southwest area analyte concentrations are presented in Figure 2-3 through Figure 2-9. Time-series graphs for the south area analyte concentrations are presented in Figure 2-10 through Figure 2-12. Time-series graphs for the southeast area analyte concentrations are presented in Figure 2-13 and Figure 2-14. Time-series graphs for the domestic well analyte concentrations are presented in Figure 2-15 and Figure 2-16.

A data validation summary for the laboratory results is presented in APPENDIX A: DATA VALIDATION SUMMARY. Because of the high volatile organic concentrations found in MW-16, dilutions for laboratory analysis are necessary. This typically increases the method reporting limit for the analytes, and while most detections are well above these elevated reporting limits, there may be some low-level concentrations that will not be represented in these laboratory results.

MICA LANDFILL DATA SUMMARY

NORTHWEST DRAINAGE (MW-13, MW-14, MW-29, and MW-31)
The northwest drainage wells show little to no detections of VOCs. Monitoring well MW-29, located in the southern area of the northwest drainage, indicates increasing trends in a majority of the conventionals, along with barium. While MW-29 currently indicates criteria exceedances/ increasing concentration trends for nitrate, overall nitrate concentrations have decreased over the last 5 years. MW-31 indicates decreasing trends for alkalinity, chloride, sulfate, TDS, and TOC.

SOUTHWEST DRAINAGE (MW-9, MW-10, and MW-16)
The majority of detected analyte concentrations for the Southwest wells are exhibiting overall decreases, however, several analyte concentrations (especially in monitoring well MW-16) are exhibiting increases, such as 1,2-DCA and 1,2-DCP. Arsenic concentrations found in MW-16 have remained on an increasing trend since 1995, but the data from the most recent sampling events indicate that concentrations appear to be plateauing. Barium concentrations for MW-16 continue to exhibit a decreasing trend. Acetone concentrations found in MW-16 dropped below the cleanup criteria after the December 2021 sampling event, and continue to exhibit concentrations below the cleanup criteria.

SOUTH DRAINAGE (MS-5, MW-20, and MW-23)
Most detected analyte concentrations identified in the southern wells are exhibiting decreasing concentration trends, although select analytes, including TDS/TOC for MS-005, barium/chloride/TDS for MW-20, and TDS/TOC/manganese in MW-23, are exhibiting concentration increases.

SOUTHEAST DRAINAGE (MS-4 and MW-19R)

Monitoring well MS-4 shows increasing trends for alkalinity, nitrate, sulfate, TDS, and barium. While nitrate concentrations have recently exhibited an increasing trend, the most recent sampling events indicate a possible plateau/decrease in concentrations. Monitoring well MW-19R indicates decreasing trends for most conventionals and barium. As mentioned above, there are several examples of inorganic and conventional concentrations decreasing in MW-19R while concentrations increase in MS-4, indicating constituent concentration relationships between the two monitoring wells that are supported by the groundwater flow direction.

DOMESTIC WELLS (DW-1, DW-2, and DW-3)

During the March 2024 sampling event, County personnel were not able to obtain groundwater samples from DW-2 due to issues with the internal components/plumbing. The well received repairs on 3/19/2024, and groundwater samples were obtained on 3/20/2024.

Data from DW-1 show overall increasing trends for nitrate, chloride, and barium. While nitrate and barium exhibited statistically significant increasing concentration trends over previous years, concentrations have been plateauing/decreasing during the most recent sampling events. DW-3 shows increasing trends for nitrate, sulfate, and barium. DW-2 indicates a decreasing trend for nitrate.

Mica Landfill Field Parameters

Table 2-1 Mica Landfill Field Parameters Summary

StationID	SampleDate	Temp	PH	Conductivity	Turbidity	WElev
DW-001	3/5/2024	10.8	6.9	314	0.27	
DW-002	3/20/2024	11.2	6.95	322	0.03	
DW-003	3/5/2024	113	7.51	318	0.84	2395.10
MS-004	3/5/2024	8	6.95	406	1.43	2514.33
MS-005	3/6/2024	10.6	6.74	270	1	2560.45
MW-009	3/5/2024	6.9	7.1	378	1.09	2494.44
MW-010	3/5/2024	8.5	7.52	186	0.12	2494.06
MW-013	3/5/2024	9.4	6.85	377	0.89	2671.32
MW-014	3/5/2024	8.8	7.08	151	0.63	2591.06
MW-016	12/6/2023	10.4	6.9	1622	0.54	2536.13
MW-016	3/6/2024	9.3	6.96	2090	0.52	2536.38
MW-019R	3/5/2024	10.8	7.13	238	2.67	2694.33
MW-020	3/5/2024	9.7	7.27	512	6.01	2592.38
MW-023	3/6/2024	10.8	7.19	651	2.1	2560.94
MW-029	3/5/2024	9.1	6.26	653	0.2	2589.21
MW-031	12/6/2023	8.8	6.68	117	1.41	2586.85
MW-031	3/5/2024	7.1	6.71	122	0.89	2590.15

Temp: Degrees C, Conductivity: umhos/cm, Turbitiy: NTU, Welev: ft above MSL

Criteria Exceedances

Table 2-2: Criteria Exceedances for Reporting Period

StationID	SampleDate	Analyte	MTCAB	Result	Detect Limit	Qualifier	Units	Type	DrainageArea
DW-002	3/20/2024	N-Nitrate	0.8	1.01	0.05		mg/L	C	Domestic
DW-003	3/5/2024	N-Nitrate	0.8	1.53	0.05		mg/L	C	Domestic
MW-029	3/5/2024	N-Nitrate	0.8	1.01	0.05		mg/L	C	Northwest
MW-031	12/6/2023	N-Nitrate	0.8	1.36	0.05		mg/L	C	Northwest
MS-005	3/6/2024	N-Nitrate	0.8	1.31	0.05		mg/L	C	South
MW-020	3/5/2024	N-Nitrate	0.8	1.87	0.05		mg/L	C	South
MS-004	3/5/2024	N-Nitrate	0.8	10.6	0.5		mg/L	C	Southeast
MW-019R	3/5/2024	N-Nitrate	0.8	1.31	0.05		mg/L	C	Southeast
MW-016	**12/6/2023**	**Arsenic**	**0.005**	**0.0654**	**0.01**		**mg/L**	**I**	**Southwest**
MW-016	3/6/2024	Arsenic	0.005	0.0631	0.001		mg/L	I	Southwest
MW-016	12/6/2023	Barium	0.56	0.639	0.004		mg/L	I	Southwest
MW-016	3/6/2024	Barium	0.56	0.624	0.004		mg/L	I	Southwest
MW-016	3/6/2024	1,2-Dichloroethane	1.2	2.62	0.5		ug/L	V	Southwest
MW-016	**12/6/2023**	**1,2-Dichloropropane**	**0.643**	**18.6**	**5**		**ug/L**	**V**	**Southwest**
MW-016	3/6/2024	1,2-Dichloropropane	0.643	18.5	0.5		ug/L	V	Southwest
MW-016	**12/6/2023**	**Benzene**	**0.795**	**12.3**	**5**		**ug/L**	**V**	**Southwest**
MW-016	3/6/2024	Benzene	0.795	12.3	0.5		ug/L	V	Southwest
MW-016	**3/6/2024**	**Vinyl Chloride**	**0.023**	**0.6**	**0.5**		**ug/L**	**V**	**Southwest**

Results with reporting/detection limits greater than the established criteria are highlighted in **Red**.

Criteria Exceedances – Summary of changes from 2023 to 2024:

StationID	Drainage	Analyte	Summary of change
MW-031	Northwest	N-Nitrate	Increased from no exceedance in 2023 to exceedance in 2024
MW-020	South	Arsenic	Decreased from exceedance in 2023 to no exceedance in 2024
MW-020	South	Lead	Decreased from exceedance in 2023 to no exceedance in 2024

Mica Landfill Groundwater Analytical Results

Table 2-3: Groundwater Analytical Results for the Reporting Period

Analyte	Date	AnalyteCat	Units	DW-003	MS-004	MS-005	MW-009	MW-010	MW-013	MW-014	MW-016	MW-019R	MW-020	MW-023	MW-029	MW-031	DW-001	DW-002
ALK	12-2023	C	mg/L as Ca													99		
ALK	3-2024	C	mg/L as Ca	179	181	92.6	182	97.4	185	77	1270	102	235	310	105	41.5	141	163
Cl	12-2023	C	mg/L													12.1		
Cl	3-2024	C	mg/L	0.85	0.68	17.2	8.02	0.55	8.17	0.87	160	5.57	7.85	40.5	138	11.6	16.4	8.74
N-NH3	12-2023	C	mg/L								0.287					0.03U		
N-NH3	3-2024	C	mg/L	0.03U	0.03U	0.03U	0.03U	0.03U	0.03U	0.03U	0.356	0.03U	0.03U	0.03U	0.03U	0.03U	0.03U	0.03U
N-NO3	12-2023	C	mg/L													1.36		
N-NO3	3-2024	C	mg/L	1.53	10.6	1.31	0.09	0.248	0.483	0.05U	0.05U	1.31	1.87	0.05U	1.01	0.791	0.26	1.01
SO4	12-2023	C	mg/L													5.2		
SO4	3-2024	C	mg/L	1.35	10.4	12.6	3.1	0.94	3.58	9.35	0.3U	4.65	5.17	8.51	7.32	4.19	10.9	4.78
TDS	12-2023	C	mg/L													166		
TDS	3-2024	C	mg/L		278	191	228	134	257	142	1300	149	331	402	380	119		
TOC	12-2023	C	mg/L								33.8					2.89		
TOC	3-2024	C	mg/L	1U	1.14	1.25	2.12	1U	1U	1U	28.6	1.13	1.17	2.63	1U	4.72	1U	1U
As	12-2023	I	mg/L								0.0654					0.001U		
As	3-2024	I	mg/L	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.00224	0.0631	0.001U	0.00301	0.001U	0.001U	0.001U	0.00122	0.001U
Ba	12-2023	I	mg/L								0.639					0.075		
Ba	3-2024	I	mg/L	0.028	0.0901	0.0405	0.0858	0.0481	0.0473	0.004U	0.624	0.0332	0.2	0.12	0.0997	0.0437	0.0181	0.0414
Hg	12-2023	I	mg/L								0.0002U					0.0002U		
Hg	3-2024	I	mg/L	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U
Mn	12-2023	I	mg/L								0.589					0.008U		
Mn	3-2024	I	mg/L	0.008U	0.0082	0.008U	0.297	0.008U	0.008U	0.25	0.607	0.008U	0.0672	0.963	0.008U	0.0126	0.008U	0.008U
Pb	12-2023	I	mg/L								0.015U					0.015U		
Pb	3-2024	I	mg/L	0.015U	0.015U	0.015U	0.015U	0.015U	0.015U	0.015U	0.015U	0.015U	0.015U	0.015U	0.015U	0.015U	0.015U	0.015U
Va	12-2023	I	mg/L								0.005U					0.005U		
Va	3-2024	I	mg/L	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Zn	12-2023	I	mg/L								0.01U					0.01U		
Zn	3-2024	I	mg/L	0.108	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.0253	0.01U	0.01U	0.01U	0.0604	0.0142

Analyte	Date	AnalyteCat	Units	DW-003	MS-004	MS-005	MW-009	MW-010	MW-013	MW-014	MW-016	MW-019R	MW-020	MW-023	MW-029	MW-031	DW-001	DW-002
BEHP	3-2024	S	ug/L	0.5U	0.5U	0.5U	0.5U								0.5U		0.5U	0.5U
1,2-DCA	12-2023	V	ug/L								**5UD**					0.5U		
1,2-DCA	3-2024	V	ug/L	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	**2.62**	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
1,2-DCP	12-2023	V	ug/L								**18.6**					0.5U		
1,2-DCP	3-2024	V	ug/L	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	**18.5**	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Acetone	12-2023	V	ug/L								**389**					2.5U		
Acetone	3-2024	V	ug/L	2.5U	2.5U	2.5U	2.5U	2.5U	2.5U	2.5U	**218**	2.5U	2.5U	2.5U	2.5U	2.5U	2.5U	2.5U
Benzene	12-2023	V	ug/L								**12.3**					0.5U		
Benzene	3-2024	V	ug/L	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	**12.3**	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
cis-1,2-DCE	12-2023	V	ug/L								**5UD**					0.5U		
cis-1,2-DCE	3-2024	V	ug/L	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	**1.48**	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Ethylbenzene	12-2023	V	ug/L								**55.9**					0.5U		
Ethylbenzene	3-2024	V	ug/L	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	**53.5**	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
m+p-Xylene	12-2023	V	ug/L								**38.5**					0.5U		
m+p-Xylene	3-2024	V	ug/L	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	**38.8**	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
MC	12-2023	V	ug/L								**25UD**					2.5U		
MC	3-2024	V	ug/L	2.5U	2.5U	2.5U	2.5U	2.5U	2.5U	2.5U	2.5U	2.5U	2.5U	2.5U	2.5U	2.5U	2.5U	2.5U
O-Xylene	12-2023	V	ug/L								**16.2**					0.5U		
O-Xylene	3-2024	V	ug/L	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	**17.2**	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
PCE	12-2023	V	ug/L								**5UD**					0.5U		
PCE	3-2024	V	ug/L	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
TCE	12-2023	V	ug/L								**5UD**					0.5U		
TCE	3-2024	V	ug/L	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	**0.54**	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Toluene	12-2023	V	ug/L								**13.9**					0.5U		
Toluene	3-2024	V	ug/L	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	**9.99**	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
VC	12-2023	V	ug/L								**5UD**					0.5U		
VC	3-2024	V	ug/L	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	**0.6**	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U

Blue bold indicates concentrations detected above Method Reporting Limit.
Orange bold indicates “UD” qualifier. The sample was diluted during lab analysis, and was a non-detection at the reported detection limit.
D = Sample diluted during lab analysis
U = Non-detection at the reported detection limit

Analyte Criteria Exceedance Time-Series Graphs

NW Drainage Monitoring Wells: Conventionals Time-Series Graphs

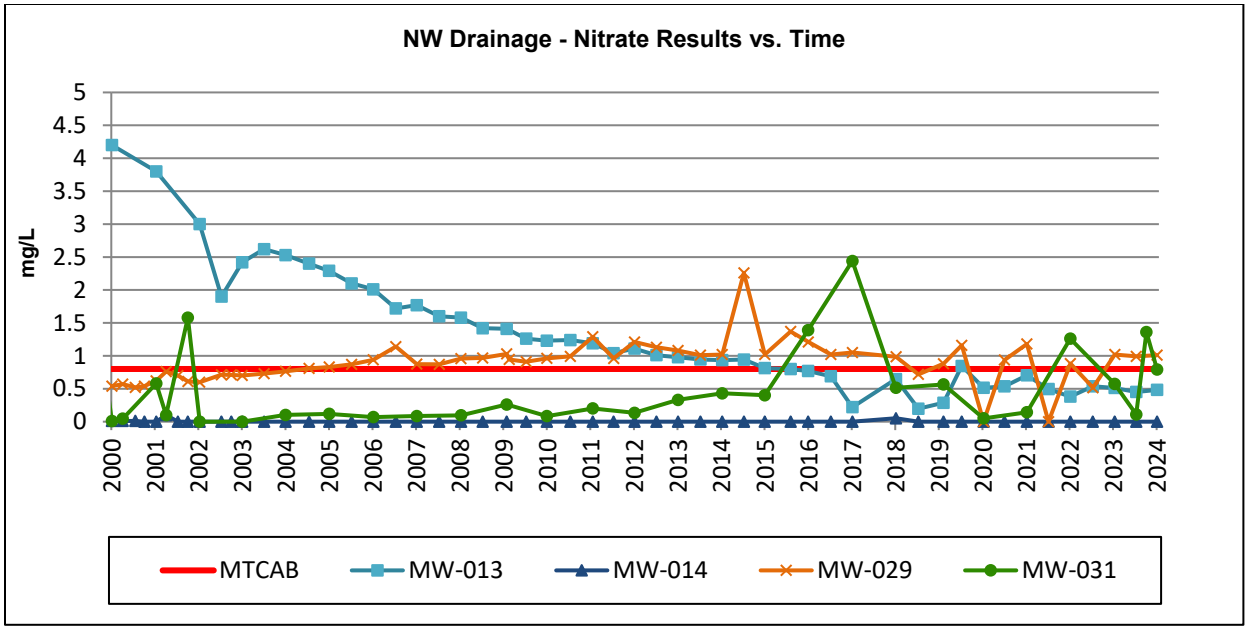


Figure 2-1: Northwest Monitoring Wells Nitrate Concentrations vs. Time

NW Drainage Monitoring Wells: VOCs/SVOCs Time-Series Graphs

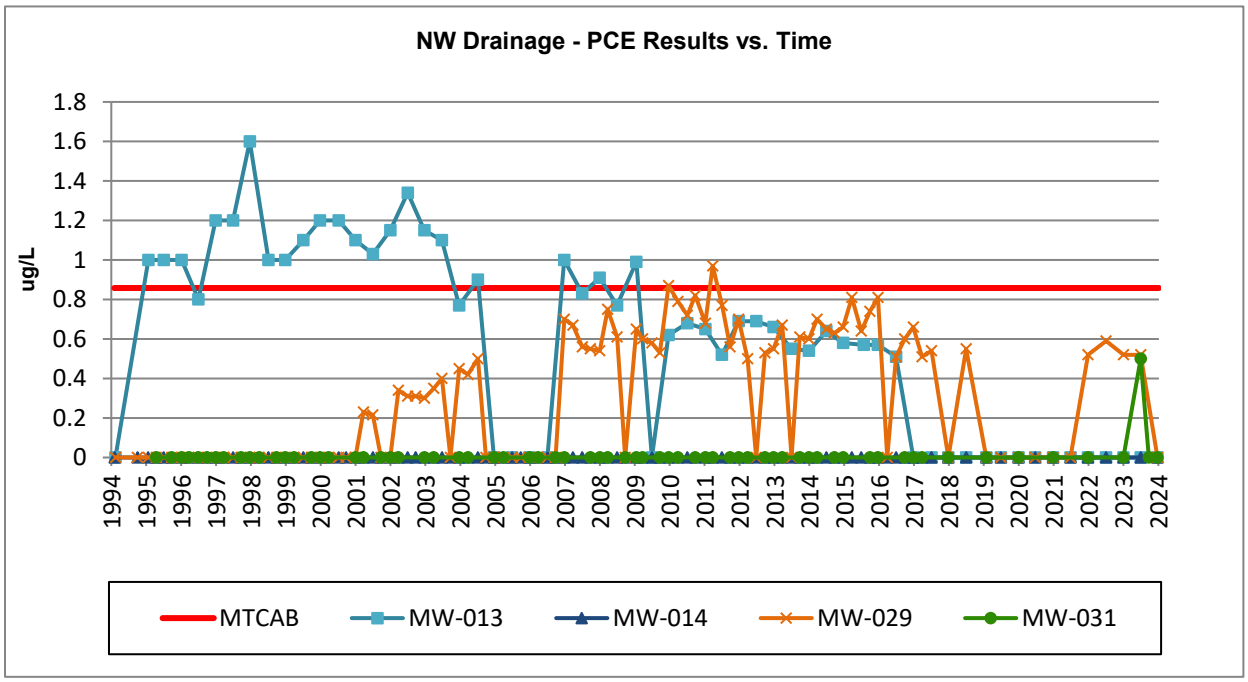


Figure 2-2: Northwest Monitoring Wells PCE Concentrations vs. Time

NW Analyte Concentrations: Summary of 5-year and 1-year differences:

StationID	DrainageArea	Analyte	2019 Results	2023 Results	2024 Results	5-Year Difference	1-Year Difference	Units
MW-013	Northwest	1,2-DCP	0	0	0	0	0	ug/L
MW-013	Northwest	Acetone	0	0	0	0	0	ug/L
MW-013	Northwest	ALK	193	197	185	-8	-12	mg/L as Ca
MW-013	Northwest	As	0	0	0	0	0	mg/L
MW-013	Northwest	Ba	0.0568	0.0473	0.0473	-0.0095	0	mg/L
MW-013	Northwest	Benzene	0	0	0	0	0	ug/L
MW-013	Northwest	Cl	9.29	8.6	8.17	-1.12	-0.43	mg/L
MW-013	Northwest	DCA	1.3	0.93	0.77	-0.53	-0.16	ug/L
MW-013	Northwest	MC	0	0	0	0	0	ug/L
MW-013	Northwest	Mn	0	0	0	0	0	mg/L
MW-013	Northwest	N-NH3	0	0	0	0	0	mg/L
MW-013	Northwest	N-NO3	0.287	0.512	0.483	0.196	-0.029	mg/L
MW-013	Northwest	Pb	0	0	0	0	0	mg/L
MW-013	Northwest	PCE	0	0	0	0	0	ug/L
MW-013	Northwest	SO4	3.8	3.07	3.58	-0.22	0.51	mg/L
MW-013	Northwest	TCE	0	0	0	0	0	ug/L
MW-013	Northwest	TDS	252	221	257	5	36	mg/L
MW-013	Northwest	TOC	1.33	1.03	0	-1.33	-1.03	mg/L
MW-013	Northwest	Toluene	0	0	0	0	0	ug/L
MW-013	Northwest	VC	0	0	0	0	0	ug/L
MW-013	Northwest	Zn	0	0	0	0	0	mg/L
MW-014	Northwest	1,2-DCP	0	0	0	0	0	ug/L
MW-014	Northwest	Acetone	0	0	0	0	0	ug/L
MW-014	Northwest	ALK	74.6	85.2	77	2.4	-8.2	mg/L as Ca
MW-014	Northwest	As	0	0	0.00224	0.00224	0.00224	mg/L
MW-014	Northwest	Ba	0	0	0	0	0	mg/L
MW-014	Northwest	Benzene	0	0	0	0	0	ug/L
MW-014	Northwest	Cl	0.75	0.75	0.87	0.12	0.12	mg/L
MW-014	Northwest	DCA	0	0	0	0	0	ug/L
MW-014	Northwest	MC	0	0	0	0	0	ug/L
MW-014	Northwest	Mn	0.143	0.145	0.25	0.107	0.105	mg/L
MW-014	Northwest	N-NH3	0	0	0	0	0	mg/L
MW-014	Northwest	N-NO3	0	0	0	0	0	mg/L
MW-014	Northwest	Pb	0	0	0	0	0	mg/L
MW-014	Northwest	PCE	0	0	0	0	0	ug/L
MW-014	Northwest	SO4	8.73	9.46	9.35	0.62	-0.11	mg/L
MW-014	Northwest	TCE	0	0	0	0	0	ug/L
MW-014	Northwest	TDS	113	108	142	29	34	mg/L
MW-014	Northwest	TOC	0	0	0	0	0	mg/L
MW-014	Northwest	Toluene	0	0	0	0	0	ug/L
MW-014	Northwest	VC	0	0	0	0	0	ug/L
MW-014	Northwest	Zn	0	0	0	0	0	mg/L
MW-029	Northwest	1,2-DCP	0	0	0	0	0	ug/L
MW-029	Northwest	Acetone	0	0	0	0	0	ug/L
MW-029	Northwest	ALK	72.4	86.4	105	32.6	18.6	mg/L as Ca

StationID	DrainageArea	Analyte	2019 Results	2023 Results	2024 Results	5-Year Difference	1-Year Difference	Units
MW-029	Northwest	As	0	0	0	0	0	mg/L
MW-029	Northwest	Ba	0.1	0.101	0.0997	-0.0003	-0.0013	mg/L
MW-029	Northwest	Benzene	0	0	0	0	0	ug/L
MW-029	Northwest	Cl	144	137	138	-6	1	mg/L
MW-029	Northwest	DCA	0	0	0	0	0	ug/L
MW-029	Northwest	MC	0	0	0	0	0	ug/L
MW-029	Northwest	Mn	0	0	0	0	0	mg/L
MW-029	Northwest	N-NH3	0	0	0	0	0	mg/L
MW-029	Northwest	N-NO3	0.88	1.02	1.01	0.13	-0.01	mg/L
MW-029	Northwest	Pb	0	0	0	0	0	mg/L
MW-029	Northwest	PCE	0	0.52	0	0	-0.52	ug/L
MW-029	Northwest	SO4	6.13	7.04	7.32	1.19	0.28	mg/L
MW-029	Northwest	TCE	0	0	0	0	0	ug/L
MW-029	Northwest	TDS	476	337	380	-96	43	mg/L
MW-029	Northwest	TOC	0	0	0	0	0	mg/L
MW-029	Northwest	Toluene	0	0	0	0	0	ug/L
MW-029	Northwest	VC	0	0	0	0	0	ug/L
MW-029	Northwest	Zn	0	0	0	0	0	mg/L
MW-031	Northwest	1,2-DCP	0	0	0	0	0	ug/L
MW-031	Northwest	Acetone	0	0	0	0	0	ug/L
MW-031	Northwest	ALK	39.4	46.8	41.5	2.1	-5.3	mg/L as Ca
MW-031	Northwest	As	0	0	0	0	0	mg/L
MW-031	Northwest	Ba	0.0386	0.0478	0.0437	0.0051	-0.0041	mg/L
MW-031	Northwest	Benzene	0	0	0	0	0	ug/L
MW-031	Northwest	Cl	2.31	18.5	11.6	9.29	-6.9	mg/L
MW-031	Northwest	DCA	0	0	0	0	0	ug/L
MW-031	Northwest	MC	0	0	0	0	0	ug/L
MW-031	Northwest	Mn	0.0141	0	0.0126	-0.0015	0.0126	mg/L
MW-031	Northwest	N-NH3	0	0	0	0	0	mg/L
MW-031	Northwest	N-NO3	0.566	0.574	0.791	0.225	0.217	mg/L
MW-031	Northwest	Pb	0	0	0	0	0	mg/L
MW-031	Northwest	PCE	0	0	0	0	0	ug/L
MW-031	Northwest	SO4	3.49	4.14	4.19	0.7	0.05	mg/L
MW-031	Northwest	TCE	0	0	0	0	0	ug/L
MW-031	Northwest	TDS	61	106	119	58	13	mg/L
MW-031	Northwest	TOC	5.45	3.52	4.72	-0.73	1.2	mg/L
MW-031	Northwest	Toluene	0	0	0	0	0	ug/L
MW-031	Northwest	VC	0	0	0	0	0	ug/L
MW-031	Northwest	Zn	0	0	0	0	0	mg/L

Analytes that exceeded clean-up criteria this reporting period are displayed in **ORANGE**.
Increases in analyte concentrations are highlighted in **RED**.
Decreases in analyte concentrations are highlighted in **BLUE**.

SW MW-16 Monitoring Well: VOCs/SVOCs Time-Series Graphs

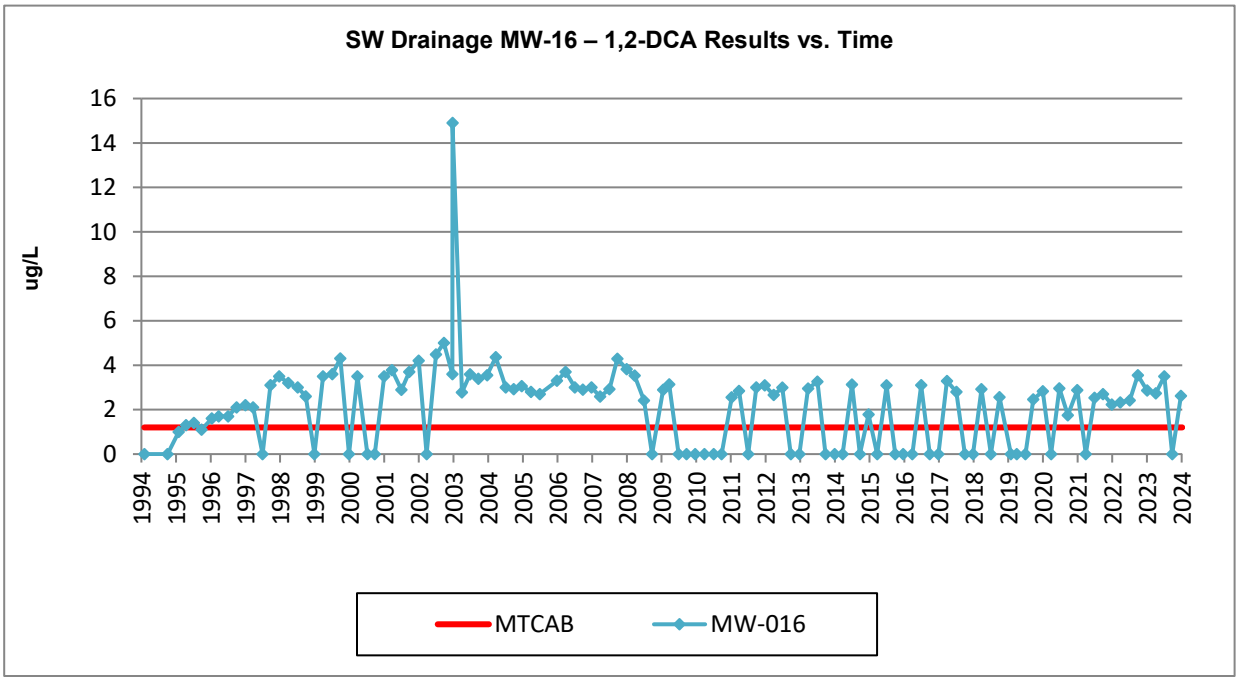


Figure 2-3: SW Monitoring Well MW-16 1,2-DCA Concentrations vs. Time

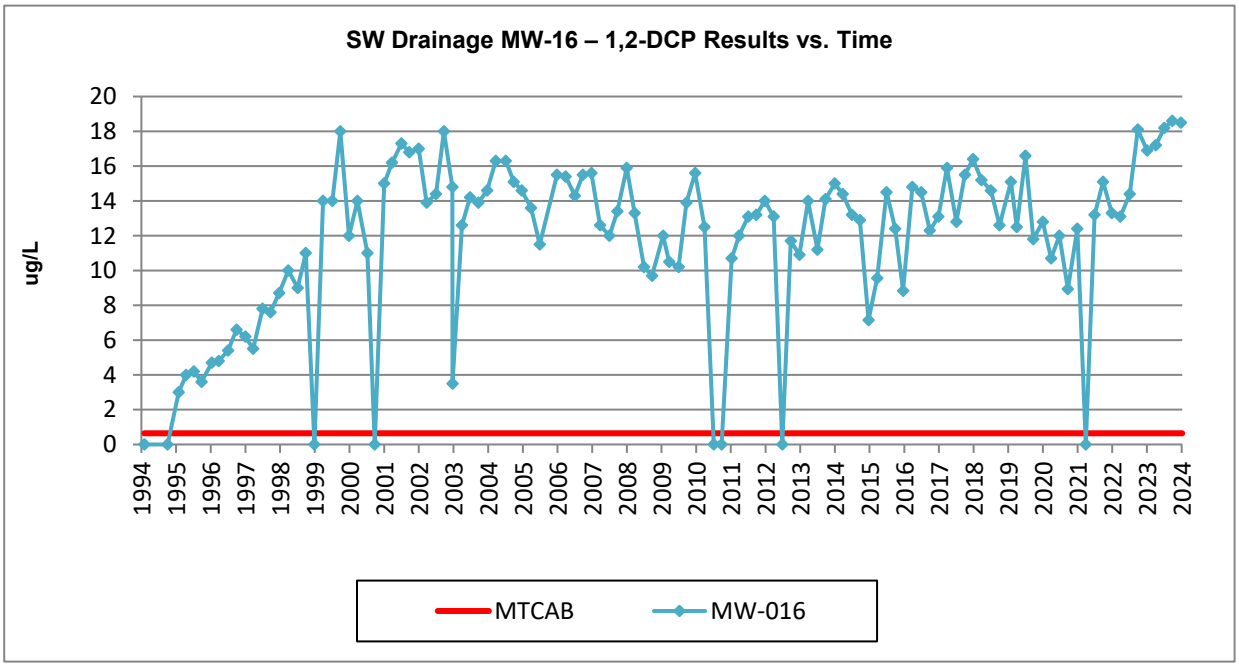


Figure 2-4: SW Monitoring Well MW-16 1,2-DCP Concentrations vs. Time

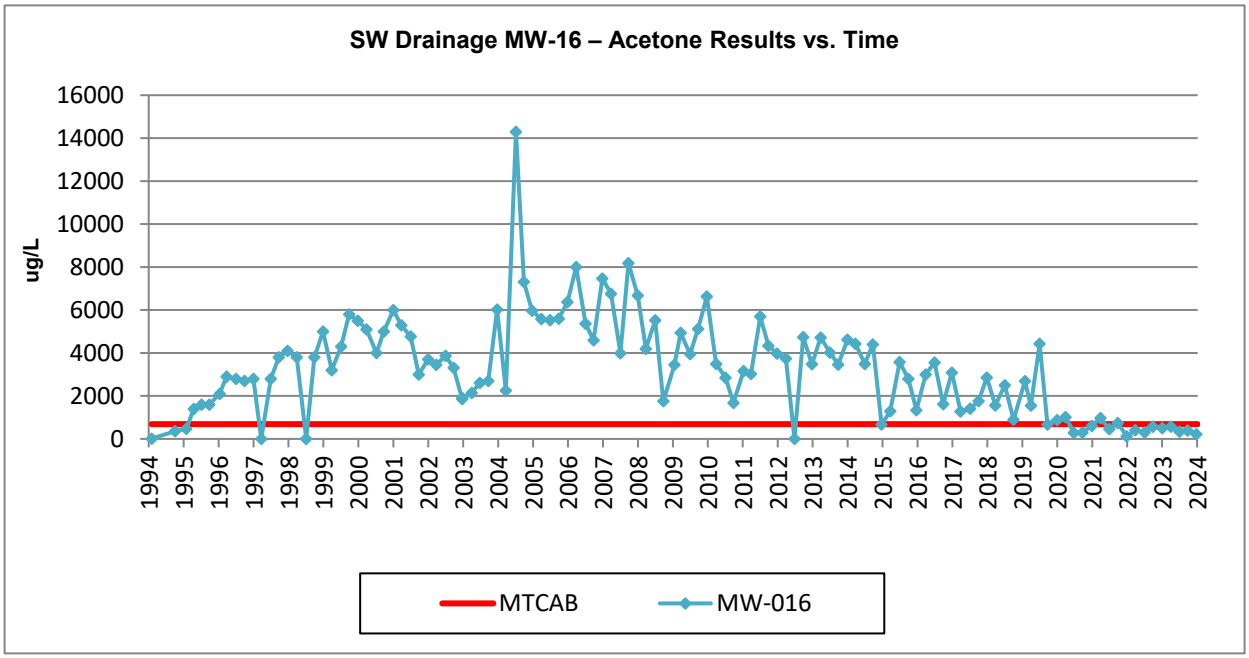


Figure 2-5: SW Monitoring Well MW-16 Acetone Results vs. Time

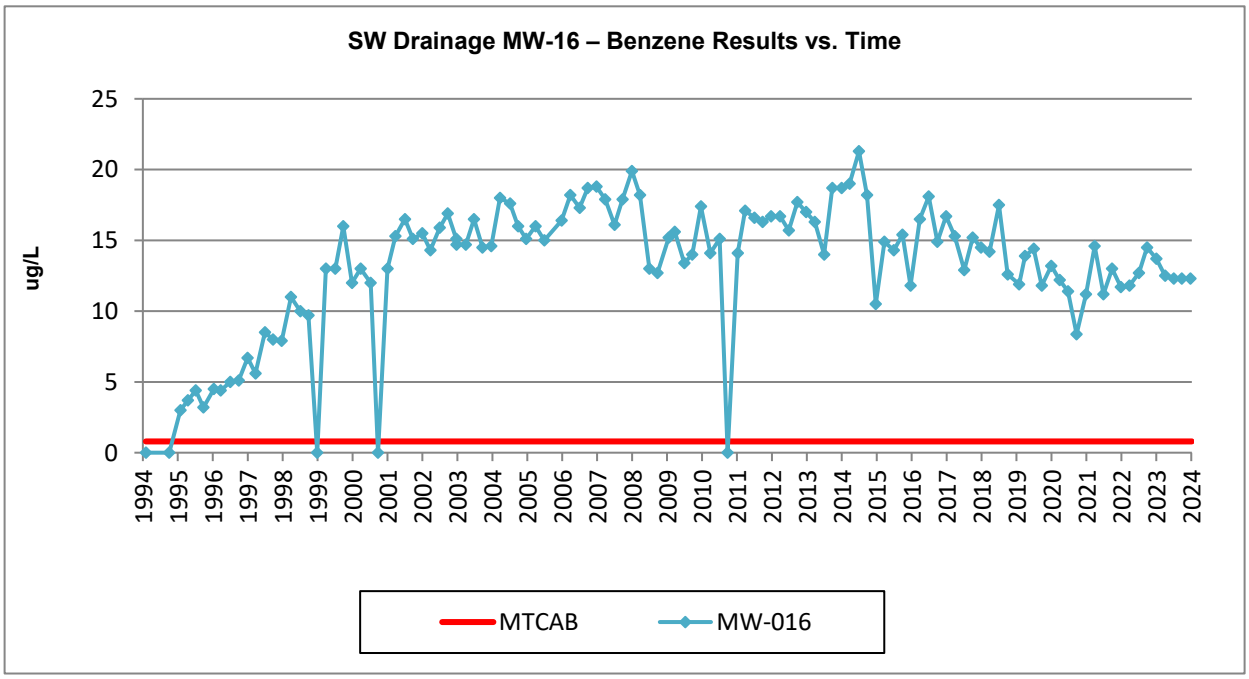


Figure 2-6: SW Monitoring Well MW16 Benzene Results vs. Time

MW-16 Monitoring Well VOCs/SVOCs Time-Series Graphs (cont.)

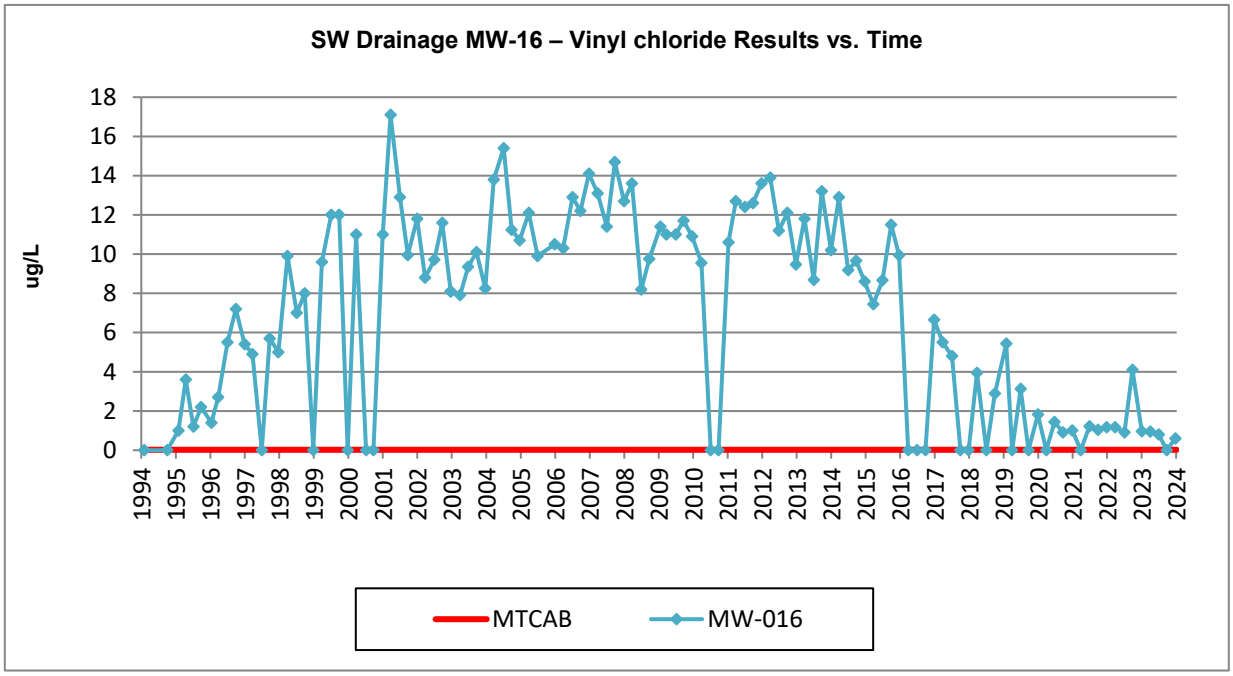


Figure 2-7: SW Monitoring Well MW-16 VC Results vs. Time

SW MW-16 Monitoring Well: Inorganics Time-Series Graphs

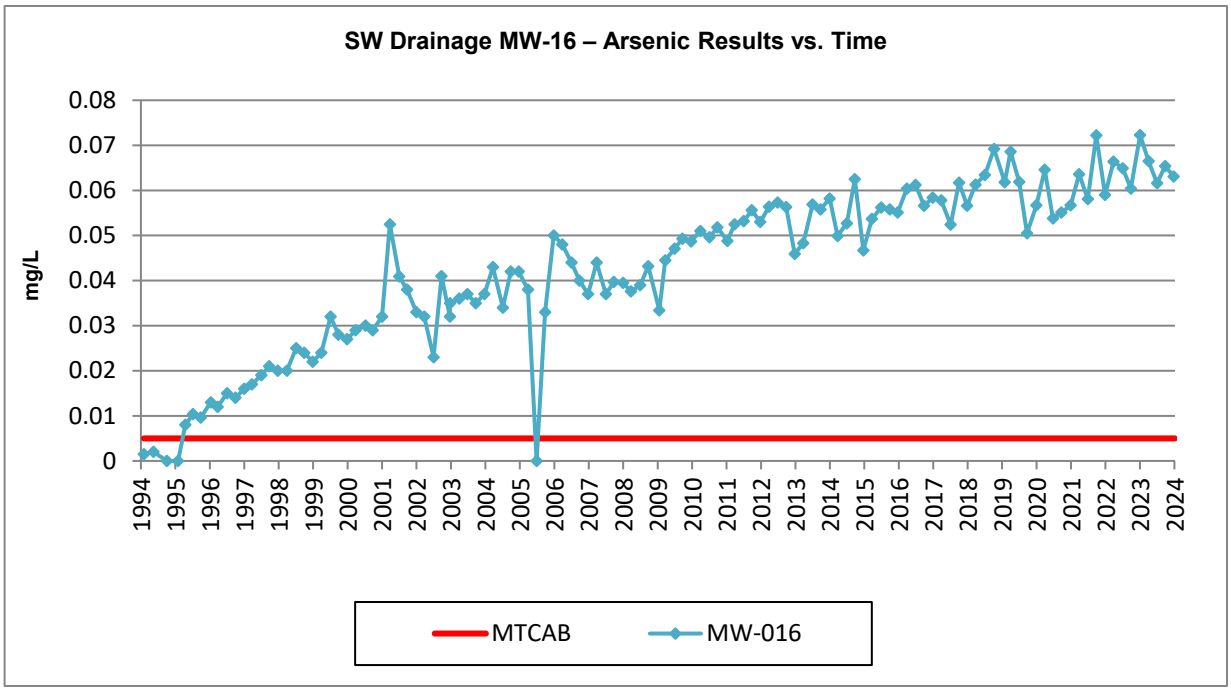


Figure 2-8: SW Monitoring Well MW-16 Arsenic Results vs. Time

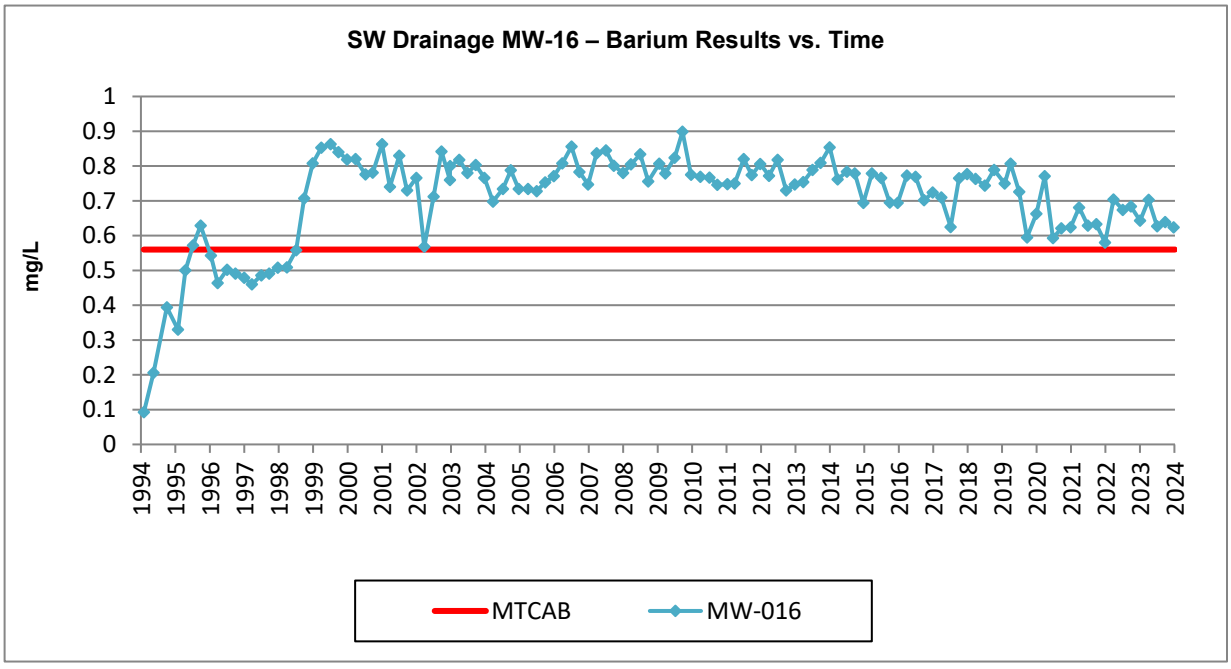


Figure 2-9: SW Monitoring Well MW-16 Barium Results vs. Time

MW-016 Analyte Concentrations: Summary of 5-year and 1-year differences:

StationID	DrainageArea	Analyte	2019 Results	2023 Results	2024 Results	5-Year Difference	1-Year Difference	Units
MW-016	Southwest	1,2-DCP	15.1	16.9	18.5	3.4	1.6	ug/L
MW-016	Southwest	Acetone	2690	500	218	-2472	-282	ug/L
MW-016	Southwest	ALK	1460	1350	1270	-190	-80	mg/L as Ca
MW-016	Southwest	As	0.0618	0.0723	0.0631	0.0013	-0.0092	mg/L
MW-016	Southwest	Ba	0.75	0.643	0.624	-0.126	-0.019	mg/L
MW-016	Southwest	Benzene	11.9	13.7	12.3	0.4	-1.4	ug/L
MW-016	Southwest	Cl	159	162	160	1	-2	mg/L
MW-016	Southwest	DCA	14.8	10	11.2	-3.6	1.2	ug/L
MW-016	Southwest	MC	0	0	0	0	0	ug/L
MW-016	Southwest	Mn	1.51	0.505	0.607	-0.903	0.102	mg/L
MW-016	Southwest	N-NH3	0.198	0.422	0.356	0.158	-0.066	mg/L
MW-016	Southwest	N-NO3	0	0.168	0	0	-0.168	mg/L
MW-016	Southwest	Pb	0	0	0	0	0	mg/L
MW-016	Southwest	PCE	0	0	0	0	0	ug/L
MW-016	Southwest	SO4	0.36	0.47	0	-0.36	-0.47	mg/L
MW-016	Southwest	TCE	0	0.56	0.54	0.54	-0.02	ug/L
MW-016	Southwest	TDS	1980	1580	1300	-680	-280	mg/L
MW-016	Southwest	TOC	171	29.3	28.6	-142.4	-0.7	mg/L
MW-016	Southwest	Toluene	75.2	10.5	9.99	-65.21	-0.51	ug/L
MW-016	Southwest	VC	5.44	0.97	0.6	-4.84	-0.37	ug/L
MW-016	Southwest	Zn	0	0	0	0	0	mg/L

Analytes that exceeded clean-up criteria this reporting period are displayed in **ORANGE**.
Increases in analyte concentrations are highlighted in **RED**.
Decreases in analyte concentrations are highlighted in **BLUE**.

South Drainage Wells: Conventionals Time-Series Graphs

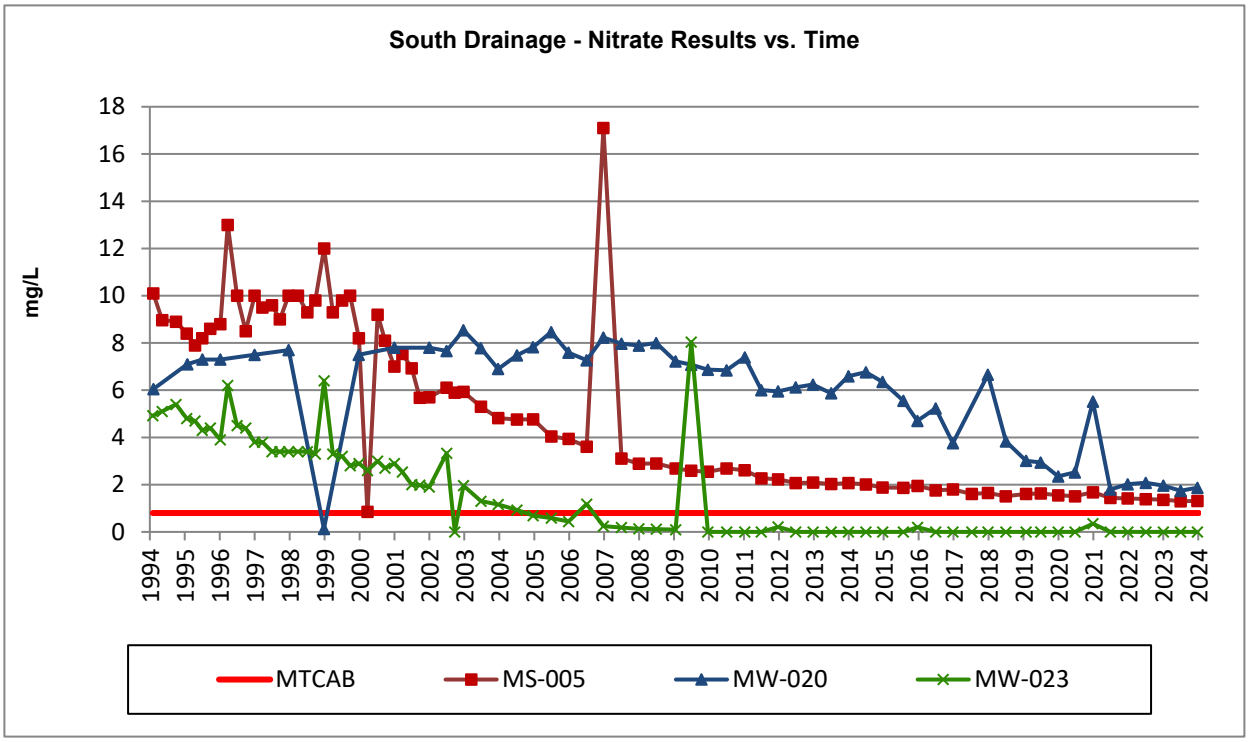


Figure 2-10: South Drainage Monitoring Wells Nitrate Results vs. Time

South Drainage Wells: Inorganics Time-Series Graphs

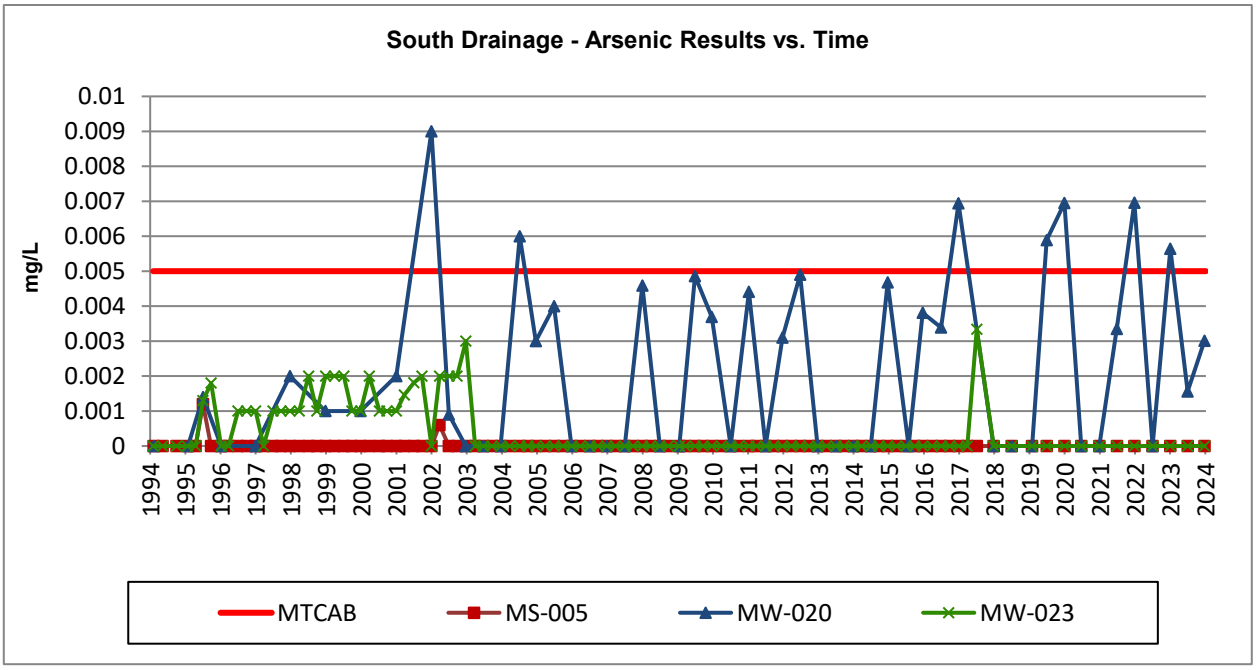


Figure 2-11: South Drainage Monitoring Wells Arsenic Results vs. Time

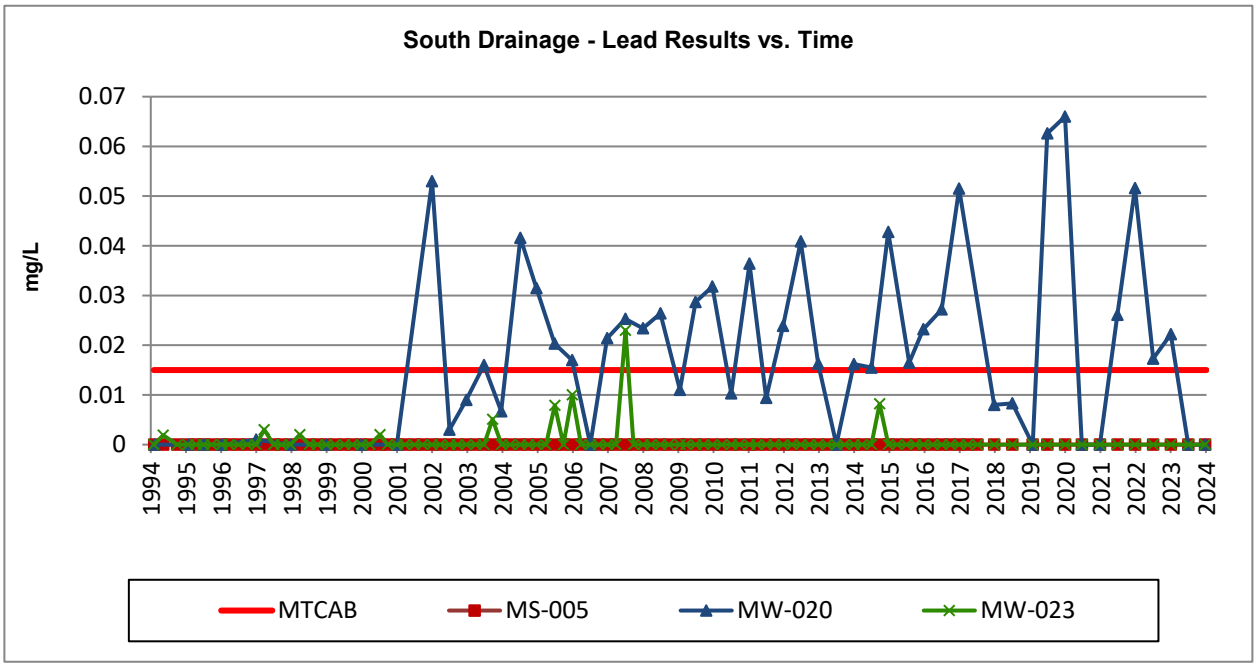


Figure 2-12: South Drainage Monitoring Wells Lead Results vs. Time

South Analyte Concentrations: Summary of 5-year and 1-year differences:

StationID	DrainageArea	Analyte	2019 Results	2023 Results	2024 Results	5-Year Difference	1-Year Difference	Units
MS-005	South	1,2-DCP	0	0	0	0	0	ug/L
MS-005	South	Acetone	0	0	0	0	0	ug/L
MS-005	South	ALK	107	102	92.6	-14.4	-9.4	mg/L as Ca
MS-005	South	As	0	0	0	0	0	mg/L
MS-005	South	Ba	0.0569	0.0422	0.0405	-0.0164	-0.0017	mg/L
MS-005	South	Benzene	0	0	0	0	0	ug/L
MS-005	South	Cl	27.9	18.9	17.2	-10.7	-1.7	mg/L
MS-005	South	DCA	0	0	0	0	0	ug/L
MS-005	South	MC	0	0	0	0	0	ug/L
MS-005	South	Mn	0	0	0	0	0	mg/L
MS-005	South	N-NH3	0	0	0	0	0	mg/L
MS-005	South	N-NO3	1.61	1.36	1.31	-0.3	-0.05	mg/L
MS-005	South	Pb	0	0	0	0	0	mg/L
MS-005	South	PCE	0	0	0	0	0	ug/L
MS-005	South	SO4	21.1	14	12.6	-8.5	-1.4	mg/L
MS-005	South	TCE	0	0	0	0	0	ug/L
MS-005	South	TDS	248	174	191	-57	17	mg/L
MS-005	South	TOC	1.62	1.2	1.25	-0.37	0.05	mg/L
MS-005	South	Toluene	0	0	0	0	0	ug/L
MS-005	South	VC	0	0	0	0	0	ug/L
MS-005	South	Zn	0	0	0	0	0	mg/L
MW-020	South	1,2-DCP	0	0	0	0	0	ug/L
MW-020	South	Acetone	0	0	0	0	0	ug/L
MW-020	South	ALK	238	246	235	-3	-11	mg/L as Ca
MW-020	South	As	0	0.00558	0.00301	0.00301	-0.00257	mg/L
MW-020	South	Ba	0.146	0.19	0.2	0.054	0.01	mg/L
MW-020	South	Benzene	0	0	0	0	0	ug/L
MW-020	South	Cl	8.66	7.65	7.85	-0.81	0.2	mg/L
MW-020	South	DCA	1.31	1.01	0.94	-0.37	-0.07	ug/L
MW-020	South	MC	0	0	0	0	0	ug/L
MW-020	South	Mn	0.0158	0.12	0.0672	0.0514	-0.0528	mg/L
MW-020	South	N-NH3	0	0	0	0	0	mg/L
MW-020	South	N-NO3	3.01	1.94	1.87	-1.14	-0.07	mg/L

StationID	DrainageArea	Analyte	2019 Results	2023 Results	2024 Results	5-Year Difference	1-Year Difference	Units
MW-020	South	Pb	0	0.0222	0	0	-0.0222	mg/L
MW-020	South	PCE	0	0	0	0	0	ug/L
MW-020	South	SO4	6.42	5.24	5.17	-1.25	-0.07	mg/L
MW-020	South	TCE	0	0	0	0	0	ug/L
MW-020	South	TDS	330	286	331	1	45	mg/L
MW-020	South	TOC	1.63	1.86	1.17	-0.46	-0.69	mg/L
MW-020	South	Toluene	0	0	0	0	0	ug/L
MW-020	South	VC	0	0	0	0	0	ug/L
MW-020	South	Zn	0	0.033	0.0253	0.0253	-0.0077	mg/L
MW-023	South	1,2-DCP	0	0	0	0	0	ug/L
MW-023	South	Acetone	0	0	0	0	0	ug/L
MW-023	South	ALK	360	314	310	-50	-4	mg/L as Ca
MW-023	South	As	0	0	0	0	0	mg/L
MW-023	South	Ba	0.15	0.12	0.12	-0.03	0	mg/L
MW-023	South	Benzene	0.53	0	0	-0.53	0	ug/L
MW-023	South	Cl	54.5	42.4	40.5	-14	-1.9	mg/L
MW-023	South	DCA	3.97	2.03	1.54	-2.43	-0.49	ug/L
MW-023	South	MC	0	0	0	0	0	ug/L
MW-023	South	Mn	0.944	0.892	0.963	0.019	0.071	mg/L
MW-023	South	N-NH3	0	0	0	0	0	mg/L
MW-023	South	N-NO3	0	0	0	0	0	mg/L
MW-023	South	Pb	0	0	0	0	0	mg/L
MW-023	South	PCE	0	0	0	0	0	ug/L
MW-023	South	SO4	8.42	8.66	8.5	0.08	-0.16	mg/L
MW-023	South	TCE	0	0	0	0	0	ug/L
MW-023	South	TDS	507	385	402	-105	17	mg/L
MW-023	South	TOC	2.65	2.11	2.63	-0.02	0.52	mg/L
MW-023	South	Toluene	0	0	0	0	0	ug/L
MW-023	South	VC	0	0	0	0	0	ug/L
MW-023	South	Zn	0	0	0	0	0	mg/L

Analytes that exceeded clean-up criteria this reporting period are displayed in **ORANGE**.
Increases in analyte concentrations are highlighted in **RED**.
Decreases in analyte concentrations are highlighted in **BLUE**.

SE Drainage Wells: Conventionals Time-Series Graphs

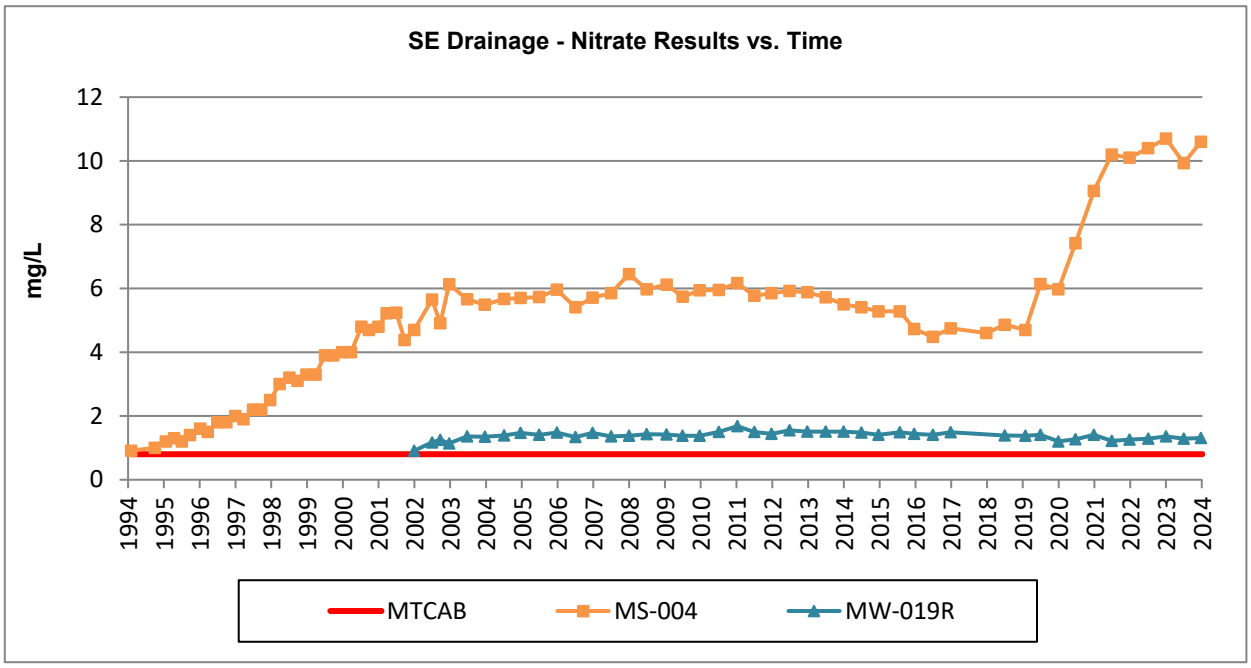


Figure 2-13: Southeast Monitoring Wells Nitrate Results vs. Time

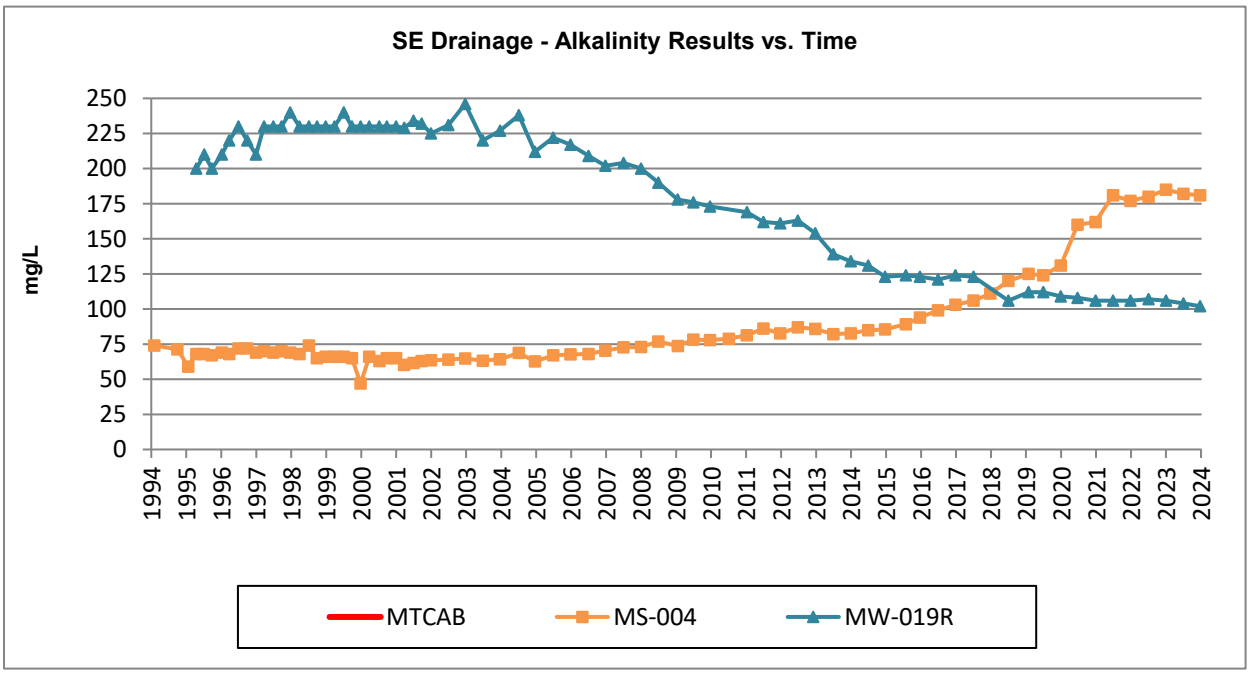


Figure 2-14: Southeast Monitoring Wells Alkalinity Results vs. Time

SE Analyte Concentrations: Summary of 5-year and 1-year differences:

StationID	DrainageArea	Analyte	2019 Results	2023 Results	2024 Results	5-Year Difference	1-Year Difference	Units
MS-004	Southeast	1,2-DCP	0	0	0	0	0	ug/L
MS-004	Southeast	Acetone	0	0	0	0	0	ug/L
MS-004	Southeast	ALK	125	185	181	56	-4	mg/L as Ca
MS-004	Southeast	As	0	0	0	0	0	mg/L
MS-004	Southeast	Ba	0.0718	0.0847	0.0901	0.0183	0.0054	mg/L
MS-004	Southeast	Benzene	0	0	0	0	0	ug/L
MS-004	Southeast	Cl	0.49	0.59	0.68	0.19	0.09	mg/L
MS-004	Southeast	DCA	0	1.36	1.5	1.5	0.14	ug/L
MS-004	Southeast	MC	0	0	0	0	0	ug/L
MS-004	Southeast	Mn	0	0	0.0082	0.0082	0.0082	mg/L
MS-004	Southeast	N-NH3	0	0	0	0	0	mg/L
MS-004	Southeast	N-NO3	4.7	10.7	10.6	5.9	-0.1	mg/L
MS-004	Southeast	Pb	0	0	0	0	0	mg/L
MS-004	Southeast	PCE	0	0	0	0	0	ug/L
MS-004	Southeast	SO4	10.8	10.4	10.4	-0.4	0	mg/L
MS-004	Southeast	TCE	0	0	0	0	0	ug/L
MS-004	Southeast	TDS	211	271	278	67	7	mg/L
MS-004	Southeast	TOC	1.13	1.23	1.14	0.01	-0.09	mg/L
MS-004	Southeast	Toluene	0	0	0	0	0	ug/L
MS-004	Southeast	VC	0	0	0	0	0	ug/L
MS-004	Southeast	Zn	0	0	0	0	0	mg/L
MW-019R	Southeast	1,2-DCP	0	0	0	0	0	ug/L
MW-019R	Southeast	Acetone	0	0	0	0	0	ug/L
MW-019R	Southeast	ALK	112	106	102	-10	-4	mg/L as Ca
MW-019R	Southeast	As	0	0	0	0	0	mg/L
MW-019R	Southeast	Ba	0.0405	0.0321	0.0332	-0.0073	0.0011	mg/L
MW-019R	Southeast	Benzene	0	0	0	0	0	ug/L
MW-019R	Southeast	Cl	7.8	6.05	5.57	-2.23	-0.48	mg/L
MW-019R	Southeast	DCA	0	0	0	0	0	ug/L
MW-019R	Southeast	MC	0	0	0	0	0	ug/L
MW-019R	Southeast	Mn	0	0	0	0	0	mg/L
MW-019R	Southeast	N-NH3	0	0	0	0	0	mg/L
MW-019R	Southeast	N-NO3	1.38	1.36	1.31	-0.07	-0.05	mg/L
MW-019R	Southeast	Pb	0	0	0	0	0	mg/L
MW-019R	Southeast	PCE	0	0	0	0	0	ug/L
MW-019R	Southeast	SO4	5.33	4.69	4.65	-0.68	-0.04	mg/L
MW-019R	Southeast	TCE	0	0	0	0	0	ug/L
MW-019R	Southeast	TDS	174	143	149	-25	6	mg/L
MW-019R	Southeast	TOC	1.3	1	1.13	-0.17	0.13	mg/L
MW-019R	Southeast	Toluene	0	0	0	0	0	ug/L
MW-019R	Southeast	VC	0	0	0	0	0	ug/L
MW-019R	Southeast	Zn	0	0	0	0	0	mg/L

Analytes that exceeded clean-up criteria this reporting period are displayed in **ORANGE**.
Increases in analyte concentrations are highlighted in **RED**.
Decreases in analyte concentrations are highlighted in **BLUE**.

Domestic Wells: Inorganics Time-Series Graphs

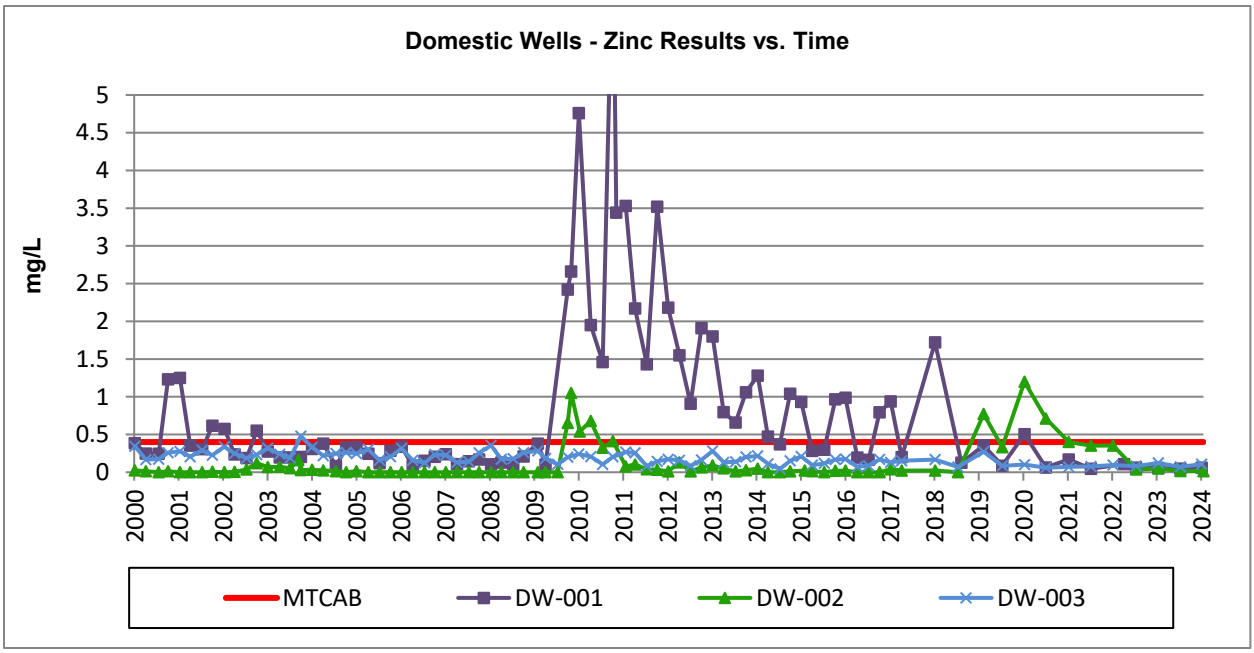


Figure 2-15: Domestic Wells Zinc Results vs. Time

Domestic Wells: Conventionals Time-Series Graphs

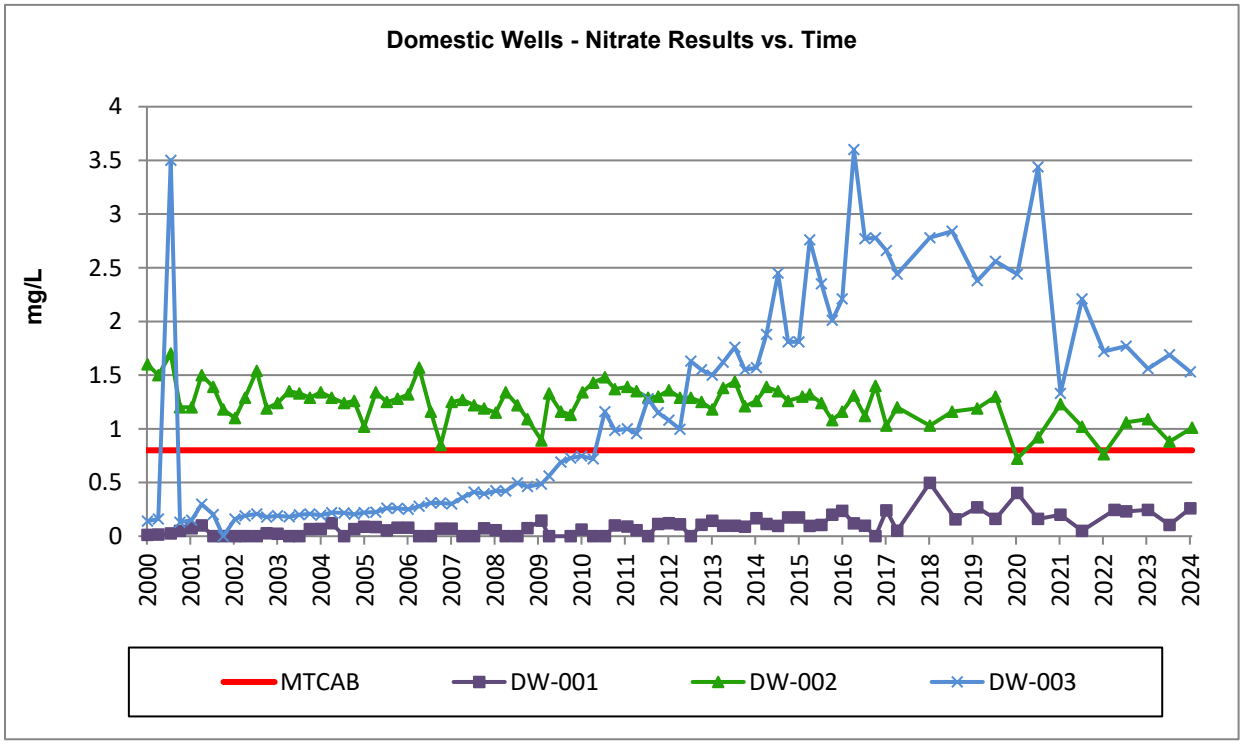


Figure 2-16: Domestics Wells Nitrate Results vs. Time

Domestic Analyte Concentrations: Summary of 5-year and 1-year differences:

StationID	DrainageArea	Analyte	2019 Results	2023 Results	2024 Results	5-Year Difference	1-Year Difference	Units
DW-001	Domestic	1,2-DCP	0	0	0	0	0	ug/L
DW-001	Domestic	ALK	141	147	141	0	-6	mg/L as Ca
DW-001	Domestic	As	0	0	0.00122	0.00122	0.00122	mg/L
DW-001	Domestic	Ba	0.0262	0.0193	0.0181	-0.0081	-0.0012	mg/L
DW-001	Domestic	Benzene	0	0	0	0	0	ug/L
DW-001	Domestic	Cl	11.3	15.5	16.4	5.1	0.9	mg/L
DW-001	Domestic	DCA	0	0	0	0	0	ug/L
DW-001	Domestic	MC	0	0	0	0	0	ug/L
DW-001	Domestic	Mn	0.008	0	0	-0.008	0	mg/L
DW-001	Domestic	N-NH3	0	0	0	0	0	mg/L
DW-001	Domestic	N-NO3	0.268	0.245	0.26	-0.008	0.015	mg/L
DW-001	Domestic	Pb	0	0	0	0	0	mg/L
DW-001	Domestic	PCE	0	0	0	0	0	ug/L
DW-001	Domestic	SO4	8.87	10.8	10.9	2.03	0.1	mg/L
DW-001	Domestic	TCE	0	0	0	0	0	ug/L
DW-001	Domestic	TOC	1.13	0	0	-1.13	0	mg/L
DW-001	Domestic	Toluene	0	0	0	0	0	ug/L
DW-001	Domestic	VC	0	0	0	0	0	ug/L
DW-001	Domestic	Zn	0.355	0.0558	0.0604	-0.2946	0.0046	mg/L
DW-002	Domestic	1,2-DCP	0	0	0	0	0	ug/L
DW-002	Domestic	Acetone	0	0	0	0	0	ug/L
DW-002	Domestic	ALK	152	169	163	11	-6	mg/L as Ca
DW-002	Domestic	As	0	0	0	0	0	mg/L
DW-002	Domestic	Ba	0.0384	0.0389	0.0414	0.003	0.0025	mg/L
DW-002	Domestic	Benzene	0	0	0	0	0	ug/L
DW-002	Domestic	Cl	8.51	8.36	8.74	0.23	0.38	mg/L
DW-002	Domestic	DCA	0	0	0	0	0	ug/L
DW-002	Domestic	MC	0	0	0	0	0	ug/L
DW-002	Domestic	Mn	0.025	0	0	-0.025	0	mg/L
DW-002	Domestic	N-NH3	0	0	0	0	0	mg/L

StationID	DrainageArea	Analyte	2019 Results	2023 Results	2024 Results	5-Year Difference	1-Year Difference	Units
DW-002	Domestic	N-NO3	1.19	1.09	1.01	-0.18	-0.08	mg/L
DW-002	Domestic	Pb	0	0	0	0	0	mg/L
DW-002	Domestic	PCE	0	0	0	0	0	ug/L
DW-002	Domestic	SO4	5.87	4.55	4.78	-1.09	0.23	mg/L
DW-002	Domestic	TCE	0	0	0	0	0	ug/L
DW-002	Domestic	TOC	1.01	0	0	-1.01	0	mg/L
DW-002	Domestic	Toluene	5.24	0	0	-5.24	0	ug/L
DW-002	Domestic	VC	0	0	0	0	0	ug/L
DW-002	Domestic	Zn	0.772	0.0493	0.0142	-0.7578	-0.0351	mg/L
DW-003	Domestic	1,2-DCP	0	0	0	0	0	ug/L
DW-003	Domestic	Acetone	0	0	0	0	0	ug/L
DW-003	Domestic	ALK	177	184	179	2	-5	mg/L as Ca
DW-003	Domestic	As	0	0	0	0	0	mg/L
DW-003	Domestic	Ba	0.0303	0.028	0.028	-0.0023	0	mg/L
DW-003	Domestic	Benzene	0	0	0	0	0	ug/L
DW-003	Domestic	Cl	0.85	0.76	0.85	0	0.09	mg/L
DW-003	Domestic	DCA	0	0	0	0	0	ug/L
DW-003	Domestic	MC	0	0	0	0	0	ug/L
DW-003	Domestic	Mn	0	0	0	0	0	mg/L
DW-003	Domestic	N-NH3	0	0	0	0	0	mg/L
DW-003	Domestic	N-NO3	2.38	1.56	1.53	-0.85	-0.03	mg/L
DW-003	Domestic	Pb	0	0	0	0	0	mg/L
DW-003	Domestic	PCE	0	0	0	0	0	ug/L
DW-003	Domestic	SO4	1.56	1.15	1.35	-0.21	0.2	mg/L
DW-003	Domestic	TCE	0	0	0	0	0	ug/L
DW-003	Domestic	TOC	0	0	0	0	0	mg/L
DW-003	Domestic	Toluene	0	0	0	0	0	ug/L
DW-003	Domestic	VC	0	0	0	0	0	ug/L
DW-003	Domestic	Zn	0.272	0.123	0.108	-0.164	-0.015	mg/L

Analytes that exceeded clean-up criteria this reporting period are displayed in ORANGE.
Increases in analyte concentrations are highlighted in **RED**.
Decreases in analyte concentrations are highlighted in **BLUE**.

3 LEACHATE

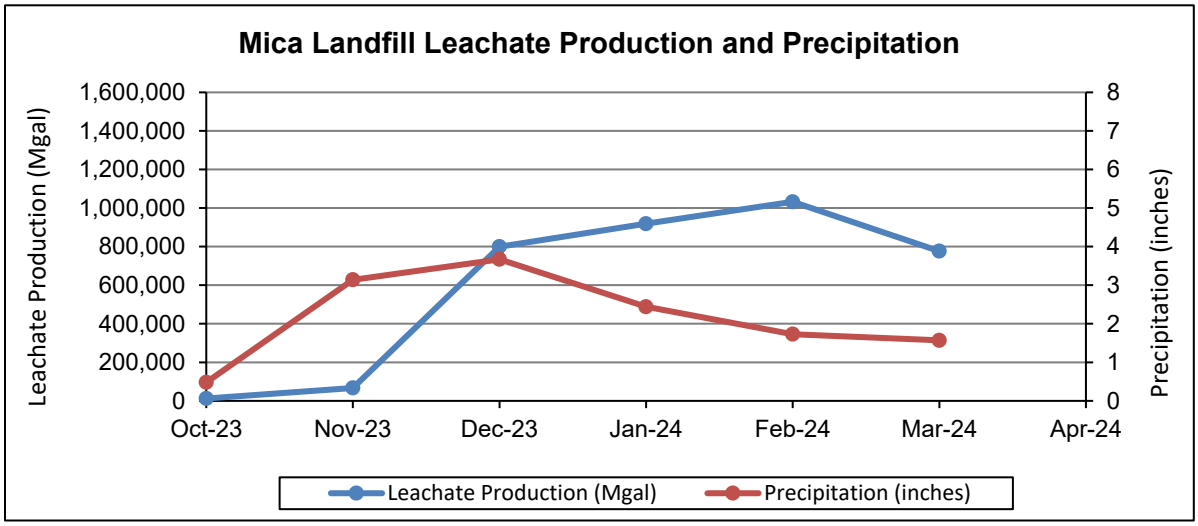
3.1 LEACHATE DATA

On November 1st, 2021, Spokane County Environmental Services discontinued the Mica Landfill's Wastewater Discharge Permit number SIU-4953-0-A, along with the leachate sampling and monthly Discharge Monitoring Reports (DMRs).

LEACHATE PRODUCTION

Monthly leachate production rates are presented in the table below, along with local precipitation amounts. The total amount of leachate generated at the Mica Landfill from October 2023 through March 2024 was approximately 3,607,249 gallons.

Month	Leachate Volume (gal)	Precipitation (inches)
Oct-23	12,395	0.48
Nov-23	66,882	3.14
Dec-23	799,871	3.67
Jan-24	918,880	2.44
Feb-24	1,032,531	1.73
Mar-24	776,690	1.57
Total	**3,607,249**	**13.03**



APPENDIX A: DATA VALIDATION SUMMARY

Analytical data for the December 2023/March 2024 sampling events were reviewed using quality control (QC) criteria documented in the analytical method, *National Functional Guidelines for Organic Data Review and Inorganic Data Review (1994)*, and the *Mica Landfill Remedial Action Plan (November 2003).*

Data Qualifier Values for December 2023/March 2024 Sampling Results

StationID	SampleDate	AnalyteAbbrev	AnalyteCat	Units	SampleID	RptLimit	Result	Qualifier
MS-005	3/6/2024	N-NO3	C	mg/L	GWMS-005-240306	0.05	1.31	J
MW-016	3/6/2024	N-NO3	C	mg/L	GWMW-016-240306	0.05	0.05	UJ
MW-023	3/6/2024	N-NO3	C	mg/L	GWMW-023-240306	0.05	0.05	UJ
MW-023	3/6/2024	N-NO3	C	mg/L	MWS-1-1-240306	0.05	0.05	UJ
MW-020	3/5/2024	TOC	C	mg/L	GWMW-020-240305	1	1.17	J

D = Sample diluted during lab analysis
U = Non-detection at the reported detection limit
J = Analyzed value is qualified as an estimate.

SVL laboratory assigned a "Q9" qualifier for the above TOC sample collected from MW-20. A Q9 qualifier from Anatek laboratory signifies that "insufficient sample was received to meet QC requirements," and the TOC sample has been qualified as an estimate.

The nitrate samples listed above were received/analyzed past their designated holding times, and have been qualified as estimates. Since the nitrate samples are collected in unpreserved bottles, the holding times for the nitrate samples are only 48 hours. Spokane County is considering all delivery options and alternatives due to late deliveries being an ongoing problem.

APPENDIX B: GROUNDWATER SAMPLING FIELD SHEETS

MICA GROUNDWATER SAMPLING FIELD SHEET
2024

DATE: 03/05/24	WELL ID: DW-01	FIELD TEAM: MT, GR, CC
SAMPLE ID: GWDW-001-240305	QA / QC SAMPLE ID: N/A	
FIELD CONDITIONS: Ptly Cldy, to Clear, AM Fog, 20-38°F, 29.68R, 4mph		

START TIME: 0825
SAMPLE TIME: 0841
QA / QC SAMPLE TIME: N/A
END TIME: 0851

DEDICATED BLADDER: _____
DISPOSABLE BAILER: _____
PRIVATE DOMESTIC WELL: *

METER AND PURGING INFORMATION:

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH 100	2307124	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTESTR 11+	1312423	Std. to 700 umhos/cm
TURBIDITY	HACH or APERA	#24957 or #81003	Std to 4.02, 39.4, and 331 NTU
SMELL INDICATOR	N/A		

TOTAL DEPTH OF WELL: N/A
PACKER DEPTH: N/A
STATIC WATER LEVEL: N/A
COLUMN OF WATER: N/A
COLUMN OF WATER ABOVE PACKER: N/A
COLUMN OF WATER BELOW PACKER: N/A

CALCULATIONS:

$$\frac{5}{\left(\frac{25}{60}\right)} = 12 \text{ gpm}$$

PACKER INFORMATION:
COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI)

PARAMETERS:	(+/- 10%)	(+/- .1)	(+/- 10%)	
GAL PURGED / TIME	TEMP	pH	CONDUCTIVITY	APPEARANCE
60 / 0830	10.3	6.88	316	Clear, odorless
120 / 0835	10.7	6.89	313	Clear, odorless
180 / 0840	10.8	6.90	314	Clear, odorless
			TURBIDITY: 0.27	NTU (meas. In field lab)

COMMENTS: Purged 15 min then sampled. Pump was running prior to sampling when pump was shut off to prepare for sampling in the AM.

SAMPLE MONTH: MARCH, JUNE, SEPTEMBER OR DECEMBER

SAMPLE ID: GWDW-001-240305 SAMPLE TIME: 0841

QA / QC SAMPLE ID: N/A QA / QC SAMPLE TIME: N/A

GROUNDWATER SAMPLES

	MONITORING WELLS				RESIDENTIAL WELLS		
PARAMETERS:	VOLATILES ✓	SVOC'S BEHP ✓	TOC ✓	AMMONIA ✓	Cl / SO4 / TDS / NO3 ALKALINITY	Cl / SO4 / NO3 ALKALINITY ✓	As / Ba / Pb / Mn / Hg V / Zn ✓
CONTAINERS:	3-40 ml VOLATILES	1 Liter AMBER GLASS	40 ml CLEAR GLASS	500 ml. POLY BOTTLE	500 ml POLY BOTTLE	500 ml POLY BOTTLE	500 ml POLY BOTTLE
PRESERVATION:	HCl pH<2	UNPRESERVED	HCL pH<2	H2SO4 pH<2	UNPRESERVED	UNPRESERVED	HNO3 (TOTAL) pH<2
HOLDING TIME:	14 DAYS	7 DAYS TO	28 DAYS	28 DAYS	28 DAYS / 28 DAYS	28 DAYS / 48 HRS	6 MONTHS
METHODS:	8260C	8270	415.1	350.1	300.0 / 300.0 / 160.1 300.0 / 310.1	300.0 / 300.0 300.0 / 310.1	7060A / 6010B / 7470A
LAB	ANATEK	ANATEK	SVL	SVL	SVL	SVL	SVL

LEACHATE SAMPLES

	COMPLIANCE LEACHATE PERMIT MONITORING (LEACHATE GRAVITY LINE)								
PARAMETERS:	VOC'S	FOG	FOG	PESTICIDES SVOC'S	BOD	TSS / pH	TOTAL PHOSPHOROUS	CYANIDE (TOTAL)	METALS (As,Cd,Cr,Cu,Pb,Mo Se,Hg,Ni,Ag,Zn)
CONTAINERS:	3 - 40 ml. VOLATILES	1 LITER AMBER GLASS	1 LITER AMBER GLASS	2 - 1 LITER AMBER GLASS	1 LITER POLY	500 ml POLY BOTTLE	250 ml POLY BOTTLE	250 POLY BOTTLE	500 ml POLY BOTTLE
PRESERVATION:	HCl pH <2	HCl pH<2	HCl pH<2	UNPRESERVED	UNPRESERVED	UNPRESERVED	H2SO4 pH <2	NAOH pH <2	HNO3 pH<2
HOLDING TIME:	14 DAYS	14 DAYS	14 DAYS	7 DAYS	7 DAYS	7 DAYS	14 DAYS	14 DAYS	6 MONTHS
METHODS:	EPA 624	EPA 1664A	EPA 1664A SGT HEM	EPA 608 EPA 625 (SVOC'S)	SM 5210B	SM2540D SM4500-H-B	SM 4500-P-E	EPA 335.4	EPA 200.7 EPA 245.1 (Hg)
LAB	ANATEK	ANATEK	ANATEK	ANATEK	SVL	SVL	SVL	SVL	SVL

COMMENTS:

MICA GROUNDWATER SAMPLING FIELD SHEET
2024

DATE: 3/05/24	WELL ID: DW-03	FIELD TEAM: MT, GE, CC
SAMPLE ID: GWDW-003-240305	QA / QC SAMPLE ID: N/A	
FIELD CONDITIONS: Ptly Cldy, 20-38°F, 29.68R, 4 mph		

START TIME: 1030
SAMPLE TIME: 1051
QA / QC SAMPLE TIME: N/A
END TIME: 1104

DEDICATED BLADDER: _____
DISPOSABLE BAILER: _____
PRIVATE DOMESTIC WELL: X

METER AND PURGING INFORMATION:

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH 100	2307/24	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTESTR 11+	13124223	Std. to 700 umhos/cm
TURBIDITY	HACH or APERA	#24957 or #81003	Std to 4.02, 39.4, and 331 NTU
SWL INDICATOR	Slope Ind	4/2018	

TOTAL DEPTH OF WELL: N/A
PACKER DEPTH: N/A
STATIC WATER LEVEL: 4.91'
COLUMN OF WATER: N/A
COLUMN OF WATER ABOVE PACKER: N/A
COLUMN OF WATER BELOW PACKER: N/A

CALCULATIONS:

PACKER INFORMATION:
COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI)

PARAMETERS:	(+/- 10%)	(+/- .1)	(+/- 10%)	
GAL PURGED / TIME	TEMP	pH	CONDUCTIVITY	APPEARANCE
37.5 / 1035	10.0	7.46	328	Clear, odorless
75.0 / 1040	10.7	7.51	321	Clear, odorless
112.5 / 1045	11.0	7.55	319	Clear, odorless
150 / 1050	11.3	7.51	318	Clear, odorless
			TURBIDITY: 0.84	NTU (meas. In field lab)

COMMENTS: Purged well for 20 minutes then sampled.
Turbidity taken 45 min after collection.

SAMPLE MONTH: MARCH, JUNE, SEPTEMBER OR DECEMBER

SAMPLE ID: ~~DUP~~ GWDW-003-240305 SAMPLE TIME: 1051

QA / QC SAMPLE ID: N/A QA / QC SAMPLE TIME: N/A

GROUNDWATER SAMPLES

					MONITORING WELLS	RESIDENTIAL WELLS	
PARAMETERS:	VOLATILES ✓	SVOC'S BEHP ✓	TOC ✓	AMMONIA ✓	Cl / SO4 / TDS / NO3 ALKALINITY	Cl / SO4 / NO3 ALKALINITY ✓	As / Ba / Pb / Mn / Hg V / Zn ✓
CONTAINERS:	3-40 ml VOLATILES	1 Liter AMBER GLASS	40 ml CLEAR GLASS	500 ml. POLY BOTTLE	500 ml POLY BOTTLE	500 ml POLY BOTTLE	500 ml POLY BOTTLE
PRESERVATION:	HCl pH<2	UNPRESERVED	HCL pH<2	H2SO4 pH<2	UNPRESERVED	UNPRESERVED	HNO3 (TOTAL) pH<2
HOLDING TIME:	14 DAYS	7 DAYS TO	28 DAYS	28 DAYS	28 DAYS / 28 DAYS	28 DAYS / 48 HRS	6 MONTHS
METHODS:	8260C	8270	415.1	350.1	300.0 / 300.0 / 160.1 300.0 / 310.1	300.0 / 300.0 300.0 / 310.1	7060A / 6010B / 7470A
LAB	ANATEK	ANATEK	SVL	SVL	SVL	SVL	SVL

LEACHATE SAMPLES

	COMPLIANCE LEACHATE PERMIT MONITORING (LEACHATE GRAVITY LINE)								
PARAMETERS:	VOC'S	FOG	FOG	PESTICIDES SVOC'S	BOD	TSS / pH	TOTAL PHOSPHOROUS	CYANIDE (TOTAL)	METALS (As,Cd,Cr,Cu,Pb,Mo Se,Hg,Ni,Ag,Zn)
CONTAINERS:	3 - 40 ml. VOLATILES	1 LITER AMBER GLASS	1 LITER AMBER GLASS	2 - 1 LITER AMBER GLASS	1 LITER POLY	500 ml POLY BOTTLE	250 ml POLY BOTTLE	250 POLY BOTTLE	500 ml POLY BOTTLE
PRESERVATION:	HCl pH <2	HCl pH<2	HCl pH<2	UNPRESERVED	UNPRESERVED	UNPRESERVED	H2SO4 pH <2	NAOH pH <2	HNO3 pH<2
HOLDING TIME:	14 DAYS	14 DAYS	14 DAYS	7 DAYS	7 DAYS	7 DAYS	14 DAYS	14 DAYS	6 MONTHS
METHODS:	EPA 624	EPA 1664A	EPA 1664A SGT HEM	EPA 608 EPA 625 (SVOC'S)	SM 5210B	SM2540D SM4500-H-B	SM 4500-P-E	EPA 335.4	EPA 200.7 EPA 245.1 (Hg)
LAB	ANATEK	ANATEK	ANATEK	ANATEK	SVL	SVL	SVL	SVL	SVL

COMMENTS:

MICA GROUNDWATER SAMPLING FIELD SHEET
2024

DATE: 3/5/24	WELL ID: MS-4	FIELD TEAM: MT, GF, (CC)
SAMPLE ID: GWMS-004-240305	QA / QC SAMPLE ID: N/A	
FIELD CONDITIONS: Ptly Cldy to Clear, Fog in AM, 20-38°F, 29.68R, *mph		

START TIME: 1230
SAMPLE TIME: 1341
QA / QC SAMPLE TIME: N/A
END TIME: 1355

DEDICATED BLADDER: _____
DISPOSABLE BAILER: X
PRIVATE DOMESTIC WELL: _____

METER AND PURGING INFORMATION:

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH 100	Z307124	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTESTR 11+	1312423	Std. to 700 umhos/cm
TURBIDITY	HACH or APERA	#24957 or #81003	Std to 4.02, 39.4, and 331 NTU
SWL INDICATOR			

TOTAL DEPTH OF WELL: 32.00
PACKER DEPTH: N/A
STATIC WATER LEVEL: 8.22'
COLUMN OF WATER: 23.78
COLUMN OF WATER ABOVE PACKER: N/A
COLUMN OF WATER BELOW PACKER: N/A

CALCULATIONS:

PACKER INFORMATION:
COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI)

PARAMETERS:	(+/- 10%)	(+/- .1)	(+/- 10%)	
GAL PURGED / TIME	TEMP	pH	CONDUCTIVITY	APPEARANCE
2 / 1245	8.0	7.03	398	Clear, odorless
4 / 1255	8.4	6.96	402	Clear, odorless
4.5 / 1340	8.0	6.95	406	Clear, odorless
			TURBIDITY: 1.43	NTU (meas. in field lab)

COMMENTS:
MW-21 WL = 8.58'
MW-18 WL = 18.32
MW-17 WL = 13.33
MS-6 WL = 2.57

Snow Track ATV used to travel to location.
Purged to dry then allowed to recover before sampling.

SAMPLE MONTH: MARCH, JUNE, SEPTEMBER OR DECEMBER

SAMPLE ID: GWMS-004-240305 SAMPLE TIME: _____

QA / QC SAMPLE ID: N/A QA / QC SAMPLE TIME: N/A

GROUNDWATER SAMPLES

	MONITORING WELLS				RESIDENTIAL WELLS		
PARAMETERS:	**VOLATILES** ✓	**SVOC'S BEHP** ✓	**TOC** ✓	**AMMONIA** ✓	**Cl / SO4 / TDS / NO3 ALKALINITY** ✓	**Cl / SO4 / NO3 ALKALINITY**	**As / Ba / Pb / Mn / Hg / V / Zn** ✓
CONTAINERS:	3-40 ml VOLATILES	1 Liter AMBER GLASS	40 ml CLEAR GLASS	500 ml. POLY BOTTLE	500 ml POLY BOTTLE	500 ml POLY BOTTLE	500 ml POLY BOTTLE
PRESERVATION:	HCl pH<2	UNPRESERVED	HCL pH<2	H2SO4 pH<2	UNPRESERVED	UNPRESERVED	HNO3 (TOTAL) pH<2
HOLDING TIME:	14 DAYS	7 DAYS TO	28 DAYS	28 DAYS	28 DAYS / 28 DAYS	28 DAYS / 48 HRS	6 MONTHS
METHODS:	8260C	8270	415.1	350.1	300.0 / 300.0 / 160.1 300.0 / 310.1	300.0 / 300.0 300.0 / 310.1	7060A / 6010B / 7470A
LAB	ANATEK	ANATEK	SVL	SVL	SVL	SVL	SVL

LEACHATE SAMPLES

	COMPLIANCE LEACHATE PERMIT MONITORING (LEACHATE GRAVITY LINE)								
PARAMETERS:	**VOC'S**	**FOG**	**FOG**	**PESTICIDES SVOC'S**	**BOD**	**TSS / pH**	**TOTAL PHOSPHOROUS**	**CYANIDE (TOTAL)**	**METALS (As,Cd,Cr,Cu,Pb,Mo Se,Hg,Ni,Ag,Zn)**
CONTAINERS:	3 - 40 ml. VOLATILES	1 LITER AMBER GLASS	1 LITER AMBER GLASS	2 - 1 LITER AMBER GLASS	1 LITER POLY	500 ml POLY BOTTLE	250 ml POLY BOTTLE	250 POLY BOTTLE	500 ml POLY BOTTLE
PRESERVATION:	HCl pH <2	HCl pH<2	HCl pH<2	UNPRESERVED	UNPRESERVED	UNPRESERVED	H2SO4 pH <2	NAOH pH <2	HNO3 pH<2
HOLDING TIME:	14 DAYS	14 DAYS	14 DAYS	7 DAYS	7 DAYS	7 DAYS	14 DAYS	14 DAYS	6 MONTHS
METHODS:	EPA 624	EPA 1664A	EPA 1664A SGT HEM	EPA 608 EPA 625 (SVOC'S)	SM 5210B	SM2540D SM4500-H-B	SM 4500-P-E	EPA 335.4	EPA 200.7 EPA 245.1 (Hg)
LAB	ANATEK	ANATEK	ANATEK	ANATEK	SVL	SVL	SVL	SVL	SVL

COMMENTS:

MICA GROUNDWATER SAMPLING FIELD SHEET
2024

DATE: 3-5-2024	WELL ID: MW 9	FIELD TEAM: MT, GF, CC
SAMPLE ID: GWMW-009-240305	QA / QC SAMPLE ID: MWS-1-2-240305	
FIELD CONDITIONS: Clear, 29°		

START TIME: 1123
SAMPLE TIME: 1137
QA / QC SAMPLE TIME: 1119
END TIME: 1150

DEDICATED BLADDER: ✓
DISPOSABLE BAILER: _____
PRIVATE DOMESTIC WELL: _____

METER AND PURGING INFORMATION:

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH 100	476432	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTESTR 11+	7810	Std. to 700 umhos/cm
TURBIDITY	HACH or APERA	#24957 or #81003	Std to 4.02, 39.4, and 331 NTU
SWL INDICATOR	Slope Ind	23474	

TOTAL DEPTH OF WELL: 25.18'
PACKER DEPTH: NA
STATIC WATER LEVEL: 4.09'
COLUMN OF WATER: 21.09
COLUMN OF WATER ABOVE PACKER: NA
COLUMN OF WATER BELOW PACKER: NA

CALCULATIONS:

PACKER INFORMATION:
COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI)

PARAMETERS:	(+/- 10%)	(+/- .1)	(+/- 10%)	
GAL PURGED / TIME	TEMP	pH	CONDUCTIVITY	APPEARANCE
4 1128	6.9	6.92	364	Slight tan
8 1131	6.8	7.03	376	Slight tan
12 1135	6.9	7.10	378	Clear
			TURBIDITY: 9.09	NTU (meas. In field lab)

COMMENTS:

SAMPLE MONTH: MARCH, JUNE, SEPTEMBER OR DECEMBER

SAMPLE ID: ~~MW03~~ GWMW-009-240305 SAMPLE TIME: 1137

QA / QC SAMPLE ID: MWS-1-2-240305 QA / QC SAMPLE TIME: 1119

GROUNDWATER SAMPLES

	MONITORING WELLS					RESIDENTIAL WELLS	
PARAMETERS:	VOLATILES	SVOC'S BEHP	TOC	AMMONIA	Cl / SO4 / TDS / NO3 ALKALINITY	Cl / SO4 / NO3 ALKALINITY	As / Ba / Pb / Mn / Hg V / Zn
CONTAINERS:	3-40 ml VOLATILES	1 Liter AMBER GLASS	40 ml CLEAR GLASS	500 ml. POLY BOTTLE	500 ml POLY BOTTLE	500 ml POLY BOTTLE	500 ml POLY BOTTLE
PRESERVATION:	HCl pH<2	UNPRESERVED	HCL pH<2	H2SO4 pH<2	UNPRESERVED	UNPRESERVED	HNO3 (TOTAL) pH<2
HOLDING TIME:	14 DAYS	7 DAYS TO	28 DAYS	28 DAYS	28 DAYS / 28 DAYS	28 DAYS / 48 HRS	6 MONTHS
METHODS:	8260C	8270	415.1	350.1	300.0 / 300.0 / 160.1 300.0 / 310.1	300.0 / 300.0 300.0 / 310.1	7060A / 6010B / 7470A
LAB	ANATEK	ANATEK	SVL	SVL	SVL	SVL	SVL

LEACHATE SAMPLES

	COMPLIANCE LEACHATE PERMIT MONITORING (LEACHATE GRAVITY LINE)								
PARAMETERS:	VOC'S	FOG	FOG	PESTICIDES SVOC'S	BOD	TSS / pH	TOTAL PHOSPHOROUS	CYANIDE (TOTAL)	METALS (As,Cd,Cr,Cu,Pb,Mo Se,Hg,Ni,Ag,Zn)
CONTAINERS:	3 - 40 ml. VOLATILES	1 LITER AMBER GLASS	1 LITER AMBER GLASS	2 - 1 LITER AMBER GLASS	1 LITER POLY	500 ml POLY BOTTLE	250 ml POLY BOTTLE	250 POLY BOTTLE	500 ml POLY BOTTLE
PRESERVATION:	HCl pH <2	HCl pH<2	HCl pH<2	UNPRESERVED	UNPRESERVED	UNPRESERVED	H2SO4 pH <2	NAOH pH <2	HNO3 pH<2
HOLDING TIME:	14 DAYS	14 DAYS	14 DAYS	7 DAYS	7 DAYS	7 DAYS	14 DAYS	14 DAYS	6 MONTHS
METHODS:	EPA 624	EPA 1664A	EPA 1664A SGT HEM	EPA 608 EPA 625 (SVOC'S)	SM 5210B	SM2540D SM4500-H-B	SM 4500-P-E	EPA 335.4	EPA 200.7 EPA 245.1 (Hg)
LAB	ANATEK	ANATEK	ANATEK	ANATEK	SVL	SVL	SVL	SVL	SVL

COMMENTS:

MICA GROUNDWATER SAMPLING FIELD SHEET
2024

DATE: 3-5-2024	WELL ID: MW 10	FIELD TEAM: MT, (GF), CC
SAMPLE ID: GWMW-010-240305	QA / QC SAMPLE ID: NA	
FIELD CONDITIONS: Clear, 29°		

START TIME: 0939
SAMPLE TIME: 1021
QA / QC SAMPLE TIME: NA
END TIME: 1028

DEDICATED BLADDER: ✓
DISPOSABLE BAILER: _____
PRIVATE DOMESTIC WELL: _____

METER AND PURGING INFORMATION:

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH 100	476432	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTESTR 11+	7810	Std. to 700 umhos/cm
TURBIDITY	HACH or (APERA)	#24957 or (#81003)	Std to 4.02, 39.4, and 331 NTU
SWL INDICATOR	SlopeInd	23474	

TOTAL DEPTH OF WELL: 63.18
PACKER DEPTH: 47.0
STATIC WATER LEVEL: 3.32
COLUMN OF WATER: _____
COLUMN OF WATER ABOVE PACKER: 43.68
COLUMN OF WATER BELOW PACKER: 16.18

CALCULATIONS:

PACKER INFORMATION:
COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI) = 54psi

PARAMETERS:		(+/- 10%)	(+/- .1)	(+/- 10%)	
GAL PURGED	TIME	TEMP	pH	CONDUCTIVITY	APPEARANCE
3	0952	8.3	7.50	188.0	clear
6	1007	8.5	7.54	182.0	clear
9	1019	8.5	7.52	186.0	clear
				TURBIDITY: 0.12	NTU (meas. In field lab)

MMENTS:

SAMPLE MONTH: MARCH, JUNE, SEPTEMBER OR DECEMBER

SAMPLE ID: GWMW-010-240305 **SAMPLE TIME:** 1021

QA / QC SAMPLE ID: NA **QA / QC SAMPLE TIME:** NA

GROUNDWATER SAMPLES

					MONITORING WELLS	RESIDENTIAL WELLS	
PARAMETERS:	**VOLATILES**	**SVOC'S BEHP**	**TOC**	**AMMONIA**	**Cl / SO4 / TDS / NO3 ALKALINITY**	**Cl / SO4 / NO3 ALKALINITY**	**As / Ba / Pb / Mn / Hg V / Zn**
CONTAINERS:	3-40 ml VOLATILES	1 Liter AMBER GLASS	40 ml CLEAR GLASS	500 ml. POLY BOTTLE	500 ml POLY BOTTLE	500 ml POLY BOTTLE	500 ml POLY BOTTLE
PRESERVATION:	HCl pH<2	UNPRESERVED	HCL pH<2	H2SO4 pH<2	UNPRESERVED	UNPRESERVED	HNO3 (TOTAL) pH<2
HOLDING TIME:	14 DAYS	7 DAYS TO	28 DAYS	28 DAYS	28 DAYS / 28 DAYS	28 DAYS / 48 HRS	6 MONTHS
METHODS:	8260C	8270	415.1	350.1	300.0 / 300.0 / 160.1 300.0 / 310.1	300.0 / 300.0 300.0 / 310.1	7060A / 6010B / 7470A
LAB	ANATEK	ANATEK	SVL	SVL	SVL	SVL	SVL

LEACHATE SAMPLES

COMPLIANCE LEACHATE PERMIT MONITORING (LEACHATE GRAVITY LINE)									
PARAMETERS:	**VOC'S**	**FOG**	**FOG**	**PESTICIDES SVOC'S**	**BOD**	**TSS / pH**	**TOTAL PHOSPHOROUS**	**CYANIDE (TOTAL)**	**METALS (As,Cd,Cr,Cu,Pb,Mo Se,Hg,Ni,Ag,Zn)**
CONTAINERS:	3 - 40 ml. VOLATILES	1 LITER AMBER GLASS	1 LITER AMBER GLASS	2 - 1 LITER AMBER GLASS	1 LITER POLY	500 ml POLY BOTTLE	250 ml POLY BOTTLE	250 POLY BOTTLE	500 ml POLY BOTTLE
PRESERVATION:	HCl pH <2	HCl pH<2	HCl pH<2	UNPRESERVED	UNPRESERVED	UNPRESERVED	H2SO4 pH <2	NAOH pH <2	HNO3 pH<2
HOLDING TIME:	14 DAYS	14 DAYS	14 DAYS	7 DAYS	7 DAYS	7 DAYS	14 DAYS	14 DAYS	6 MONTHS
METHODS:	EPA 624	EPA 1664A	EPA 1664A SGT HEM	EPA 608 EPA 625 (SVOC'S)	SM 5210B	SM2540D SM4500-H-B	SM 4500-P-E	EPA 335.4	EPA 200.7 EPA 245.1 (Hg)
LAB	ANATEK	ANATEK	ANATEK	ANATEK	SVL	SVL	SVL	SVL	SVL

COMMENTS:

MICA GROUNDWATER SAMPLING FIELD SHEET
2024

DATE: 3/5/2024	WELL ID: MW-13	FIELD TEAM: (MT) GF, CC
SAMPLE ID: GWMW-013-240305	QA / QC SAMPLE ID: NA	
FIELD CONDITIONS: CLEAR | COLD MID UPPER 20S		

START TIME: 1020
SAMPLE TIME: 1200
QA / QC SAMPLE TIME: NA
END TIME: 1204

DEDICATED BLADDER: X
DISPOSABLE BAILER: _____
PRIVATE DOMESTIC WELL: _____

METER AND PURGING INFORMATION:

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH 100	B07121	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTESTR 11+	24B	Std. to 700 umhos/cm
TURBIDITY	HACH or APERA	#24957 or #81003	Std to 4.02, 39.4, and 331 NTU
SWL INDICATOR			

TOTAL DEPTH OF WELL: 84.44'
PACKER DEPTH: 59.0'
STATIC WATER LEVEL: 19.12'
COLUMN OF WATER: _____
COLUMN OF WATER ABOVE PACKER: 39.88'
COLUMN OF WATER BELOW PACKER: _____

CALCULATIONS:
84.44' - 59' = 25.44' x .17 = 4.3 -
4.5 x 3 = 13.5 GAL

59.0' - 19.12' = 39.88' x .433 x 1.25 +
PACKER INFORMATION: 30 = 52 PSI
COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI)

PARAMETERS:	(+/- 10%)	(+/- .1)	(+/- 10%)	
GAL PURGED / TIME	TEMP	pH	CONDUCTIVITY	APPEARANCE
1.5GAL/1050	9.4	6.88	381	CLEAR
9.0 GAL/1120	9.5	6.87	379	CLEAR
13.5GAL/1150	9.4	6.85	377	CLEAR
			TURBIDITY: 0.89	NTU (meas. in field lab)

COMMENTS:

SAMPLE MONTH: (MARCH, JUNE, SEPTEMBER OR DECEMBER)

SAMPLE ID: GWMW-013-240305 SAMPLE TIME: 1200

QA / QC SAMPLE ID: NA QA / QC SAMPLE TIME: _____

GROUNDWATER SAMPLES

					MONITORING WELLS	RESIDENTIAL WELLS	
PARAMETERS:	VOLATILES	SVOC'S BEHP	TOC	AMMONIA	Cl / SO4 / TDS / NO3 ALKALINITY	Cl / SO4 / NO3 ALKALINITY	As / Ba / Pb / Mn / Hg V / Zn
CONTAINERS:	3-40 ml VOLATILES	1 Liter AMBER GLASS	40 ml CLEAR GLASS	500 ml. POLY BOTTLE	500 ml POLY BOTTLE	500 ml POLY BOTTLE	500 ml POLY BOTTLE
PRESERVATION:	HCl pH<2	UNPRESERVED	HCL pH<2	H2SO4 pH<2	UNPRESERVED	UNPRESERVED	HNO3 (TOTAL) pH<2
HOLDING TIME:	14 DAYS	7 DAYS TO	28 DAYS	28 DAYS	28 DAYS / 28 DAYS	28 DAYS / 48 HRS	6 MONTHS
METHODS:	8260C X	8270	415.1 X	350.1 X	300.0 / 300.0 / 160.1 300.0 / 310.1	300.0 / 300.0 300.0 / 310.1	7060A / 6010B / 7470A
LAB	ANATEK	ANATEK	SVL	SVL	SVL X	SVL	SVL X

LEACHATE SAMPLES

	COMPLIANCE LEACHATE PERMIT MONITORING (LEACHATE GRAVITY LINE)								
PARAMETERS:	VOC'S	FOG	FOG	PESTICIDES SVOC'S	BOD	TSS / pH	TOTAL PHOSPHOROUS	CYANIDE (TOTAL)	METALS (As,Cd,Cr,Cu,Pb,Mo Se,Hg,Ni,Ag,Zn)
CONTAINERS:	3 - 40 ml. VOLATILES	1 LITER AMBER GLASS	1 LITER AMBER GLASS	2 - 1 LITER AMBER GLASS	1 LITER POLY	500 ml POLY BOTTLE	250 ml POLY BOTTLE	250 POLY BOTTLE	500 ml POLY BOTTLE
PRESERVATION:	HCl pH <2	HCl pH<2	HCl pH<2	UNPRESERVED	UNPRESERVED	UNPRESERVED	H2SO4 pH <2	NAOH pH <2	HNO3 pH<2
HOLDING TIME:	14 DAYS	14 DAYS	14 DAYS	7 DAYS	7 DAYS	7 DAYS	14 DAYS	14 DAYS	6 MONTHS
METHODS:	EPA 624	EPA 1664A	EPA 1664A SGT HEM	EPA 608 EPA 625 (SVOC'S)	SM 5210B	SM2540D SM4500-H-B	SM 4500-P-E	EPA 335.4	EPA 200.7 EPA 245.1 (Hg)
LAB	ANATEK	ANATEK	ANATEK	ANATEK	SVL	SVL	SVL	SVL	SVL

COMMENTS:

MICA GROUNDWATER SAMPLING FIELD SHEET
2024

DATE: 3/5/2024	WELL ID: MW-14	FIELD TEAM: (MT), GF, CC
SAMPLE ID: GWMW-014-240305	QA / QC SAMPLE ID: NA	
FIELD CONDITIONS: CLEAR COLD MID-20S		

START TIME: 0830
SAMPLE TIME: 0930
QA / QC SAMPLE TIME: NA
END TIME: 0936

DEDICATED BLADDER: X
DISPOSABLE BAILER: _____
PRIVATE DOMESTIC WELL: _____

METER AND PURGING INFORMATION:

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH 100	2307121	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTESTR 11+	248	Std. to 700 umhos/cm
TURBIDITY	HACH or APERA	#24957 or #81003	Std to 4.02, 39.4, and 331 NTU
SWL INDICATOR			

TOTAL DEPTH OF WELL: 55.36
PACKER DEPTH: 39.5
STATIC WATER LEVEL: 0.00 eWH
COLUMN OF WATER: ~~39.5~~
COLUMN OF WATER ABOVE PACKER: 39.5'
COLUMN OF WATER BELOW PACKER: _____

CALCULATIONS:
55.36' - 39.5' = 15.86' x .17 = 2.69 = 3.0 GAL x 3 = 9 GAL

39.5 x .433 x 1.25 + 30 = 52 PSI

PACKER INFORMATION:
COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI)

PARAMETERS:	(+/- 10%)	(+/- .1)	(+/- 10%)	
GAL PURGED / TIME	TEMP	pH	CONDUCTIVITY	APPEARANCE
3 GAL / 0848	8.9	7.09	151	CLEAR
6 GAL / 0909	8.8	7.10	151	CLEAR
9 GAL / 0929	8.8	7.08	151	CLEAR
			TURBIDITY: 0.63	NTU (meas. In field lab)

COMMENTS: MS-7 : 4.39'

SAMPLE MONTH: (MARCH) JUNE, SEPTEMBER OR DECEMBER

SAMPLE ID: GWMW-014-240305 SAMPLE TIME: 0930

QA / QC SAMPLE ID: -NA- QA / QC SAMPLE TIME: _____

GROUNDWATER SAMPLES

					MONITORING WELLS	RESIDENTIAL WELLS	
PARAMETERS:	VOLATILES	SVOC'S BEHP	TOC	AMMONIA	Cl / SO4 / TDS / NO3 ALKALINITY	Cl / SO4 / NO3 ALKALINITY	As / Ba / Pb / Mn / Hg V / Zn
CONTAINERS:	3-40 ml VOLATILES	1 Liter AMBER GLASS	40 ml CLEAR GLASS	500 ml. POLY BOTTLE	500 ml POLY BOTTLE	500 ml POLY BOTTLE	500 ml POLY BOTTLE
PRESERVATION:	HCl pH<2	UNPRESERVED	HCL pH<2	H2SO4 pH<2	UNPRESERVED	UNPRESERVED	HNO3 (TOTAL) pH<2
HOLDING TIME:	14 DAYS	7 DAYS TO	28 DAYS	28 DAYS	28 DAYS / 28 DAYS	28 DAYS / 48 HRS	6 MONTHS
METHODS:	8260C *	8270	415.1 *	350.1 *	300.0 / 300.0 / 160.1 300.0 / 310.1	300.0 / 300.0 300.0 / 310.1	7060A / 6010B / 7470A *
LAB	ANATEK	ANATEK	SVL	SVL	SVL *	SVL	SVL

LEACHATE SAMPLES

	COMPLIANCE LEACHATE PERMIT MONITORING (LEACHATE GRAVITY LINE)								
PARAMETERS:	VOC'S	FOG	FOG	PESTICIDES SVOC'S	BOD	TSS / pH	TOTAL PHOSPHOROUS	CYANIDE (TOTAL)	METALS (As,Cd,Cr,Cu,Pb,Mo Se,Hg,Ni,Ag,Zn)
CONTAINERS:	3 - 40 ml. VOLATILES	1 LITER AMBER GLASS	1 LITER AMBER GLASS	2 - 1 LITER AMBER GLASS	1 LITER POLY	500 ml POLY BOTTLE	250 ml POLY BOTTLE	250 POLY BOTTLE	500 ml POLY BOTTLE
PRESERVATION:	HCl pH <2	HCl pH<2	HCl pH<2	UNPRESERVED	UNPRESERVED	UNPRESERVED	H2SO4 pH <2	NAOH pH <2	HNO3 pH<2
HOLDING TIME:	14 DAYS	14 DAYS	14 DAYS	7 DAYS	7 DAYS	7 DAYS	14 DAYS	14 DAYS	6 MONTHS
METHODS:	EPA 624	EPA 1664A	EPA 1664A SGT HEM	EPA 608 EPA 625 (SVOC'S)	SM 5210B	SM2540D SM4500-H-B	SM 4500-P-E	EPA 335.4	EPA 200.7 EPA 245.1 (Hg)
LAB	ANATEK	ANATEK	ANATEK	ANATEK	SVL	SVL	SVL	SVL	SVL

COMMENTS:

MICA GROUNDWATER SAMPLING FIELD SHEET
2024

DATE: 3/5/2024	WELL ID: MW 19R	FIELD TEAM: MT (GF) CC
SAMPLE ID: GWMW-019R-240305	QA / QC SAMPLE ID:	
FIELD CONDITIONS: mstly cldy 37 in PM ↔ Clear & 27° in AM		

START TIME: 0844
SAMPLE TIME: 1337
QA / QC SAMPLE TIME: NA
END TIME: 1344

DEDICATED BLADDER: ✓
DISPOSABLE BAILER: _____
PRIVATE DOMESTIC WELL: _____

METER AND PURGING INFORMATION:

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH 100	476432	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTESTR 11+	7810	Std. to 700 umhos/cm
TURBIDITY	HACH or APERA	#24957 or #81003	Std to 4.02, 39.4, and 331 NTU
SWL INDICATOR	Slope Ind	23474	

TOTAL DEPTH OF WELL: 85.35
PACKER DEPTH: NA
STATIC WATER LEVEL: 40.44
COLUMN OF WATER: 44.91
COLUMN OF WATER ABOVE PACKER: NA
COLUMN OF WATER BELOW PACKER: NA

CALCULATIONS:

PACKER INFORMATION:
COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI)

PARAMETERS:	(+/- 10%)	(+/- .1)	(+/- 10%)	
GAL PURGED / TIME	TEMP	pH	CONDUCTIVITY	APPEARANCE
2.5 0848	11.4	6.70	232	Clear
5.0 0852	11.1	6.72	235	Clear
7.5 0858	11.1	7.10	237	Clear
9.0 0904	10.8	7.13	238	Clear
			TURBIDITY: 2.67	NTU (meas. In field lab)

COMMENTS: - Purged well to intakes, allowed to recharge most of the day, then sampled. This is a low recovery mw.

SWL @ MW30 - 109.75'

SAMPLE MONTH: MARCH, JUNE, SEPTEMBER OR DECEMBER

SAMPLE ID: GWMW-019R-240305 SAMPLE TIME: 1337

QA / QC SAMPLE ID: NA QA / QC SAMPLE TIME: NA

GROUNDWATER SAMPLES

	MONITORING WELLS				RESIDENTIAL WELLS		
PARAMETERS:	VOLATILES	SVOC'S BEHP	TOC	AMMONIA	Cl / SO4 / TDS / NO3 ALKALINITY	Cl / SO4 / NO3 ALKALINITY	As / Ba / Pb / Mn / Hg V / Zn
CONTAINERS:	3-40 ml VOLATILES	1 Liter AMBER GLASS	40 ml CLEAR GLASS	500 ml. POLY BOTTLE	500 ml POLY BOTTLE	500 ml POLY BOTTLE	500 ml POLY BOTTLE
PRESERVATION:	HCl pH<2	UNPRESERVED	HCL pH<2	H2SO4 pH<2	UNPRESERVED	UNPRESERVED	HNO3 (TOTAL) pH<2
HOLDING TIME:	14 DAYS	7 DAYS TO	28 DAYS	28 DAYS	28 DAYS / 28 DAYS	28 DAYS / 48 HRS	6 MONTHS
METHODS:	8260C	8270	415.1	350.1	300.0 / 300.0 / 160.1 300.0 / 310.1	300.0 / 300.0 300.0 / 310.1	7060A / 6010B / 7470A
LAB	ANATEK	ANATEK	SVL	SVL	SVL	SVL	SVL

LEACHATE SAMPLES

COMPLIANCE LEACHATE PERMIT MONITORING (LEACHATE GRAVITY LINE)									
PARAMETERS:	VOC'S	FOG	FOG	PESTICIDES SVOC'S	BOD	TSS / pH	TOTAL PHOSPHOROUS	CYANIDE (TOTAL)	METALS (As,Cd,Cr,Cu,Pb,Mo Se,Hg,Ni,Ag,Zn)
CONTAINERS:	3 - 40 ml. VOLATILES	1 LITER AMBER GLASS	1 LITER AMBER GLASS	2 - 1 LITER AMBER GLASS	1 LITER POLY	500 ml POLY BOTTLE	250 ml POLY BOTTLE	250 POLY BOTTLE	500 ml POLY BOTTLE
PRESERVATION:	HCl pH <2	HCl pH<2	HCl pH<2	UNPRESERVED	UNPRESERVED	UNPRESERVED	H2SO4 pH <2	NAOH pH <2	HNO3 pH<2
HOLDING TIME:	14 DAYS	14 DAYS	14 DAYS	7 DAYS	7 DAYS	7 DAYS	14 DAYS	14 DAYS	6 MONTHS
METHODS:	EPA 624	EPA 1664A	EPA 1664A SGT HEM	EPA 608 EPA 625 (SVOC'S)	SM 5210B	SM2540D SM4500-H-B	SM 4500-P-E	EPA 335.4	EPA 200.7 EPA 245.1 (Hg)
LAB	ANATEK	ANATEK	ANATEK	ANATEK	SVL	SVL	SVL	SVL	SVL

COMMENTS:

MICA GROUNDWATER SAMPLING FIELD SHEET
2024

DATE: 3/5/2024	WELL ID: MW-20	FIELD TEAM: (MT), GF, CC
...MPLE ID: GWMW-020-240305	QA / QC SAMPLE ID:	
FIELD CONDITIONS: P.C. COLD / UPPER 20S		

START TIME: 1230
SAMPLE TIME: 1415
QA / QC SAMPLE TIME: NA
END TIME: 1430

DEDICATED BLADDER: X
DISPOSABLE BAILER: _____
PRIVATE DOMESTIC WELL: _____

METER AND PURGING INFORMATION:

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH 100	2307121	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTESTR 11+	243	Std. to 700 umhos/cm
TURBIDITY	HACH or APERA	#24957 or #81003	Std to 4.02, 39.4, and 331 NTU
SWL INDICATOR			

...AL DEPTH OF WELL: 141.55'
PACKER DEPTH: 116.0'
STATIC WATER LEVEL: 59.67'
COLUMN OF WATER: 25.55'
COLUMN OF WATER ABOVE PACKER: 56.43'
COLUMN OF WATER BELOW PACKER: _____

CALCULATIONS:
25.55' x .17 = 4.3 = 4.5 x 3 = 13.5 GAL
56.43' x .433 x 1.25 + 30 = 60 PSI
PACKER INFORMATION:
COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI)

PARAMETERS:	(+/- 10%)	(+/- .1)	(+/- 10%)	
GAL PURGED / TIME	TEMP	pH	CONDUCTIVITY	APPEARANCE
4.5 GAL / 1305	9.7	7.22	510	CLEAR → CLOUDY
9.0 GAL / 1335	9.6	7.25	511	CLEAR → CLOUDY
13.5 GAL / 1410	9.7	7.27	512	CLEAR - CLOUDY
			TURBIDITY: 6.01	NTU (meas. In field lab)

(...MENTS:

SAMPLE MONTH: (MARCH), JUNE, SEPTEMBER OR DECEMBER

SAMPLE ID: GWMW-020-240305 SAMPLE TIME: 1415

QA / QC SAMPLE ID: NA QA / QC SAMPLE TIME:

GROUNDWATER SAMPLES

					MONITORING WELLS	RESIDENTIAL WELLS	
PARAMETERS:	VOLATILES	SVOC'S BEHP	TOC	AMMONIA	Cl / SO4 / TDS / NO3 ALKALINITY	Cl / SO4 / NO3 ALKALINITY	As / Ba / Pb / Mn / Hg V / Zn
CONTAINERS:	3-40 ml VOLATILES	1 Liter AMBER GLASS	40 ml CLEAR GLASS	500 ml. POLY BOTTLE	500 ml POLY BOTTLE	500 ml POLY BOTTLE	500 ml POLY BOTTLE
PRESERVATION:	HCl pH<2	UNPRESERVED	HCL pH<2	H2SO4 pH<2	UNPRESERVED	UNPRESERVED	HNO3 (TOTAL) pH<2
HOLDING TIME:	14 DAYS	7 DAYS TO	28 DAYS	28 DAYS	28 DAYS / 28 DAYS	28 DAYS / 48 HRS	6 MONTHS
METHODS:	8260C *	8270	415.1 *	350.1 *	300.0 / 300.0 / 160.1 300.0 / 310.1	300.0 / 300.0 300.0 / 310.1	7060A / 6010B / 7470A
LAB	ANATEK	ANATEK	SVL	SVL	SVL *	SVL	SVL *

LEACHATE SAMPLES

	COMPLIANCE LEACHATE PERMIT MONITORING (LEACHATE GRAVITY LINE)								
PARAMETERS:	VOC'S	FOG	FOG	PESTICIDES SVOC'S	BOD	TSS / pH	TOTAL PHOSPHOROUS	CYANIDE (TOTAL)	METALS (As,Cd,Cr,Cu,Pb,Mo Se,Hg,Ni,Ag,Zn)
CONTAINERS:	3 - 40 ml. VOLATILES	1 LITER AMBER GLASS	1 LITER AMBER GLASS	2 - 1 LITER AMBER GLASS	1 LITER POLY	500 ml POLY BOTTLE	250 ml POLY BOTTLE	250 POLY BOTTLE	500 ml POLY BOTTLE
PRESERVATION:	HCl pH <2	HCl pH<2	HCl pH<2	UNPRESERVED	UNPRESERVED	UNPRESERVED	H2SO4 pH <2	NAOH pH <2	HNO3 pH<2
HOLDING TIME:	14 DAYS	14 DAYS	14 DAYS	7 DAYS	7 DAYS	7 DAYS	14 DAYS	14 DAYS	6 MONTHS
METHODS:	EPA 624	EPA 1664A	EPA 1664A SGT HEM	EPA 608 EPA 625 (SVOC'S)	SM 5210B	SM2540D SM4500-H-B	SM 4500-P-E	EPA 335.4	EPA 200.7 EPA 245.1 (Hg)
LAB	ANATEK	ANATEK	ANATEK	ANATEK	SVL	SVL	SVL	SVL	SVL

COMMENTS:

MICA GROUNDWATER SAMPLING FIELD SHEET
2024

DATE: 3/5/2024	WELL ID: MW29	FIELD TEAM: MT (GF, CC
SAMPLE ID: GWMW-029-240305	QA / QC SAMPLE ID: NA	
FIELD CONDITIONS: Clear, 25°		

START TIME: 0649
SAMPLE TIME: 0741
QA / QC SAMPLE TIME: NA
END TIME: 0741

DEDICATED BLADDER: ✓
DISPOSABLE BAILER: _____
PRIVATE DOMESTIC WELL: _____

METER AND PURGING INFORMATION:

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH 100	470432	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTESTR 11+	7810	Std. to 700 umhos/cm
TURBIDITY	HACH or (APERA)	#24957 or #81003	Std to 4.02, 39.4, and 331 NTU
SWL INDICATOR	Slope Ind	23474	

TOTAL DEPTH OF WELL: 61.50
PACKER DEPTH: ~~NA~~
STATIC WATER LEVEL: 37.31
COLUMN OF WATER: 24.19
COLUMN OF WATER ABOVE PACKER: NA
COLUMN OF WATER BELOW PACKER: NA

CALCULATIONS: 4.1 gal/vol

PACKER INFORMATION:
COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI)

PARAMETERS:	(+/- 10%)	(+/- .1)	(+/- 10%)	
GAL PURGED / TIME	TEMP	pH	CONDUCTIVITY	APPEARANCE
2.5 0656	10.0	6.20	627	Clear
5.0 0704	9.5	6.22	647	Clear
7.5 07 0711	9.1	6.26	653	Clear
			TURBIDITY: 0.20	NTU (meas. In field lab)

COMMENTS: Purged well to intakes then allowed it to recharge prior to sampling. This is a low recovery MW
I had to sample this mw 1st thing this AM. This was due to a very muddy access road. Early the mud crusted up/frozen & when the sun comes out & temps rise it will be impassable.

SAMPLE MONTH: MARCH, JUNE, SEPTEMBER OR DECEMBER

SAMPLE ID: GWMW-029-240305 SAMPLE TIME: _____

QA / QC SAMPLE ID: NA QA / QC SAMPLE TIME: NA

GROUNDWATER SAMPLES

					MONITORING WELLS	RESIDENTIAL WELLS	
PARAMETERS:	VOLATILES	SVOC'S BEHP	TOC	AMMONIA	Cl / SO4 / TDS / NO3 ALKALINITY	Cl / SO4 / NO3 ALKALINITY	As / Ba / Pb / Mn / Hg V / Zn
CONTAINERS:	3-40 ml VOLATILES	1 Liter AMBER GLASS	40 ml CLEAR GLASS	500 ml. POLY BOTTLE	500 ml POLY BOTTLE	500 ml POLY BOTTLE	500 ml POLY BOTTLE
PRESERVATION:	HCl pH<2	UNPRESERVED	HCL pH<2	H2SO4 pH<2	UNPRESERVED	UNPRESERVED	HNO3 (TOTAL) pH<2
HOLDING TIME:	14 DAYS	7 DAYS TO	28 DAYS	28 DAYS	28 DAYS / 28 DAYS	28 DAYS / 48 HRS	6 MONTHS
METHODS:	8260C	8270	415.1	350.1	300.0 / 300.0 / 160.1 300.0 / 310.1	300.0 / 300.0 300.0 / 310.1	7060A / 6010B / 7470A
LAB	ANATEK	ANATEK	SVL	SVL	SVL	SVL	SVL

LEACHATE SAMPLES

COMPLIANCE LEACHATE PERMIT MONITORING (LEACHATE GRAVITY LINE)									
PARAMETERS:	VOC'S	FOG	FOG	PESTICIDES SVOC'S	BOD	TSS / pH	TOTAL PHOSPHOROUS	CYANIDE (TOTAL)	METALS (As,Cd,Cr,Cu,Pb,Mo Se,Hg,Ni,Ag,Zn)
CONTAINERS:	3 - 40 ml. VOLATILES	1 LITER AMBER GLASS	1 LITER AMBER GLASS	2 - 1 LITER AMBER GLASS	1 LITER POLY	500 ml POLY BOTTLE	250 ml POLY BOTTLE	250 POLY BOTTLE	500 ml POLY BOTTLE
PRESERVATION:	HCl pH <2	HCl pH<2	HCl pH<2	UNPRESERVED	UNPRESERVED	UNPRESERVED	H2SO4 pH <2	NAOH pH <2	HNO3 pH<2
HOLDING TIME:	14 DAYS	14 DAYS	14 DAYS	7 DAYS	7 DAYS	7 DAYS	14 DAYS	14 DAYS	6 MONTHS
METHODS:	EPA 624	EPA 1664A	EPA 1664A SGT HEM	EPA 608 EPA 625 (SVOC'S)	SM 5210B	SM2540D SM4500-H-B	SM 4500-P-E	EPA 335.4	EPA 200.7 EPA 245.1 (Hg)
LAB	ANATEK	ANATEK	ANATEK	ANATEK	SVL	SVL	SVL	SVL	SVL

COMMENTS:

MICA GROUNDWATER SAMPLING FIELD SHEET
2024

DATE: 3/5/2024	WELL ID: MW-31	FIELD TEAM: (MT) GF, CC
SAMPLE ID: GWMW-031-240305	QA / QC SAMPLE ID: NA	
FIELD CONDITIONS: CLEAR / COLD MID-20'S		

START TIME: 0940
SAMPLE TIME: 1015
QA / QC SAMPLE TIME: NA
END TIME: 1020

DEDICATED BLADDER: X
DISPOSABLE BAILER: _____
PRIVATE DOMESTIC WELL: _____

METER AND PURGING INFORMATION:

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH 100	2307121	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTESTR 11+	24B	Std. to 700 umhos/cm
TURBIDITY	(HACH) or APERA	#24957 or #81003	Std to 4.02, 39.4, and 331 NTU
SWL INDICATOR			

TOTAL DEPTH OF WELL: 19.0'
PACKER DEPTH: _____
STATIC WATER LEVEL: 4.31'
COLUMN OF WATER: 14.69
COLUMN OF WATER ABOVE PACKER: _____
COLUMN OF WATER BELOW PACKER: _____

CALCULATIONS:
14.69 X .17 = 2.49 = 2.5 GAL X 3 = 7.5 GAL

PACKER INFORMATION:
COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI)

PARAMETERS:	(+/- 10%)	(+/- .1)	(+/- 10%)	
GAL PURGED / TIME	TEMP	pH	CONDUCTIVITY	APPEARANCE
2.5GAL / 0949	7.3	6.69	121	CLEAR
5.0 GAL / 0959	7.2	6.70	122	CLEAR
7.5 GAL / 1009	7.1	6.71	122	CLEAR
			TURBIDITY: 0.89	NTU (meas. In field lab)

MENTS:

SAMPLE MONTH: (MARCH) JUNE, SEPTEMBER OR DECEMBER

SAMPLE ID: GWMW-031-240305 SAMPLE TIME:_____

QA / QC SAMPLE ID: NA QA / QC SAMPLE TIME:_____

GROUNDWATER SAMPLES

					MONITORING WELLS	RESIDENTIAL WELLS	
PARAMETERS:	VOLATILES	SVOC'S BEHP	TOC	AMMONIA	Cl / SO4 / TDS / NO3 ALKALINITY	Cl / SO4 / NO3 ALKALINITY	As / Ba / Pb / Mn / Hg V / Zn
CONTAINERS:	3-40 ml VOLATILES	1 Liter AMBER GLASS	40 ml CLEAR GLASS	500 ml. POLY BOTTLE	500 ml POLY BOTTLE	500 ml POLY BOTTLE	500 ml POLY BOTTLE
PRESERVATION:	HCl pH<2	UNPRESERVED	HCL pH<2	H2SO4 pH<2	UNPRESERVED	UNPRESERVED	HNO3 (TOTAL) pH<2
HOLDING TIME:	14 DAYS	7 DAYS TO	28 DAYS	28 DAYS	28 DAYS / 28 DAYS	28 DAYS / 48 HRS	6 MONTHS
METHODS:	8260C	8270	415.1	350.1	300.0 / 300.0 / 160.1 300.0 / 310.1	300.0 / 300.0 300.0 / 310.1	7060A / 6010B / 7470A
LAB	ANATEK	ANATEK	SVL	SVL	SVL	SVL	SVL

LEACHATE SAMPLES

	COMPLIANCE LEACHATE PERMIT MONITORING (LEACHATE GRAVITY LINE)								
PARAMETERS:	VOC'S	FOG	FOG	PESTICIDES SVOC'S	BOD	TSS / pH	TOTAL PHOSPHOROUS	CYANIDE (TOTAL)	METALS (As,Cd,Cr,Cu,Pb,Mo Se,Hg,Ni,Ag,Zn)
CONTAINERS:	3 - 40 ml. VOLATILES	1 LITER AMBER GLASS	1 LITER AMBER GLASS	2 - 1 LITER AMBER GLASS	1 LITER POLY	500 ml POLY BOTTLE	250 ml POLY BOTTLE	250 POLY BOTTLE	500 ml POLY BOTTLE
PRESERVATION:	HCl pH <2	HCl pH<2	HCl pH<2	UNPRESERVED	UNPRESERVED	UNPRESERVED	H2SO4 pH <2	NAOH pH <2	HNO3 pH<2
HOLDING TIME:	14 DAYS	14 DAYS	14 DAYS	7 DAYS	7 DAYS	7 DAYS	14 DAYS	14 DAYS	6 MONTHS
METHODS:	EPA 624	EPA 1664A	EPA 1664A SGT HEM	EPA 608 EPA 625 (SVOC'S)	SM 5210B	SM2540D SM4500-H-B	SM 4500-P-E	EPA 335.4	EPA 200.7 EPA 245.1 (Hg)
LAB	ANATEK	ANATEK	ANATEK	ANATEK	SVL	SVL	SVL	SVL	SVL

COMMENTS:

MICA GROUNDWATER SAMPLING FIELD SHEET
2024

DATE: 3/6/2024	WELL ID: MS 5	FIELD TEAM: MT, GF, CC
SAMPLE ID: GWMS-005-240306	QA / QC SAMPLE ID: ~~—~~ MS/MSD here	
FIELD CONDITIONS: mstly cldy, 26°		

START TIME: 0843
SAMPLE TIME: 0929
QA / QC SAMPLE TIME: NA
END TIME: 0944

DEDICATED BLADDER: ✓
DISPOSABLE BAILER: _____
PRIVATE DOMESTIC WELL: _____

METER AND PURGING INFORMATION:

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH 100	476432	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTESTR 11+	7810	Std. to 700 umhos/cm
TURBIDITY	HACH or APERA	#24957 or #81003	Std to 4.02, 39.4, and 331 NTU
SWL INDICATOR	Slope Ind	23474	

TOTAL DEPTH OF WELL: 53.0
PACKER DEPTH: NA
STATIC WATER LEVEL: 15.90
COLUMN OF WATER: 37.10 *0.17 = 6.3 use 6.5
COLUMN OF WATER ABOVE PACKER: NA
COLUMN OF WATER BELOW PACKER: NA

CALCULATIONS:

PACKER INFORMATION:
COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI)

PARAMETERS:	(+/- 10%)	(+/- .1)	(+/- 10%)	
GAL PURGED / TIME	TEMP	pH	CONDUCTIVITY	APPEARANCE
6.5 0853	10.5	6.66	262	Clear
13.0 0908	10.7	6.69	269	Clear
19.5 0929	10.6	6.74	270	Clear
			TURBIDITY: 1.0	NTU (meas. In field lab)

COMMENTS:

MS/MSD Here

SAMPLE MONTH: MARCH, JUNE, SEPTEMBER OR DECEMBER

SAMPLE ID: GWMS-005-240306 SAMPLE TIME: 0929

QA / QC SAMPLE ID: NA QA / QC SAMPLE TIME: NA

GROUNDWATER SAMPLES

					MONITORING WELLS	RESIDENTIAL WELLS	
PARAMETERS:	VOLATILES	SVOC'S BEHP	TOC	AMMONIA	Cl / SO4 / TDS / NO3 ALKALINITY	Cl / SO4 / NO3 ALKALINITY	As / Ba / Pb / Mn / Hg V / Zn
CONTAINERS:	3-40 ml VOLATILES	1 Liter AMBER GLASS	40 ml CLEAR GLASS	500 ml. POLY BOTTLE	500 ml POLY BOTTLE	500 ml POLY BOTTLE	500 ml POLY BOTTLE
PRESERVATION:	HCl pH<2	UNPRESERVED	HCL pH<2	H2SO4 pH<2	UNPRESERVED	UNPRESERVED	HNO3 (TOTAL) pH<2
HOLDING TIME:	14 DAYS	7 DAYS TO	28 DAYS	28 DAYS	28 DAYS / 28 DAYS	28 DAYS / 48 HRS	6 MONTHS
METHODS:	8260C	8270	415.1	350.1	300.0 / 300.0 / 160.1 300.0 / 310.1	300.0 / 300.0 300.0 / 310.1	7060A / 6010B / 7470A
LAB	ANATEK	ANATEK	SVL	SVL	SVL	SVL	SVL

LEACHATE SAMPLES

COMPLIANCE LEACHATE PERMIT MONITORING (LEACHATE GRAVITY LINE)									
PARAMETERS:	VOC'S	FOG	FOG	PESTICIDES SVOC'S	BOD	TSS / pH	TOTAL PHOSPHOROUS	CYANIDE (TOTAL)	METALS (As,Cd,Cr,Cu,Pb,Mo Se,Hg,Ni,Ag,Zn)
CONTAINERS:	3 - 40 ml. VOLATILES	1 LITER AMBER GLASS	1 LITER AMBER GLASS	2 - 1 LITER AMBER GLASS	1 LITER POLY	500 ml POLY BOTTLE	250 ml POLY BOTTLE	250 POLY BOTTLE	500 ml POLY BOTTLE
PRESERVATION:	HCl pH <2	HCl pH<2	HCl pH<2	UNPRESERVED	UNPRESERVED	UNPRESERVED	H2SO4 pH <2	NAOH pH <2	HNO3 pH<2
HOLDING TIME:	14 DAYS	14 DAYS	14 DAYS	7 DAYS	7 DAYS	7 DAYS	14 DAYS	14 DAYS	6 MONTHS
METHODS:	EPA 624	EPA 1664A	EPA 1664A SGT HEM	EPA 608 EPA 625 (SVOC'S)	SM 5210B	SM2540D SM4500-H-B	SM 4500-P-E	EPA 335.4	EPA 200.7 EPA 245.1 (Hg)
LAB	ANATEK	ANATEK	ANATEK	ANATEK	SVL	SVL	SVL	SVL	SVL

COMMENTS:

MICA GROUNDWATER SAMPLING FIELD SHEET
2023

DATE: 03/06/24	WELL ID: MW-16	FIELD TEAM: MT, GF, (CC)
SAMPLE ID: GWMW-016-240306	QA / QC SAMPLE ID: N/A	
FIELD CONDITIONS: Clear to Cloudy, 19-37°F, 29.80R		

START TIME: 0840
SAMPLE TIME: 0941
QA / QC SAMPLE TIME: N/A
END TIME: 0950

DEDICATED BLADDER: X
DISPOSABLE BAILER: _____
PRIVATE DOMESTIC WELL: _____

METER AND PURGING INFORMATION:

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH 100	2307124	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTESTR 11+	1312423	Std. to 700 umhos/cm
TURBIDITY	Hach 2100P	#020100024957	Std to 4.02, 39.4, and 331 NTU
SWL INDICATOR	Slope Ind.	412018	

TOTAL DEPTH OF WELL: 93.42
PACKER DEPTH: 73.00
STATIC WATER LEVEL: 20.04
COLUMN OF WATER: 73.38
COLUMN OF WATER ABOVE PACKER: 52.96
COLUMN OF WATER BELOW PACKER: 20.42

CALCULATIONS:
20.42(0.17) = 3.47 ⇒ 3.5 gal
(52.96 x 0.433 x 1.25) + 30 = 58.7 ⇒ 60 psi

PACKER INFORMATION:
COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI)

PARAMETERS:	(+/- 10%)	(+/- .1)	(+/- 10%)	
GAL PURGED / TIME	TEMP	pH	CONDUCTIVITY	APPEARANCE
3.5 / 0855	9.2	6.97	2050	Orange Tint, odor
7.0 / 0917	9.2	6.98	2080	Orange Tint, odor
10.5 / 0934	9.3	6.96	2090	Orange Tint, odor
			TURBIDITY: 0.52	NTU (meas. In field lab)

WL @ MS-2 = 8.65'

COMMENTS: Bubbles in discharge hose during sampling.

SAMPLE MONTH: MARCH, JUNE, SEPTEMBER OR DECEMBER

SAMPLE ID: GWMW-016-240306 **SAMPLE TIME:** 0941

QA / QC SAMPLE ID: N/A **QA / QC SAMPLE TIME:** N/A

GROUNDWATER SAMPLES

	MONITORING WELLS				RESIDENTIAL WELLS		
PARAMETERS:	**VOLATILES** ✓	**SVOC'S BEHP**	**TOC** ✓	**AMMONIA** ✓	**Cl / SO4 / TDS / NO3 ALKALINITY** ✓	**Cl / SO4 / NO3 ALKALINITY**	**As / Ba / Pb / Mn / Hg V / Zn** ✓
CONTAINERS:	3-40 ml VOLATILES	1 Liter AMBER GLASS	40 ml CLEAR GLASS	500 ml. POLY BOTTLE	500 ml POLY BOTTLE	500 ml POLY BOTTLE	500 ml POLY BOTTLE
PRESERVATION:	HCl pH<2	UNPRESERVED	HCL pH<2	H2SO4 pH<2	UNPRESERVED	UNPRESERVED	HNO3 (TOTAL) pH<2
HOLDING TIME:	14 DAYS	7 DAYS TO	28 DAYS	28 DAYS	28 DAYS / 28 DAYS	28 DAYS / 48 HRS	6 MONTHS
METHODS:	8260C	8270	415.1	350.1	300.0 / 300.0 / 160.1 300.0 / 310.1	300.0 / 300.0 300.0 / 310.1	7060A / 6010B / 7470A
LAB	ANATEK	ANATEK	SVL	SVL	SVL	SVL	SVL

LEACHATE SAMPLES

	COMPLIANCE LEACHATE PERMIT MONITORING (LEACHATE GRAVITY LINE)								
PARAMETERS:	**VOC'S**	**FOG**	**FOG**	**PESTICIDES SVOC'S**	**BOD**	**TSS / pH**	**TOTAL PHOSPHOROUS**	**CYANIDE (TOTAL)**	**METALS (As,Cd,Cr,Cu,Pb,Mo Se,Hg,Ni,Ag,Zn)**
CONTAINERS:	3 - 40 ml. VOLATILES	1 LITER AMBER GLASS	1 LITER AMBER GLASS	2 - 1 LITER AMBER GLASS	1 LITER POLY	500 ml POLY BOTTLE	250 ml POLY BOTTLE	250 POLY BOTTLE	500 ml POLY BOTTLE
PRESERVATION:	HCl pH <2	HCl pH<2	HCl pH<2	UNPRESERVED	UNPRESERVED	UNPRESERVED	H2SO4 pH <2	NAOH pH <2	HNO3 pH<2
HOLDING TIME:	14 DAYS	14 DAYS	14 DAYS	7 DAYS	7 DAYS	7 DAYS	14 DAYS	14 DAYS	6 MONTHS
METHODS:	EPA 624	EPA 1664A	EPA 1664A SGT HEM	EPA 608 EPA 625 (SVOC'S)	SM 5210B	SM2540D SM4500-H-B	SM 4500-P-E	EPA 335.4	EPA 200.7 EPA 245.1 (Hg)
LAB	ANATEK	ANATEK	ANATEK	ANATEK	SVL	SVL	SVL	SVL	SVL

COMMENTS:

MICA GROUNDWATER SAMPLING FIELD SHEET
2024

DATE: 3-6-2024	WELL ID: MW 23	FIELD TEAM: MT (GF) CC
SAMPLE ID: GWMW-023-240306	QA / QC SAMPLE ID: MWS-1-1-240306	
FIELD CONDITIONS: mstly cldy, 33° → To ptly cldy		

START TIME: 1055
SAMPLE TIME: 1143
QA / QC SAMPLE TIME: 1113
END TIME: 1152

DEDICATED BLADDER: ✓
DISPOSABLE BAILER: _____
PRIVATE DOMESTIC WELL: _____

METER AND PURGING INFORMATION:

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH 100	476432	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTESTR 11+	7810	Std. to 700 umhos/cm
TURBIDITY	HACH or APERA	#24957 or #81003	Std to 4.02, 39.4, and 331 NTU
SWL INDICATOR	Slope Ind	23474	

TOTAL DEPTH OF WELL: 58.09
PACKER DEPTH: NA
STATIC WATER LEVEL: 20.35
COLUMN OF WATER: 37.74 * 0.17 = 6.4 use 6.5
COLUMN OF WATER ABOVE PACKER: NA
COLUMN OF WATER BELOW PACKER: NA

CALCULATIONS:

PACKER INFORMATION:
COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI)

PARAMETERS:	(+/- 10%)	(+/- .1)	(+/- 10%)	
GAL PURGED / TIME	TEMP	pH	CONDUCTIVITY	APPEARANCE
6.5 1103	10.6	7.26	641	Clear
13.0 1115	10.7	7.12	652	Clear
19.5 1141	10.8	7.19	651	Clear
			TURBIDITY: 2.10	NTU (meas. In field lab)

COMMENTS:

SAMPLE MONTH: (MARCH), JUNE, SEPTEMBER OR DECEMBER

SAMPLE ID: BWMW-023-240306 SAMPLE TIME: 1143

QA / QC SAMPLE ID: MWS-1-1-240306 QA / QC SAMPLE TIME: 1113

GROUNDWATER SAMPLES

	MONITORING WELLS RESIDENTIAL WELLS						
PARAMETERS:	VOLATILES	SVOC'S BEHP	TOC	AMMONIA	Cl / SO4 / TDS / NO3 ALKALINITY	Cl / SO4 / NO3 ALKALINITY	As / Ba / Pb / Mn / Hg V / Zn
CONTAINERS:	3-40 ml VOLATILES	1 Liter AMBER GLASS	40 ml CLEAR GLASS	500 ml. POLY BOTTLE	500 ml POLY BOTTLE	500 ml POLY BOTTLE	500 ml POLY BOTTLE
PRESERVATION:	HCl pH<2	UNPRESERVED	HCL pH<2	H2SO4 pH<2	UNPRESERVED	UNPRESERVED	HNO3 (TOTAL) pH<2
HOLDING TIME:	14 DAYS	7 DAYS TO	28 DAYS	28 DAYS	28 DAYS / 28 DAYS	28 DAYS / 48 HRS	6 MONTHS
METHODS:	8260C	8270	415.1	350.1	300.0 / 300.0 / 160.1 300.0 / 310.1	300.0 / 300.0 300.0 / 310.1	7060A / 6010B / 7470A
LAB	ANATEK	ANATEK	SVL	SVL	SVL	SVL	SVL

LEACHATE SAMPLES

	COMPLIANCE LEACHATE PERMIT MONITORING (LEACHATE GRAVITY LINE)								
PARAMETERS:	VOC'S	FOG	FOG	PESTICIDES SVOC'S	BOD	TSS / pH	TOTAL PHOSPHOROUS	CYANIDE (TOTAL)	METALS (As,Cd,Cr,Cu,Pb,Mo Se,Hg,Ni,Ag,Zn)
CONTAINERS:	3 - 40 ml. VOLATILES	1 LITER AMBER GLASS	1 LITER AMBER GLASS	2 - 1 LITER AMBER GLASS	1 LITER POLY	500 ml POLY BOTTLE	250 ml POLY BOTTLE	250 POLY BOTTLE	500 ml POLY BOTTLE
PRESERVATION:	HCl pH <2	HCl pH<2	HCl pH<2	UNPRESERVED	UNPRESERVED	UNPRESERVED	H2SO4 pH <2	NAOH pH <2	HNO3 pH<2
HOLDING TIME:	14 DAYS	14 DAYS	14 DAYS	7 DAYS	7 DAYS	7 DAYS	14 DAYS	14 DAYS	6 MONTHS
METHODS:	EPA 624	EPA 1664A	EPA 1664A SGT HEM	EPA 608 EPA 625 (SVOC'S)	SM 5210B	SM2540D SM4500-H-B	SM 4500-P-E	EPA 335.4	EPA 200.7 EPA 245.1 (Hg)
LAB	ANATEK	ANATEK	ANATEK	ANATEK	SVL	SVL	SVL	SVL	SVL

COMMENTS:

APPENDIX C: GROUNDWATER SAMPLING LABORATORY RESULTS

One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
www.svl.net

Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X4C0059**
Reported: 21-Mar-24 17:34

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GWDW-001-240305	X4C0059-01	Ground Water	05-Mar-24 08:41	MT/GF/CC	06-Mar-2024	
GWDW-003-240305	X4C0059-02	Ground Water	05-Mar-24 10:51	MT/GF/CC	06-Mar-2024	
GWMS-004-240305	X4C0059-03	Ground Water	05-Mar-24 13:41	MT/GF/CC	06-Mar-2024	
GWMW-009-240305	X4C0059-04	Ground Water	05-Mar-24 11:37	MT/GF/CC	06-Mar-2024	
GWMW-010-240305	X4C0059-05	Ground Water	05-Mar-24 10:21	MT/GF/CC	06-Mar-2024	
GWMW-013-240305	X4C0059-06	Ground Water	05-Mar-24 12:00	MT/GF/CC	06-Mar-2024	
GWMW-014-240305	X4C0059-07	Ground Water	05-Mar-24 09:30	MT/GF/CC	06-Mar-2024	
GWMW-019R-240305	X4C0059-08	Ground Water	05-Mar-24 13:37	MT/GF/CC	06-Mar-2024	
GWMW-020-240305	X4C0059-09	Ground Water	05-Mar-24 14:15	MT/GF/CC	06-Mar-2024	
GWMW-029-240305	X4C0059-10	Ground Water	05-Mar-24 07:41	MT/GF/CC	06-Mar-2024	
GWMW-031-240305	X4C0059-11	Ground Water	05-Mar-24 10:15	MT/GF/CC	06-Mar-2024	
MWS-1-2-240305	X4C0059-12	Ground Water	05-Mar-24 11:19	MT/GF/CC	06-Mar-2024	

Sample preparation is defined by the client as per their Data Quality Objectives.
This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.
Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.
The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X4C0059**
Reported: 21-Mar-24 17:34

Client Sample ID: **GWDW-001-240305**
SVL Sample ID: **X4C0059-01 (Ground Water)**

Sampled: 05-Mar-24 08:41
Received: 06-Mar-24
Sampled By: MT/GF/CC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.000200	mg/L	0.000200	0.000093		X412085	MAC	03/20/24 16:32	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.0181	mg/L	0.0040	0.0019		X411158	NMS	03/20/24 12:47	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X411158	NMS	03/20/24 12:47	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X411158	NMS	03/20/24 12:47	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X411158	NMS	03/20/24 12:47	
EPA 6010D	**Zinc**	0.0604	mg/L	0.0100	0.0054		X411158	NMS	03/20/24 12:47	
EPA 6020B	**Arsenic**	0.00122	mg/L	0.00100	0.00021		X411164	SMU	03/15/24 14:50	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X411067	DD	03/13/24 11:00	
SM 2320 B	**Total Alkalinity**	141	mg/L as CaCO3	1.0			X410250	MWD	03/12/24 11:12	
SM 2320 B	**Bicarbonate**	141	mg/L as CaCO3	1.0			X410250	MWD	03/12/24 11:12	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X410250	MWD	03/12/24 11:12	
SM 5310B	Total Organic Carbon	< 1.00	mg/L	1.00	0.38		X410125	KAG	03/13/24 22:38	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	16.4	mg/L	2.00	0.22	10	X410147	KAG	03/06/24 16:13	D2
EPA 300.0	**Nitrate as N**	0.260	mg/L	0.050	0.013		X410147	KAG	03/06/24 15:55	
EPA 300.0	**Sulfate as SO4**	10.9	mg/L	0.30	0.18		X410147	KAG	03/06/24 15:55	

This data has been reviewed for accuracy and has been authorized for release.

Dave Tryon
Project Manager

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X4C0059**
Reported: 21-Mar-24 17:34

Client Sample ID: **GWDW-003-240305**
SVL Sample ID: **X4C0059-02 (Ground Water)**

Sampled: 05-Mar-24 10:51
Received: 06-Mar-24
Sampled By: MT/GF/CC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.000200	mg/L	0.000200	0.000093		X412085	MAC	03/20/24 16:34	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.0280	mg/L	0.0040	0.0019		X411158	NMS	03/20/24 12:51	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X411158	NMS	03/20/24 12:51	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X411158	NMS	03/20/24 12:51	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X411158	NMS	03/20/24 12:51	
EPA 6010D	**Zinc**	0.108	mg/L	0.0100	0.0054		X411158	NMS	03/20/24 12:51	
EPA 6020B	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X411164	SMU	03/15/24 15:02	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X411067	DD	03/13/24 11:02	
SM 2320 B	**Total Alkalinity**	179	mg/L as CaCO3	1.0			X410250	MWD	03/12/24 11:18	
SM 2320 B	**Bicarbonate**	179	mg/L as CaCO3	1.0			X410250	MWD	03/12/24 11:18	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X410250	MWD	03/12/24 11:18	
SM 5310B	Total Organic Carbon	< 1.00	mg/L	1.00	0.38		X410125	KAG	03/13/24 22:57	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	0.85	mg/L	0.20	0.02		X410147	KAG	03/06/24 19:32	
EPA 300.0	**Nitrate as N**	1.53	mg/L	0.050	0.013		X410147	KAG	03/06/24 19:32	
EPA 300.0	**Sulfate as SO4**	1.35	mg/L	0.30	0.18		X410147	KAG	03/06/24 19:32	

This data has been reviewed for accuracy and has been authorized for release.

Dave Tryon
Project Manager

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X4C0059**
Reported: 21-Mar-24 17:34

Client Sample ID: **GWMS-004-240305**
SVL Sample ID: **X4C0059-03 (Ground Water)**

Sampled: 05-Mar-24 13:41
Received: 06-Mar-24
Sampled By: MT/GF/CC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.000200	mg/L	0.000200	0.000093		X412085	MAC	03/20/24 16:36	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.0901	mg/L	0.0040	0.0019		X411158	NMS	03/20/24 12:54	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X411158	NMS	03/20/24 12:54	
EPA 6010D	**Manganese**	0.0082	mg/L	0.0080	0.0034		X411158	NMS	03/20/24 12:54	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X411158	NMS	03/20/24 12:54	
EPA 6010D	Zinc	< 0.0100	mg/L	0.0100	0.0054		X411158	NMS	03/20/24 12:54	
EPA 6020B	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X411164	SMU	03/15/24 15:05	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X411067	DD	03/13/24 11:04	
SM 2320 B	**Total Alkalinity**	181	mg/L as CaCO3	1.0			X410250	MWD	03/12/24 11:23	
SM 2320 B	**Bicarbonate**	181	mg/L as CaCO3	1.0			X410250	MWD	03/12/24 11:23	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X410250	MWD	03/12/24 11:23	
SM 2540 C	**Total Diss. Solids**	278	mg/L	10			X410151	TJL	03/11/24 14:40	
SM 5310B	**Total Organic Carbon**	1.14	mg/L	1.00	0.38		X410125	KAG	03/13/24 23:15	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	0.68	mg/L	0.20	0.02		X410147	KAG	03/06/24 20:08	
EPA 300.0	**Nitrate as N**	10.6	mg/L	0.500	0.130	10	X410147	KAG	03/06/24 20:26	D2
EPA 300.0	**Sulfate as SO4**	10.4	mg/L	0.30	0.18		X410147	KAG	03/06/24 20:08	

This data has been reviewed for accuracy and has been authorized for release.

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X4C0059**
Reported: 21-Mar-24 17:34

Client Sample ID: **GWMW-009-240305**
SVL Sample ID: **X4C0059-04 (Ground Water)**

Sampled: 05-Mar-24 11:37
Received: 06-Mar-24
Sampled By: MT/GF/CC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.000200	mg/L	0.000200	0.000093		X412085	MAC	03/20/24 16:38	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.0858	mg/L	0.0040	0.0019		X411158	NMS	03/20/24 12:58	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X411158	NMS	03/20/24 12:58	
EPA 6010D	**Manganese**	0.297	mg/L	0.0080	0.0034		X411158	NMS	03/20/24 12:58	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X411158	NMS	03/20/24 12:58	
EPA 6010D	Zinc	< 0.0100	mg/L	0.0100	0.0054		X411158	NMS	03/20/24 12:58	
EPA 6020B	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X411164	SMU	03/15/24 15:08	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X411067	DD	03/13/24 11:14	
SM 2320 B	**Total Alkalinity**	182	mg/L as CaCO3	1.0			X410250	MWD	03/12/24 11:29	
SM 2320 B	**Bicarbonate**	182	mg/L as CaCO3	1.0			X410250	MWD	03/12/24 11:29	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X410250	MWD	03/12/24 11:29	
SM 2540 C	**Total Diss. Solids**	214	mg/L	10			X410151	TJL	03/11/24 14:40	
SM 5310B	**Total Organic Carbon**	2.09	mg/L	1.00	0.38		X410125	KAG	03/13/24 23:34	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	7.98	mg/L	0.20	0.02		X410147	KAG	03/06/24 21:20	
EPA 300.0	**Nitrate as N**	0.086	mg/L	0.050	0.013		X410147	KAG	03/06/24 21:20	
EPA 300.0	**Sulfate as SO4**	3.10	mg/L	0.30	0.18		X410147	KAG	03/06/24 21:20	

This data has been reviewed for accuracy and has been authorized for release.

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X4C0059**
Reported: 21-Mar-24 17:34

Client Sample ID: **GWMW-010-240305**
SVL Sample ID: **X4C0059-05 (Ground Water)**

Sampled: 05-Mar-24 10:21
Received: 06-Mar-24
Sampled By: MT/GF/CC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.000200	mg/L	0.000200	0.000093		X412085	MAC	03/20/24 16:40	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.0481	mg/L	0.0040	0.0019		X411158	NMS	03/20/24 13:02	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X411158	NMS	03/20/24 13:02	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X411158	NMS	03/20/24 13:02	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X411158	NMS	03/20/24 13:02	
EPA 6010D	Zinc	< 0.0100	mg/L	0.0100	0.0054		X411158	NMS	03/20/24 13:02	
EPA 6020B	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X411164	SMU	03/15/24 15:11	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X411067	DD	03/13/24 11:16	
SM 2320 B	**Total Alkalinity**	97.4	mg/L as CaCO3	1.0			X410250	MWD	03/12/24 11:34	
SM 2320 B	**Bicarbonate**	97.4	mg/L as CaCO3	1.0			X410250	MWD	03/12/24 11:34	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X410250	MWD	03/12/24 11:34	
SM 2540 C	**Total Diss. Solids**	134	mg/L	10			X410151	TJL	03/11/24 14:40	
SM 5310B	Total Organic Carbon	< 1.00	mg/L	1.00	0.38		X410125	KAG	03/13/24 23:52	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	0.55	mg/L	0.20	0.02		X410147	KAG	03/06/24 21:56	
EPA 300.0	**Nitrate as N**	0.248	mg/L	0.050	0.013		X410147	KAG	03/06/24 21:56	
EPA 300.0	**Sulfate as SO4**	0.94	mg/L	0.30	0.18		X410147	KAG	03/06/24 21:56	

This data has been reviewed for accuracy and has been authorized for release.

Dave Tryon
Project Manager

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X4C0059**
Reported: 21-Mar-24 17:34

Client Sample ID: **GWMW-013-240305**
SVL Sample ID: **X4C0059-06 (Ground Water)**

Sampled: 05-Mar-24 12:00
Received: 06-Mar-24
Sampled By: MT/GF/CC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.000200	mg/L	0.000200	0.000093		X412085	MAC	03/20/24 16:42	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.0473	mg/L	0.0040	0.0019		X411158	NMS	03/20/24 13:15	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X411158	NMS	03/20/24 13:15	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X411158	NMS	03/20/24 13:15	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X411158	NMS	03/20/24 13:15	
EPA 6010D	Zinc	< 0.0100	mg/L	0.0100	0.0054		X411158	NMS	03/20/24 13:15	
EPA 6020B	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X411164	SMU	03/15/24 15:21	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X411067	DD	03/13/24 11:18	
SM 2320 B	**Total Alkalinity**	185	mg/L as CaCO3	1.0			X410250	MWD	03/12/24 11:40	
SM 2320 B	**Bicarbonate**	185	mg/L as CaCO3	1.0			X410250	MWD	03/12/24 11:40	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X410250	MWD	03/12/24 11:40	
SM 2540 C	**Total Diss. Solids**	257	mg/L	10			X410151	TJL	03/11/24 14:40	
SM 5310B	Total Organic Carbon	< 1.00	mg/L	1.00	0.38		X410125	KAG	03/14/24 00:11	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	8.17	mg/L	0.20	0.02		X410147	KAG	03/06/24 22:32	
EPA 300.0	**Nitrate as N**	0.483	mg/L	0.050	0.013		X410147	KAG	03/06/24 22:32	
EPA 300.0	**Sulfate as SO4**	3.58	mg/L	0.30	0.18		X410147	KAG	03/06/24 22:32	

This data has been reviewed for accuracy and has been authorized for release.

Dave Tryon
Project Manager

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X4C0059**
Reported: 21-Mar-24 17:34

Client Sample ID: **GWMW-014-240305**
SVL Sample ID: **X4C0059-07 (Ground Water)**

Sampled: 05-Mar-24 09:30
Received: 06-Mar-24
Sampled By: MT/GF/CC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.000200	mg/L	0.000200	0.000093		X412085	MAC	03/20/24 16:49	
Metals (Total Recoverable)										
EPA 6010D	Barium	< 0.0040	mg/L	0.0040	0.0019		X411158	NMS	03/20/24 13:19	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X411158	NMS	03/20/24 13:19	
EPA 6010D	**Manganese**	0.250	mg/L	0.0080	0.0034		X411158	NMS	03/20/24 13:19	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X411158	NMS	03/20/24 13:19	
EPA 6010D	Zinc	< 0.0100	mg/L	0.0100	0.0054		X411158	NMS	03/20/24 13:19	
EPA 6020B	**Arsenic**	0.00224	mg/L	0.00100	0.00021		X411164	SMU	03/15/24 15:25	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X411067	DD	03/13/24 11:20	
SM 2320 B	**Total Alkalinity**	77.0	mg/L as CaCO3	1.0			X410250	MWD	03/12/24 11:53	
SM 2320 B	**Bicarbonate**	77.0	mg/L as CaCO3	1.0			X410250	MWD	03/12/24 11:53	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X410250	MWD	03/12/24 11:53	
SM 2540 C	**Total Diss. Solids**	142	mg/L	10			X410151	TJL	03/11/24 14:40	
SM 5310B	Total Organic Carbon	< 1.00	mg/L	1.00	0.38		X410125	KAG	03/14/24 00:29	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	0.87	mg/L	0.20	0.02		X410147	KAG	03/06/24 23:08	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X410147	KAG	03/06/24 23:08	
EPA 300.0	**Sulfate as SO4**	9.35	mg/L	0.30	0.18		X410147	KAG	03/06/24 23:08	

This data has been reviewed for accuracy and has been authorized for release.

Dave Tryon
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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X4C0059**
Reported: 21-Mar-24 17:34

Client Sample ID: **GWMW-019R-240305**
SVL Sample ID: **X4C0059-08 (Ground Water)**

Sampled: 05-Mar-24 13:37
Received: 06-Mar-24
Sampled By: MT/GF/CC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.000200	mg/L	0.000200	0.000093		X412085	MAC	03/20/24 16:51	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.0332	mg/L	0.0040	0.0019		X411158	NMS	03/20/24 13:22	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X411158	NMS	03/20/24 13:22	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X411158	NMS	03/20/24 13:22	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X411158	NMS	03/20/24 13:22	
EPA 6010D	Zinc	< 0.0100	mg/L	0.0100	0.0054		X411158	NMS	03/20/24 13:22	
EPA 6020B	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X411164	SMU	03/15/24 15:28	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X411067	DD	03/13/24 11:22	
SM 2320 B	**Total Alkalinity**	102	mg/L as CaCO3	1.0			X410250	MWD	03/12/24 11:59	
SM 2320 B	**Bicarbonate**	102	mg/L as CaCO3	1.0			X410250	MWD	03/12/24 11:59	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X410250	MWD	03/12/24 11:59	
SM 2540 C	**Total Diss. Solids**	149	mg/L	10			X410151	TJL	03/11/24 14:40	
SM 5310B	**Total Organic Carbon**	1.13	mg/L	1.00	0.38		X410125	KAG	03/14/24 00:47	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	5.57	mg/L	0.20	0.02		X410147	KAG	03/06/24 23:44	
EPA 300.0	**Nitrate as N**	1.31	mg/L	0.050	0.013		X410147	KAG	03/06/24 23:44	
EPA 300.0	**Sulfate as SO4**	4.65	mg/L	0.30	0.18		X410147	KAG	03/06/24 23:44	

This data has been reviewed for accuracy and has been authorized for release.

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X4C0059**
Reported: 21-Mar-24 17:34

Client Sample ID: **GWMW-020-240305**
SVL Sample ID: **X4C0059-09 (Ground Water)**

Sampled: 05-Mar-24 14:15
Received: 06-Mar-24
Sampled By: MT/GF/CC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.000200	mg/L	0.000200	0.000093		X412085	MAC	03/20/24 16:53	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.200	mg/L	0.0040	0.0019		X411158	NMS	03/20/24 13:26	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X411158	NMS	03/20/24 13:26	
EPA 6010D	**Manganese**	0.0672	mg/L	0.0080	0.0034		X411158	NMS	03/20/24 13:26	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X411158	NMS	03/20/24 13:26	
EPA 6010D	**Zinc**	0.0253	mg/L	0.0100	0.0054		X411158	NMS	03/20/24 13:26	
EPA 6020B	**Arsenic**	0.00301	mg/L	0.00100	0.00021		X411164	SMU	03/15/24 15:31	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X411067	DD	03/13/24 11:24	
SM 2320 B	**Total Alkalinity**	235	mg/L as CaCO3	1.0			X410250	MWD	03/12/24 12:04	
SM 2320 B	**Bicarbonate**	235	mg/L as CaCO3	1.0			X410250	MWD	03/12/24 12:04	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X410250	MWD	03/12/24 12:04	
SM 2540 C	**Total Diss. Solids**	331	mg/L	10			X410151	TJL	03/11/24 14:40	
SM 5310B	**Total Organic Carbon**	1.17	mg/L	1.00	0.38		X410125	KAG	03/14/24 01:06	Q9
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	7.85	mg/L	0.20	0.02		X410147	KAG	03/07/24 00:57	
EPA 300.0	**Nitrate as N**	1.87	mg/L	0.050	0.013		X410147	KAG	03/07/24 00:57	
EPA 300.0	**Sulfate as SO4**	5.17	mg/L	0.30	0.18		X410147	KAG	03/07/24 00:57	

This data has been reviewed for accuracy and has been authorized for release.

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X4C0059**
Reported: 21-Mar-24 17:34

Client Sample ID: **GWMW-029-240305**
SVL Sample ID: **X4C0059-10 (Ground Water)**

Sampled: 05-Mar-24 07:41
Received: 06-Mar-24
Sampled By: MT/GF/CC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.000200	mg/L	0.000200	0.000093		X412085	MAC	03/20/24 16:55	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.0997	mg/L	0.0040	0.0019		X411158	NMS	03/20/24 13:30	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X411158	NMS	03/20/24 13:30	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X411158	NMS	03/20/24 13:30	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X411158	NMS	03/20/24 13:30	
EPA 6010D	Zinc	< 0.0100	mg/L	0.0100	0.0054		X411158	NMS	03/20/24 13:30	
EPA 6020B	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X411164	SMU	03/15/24 15:34	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X411067	DD	03/13/24 11:26	
SM 2320 B	**Total Alkalinity**	105	mg/L as CaCO3	1.0			X410250	MWD	03/12/24 12:09	
SM 2320 B	**Bicarbonate**	105	mg/L as CaCO3	1.0			X410250	MWD	03/12/24 12:09	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X410250	MWD	03/12/24 12:09	
SM 2540 C	**Total Diss. Solids**	380	mg/L	10			X410151	TJL	03/11/24 14:40	
SM 5310B	Total Organic Carbon	< 1.00	mg/L	1.00	0.38		X410125	KAG	03/14/24 03:05	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	138	mg/L	5.00	0.55	25	X410147	KAG	03/07/24 09:52	D2
EPA 300.0	**Nitrate as N**	1.01	mg/L	0.050	0.013		X410147	KAG	03/06/24 14:43	
EPA 300.0	**Sulfate as SO4**	7.32	mg/L	0.30	0.18		X410147	KAG	03/06/24 14:43	

This data has been reviewed for accuracy and has been authorized for release.

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X4C0059**
Reported: 21-Mar-24 17:34

Client Sample ID: **GWMW-031-240305**
SVL Sample ID: **X4C0059-11 (Ground Water)**

Sampled: 05-Mar-24 10:15
Received: 06-Mar-24
Sampled By: MT/GF/CC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.000200	mg/L	0.000200	0.000093		X412085	MAC	03/20/24 16:57	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.0437	mg/L	0.0040	0.0019		X411158	NMS	03/20/24 13:34	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X411158	NMS	03/20/24 13:34	
EPA 6010D	**Manganese**	0.0126	mg/L	0.0080	0.0034		X411158	NMS	03/20/24 13:34	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X411158	NMS	03/20/24 13:34	
EPA 6010D	Zinc	< 0.0100	mg/L	0.0100	0.0054		X411158	NMS	03/20/24 13:34	
EPA 6020B	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X411164	SMU	03/15/24 15:37	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X411067	DD	03/13/24 11:28	
SM 2320 B	**Total Alkalinity**	41.5	mg/L as CaCO3	1.0			X410250	MWD	03/12/24 12:14	
SM 2320 B	**Bicarbonate**	41.5	mg/L as CaCO3	1.0			X410250	MWD	03/12/24 12:14	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X410250	MWD	03/12/24 12:14	
SM 2540 C	**Total Diss. Solids**	119	mg/L	10			X410151	TJL	03/11/24 14:40	
SM 5310B	**Total Organic Carbon**	4.72	mg/L	1.00	0.38		X410125	KAG	03/14/24 03:23	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	11.6	mg/L	0.20	0.02		X410147	KAG	03/07/24 01:33	
EPA 300.0	**Nitrate as N**	0.791	mg/L	0.050	0.013		X410147	KAG	03/07/24 01:33	
EPA 300.0	**Sulfate as SO4**	4.19	mg/L	0.30	0.18		X410147	KAG	03/07/24 01:33	

This data has been reviewed for accuracy and has been authorized for release.

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X4C0059**
Reported: 21-Mar-24 17:34

Client Sample ID: **MWS-1-2-240305**
SVL Sample ID: **X4C0059-12 (Ground Water)**

Sampled: 05-Mar-24 11:19
Received: 06-Mar-24
Sampled By: MT/GF/CC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.000200	mg/L	0.000200	0.000093		X412085	MAC	03/20/24 16:59	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.0853	mg/L	0.0040	0.0019		X411158	NMS	03/20/24 13:38	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X411158	NMS	03/20/24 13:38	
EPA 6010D	**Manganese**	0.295	mg/L	0.0080	0.0034		X411158	NMS	03/20/24 13:38	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X411158	NMS	03/20/24 13:38	
EPA 6010D	Zinc	< 0.0100	mg/L	0.0100	0.0054		X411158	NMS	03/20/24 13:38	
EPA 6020B	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X411164	SMU	03/15/24 15:40	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X411067	DD	03/13/24 11:30	
SM 2320 B	**Total Alkalinity**	181	mg/L as CaCO3	1.0			X410250	MWD	03/12/24 12:19	
SM 2320 B	**Bicarbonate**	181	mg/L as CaCO3	1.0			X410250	MWD	03/12/24 12:19	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X410250	MWD	03/12/24 12:19	
SM 2540 C	**Total Diss. Solids**	228	mg/L	10			X410151	TJL	03/11/24 14:40	
SM 5310B	**Total Organic Carbon**	2.12	mg/L	1.00	0.38		X410125	KAG	03/14/24 03:42	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	8.02	mg/L	0.20	0.02		X410147	KAG	03/07/24 02:09	
EPA 300.0	**Nitrate as N**	0.090	mg/L	0.050	0.013		X410147	KAG	03/07/24 02:09	
EPA 300.0	**Sulfate as SO4**	3.08	mg/L	0.30	0.18		X410147	KAG	03/07/24 02:09	

This data has been reviewed for accuracy and has been authorized for release.

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X4C0059**
Reported: 21-Mar-24 17:34

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total)								
EPA 7470A	Mercury	mg/L	<0.000200	0.000093	0.000200	X412085	20-Mar-24	
Metals (Total Recoverable)								
EPA 6010D	Barium	mg/L	<0.0040	0.0019	0.0040	X411158	20-Mar-24	
EPA 6010D	Lead	mg/L	<0.0150	0.0049	0.0150	X411158	20-Mar-24	
EPA 6010D	Manganese	mg/L	<0.0080	0.0034	0.0080	X411158	20-Mar-24	
EPA 6010D	Vanadium	mg/L	<0.0050	0.0019	0.0050	X411158	20-Mar-24	
EPA 6010D	Zinc	mg/L	<0.0100	0.0054	0.0100	X411158	20-Mar-24	
EPA 6020B	Arsenic	mg/L	<0.00100	0.00021	0.00100	X411164	15-Mar-24	
Classical Chemistry Parameters								
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X411067	13-Mar-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X410250	12-Mar-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X410250	12-Mar-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X410250	12-Mar-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X410151	11-Mar-24	
SM 5310B	Total Organic Carbon	mg/L	<1.00	0.38	1.00	X410125	13-Mar-24	
SM 5310B	Total Organic Carbon	mg/L	<1.00	0.38	1.00	X410125	13-Mar-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X410147	06-Mar-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X410147	06-Mar-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X410147	06-Mar-24	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)									
EPA 7470A	Mercury	mg/L	0.00215	0.00200	107	80 - 120	X412085	20-Mar-24	
Metals (Total Recoverable)									
EPA 6010D	Barium	mg/L	1.01	1.00	101	80 - 120	X411158	20-Mar-24	
EPA 6010D	Lead	mg/L	1.04	1.00	104	80 - 120	X411158	20-Mar-24	
EPA 6010D	Manganese	mg/L	1.04	1.00	104	80 - 120	X411158	20-Mar-24	
EPA 6010D	Vanadium	mg/L	1.05	1.00	105	80 - 120	X411158	20-Mar-24	
EPA 6010D	Zinc	mg/L	1.04	1.00	104	80 - 120	X411158	20-Mar-24	
EPA 6020B	Arsenic	mg/L	0.0220	0.0250	88.0	80 - 120	X411164	15-Mar-24	
Classical Chemistry Parameters									
EPA 350.1	Ammonia as N	mg/L	0.974	1.00	97.4	90 - 110	X411067	13-Mar-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.1	9.93	102	96.4 - 105	X410250	12-Mar-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	98.1	99.3	98.8	96.4 - 105	X410250	12-Mar-24	
SM 5310B	Total Organic Carbon	mg/L	34.6	34.3	101	90 - 110	X410125	13-Mar-24	
SM 5310B	Total Organic Carbon	mg/L	34.0	34.3	99.2	90 - 110	X410125	13-Mar-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.03	3.00	101	90 - 110	X410147	06-Mar-24	
EPA 300.0	Nitrate as N	mg/L	2.05	2.00	102	90 - 110	X410147	06-Mar-24	
EPA 300.0	Sulfate as SO4	mg/L	10.4	10.0	104	90 - 110	X410147	06-Mar-24	

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X4C0059**
Reported: 21-Mar-24 17:34

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2320 B	Total Alkalinity	mg/L as CaCO3	179	179	0.2	20	X410250 - X4C0059-02	12-Mar-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	179	179	0.2	20	X410250 - X4C0059-02	12-Mar-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X410250 - X4C0059-02	12-Mar-24	
SM 2540 C	Total Diss. Solids	mg/L	207	214	3.3	10	X410151 - X4C0059-04	11-Mar-24	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	mg/L	0.00204	<0.000200	0.00200	102	80 - 120	X412085 - X4C0127-01	20-Mar-24	
EPA 7470A	Mercury	mg/L	0.00195	<0.000200	0.00200	97.7	80 - 120	X412085 - X4C0127-03	20-Mar-24	
Metals (Total Recoverable)										
EPA 6010D	Barium	mg/L	1.04	0.0181	1.00	102	75 - 125	X411158 - X4C0059-01	20-Mar-24	
EPA 6010D	Lead	mg/L	1.02	<0.0150	1.00	102	75 - 125	X411158 - X4C0059-01	20-Mar-24	
EPA 6010D	Manganese	mg/L	1.05	<0.0080	1.00	105	75 - 125	X411158 - X4C0059-01	20-Mar-24	
EPA 6010D	Vanadium	mg/L	1.06	<0.0050	1.00	106	75 - 125	X411158 - X4C0059-01	20-Mar-24	
EPA 6010D	Zinc	mg/L	1.10	0.0604	1.00	104	75 - 125	X411158 - X4C0059-01	20-Mar-24	
EPA 6020B	Arsenic	mg/L	0.0237	0.00122	0.0250	90.0	75 - 125	X411164 - X4C0059-01	15-Mar-24	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	mg/L	1.06	<0.030	1.00	104	90 - 110	X411067 - X4C0059-01	13-Mar-24	
EPA 350.1	Ammonia as N	mg/L	1.04	<0.030	1.00	104	90 - 110	X411067 - X4C0059-02	13-Mar-24	
SM 5310B	Total Organic Carbon	mg/L	11.2	1.17	10.0	99.9	80 - 120	X410125 - X4C0059-09	14-Mar-24	
SM 5310B	Total Organic Carbon	mg/L	10.9	<1.00	10.0	100	80 - 120	X410125 - X4C0040-03	14-Mar-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	19.6	16.4	3.00	105	90 - 110	X410147 - X4C0059-01	06-Mar-24	D2
EPA 300.0	Chloride	mg/L	6.57	2.63	3.00	131	90 - 110	X410147 - X4C0058-02	06-Mar-24	M1
EPA 300.0	Nitrate as N	mg/L	2.29	0.260	2.00	101	90 - 110	X410147 - X4C0059-01	06-Mar-24	
EPA 300.0	Nitrate as N	mg/L	2.10	<0.050	2.00	105	90 - 110	X410147 - X4C0058-02	06-Mar-24	
EPA 300.0	Sulfate as SO4	mg/L	21.1	10.9	10.0	103	90 - 110	X410147 - X4C0059-01	06-Mar-24	
EPA 300.0	Sulfate as SO4	mg/L	15.0	4.79	10.0	102	90 - 110	X410147 - X4C0058-02	06-Mar-24	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total)										
EPA 7470A	Mercury	mg/L	0.00208	0.00204	0.00200	2.0	20	104	X412085 - X4C0127-01	
Metals (Total Recoverable)										
EPA 6010D	Barium	mg/L	1.04	1.04	1.00	0.1	20	102	X411158 - X4C0059-01	
EPA 6010D	Lead	mg/L	1.04	1.02	1.00	1.2	20	104	X411158 - X4C0059-01	
EPA 6010D	Manganese	mg/L	1.06	1.05	1.00	0.4	20	106	X411158 - X4C0059-01	
EPA 6010D	Vanadium	mg/L	1.06	1.06	1.00	0.7	20	106	X411158 - X4C0059-01	
EPA 6010D	Zinc	mg/L	1.11	1.10	1.00	0.9	20	105	X411158 - X4C0059-01	
EPA 6020B	Arsenic	mg/L	0.0235	0.0237	0.0250	0.9	20	89.2	X411164 - X4C0059-01	

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X4C0059**
Reported: 21-Mar-24 17:34

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	mg/L	1.10	1.06	1.00	4.0	20	109	X411067 - X4C0059-01	
SM 5310B	Total Organic Carbon	mg/L	10.6	10.9	10.0	2.4	20	97.8	X410125 - X4C0040-03	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	6.57	6.57	3.00	0.0	20	131	X410147 - X4C0058-02	M1
EPA 300.0	Nitrate as N	mg/L	2.12	2.10	2.00	0.6	20	106	X410147 - X4C0058-02	
EPA 300.0	Sulfate as SO4	mg/L	15.0	15.0	10.0	0.0	20	103	X410147 - X4C0058-02	

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(208) 784-1258
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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X4C0059**
Reported: 21-Mar-24 17:34

Notes and Definitions

D2	Sample required dilution due to high concentration of target analyte.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
Q9	Insufficient sample was received to meet QC requirements.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

SPOKANE COUNTY CHAIN OF CUSTODY FOR GROUNDWATER SAMPI
MICA LANDFILL COMPLIANCE MONITORING PROGRAM
2024

Work Order: X4C0059
Spokane County Environmental Services (C

LABORATORY:
SVL ANALYTICAL
ONE GOVERNMENT GULCH
KELLOGG, ID 83837-0929
(208) 784-1258 FAX (208) 783-0891
ATTENTION: Sample Receiving

CLIENT:
SPOKANE COUNTY ENVIROMENTAL SERVICES
22515 N. ELK CHATTAROY RD.
COLBERT, WASHINGTON 99005
(509) 238-6607 FAX (509) 238-6812
MICA (509)924-5223

SHIPPING CO: UPS
SHIPPING # : K27466359491
NUMBER OF COOLERS: 2 5734

DATE: 3/5/2024
PAGE 1 OF 2

PARAMETERS:			TOC	AMMONIA	MONITORING Cl / SO4 / TDS NO3 / ALKALINITY	RESIDENTIAL Cl / SO4 / NO3 ALKALINITY	METALS (As / Ba / Pb / Hg Mn / V / Zn)	SAMPLERS: Mike Terris		
METHOD:			415.1	350.1	300.0/300.0/160.1 300.0 / 2320 B	300.0/300.0/ 300.0 2320B	7060A / 6010B / 7470A	Gordie Fisette		
BOTTLES:			1-40 ml. VOC	1-500 ml POLY BOTTLE	1-500 ml POLY BOTTLE	1-500 ml. POLY BOTTLE	1-500 ml. POLY BOTLE	Craig Campbell		
LAB:			SVL	SVL	SVL	SVL	SVL			
PRESERVATION:		2024	HCL pH < 2	H2SO4 pH < 2	UNPRESERVED	UNPRESERVED	HN03 Ph< 2 (NOT FILTERED)	COOLER NUMBER	NUMBER BOTTLES	COMMENTS
SAMPLE IDENTIFICATION	DATE	TIME								
GWDW-001-240305	3/5	0841	X	X		X	X	6	4	
GWDW-003-240305	3/5	1051	X	X		X	X	6	4	
GWMS-004-240305	3/5	1341	X	X	X		X	141	4	
GWMW-009-240305	3/5	1137	X	X	X		X	141	4	
GWMW-010-240305	3/5	1021	X	X	X		X	141	4	
GWMW-013-240305	3/5	1200	X	X	X		X	6	4	
GWMW-014-240305	3/5	0930	X	X	X		X	6	4	
GWMW-019R-240305	3/5	1337	X	X	X		X	141	4	
GWMW-020-240305	3/5	1415	X	X	X		X	6	4	
GWMW-029-240305	3/5	0741	X	X	X		X	141	4	
GWMW-031-240305	3/5	1015	X	X	X		X	141	4	

COMMENTS: Please e-mail a sample condition report to Austin and Mike ASAP astewart@spokanecounty.org and mterris@spokanecounty.org

RELINQUISHED BY
SIGNATURE: Mike Terris
PRINT NAME: MIKE S. TERRIS
COMPANY: SPOKANE COUNTY UTILITIES LANDFILL CLOSURE
DATE: 3/5/24
TIME: 1530

RECEIVED BY
SIGNATURE:
PRINT NAME: Megan Bracher
COMPANY: SVL
DATE: 03/06/24
TIME: 0900

SPOKANE COUNTY CHAIN OF CUSTODY FOR GROUNDWATER SAMPI
MICA LANDFILL COMPLIANCE MONITORING PROGRAM
2024

Work Order: **X4C0059**
Spokane County Environmental Services (C

LABORATORY:
SVL ANALYTICAL
ONE GOVERNMENT GULCH
KELLOGG, ID 83837-0929
(208) 784-1258 FAX (208) 783-0891
ATTENTION: Sample Receiving

CLIENT:
SPOKANE COUNTY ENVIROMENTAL SERVICES
22515 N. ELK CHATTAROY RD.
COLBERT, WASHINGTON 99005
(509) 238-6607 FAX (509) 238-6812
MICA (509)924-5223

SHIPPING CO: UPS
SHIPPING # : K2746635949 1 5734
NUMBER OF COOLERS: 2
DATE: 3/5/2024
PAGE 2 OF 2

PARAMETERS:			TOC	AMMONIA	MONITORING Cl / SO4 / TDS NO3 / ALKALINITY	RESIDENTIAL Cl / SO4 / NO3 ALKALINITY	METALS (As / Ba / Pb / Hg Mn / V / Zn)	SAMPLERS: Mike Terris		
METHOD:			415.1	350.1	300.0/300.0/160.1 300.0 / 2320 B	300.0/300.0/ 300.0 2320B	7060A / 6010B / 7470A	Gordie Fisette		
BOTTLES:			1-40 ml. VOC	1-500 ml POLY BOTTLE	1-500 ml POLY BOTTLE	1-500 ml. POLY BOTTLE	1-500 ml. POLY BOTLE	Craig Campbell		
LAB:			SVL	SVL	SVL	SVL	SVL			
PRESERVATION:	2024		HCL pH < 2	H2SO4 pH < 2	UNPRESERVED	UNPRESERVED	HN03 Ph< 2 (NOT FILTERED)	COOLER NUMBER	NUMBER BOTTLES	COMMENTS
SAMPLE IDENTIFICATION	DATE	TIME								
MWS-1-2-240305	3/5	1119	X	X	X		X	141	4	

COMMENTS: Please e-mail a sample condition report to Austin and Mike ASAP astewart@spokanecounty.org and mterris@spokanecounty.org

RELINQUISHED BY		RECEIVED BY	
SIGNATURE:	DATE: 3/5/2024	SIGNATURE:	DATE: 03/06/24
PRINT NAME: MIKE S. TERRIS	TIME: 1530	PRINT NAME: Meyan Bircher	TIME: 0900
COMPANY: SPOKANE COUNTY UTILITIES LANDFILL CLOSURE		COMPANY: SVL	

SAMPLE RECEIPT/CHAIN-OF-CUSTODY CHECKLIST

The following items were checked for completeness, correctness, and compliance to project specifications using the Chain-of-Custody (COC) and other supporting information.

Date of acceptance: 3/6/24 **By:** NB

SVL Work No: X4C0099

Item	Description	V	NA	Comments
1	Client or project name	✓		Spokane County
2	Date and time of receipt at lab	✓		3/6/24 0900
3	Received by	✓		NB
4	Temperature blank or cooler temperature	✓		Temp. 2.9 °C T098/T126
5	Were the sample(s) received on ice	✓		
6	Custody tape/bottle seals	✓		
7	Shipper's air bill	✓		UPS K2746635734
8	Condition of samples upon receipt (leaking; bubbles in VOA vials)	✓		good
9	Analysis requested for each sample	✓		
10	Sample matrix description	✓		
11	The correct preservative for the analysis requested	✓		
12	Did an SVL employee preserve sample(s) upon receipt		✓	
13	Additional Information		✓	

V- Verified **NA- Not Applicable**

Comments:
Cooler 2: K2746635949 3.2 °C

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X4C0127**
Reported: 22-Mar-24 15:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GWMS-005-240306	X4C0127-01	Ground Water	06-Mar-24 09:29	MT	08-Mar-2024	
GWMW-016-240306	X4C0127-02	Ground Water	06-Mar-24 09:41	MT	08-Mar-2024	Q5
GWMW-023-240306	X4C0127-03	Ground Water	06-Mar-24 11:43	MT	08-Mar-2024	
MWS-1-1-240306	X4C0127-04	Ground Water	06-Mar-24 11:13	MT	08-Mar-2024	

Sample preparation is defined by the client as per their Data Quality Objectives.
This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.
Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.
The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

Case Narrative: X4C0127

SVL is not certified for Mercury 7470A in Washington.

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X4C0127**
Reported: 22-Mar-24 15:05

Client Sample ID: **GWMS-005-240306**
SVL Sample ID: **X4C0127-01 (Ground Water)**

Sampled: 06-Mar-24 09:29
Received: 08-Mar-24
Sampled By: MT

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.000200	mg/L	0.000200	0.000093		X412085	MAC	03/20/24 17:01	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.0405	mg/L	0.0040	0.0019		X412028	NMS	03/20/24 11:17	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X412028	NMS	03/20/24 11:17	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X412028	NMS	03/20/24 11:17	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X412028	NMS	03/20/24 11:17	
EPA 6010D	Zinc	< 0.0100	mg/L	0.0100	0.0054		X412028	NMS	03/20/24 11:17	
EPA 6020B	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X412024	SMU	03/19/24 20:09	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X411070	DD	03/13/24 13:18	
SM 2320 B	**Total Alkalinity**	92.6	mg/L as CaCO3	1.0			X411048	MWD	03/12/24 13:59	
SM 2320 B	**Bicarbonate**	92.6	mg/L as CaCO3	1.0			X411048	MWD	03/12/24 13:59	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X411048	MWD	03/12/24 13:59	
SM 2540 C	**Total Diss. Solids**	191	mg/L	10			X411072	TJL	03/13/24 14:30	
SM 5310B	**Total Organic Carbon**	1.25	mg/L	1.00	0.38		X411131	KAG	03/19/24 13:58	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	17.2	mg/L	2.00	0.22	10	X410231	KAG	03/08/24 18:27	D2,M4
EPA 300.0	**Nitrate as N**	1.31	mg/L	0.050	0.013		X410231	KAG	03/08/24 18:09	H3
EPA 300.0	**Sulfate as SO4**	12.6	mg/L	0.30	0.18		X410231	KAG	03/08/24 18:09	

This data has been reviewed for accuracy and has been authorized for release.

Dave Tryon
Project Manager

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X4C0127**
Reported: 22-Mar-24 15:05

Client Sample ID: **GWMW-016-240306**
SVL Sample ID: **X4C0127-02 (Ground Water)**

Sampled: 06-Mar-24 09:41
Received: 08-Mar-24
Sampled By: MT

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.000200	mg/L	0.000200	0.000093		X412085	MAC	03/20/24 17:04	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.624	mg/L	0.0040	0.0019		X412028	NMS	03/20/24 11:21	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X412028	NMS	03/20/24 11:21	
EPA 6010D	**Manganese**	0.607	mg/L	0.0080	0.0034		X412028	NMS	03/20/24 11:21	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X412028	NMS	03/20/24 11:21	
EPA 6010D	Zinc	< 0.0100	mg/L	0.0100	0.0054		X412028	NMS	03/20/24 11:21	
EPA 6020B	**Arsenic**	0.0631	mg/L	0.00100	0.00021		X412024	SMU	03/19/24 20:19	
Classical Chemistry Parameters										
EPA 350.1	**Ammonia as N**	0.356	mg/L	0.030	0.013		X411070	DD	03/13/24 13:20	
SM 2320 B	**Total Alkalinity**	1270	mg/L as CaCO3	1.0			X411048	MWD	03/12/24 14:04	
SM 2320 B	**Bicarbonate**	1270	mg/L as CaCO3	1.0			X411048	MWD	03/12/24 14:04	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X411048	MWD	03/12/24 14:04	
SM 2540 C	**Total Diss. Solids**	1300	mg/L	40			X411072	TJL	03/13/24 14:30	D2
SM 5310B	**Total Organic Carbon**	28.6	mg/L	1.00	0.38		X411131	KAG	03/19/24 14:56	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	160	mg/L	10.0	1.10	50	X410231	KAG	03/08/24 20:17	D2
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X410231	KAG	03/08/24 19:59	H3
EPA 300.0	Sulfate as SO4	< 0.30	mg/L	0.30	0.18		X410231	KAG	03/08/24 19:59	

This data has been reviewed for accuracy and has been authorized for release.

Dave Tryon
Project Manager

One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X4C0127**
Reported: 22-Mar-24 15:05

Client Sample ID: **GWMW-023-240306**
SVL Sample ID: **X4C0127-03 (Ground Water)**

Sampled: 06-Mar-24 11:43
Received: 08-Mar-24
Sampled By: MT

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.000200	mg/L	0.000200	0.000093		X412085	MAC	03/20/24 17:06	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.120	mg/L	0.0040	0.0019		X412028	NMS	03/20/24 11:25	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X412028	NMS	03/20/24 11:25	
EPA 6010D	**Manganese**	0.963	mg/L	0.0080	0.0034		X412028	NMS	03/20/24 11:25	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X412028	NMS	03/20/24 11:25	
EPA 6010D	Zinc	< 0.0100	mg/L	0.0100	0.0054		X412028	NMS	03/20/24 11:25	
EPA 6020B	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X412024	SMU	03/19/24 20:22	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X411070	DD	03/13/24 13:22	
SM 2320 B	**Total Alkalinity**	310	mg/L as CaCO3	1.0			X411048	MWD	03/12/24 14:10	
SM 2320 B	**Bicarbonate**	310	mg/L as CaCO3	1.0			X411048	MWD	03/12/24 14:10	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X411048	MWD	03/12/24 14:10	
SM 2540 C	**Total Diss. Solids**	402	mg/L	10			X411072	TJL	03/13/24 14:30	
SM 5310B	**Total Organic Carbon**	2.63	mg/L	1.00	0.38		X411131	KAG	03/19/24 15:16	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	40.5	mg/L	2.00	0.22	10	X410231	KAG	03/08/24 20:54	D2
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X410231	RS	03/08/24 20:36	H3
EPA 300.0	**Sulfate as SO4**	8.50	mg/L	0.30	0.18		X410231	KAG	03/08/24 20:36	

This data has been reviewed for accuracy and has been authorized for release.

Dave Tryon
Project Manager

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X4C0127**
Reported: 22-Mar-24 15:05

Client Sample ID: **MWS-1-1-240306**
SVL Sample ID: **X4C0127-04 (Ground Water)**

Sampled: 06-Mar-24 11:13
Received: 08-Mar-24
Sampled By: MT

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.000200	mg/L	0.000200	0.000093		X412085	MAC	03/20/24 17:08	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.119	mg/L	0.0040	0.0019		X412028	NMS	03/20/24 11:28	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X412028	NMS	03/20/24 11:28	
EPA 6010D	**Manganese**	0.961	mg/L	0.0080	0.0034		X412028	NMS	03/20/24 11:28	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X412028	NMS	03/20/24 11:28	
EPA 6010D	Zinc	< 0.0100	mg/L	0.0100	0.0054		X412028	NMS	03/20/24 11:28	
EPA 6020B	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X412024	SMU	03/19/24 20:24	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X411070	DD	03/13/24 13:24	
SM 2320 B	**Total Alkalinity**	305	mg/L as CaCO3	1.0			X411048	MWD	03/12/24 14:15	
SM 2320 B	**Bicarbonate**	305	mg/L as CaCO3	1.0			X411048	MWD	03/12/24 14:15	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X411048	MWD	03/12/24 14:15	
SM 2540 C	**Total Diss. Solids**	401	mg/L	10			X411072	TJL	03/13/24 14:30	
SM 5310B	**Total Organic Carbon**	2.10	mg/L	1.00	0.38		X411131	KAG	03/19/24 15:35	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	40.1	mg/L	2.00	0.22	10	X410231	KAG	03/08/24 22:07	D2
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X410231	KAG	03/08/24 21:49	H3
EPA 300.0	**Sulfate as SO4**	8.51	mg/L	0.30	0.18		X410231	KAG	03/08/24 21:49	

This data has been reviewed for accuracy and has been authorized for release.

Dave Tryon
Project Manager

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X4C0127**
Reported: 22-Mar-24 15:05

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total)								
EPA 7470A	Mercury	mg/L	<0.000200	0.000093	0.000200	X412085	20-Mar-24	
Metals (Total Recoverable)								
EPA 6010D	Barium	mg/L	<0.0040	0.0019	0.0040	X412028	20-Mar-24	
EPA 6010D	Lead	mg/L	<0.0150	0.0049	0.0150	X412028	20-Mar-24	
EPA 6010D	Manganese	mg/L	<0.0080	0.0034	0.0080	X412028	20-Mar-24	
EPA 6010D	Vanadium	mg/L	<0.0050	0.0019	0.0050	X412028	20-Mar-24	
EPA 6010D	Zinc	mg/L	<0.0100	0.0054	0.0100	X412028	20-Mar-24	
EPA 6020B	Arsenic	mg/L	<0.00100	0.00021	0.00100	X412024	19-Mar-24	
Classical Chemistry Parameters								
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X411070	13-Mar-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X411048	12-Mar-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X411048	12-Mar-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X411048	12-Mar-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X411072	13-Mar-24	
SM 5310B	Total Organic Carbon	mg/L	<1.00	0.38	1.00	X411131	19-Mar-24	
SM 5310B	Total Organic Carbon	mg/L	<1.00	0.38	1.00	X411131	19-Mar-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X410231	08-Mar-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X410231	08-Mar-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X410231	08-Mar-24	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)									
EPA 7470A	Mercury	mg/L	0.00215	0.00200	107	80 - 120	X412085	20-Mar-24	
Metals (Total Recoverable)									
EPA 6010D	Barium	mg/L	0.983	1.00	98.3	80 - 120	X412028	20-Mar-24	
EPA 6010D	Lead	mg/L	0.989	1.00	98.9	80 - 120	X412028	20-Mar-24	
EPA 6010D	Manganese	mg/L	1.01	1.00	101	80 - 120	X412028	20-Mar-24	
EPA 6010D	Vanadium	mg/L	1.01	1.00	101	80 - 120	X412028	20-Mar-24	
EPA 6010D	Zinc	mg/L	0.994	1.00	99.4	80 - 120	X412028	20-Mar-24	
EPA 6020B	Arsenic	mg/L	0.0253	0.0250	101	80 - 120	X412024	19-Mar-24	
Classical Chemistry Parameters									
EPA 350.1	Ammonia as N	mg/L	1.00	1.00	100	90 - 110	X411070	13-Mar-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	98.3	99.3	99.0	96.4 - 105	X411048	12-Mar-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	398	397	100	96.4 - 105	X411048	12-Mar-24	
SM 5310B	Total Organic Carbon	mg/L	33.3	34.3	97.0	90 - 110	X411131	19-Mar-24	
SM 5310B	Total Organic Carbon	mg/L	33.0	34.3	96.1	90 - 110	X411131	19-Mar-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.05	3.00	102	90 - 110	X410231	08-Mar-24	
EPA 300.0	Nitrate as N	mg/L	2.05	2.00	102	90 - 110	X410231	08-Mar-24	
EPA 300.0	Sulfate as SO4	mg/L	10.5	10.0	105	90 - 110	X410231	08-Mar-24	

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X4C0127**
Reported: 22-Mar-24 15:05

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2320 B	Total Alkalinity	mg/L as CaCO3	92.2	92.6	0.4	20	X411048 - X4C0127-01	12-Mar-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	92.2	92.6	0.4	20	X411048 - X4C0127-01	12-Mar-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X411048 - X4C0127-01	12-Mar-24	
SM 2540 C	Total Diss. Solids	mg/L	189	191	1.1	10	X411072 - X4C0127-01	13-Mar-24	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	mg/L	0.00204	<0.000200	0.00200	102	80 - 120	X412085 - X4C0127-01	20-Mar-24	
EPA 7470A	Mercury	mg/L	0.00195	<0.000200	0.00200	97.7	80 - 120	X412085 - X4C0127-03	20-Mar-24	
Metals (Total Recoverable)										
EPA 6010D	Barium	mg/L	1.03	0.0405	1.00	99.2	75 - 125	X412028 - X4C0127-01	20-Mar-24	
EPA 6010D	Lead	mg/L	0.994	<0.0150	1.00	99.4	75 - 125	X412028 - X4C0127-01	20-Mar-24	
EPA 6010D	Manganese	mg/L	0.990	<0.0080	1.00	99.0	75 - 125	X412028 - X4C0127-01	20-Mar-24	
EPA 6010D	Vanadium	mg/L	1.02	<0.0050	1.00	101	75 - 125	X412028 - X4C0127-01	20-Mar-24	
EPA 6010D	Zinc	mg/L	0.999	<0.0100	1.00	99.9	75 - 125	X412028 - X4C0127-01	20-Mar-24	
EPA 6020B	Arsenic	mg/L	0.0240	<0.00100	0.0250	94.3	75 - 125	X412024 - X4C0127-01	19-Mar-24	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	mg/L	1.09	<0.030	1.00	109	90 - 110	X411070 - X4C0127-01	13-Mar-24	
SM 5310B	Total Organic Carbon	mg/L	10.7	1.25	10.0	94.5	80 - 120	X411131 - X4C0127-01	19-Mar-24	
SM 5310B	Total Organic Carbon	mg/L	9.90	<1.00	10.0	99.0	80 - 120	X411131 - X4C0249-05	19-Mar-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	9.08	5.95	3.00	104	90 - 110	X410231 - X4C0123-02	08-Mar-24	
EPA 300.0	Chloride	mg/L	19.7	17.2	3.00	0.30R>S	90 - 110	X410231 - X4C0127-01	08-Mar-24	D2,M4
EPA 300.0	Nitrate as N	mg/L	2.62	0.593	2.00	102	90 - 110	X410231 - X4C0123-02	08-Mar-24	
EPA 300.0	Nitrate as N	mg/L	3.36	1.31	2.00	102	90 - 110	X410231 - X4C0127-01	08-Mar-24	
EPA 300.0	Sulfate as SO4	mg/L	33.7	23.7	10.0	101	90 - 110	X410231 - X4C0123-02	08-Mar-24	
EPA 300.0	Sulfate as SO4	mg/L	22.9	12.6	10.0	103	90 - 110	X410231 - X4C0127-01	08-Mar-24	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total)										
EPA 7470A	Mercury	mg/L	0.00208	0.00204	0.00200	2.0	20	104	X412085 - X4C0127-01	
Metals (Total Recoverable)										
EPA 6010D	Barium	mg/L	1.01	1.03	1.00	1.8	20	97.3	X412028 - X4C0127-01	
EPA 6010D	Lead	mg/L	0.986	0.994	1.00	0.7	20	98.6	X412028 - X4C0127-01	
EPA 6010D	Manganese	mg/L	0.976	0.990	1.00	1.3	20	97.6	X412028 - X4C0127-01	
EPA 6010D	Vanadium	mg/L	1.01	1.02	1.00	1.2	20	100	X412028 - X4C0127-01	
EPA 6010D	Zinc	mg/L	0.993	0.999	1.00	0.7	20	99.3	X412028 - X4C0127-01	
EPA 6020B	Arsenic	mg/L	0.0253	0.0240	0.0250	5.7	20	99.9	X412024 - X4C0127-01	

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X4C0127**
Reported: 22-Mar-24 15:05

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	mg/L	1.09	1.09	1.00	0.6	20	109	X411070 - X4C0127-01	
SM 5310B	Total Organic Carbon	mg/L	10.0	9.90	10.0	1.4	20	100	X411131 - X4C0249-05	
SM 5310B	Total Organic Carbon	mg/L	10.8	10.7	10.0	0.5	20	95.0	X411131 - X4C0127-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	19.9	19.7	3.00	1.0	20	90.4	X410231 - X4C0127-01	D2
EPA 300.0	Chloride	mg/L	9.09	9.08	3.00	0.1	20	105	X410231 - X4C0123-02	
EPA 300.0	Nitrate as N	mg/L	2.65	2.62	2.00	0.8	20	103	X410231 - X4C0123-02	
EPA 300.0	Nitrate as N	mg/L	3.36	3.36	2.00	0.2	20	103	X410231 - X4C0127-01	
EPA 300.0	Sulfate as SO4	mg/L	22.9	22.9	10.0	0.1	20	103	X410231 - X4C0127-01	
EPA 300.0	Sulfate as SO4	mg/L	33.9	33.7	10.0	0.5	20	102	X410231 - X4C0123-02	

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X4C0127**
Reported: 22-Mar-24 15:05

Notes and Definitions

D2	Sample required dilution due to high concentration of target analyte.
H3	Sample was received and/or analysis requested past holding time.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
Q5	Sample was received with inadequate preservation, but preserved by the laboratory.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

SPOKANE COUNTY CHAIN OF CUSTODY FOR GROUNDWATER SAM
MICA LANDFILL COMPLIANCE MONITORING PROGRAM
2024

Work Order: X4C0127
Spokane County Environmental Services (C

LABORATORY:
SVL ANALYTICAL
ONE GOVERNMENT GULCH
KELLOGG, ID 83837-0929
(208) 784-1258 FAX (208) 783-0891
ATTENTION: Sample Receiving

CLIENT:
SPOKANE COUNTY ENVIROMENTAL SERVICES
22515 N. ELK CHATTAROY RD.
COLBERT, WASHINGTON 99005
(509) 238-6607 FAX (509) 238-6812
MICA (509)924-5223

SHIPPING CO: U.S.
SHIPPING # : 1Z2746635707
NUMBER OF COOLERS: 1
DATE: 3-6-2024
PAGE 1 OF 1

PARAMETERS:			TOC	AMMONIA	MONITORING Cl / SO4 / TDS NO3 / ALKALINITY	RESIDENTIAL Cl / SO4 / NO3 ALKALINITY	METALS (As / Ba / Pb / Hg Mn / V / Zn)	SAMPLERS: Mike Terris		
METHOD:			415.1	350.1	300.0/300.0/160.1 300.0 / 2320 B	300.0/300.0/ 300.0 2320B	7060A / 6010B / 7470A	Gordie Fisette		
BOTTLES:			1-40 ml. VOC	1-500 ml POLY BOTTLE	1-500 ml POLY BOTTLE	1-500 ml. POLY BOTTLE	1-500 ml. POLY BOTLE	Craig Campbell		
LAB:			SVL	SVL	SVL	SVL	SVL			
PRESERVATION:	2024		HCL pH < 2	H2SO4 pH < 2	UNPRESERVED	UNPRESERVED	HN03 Ph< 2 (NOT FILTERED)	COOLER NUMBER	NUMBER BOTTLES	COMMENTS
SAMPLE IDENTIFICATION	DATE	TIME								
GWMS-005-240306	3-6	0929	X	X	X		X	8	12	MS/MSD
GWMW-016-240306	3-6	0941	X	X	X		X	8	4	
GWMW-023-240306	3-6	1143	X	X	X		X	8	4	
MWS-1-1-240306	3-6	1113	X	X	X		X	8	4	

COMMENTS: Please e-mail a sample condition report to Austin and Mike ASAP astewart@spokanecounty.org and mterris@spokanecounty.org

1.5°C

RELINQUISHED BY
SIGNATURE: Mike Terris
PRINT NAME: MIKE S. TERRIS
COMPANY: SPOKANE COUNTY UTILITIES LANDFILL CLOSURE
DATE: 3-6-2024
TIME: 1400

RECEIVED BY
SIGNATURE:
PRINT NAME: Megan Bircher
COMPANY: SVL
DATE: 3/8/24
TIME: 0925

SAMPLE RECEIPT/CHAIN-OF-CUSTODY CHECKLIST

The following items were checked for completeness, correctness, and compliance to project specifications using the Chain-of-Custody (COC) and other supporting information.

Date of acceptance: 3/8/24 **By:** MB

SVL Work No: MC0127

Item	Description	V	NA	Comments
1	Client or project name	✓		Spokane County
2	Date and time of receipt at lab	✓		3/8/24 0925
3	Received by	✓		MB
4	Temperature blank or cooler temperature		✓	Temp. 1.5°C T098/T126
5	Were the sample(s) received on ice	✓		
6	Custody tape/bottle seals	✓		
7	Shipper's air bill	✓		UPS
8	Condition of samples upon receipt (leaking; bubbles in VOA vials)	✓		good
9	Analysis requested for each sample	✓		
10	Sample matrix description	✓		
11	The correct preservative for the analysis requested	✓		
12	Did an SVL employee preserve sample(s) upon receipt	✓		SVL preserved as necessary GWMW-016 pH 6
13	Additional Information		✓	

V- Verified **NA- Not Applicable**

Comments:

SVL
1 GOVERNMENT GULCH
KELLOGG ID 83837
P: NORTH S: NORTH I: 12C
KELL – 1372
K2746635707
XWH6SMJ IDC0E948UDC MAR 8 05:10:21 2024
US 8380 HIP 23.9.0 ZD621R

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X4C0341**
Reported: 03-Apr-24 15:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GWDW-002-240320	X4C0341-01	Ground Water	20-Mar-24 11:06	CC	21-Mar-2024	

Sample preparation is defined by the client as per their Data Quality Objectives.
This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.
Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.
The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X4C0341**
Reported: 03-Apr-24 15:10

Client Sample ID: **GWDW-002-240320**
SVL Sample ID: **X4C0341-01 (Ground Water)**

Sampled: 20-Mar-24 11:06
Received: 21-Mar-24
Sampled By: CC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.000200	mg/L	0.000200	0.000093		X413170	MAC	03/29/24 12:28	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.0414	mg/L	0.0040	0.0019		X413132	SMU	03/29/24 14:20	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X413132	SMU	03/29/24 14:20	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X413132	SMU	03/29/24 14:20	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X413132	SMU	03/29/24 14:20	
EPA 6010D	**Zinc**	0.0142	mg/L	0.0100	0.0054		X413132	SMU	03/29/24 14:20	
EPA 6020B	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X413131	SMU	04/01/24 19:13	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X413099	DD	03/28/24 08:46	
SM 2320 B	**Total Alkalinity**	163	mg/L as CaCO3	1.0			X412228	MWD	03/22/24 17:16	
SM 2320 B	**Bicarbonate**	163	mg/L as CaCO3	1.0			X412228	MWD	03/22/24 17:16	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X412228	MWD	03/22/24 17:16	
SM 5310B	Total Organic Carbon	< 1.00	mg/L	1.00	0.38		X412158	KAG	03/26/24 15:27	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	8.74	mg/L	0.20	0.02		X412206	RS	03/21/24 13:40	
EPA 300.0	**Nitrate as N**	1.01	mg/L	0.050	0.013		X412206	RS	03/21/24 13:40	
EPA 300.0	**Sulfate as SO4**	4.78	mg/L	0.30	0.18		X412206	RS	03/21/24 13:40	

This data has been reviewed for accuracy and has been authorized for release.

Connor Williams
Project Manager

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X4C0341**
Reported: 03-Apr-24 15:10

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total)								
EPA 7470A	Mercury	mg/L	<0.000200	0.000093	0.000200	X413170	29-Mar-24	
Metals (Total Recoverable)								
EPA 6010D	Barium	mg/L	<0.0040	0.0019	0.0040	X413132	29-Mar-24	
EPA 6010D	Lead	mg/L	<0.0150	0.0049	0.0150	X413132	29-Mar-24	
EPA 6010D	Manganese	mg/L	<0.0080	0.0034	0.0080	X413132	29-Mar-24	
EPA 6010D	Vanadium	mg/L	<0.0050	0.0019	0.0050	X413132	29-Mar-24	
EPA 6010D	Zinc	mg/L	<0.0100	0.0054	0.0100	X413132	29-Mar-24	
EPA 6020B	Arsenic	mg/L	<0.00100	0.00021	0.00100	X413131	01-Apr-24	
Classical Chemistry Parameters								
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X413099	28-Mar-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X412228	22-Mar-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X412228	22-Mar-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X412228	22-Mar-24	
SM 5310B	Total Organic Carbon	mg/L	<1.00	0.38	1.00	X412158	26-Mar-24	
SM 5310B	Total Organic Carbon	mg/L	<1.00	0.38	1.00	X412158	26-Mar-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X412206	21-Mar-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X412206	21-Mar-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X412206	21-Mar-24	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)									
EPA 7470A	Mercury	mg/L	0.00205	0.00200	103	80 - 120	X413170	29-Mar-24	
Metals (Total Recoverable)									
EPA 6010D	Barium	mg/L	1.04	1.00	104	80 - 120	X413132	29-Mar-24	
EPA 6010D	Lead	mg/L	0.980	1.00	98.0	80 - 120	X413132	29-Mar-24	
EPA 6010D	Manganese	mg/L	1.05	1.00	105	80 - 120	X413132	29-Mar-24	
EPA 6010D	Vanadium	mg/L	1.00	1.00	100	80 - 120	X413132	29-Mar-24	
EPA 6010D	Zinc	mg/L	0.984	1.00	98.4	80 - 120	X413132	29-Mar-24	
EPA 6020B	Arsenic	mg/L	0.0247	0.0250	98.7	80 - 120	X413131	01-Apr-24	
Classical Chemistry Parameters									
EPA 350.1	Ammonia as N	mg/L	0.989	1.00	98.9	90 - 110	X413099	28-Mar-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.2	9.93	103	96.4 - 105	X412228	22-Mar-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	102	96.4 - 105	X412228	22-Mar-24	
SM 5310B	Total Organic Carbon	mg/L	34.1	34.3	99.4	90 - 110	X412158	26-Mar-24	
SM 5310B	Total Organic Carbon	mg/L	33.8	34.3	98.5	90 - 110	X412158	26-Mar-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.05	3.00	102	90 - 110	X412206	21-Mar-24	
EPA 300.0	Nitrate as N	mg/L	2.06	2.00	103	90 - 110	X412206	21-Mar-24	
EPA 300.0	Sulfate as SO4	mg/L	10.4	10.0	104	90 - 110	X412206	21-Mar-24	

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X4C0341**
Reported: 03-Apr-24 15:10

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2320 B	Total Alkalinity	mg/L as CaCO3	61.0	60.9	0.2	20	X412228 - X4C0340-02	22-Mar-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	31.0	29.6	4.6	20	X412228 - X4C0340-02	22-Mar-24	
SM 2320 B	Carbonate	mg/L as CaCO3	30.0	31.3	4.2	20	X412228 - X4C0340-02	22-Mar-24	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	mg/L	0.00208	<0.000200	0.00200	104	80 - 120	X413170 - X4C0341-01	29-Mar-24	
Metals (Total Recoverable)										
EPA 6010D	Barium	mg/L	1.09	0.0414	1.00	105	75 - 125	X413132 - X4C0341-01	29-Mar-24	
EPA 6010D	Lead	mg/L	0.982	<0.0150	1.00	98.2	75 - 125	X413132 - X4C0341-01	29-Mar-24	
EPA 6010D	Manganese	mg/L	1.05	<0.0080	1.00	104	75 - 125	X413132 - X4C0341-01	29-Mar-24	
EPA 6010D	Vanadium	mg/L	1.00	<0.0050	1.00	100	75 - 125	X413132 - X4C0341-01	29-Mar-24	
EPA 6010D	Zinc	mg/L	1.01	0.0142	1.00	99.2	75 - 125	X413132 - X4C0341-01	29-Mar-24	
EPA 6020B	Arsenic	mg/L	0.0249	<0.00100	0.0250	99.8	75 - 125	X413131 - X4C0341-01	01-Apr-24	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	mg/L	0.974	<0.030	1.00	97.4	90 - 110	X413099 - X4C0341-01	28-Mar-24	
EPA 350.1	Ammonia as N	mg/L	0.987	<0.030	1.00	98.7	90 - 110	X413099 - X4C0342-01	28-Mar-24	
SM 5310B	Total Organic Carbon	mg/L	18.6	9.56	10.0	89.9	80 - 120	X412158 - X4C0371-01	26-Mar-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.42	1.25	3.00	106	90 - 110	X412206 - X4C0342-01	21-Mar-24	
EPA 300.0	Chloride	mg/L	5.04	1.87	3.00	105	90 - 110	X412206 - X4C0342-02	21-Mar-24	
EPA 300.0	Nitrate as N	mg/L	2.11	<0.050	2.00	104	90 - 110	X412206 - X4C0342-01	21-Mar-24	
EPA 300.0	Nitrate as N	mg/L	2.71	0.627	2.00	104	90 - 110	X412206 - X4C0342-02	21-Mar-24	
EPA 300.0	Sulfate as SO4	mg/L	23.3	12.5	10.0	108	90 - 110	X412206 - X4C0342-01	21-Mar-24	
EPA 300.0	Sulfate as SO4	mg/L	32.3	21.9	10.0	105	90 - 110	X412206 - X4C0342-02	21-Mar-24	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total)										
EPA 7470A	Mercury	mg/L	0.00208	0.00208	0.00200	0.1	20	104	X413170 - X4C0341-01	
Metals (Total Recoverable)										
EPA 6010D	Barium	mg/L	1.10	1.09	1.00	1.0	20	106	X413132 - X4C0341-01	
EPA 6010D	Lead	mg/L	0.981	0.982	1.00	0.1	20	98.1	X413132 - X4C0341-01	
EPA 6010D	Manganese	mg/L	1.05	1.05	1.00	0.6	20	105	X413132 - X4C0341-01	
EPA 6010D	Vanadium	mg/L	1.01	1.00	1.00	0.4	20	101	X413132 - X4C0341-01	
EPA 6010D	Zinc	mg/L	0.997	1.01	1.00	0.8	20	98.3	X413132 - X4C0341-01	
EPA 6020B	Arsenic	mg/L	0.0250	0.0249	0.0250	0.4	20	100	X413131 - X4C0341-01	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	mg/L	1.02	0.974	1.00	4.3	20	102	X413099 - X4C0341-01	

One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
www.svl.net

Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X4C0341**
Reported: 03-Apr-24 15:10

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Classical Chemistry Parameters (Continued)										
SM 5310B	Total Organic Carbon	mg/L	18.6	18.6	10.0	0.3	20	90.4	X412158 - X4C0371-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.47	4.42	3.00	1.1	20	107	X412206 - X4C0342-01	
EPA 300.0	Nitrate as N	mg/L	2.13	2.11	2.00	1.1	20	105	X412206 - X4C0342-01	
EPA 300.0	Sulfate as SO4	mg/L	23.5	23.3	10.0	0.8	20	110	X412206 - X4C0342-01	

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X4C0341**
Reported: 03-Apr-24 15:10

Notes and Definitions

LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

Work Order: **X4C0341**
Spokane County Environmental Services (C

SPOKANE COUNTY CHAIN OF CUSTODY FOR GROUNDWATER SAMPLES
MICA LANDFILL COMPLIANCE MONITORING PROGRAM
2023

2.9°C

SVL ANALYTICAL
ONE GOVERNMENT GULCH
KELLOGG, ID 83837-0929
(208) 784-1258 FAX (208) 783-0891
ATTENTION: Sample Receiving

SPOKANE COUNTY ENVIROMENTAL SERVICES
22515 N. ELK CHATTAROY RD.
COLBERT, WASHINGTON 99005
(509) 238-6607 FAX (509) 238-6812
MICA (509)924-5223

SHIPPING CO: UPS
SHIPPING # : K274 663 5663
NUMBER OF COOLERS: 1

DATE: 03/20/24
PAGE 1 of 1

					MONITORING	RESIDENTIAL				
PARAMETERS:			**TOC**	**AMMONIA**	**Cl / SO4 / TDS NO3 / ALKALINITY**	**Cl / SO4 / NO3 ALKALINITY**	**METALS (As / Ba / Pb / Hg Mn / V / Zn)**	**SAMPLERS:** Craig Campbell		
METHOD:			415.1	350.1	300.0/300.0/160.1 300.0 / 2320 B	300.0/300.0/ 200.0 2320B	7060A / 6010B / 7470A			
BOTTLES:			1-40 ml. VOC	1-250 ml POLY BOTTLE	1-500 ml POLY BOTTLE	1-500 ml. POLY BOTTLE	1-500 ml. POLY BOTLE			
LAB:			SVL	SVL	SVL	SVL	SVL			
PRESERVATION:			HCL pH < 2	H2SO4 pH < 2	UNPRESERVED	UNPRESERVED	HN03 Ph< 2 (NOT FILTERED)	COOLER NUMBER	NUMBER BOTTLES	COMMENTS
SAMPLE IDENTIFICATION	**DATE**	**TIME**								
GWDW-002-240320	3/20/2024	1106	1	1		1	1	Box 12	4	

COMMENTS: Please e-mail a sample condition report to Austin and Mike ASAP astewart@spokanecounty.org and mterris@spokanecounty.org

RELINQUISHED BY: Craig Campbell
SIGNATURE: CC
DATE: 03/20/24
PRINT NAME: Craig Campbell
TIME: 1300
COMPANY: SPOKANE COUNTY UTILITIES LANDFILL CLOSURE

RECEIVED BY
SIGNATURE: Melissa DeGiovanni
DATE: 3/21/24
PRINT NAME: Melissa DeGiovanni
TIME: 850
COMPANY: SVL

SAMPLE RECEIPT/CHAIN-OF-CUSTODY CHECKLIST

The following items were checked for completeness, correctness, and compliance to project specifications using the Chain-of-Custody (COC) and other supporting information.

Date of acceptance: 3/21/24 **By:** Melissa D

SVL Work No: X4C0341

Item	Description	V	NA	Comments
1	Client or project name	✓		Spokane County
2	Date and time of receipt at lab	✓		3/21/24 850
3	Received by	✓		mmD
4	Temperature blank or cooler temperature	✓		Temp. 2.9 °C T098/T126
5	Were the sample(s) received on ice	✓		
6	Custody tape/bottle seals	✓		
7	Shipper's air bill	✓		
8	Condition of samples upon receipt (leaking; bubbles in VOA vials)	✓		
9	Analysis requested for each sample	✓		
10	Sample matrix description	✓		
11	The correct preservative for the analysis requested	✓		
12	Did an SVL employee preserve sample(s) upon receipt		✓	
13	Additional Information		✓	

V- Verified **NA- Not Applicable**

Comments:

SVL ANALYTICAL
1 GOVERNMENT GULCH
KELLOGG ID 83837

P: NORTH S: NORTH I: 12C
KELL – 1342
K2746635663
XWHESMJ IDCOE94BUDC MAR 21 05:22:22 2024
US 8380 HIP 24.3.1 ZD621R

ANATEK LABS

Analytical Results Report For:

Spokane County Utilities

Project Number:

X4C0358

Anatek Work Order:

MEC0623

1282 Alturas Drive - Moscow, ID 83843 - 208-883-2839 - moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - 509-838-3999 - spokane@anateklabs.com
4802 Tieton Drive - Yakima, WA 98908 - 509-225-9404 - yakima@anateklabs.com
3019 Gs Center Rd - Wenatchee, WA 98801 - 509-701-8362

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Analytical Results Report

Sample Location: X4C0358-01 (GWDW-002-240320)
Lab/Sample Number: MEC0623-01 Collect Date: 03/20/24 11:06
Date Received: 03/21/24 14:52 Collected By: CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Semivolatiles							
bis(2-Ethylhexyl)phthalate	ND	ug/L	0.500	4/4/24 0:51	MH	EPA 8270E	
Surrogate: 2,4,6-Tribromophenol	*95.9%*		*48-120*	*4/4/24 0:51*	*MH*	*EPA 8270E*	
Surrogate: 2-Fluorobiphenyl	*85.0%*		*57-113*	*4/4/24 0:51*	*MH*	*EPA 8270E*	
Surrogate: 2-Fluorophenol	*89.3%*		*37-110*	*4/4/24 0:51*	*MH*	*EPA 8270E*	
Surrogate: Nitrobenzene-d5	*87.1%*		*65-110*	*4/4/24 0:51*	*MH*	*EPA 8270E*	
Surrogate: Phenol-2,3,4,5,6-d5	*83.9%*		*51-112*	*4/4/24 0:51*	*MH*	*EPA 8270E*	
Surrogate: Terphenyl-d14	*118%*		*57-133*	*4/4/24 0:51*	*MH*	*EPA 8270E*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	3/28/24 13:40	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	3/28/24 13:40	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
Benzene	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	

Anatek Labs, Inc.

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504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Sample Location: X4C0358-01 (GWDW-002-240320)
Lab/Sample Number: MEC0623-01 Collect Date: 03/20/24 11:06
Date Received: 03/21/24 14:52 Collected By: CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Bromobenzene	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	3/28/24 13:40	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	3/28/24 13:40	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	3/28/24 13:40	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	3/28/24 13:40	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*101%*		*70-130*	*3/28/24 13:40*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*103%*		*70-130*	*3/28/24 13:40*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*109%*		*70-130*	*3/28/24 13:40*	*BKP*	*EPA 8260D*	

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504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Sample Location: X4C0358-02 (MWS-2-1-240320)
Lab/Sample Number: MEC0623-02 Collect Date: 03/20/24 00:00
Date Received: 03/21/24 14:52 Collected By: CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.200	3/28/24 11:42	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
2-Chloroethyl vinyl ether	ND	ug/L	2.50	3/28/24 11:42	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	3/28/24 11:42	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
Acetone	2.64	ug/L	2.50	3/28/24 11:42	BKP	EPA 8260D	
Acrolein	ND	ug/L	2.50	3/28/24 11:42	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	2.50	3/28/24 11:42	BKP	EPA 8260D	
Benzene	ND	ug/L	0.200	3/28/24 11:42	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.200	3/28/24 11:42	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	2.50	3/28/24 11:42	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.200	3/28/24 11:42	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.200	3/28/24 11:42	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.200	3/28/24 11:42	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	

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Sample Location: X4C0358-02 (MWS-2-1-240320)
Lab/Sample Number: MEC0623-02 Collect Date: 03/20/24 00:00
Date Received: 03/21/24 14:52 Collected By: CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Isopropylbenzene	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	1.00	3/28/24 11:42	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	3/28/24 11:42	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	3/28/24 11:42	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
Total Xylene	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.200	3/28/24 11:42	BKP	EPA 8260D	
trans-1-4-Dichloro-2-butene	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
Vinyl acetate	ND	ug/L	0.500	3/28/24 11:42	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.200	3/28/24 11:42	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*102%*		*70-130*	*3/28/24 11:42*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*101%*		*70-130*	*3/28/24 11:42*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*109%*		*70-130*	*3/28/24 11:42*	*BKP*	*EPA 8260D*	

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Authorized Signature,

Justin Doty For Todd Taruscio, Laboratory Manager

L4	The associated blank spike recovery was below method acceptance limits. This analyte was not detected in the sample.
M1	Matrix spike recovery was high; the associated blank spike recovery was acceptable. Potential matrix effect
M2	Matrix spike recovery was low; the associated blank spike recovery was acceptable. Potential matrix effect.
PQL	Practical Quantitation Limit
ND	Not Detected
MCL	EPA's Maximum Contaminant Level
Dry	Sample results reported on a dry weight basis
*	Not a state-certified analyte

RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was spiked or duplicated.

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Quality Control Data

Semivolatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEC0990 - SVOC Water										
Blank (BEC0990-BLK1)					Prepared: 03/26/24 09:13- Analyzed: 04/03/24 23:54					
Di (2-ethylhexyl) phthalate	ND		0.500	ug/L						
Surrogate: Phenol-2,3,4,5,6-d5			*38.3*	*ug/L*	*50.0*		*76.7*	*51-112*		
Surrogate: Nitrobenzene-d5			*20.2*	*ug/L*	*25.0*		*80.8*	*65-110*		
Surrogate: Terphenyl-d14			*25.7*	*ug/L*	*25.0*		*103*	*57-133*		
Surrogate: 2-Fluorophenol			*38.2*	*ug/L*	*50.0*		*76.3*	*37-110*		
Surrogate: 2-Fluorobiphenyl			*20.4*	*ug/L*	*25.0*		*81.5*	*57-113*		
Surrogate: 2,4,6-Tribromophenol			*45.1*	*ug/L*	*50.0*		*90.1*	*48-120*		
LCS (BEC0990-BS1)					Prepared: 03/26/24 09:13- Analyzed: 04/03/24 22:57					
Di (2-ethylhexyl) phthalate	4.44		0.500	ug/L	5.00		88.8	60-144		
LCS Dup (BEC0990-BSD1)					Prepared: 03/26/24 09:13- Analyzed: 04/03/24 23:26					
Di (2-ethylhexyl) phthalate	4.68		0.500	ug/L	5.00		93.6	60-144	5.26	32

Quality Control Data

Volatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEC1070 - VOC										
Blank (BEC1070-BLK1)					Prepared & Analyzed: 03/28/24 09:16					
Chloroform	ND		0.500	ug/L						
m/p Xylenes (MCL for total)	ND		0.500	ug/L						
Isopropylbenzene	ND		0.500	ug/L						
Hexachlorobutadiene	ND		0.500	ug/L						
Ethylbenzene	ND		0.500	ug/L						
Dichlorodifluoromethane	ND		0.500	ug/L						
Dibromomethane	ND		0.500	ug/L						
Methyl ethyl ketone (MEK)	ND		2.50	ug/L						
Dibromochloromethane	ND		0.500	ug/L						
cis-1,3-Dichloropropene	ND		0.500	ug/L						
Methyl isobutyl ketone (MIBK)	ND		2.50	ug/L						
Chloromethane	ND		0.500	ug/L						
o-Xylene (MCL for total)	ND		0.500	ug/L						
Chloroethane	ND		0.500	ug/L						
Chlorobenzene (Monochlorobenzene)	ND		0.500	ug/L						
Carbon Tetrachloride	ND		0.500	ug/L						
cis-1,2-Dichloroethylene	ND		0.500	ug/L						
Styrene	ND		0.500	ug/L						
Vinyl Chloride	ND		0.500	ug/L						
Trichloroflouromethane	ND		0.500	ug/L						
Trichloroethene	ND		0.500	ug/L						
trans-1,3-Dichloropropene	ND		0.500	ug/L						
trans-1,2 Dichloroethylene	ND		0.500	ug/L						
n-Butylbenzene	ND		0.500	ug/L						

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEC1070 - VOC (Continued)										
Blank (BEC1070-BLK1)					Prepared & Analyzed: 03/28/24 09:16					
Tetrachloroethylene	ND		0.500	ug/L						
Methylene Chloride (Dichloromethane)	ND		2.50	ug/L						
p-isopropyltoluene	ND		0.500	ug/L						
sec-Butylbenzene	ND		0.500	ug/L						
n-Propylbenzene	ND		0.500	ug/L						
Carbon disulfide	ND		0.500	ug/L						
Naphthalene	ND		0.500	ug/L						
methyl-t-butyl ether (MTBE)	ND		0.500	ug/L						
Toluene	ND		0.500	ug/L						
1,1-Dichloropropene	ND		0.500	ug/L						
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND		0.500	ug/L						
EDB (screening)	ND		0.500	ug/L						
DBCP (screening)	ND		0.500	ug/L						
1,2,4-Trimethylbenzene	ND		0.500	ug/L						
1,2,4-Trichlorobenzene	ND		0.500	ug/L						
1,2-Dichloroethane	ND		0.500	ug/L						
1,2,3-Trichlorobenzene	ND		0.500	ug/L						
1,1,2-Trichlorethane	ND		0.500	ug/L						
1,1-Dichloroethylene	ND		0.500	ug/L						
1,1-Dichloroethane	ND		0.500	ug/L						
1,1,2,2-Tetrachloroethane	ND		0.500	ug/L						
1,1,1,2-Tetrachloroethane	ND		0.500	ug/L						
Bromomethane	ND		0.500	ug/L						
tert-Butylbenzene	ND		0.500	ug/L						
1,2,3-Trichloropropane	ND		0.500	ug/L						
Bromobenzene	ND		0.500	ug/L						
Bromoform	ND		0.500	ug/L						
Bromodichloromethane	ND		0.500	ug/L						
1,1,1-Trichloroethane	ND		0.500	ug/L						
1,2-Dichloropropane	ND		0.500	ug/L						
Bromochloromethane	ND		0.500	ug/L						
Benzene	ND		0.500	ug/L						
Acrylonitrile	ND		0.500	ug/L						
Acetone	ND		2.50	ug/L						
p-Chlorotoluene	ND		0.500	ug/L						
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND		0.500	ug/L						
2-hexanone	ND		2.50	ug/L						
1,3,5-Trimethylbenzene	ND		0.500	ug/L						
o-Chlorotoluene	ND		0.500	ug/L						
m-Dichlorobenzene	ND		0.500	ug/L						
2,2-Dichloropropane	ND		0.500	ug/L						
1,3-Dichloropropane	ND		0.500	ug/L						
Surrogate: Toluene-d8			*21.7*	*ug/L*	*20.0*		*108*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*19.9*	*ug/L*	*20.0*		*99.4*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.5*	*ug/L*	*20.0*		*103*	*70-130*		

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEC1070 - VOC (Continued)										
LCS (BEC1070-BS1)					Prepared & Analyzed: 03/28/24 09:45					
Dichlorodifluoromethane	8.75		0.500	ug/L	10.0		87.5	57-130		
Dibromomethane	10.8		0.500	ug/L	10.0		108	80-120		
Dibromochloromethane	10.4		0.500	ug/L	10.0		104	80-121		
cis-1,3-Dichloropropene	9.53		0.500	ug/L	10.0		95.3	79-123		
cis-1,2-Dichloroethylene	10.3		0.500	ug/L	10.0		103	80-120		
Carbon disulfide	10.5		0.500	ug/L	10.0		105	80-120		
Chloroethane	9.35		0.500	ug/L	10.0		93.5	78-120		
Chlorobenzene (Monochlorobenzene)	8.96		0.500	ug/L	10.0		89.6	80-120		
Carbon Tetrachloride	11.4		0.500	ug/L	10.0		114	80-120		
Ethylbenzene	8.80		0.500	ug/L	10.0		88.0	80-120		
n-Propylbenzene	9.25		0.500	ug/L	10.0		92.5	80-120		
Bromoform	10.1		0.500	ug/L	10.0		101	68-133		
Bromodichloromethane	11.1		0.500	ug/L	10.0		111	80-120		
Chloroform	10.1		0.500	ug/L	10.0		101	80-120		
Hexachlorobutadiene	8.46		0.500	ug/L	10.0		84.6	80-120		
Isopropylbenzene	9.07		0.500	ug/L	10.0		90.7	80-120		
m/p Xylenes (MCL for total)	17.9		0.500	ug/L	20.0		89.3	80-120		
Methyl ethyl ketone (MEK)	9.42		2.50	ug/L	10.0		94.2	55-154		
Methyl isobutyl ketone (MIBK)	8.93		2.50	ug/L	10.0		89.3	70-136		
methyl-t-butyl ether (MTBE)	9.52		0.500	ug/L	10.0		95.2	71-130		
n-Butylbenzene	8.63		0.500	ug/L	10.0		86.3	74-122		
o-Xylene (MCL for total)	8.79		0.500	ug/L	10.0		87.9	80-120		
p-isopropyltoluene	8.88		0.500	ug/L	10.0		88.8	80-120		
sec-Butylbenzene	9.35		0.500	ug/L	10.0		93.5	80-120		
Styrene	8.56		0.500	ug/L	10.0		85.6	80-120		
Bromochloromethane	10.7		0.500	ug/L	10.0		107	80-120		
1,2,4-Trimethylbenzene	9.33		0.500	ug/L	10.0		93.3	80-120		
tert-Butylbenzene	9.09		0.500	ug/L	10.0		90.9	80-120		
Naphthalene	6.96		0.500	ug/L	10.0		69.6	66-133		
1,2-Dichloroethane	10.1		0.500	ug/L	10.0		101	80-120		
1,1,1,2-Tetrachloroethane	9.79		0.500	ug/L	10.0		97.9	80-120		
1,1,1-Trichloroethane	10.4		0.500	ug/L	10.0		104	80-120		
1,1,2,2-Tetrachloroethane	8.97		0.500	ug/L	10.0		89.7	77-123		
1,1,2-Trichlorethane	8.76		0.500	ug/L	10.0		87.6	80-120		
1,1-Dichloroethane	10.3		0.500	ug/L	10.0		103	80-120		
1,1-Dichloroethylene	9.73		0.500	ug/L	10.0		97.3	70-129		
1,1-Dichloropropene	10.5		0.500	ug/L	10.0		105	80-120		
1,2,3-Trichlorobenzene	7.82		0.500	ug/L	10.0		78.2	78-120		
1,2,3-Trichloropropane	9.13		0.500	ug/L	10.0		91.3	80-120		
1,2,4-Trichlorobenzene	7.80	L4	0.500	ug/L	10.0		78.0	80-120		
DBCP (screening)	7.45		0.500	ug/L	10.0		74.5	71-128		
EDB (screening)	8.87		0.500	ug/L	10.0		88.7	70-130		
Bromobenzene	9.06		0.500	ug/L	10.0		90.6	80-120		
1,2-Dichloropropane	10.1		0.500	ug/L	10.0		101	80-120		
1,3,5-Trimethylbenzene	9.26		0.500	ug/L	10.0		92.6	80-121		
m-Dichlorobenzene	8.61		0.500	ug/L	10.0		86.1	80-120		

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEC1070 - VOC (Continued)										
LCS (BEC1070-BS1)					Prepared & Analyzed: 03/28/24 09:45					
1,3-Dichloropropane	8.68		0.500	ug/L	10.0		86.8	80-120		
1,4-Dichlorobenzene (para-Dichlorobenzene)	8.48		0.500	ug/L	10.0		84.8	80-120		
2,2-Dichloropropane	9.89		0.500	ug/L	10.0		98.9	80-120		
o-Chlorotoluene	9.03		0.500	ug/L	10.0		90.3	80-120		
2-hexanone	7.64		2.50	ug/L	10.0		76.4	65-140		
p-Chlorotoluene	9.11		0.500	ug/L	10.0		91.1	80-124		
Acrylonitrile	9.41		0.500	ug/L	10.0		94.1	73-131		
Benzene	10.2		0.500	ug/L	10.0		102	80-120		
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	8.47		0.500	ug/L	10.0		84.7	80-120		
Toluene	10.5		0.500	ug/L	10.0		105	80-120		
trans-1,2 Dichloroethylene	10.0		0.500	ug/L	10.0		100	80-120		
trans-1,3-Dichloropropene	8.04		0.500	ug/L	10.0		80.4	69-130		
Trichloroethene	9.23		0.500	ug/L	10.0		92.3	80-120		
Trichloroflouromethane	11.4		0.500	ug/L	10.0		114	61-140		
Vinyl Chloride	9.66		0.500	ug/L	10.0		96.6	75-120		
Tetrachloroethylene	8.63		0.500	ug/L	10.0		86.3	80-120		
Surrogate: Toluene-d8			*22.1*	*ug/L*	*20.0*		*111*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*20.6*	*ug/L*	*20.0*		*103*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*19.9*	*ug/L*	*20.0*		*99.6*	*70-130*		
Matrix Spike (BEC1070-MS1)		**Source: MEC0632-01**			Prepared & Analyzed: 03/28/24 21:00					
Methyl ethyl ketone (MEK)	10.5		2.50	ug/L	10.0	ND	105	47-165		
m/p Xylenes (MCL for total)	16.9		0.500	ug/L	20.0	ND	84.4	57-130		
Isopropylbenzene	8.68		0.500	ug/L	10.0	ND	86.8	70-130		
Hexachlorobutadiene	7.93		0.500	ug/L	10.0	ND	79.3	70-130		
Ethylbenzene	8.45		0.500	ug/L	10.0	ND	84.5	70-130		
Dichlorodifluoromethane	8.12		0.500	ug/L	10.0	ND	81.2	57-136		
Dibromomethane	10.7		0.500	ug/L	10.0	ND	107	70-130		
Dibromochloromethane	11.4		0.500	ug/L	10.0	ND	114	70-130		
cis-1,3-Dichloropropene	9.84		0.500	ug/L	10.0	ND	98.4	74-124		
Methyl isobutyl ketone (MIBK)	10.4		2.50	ug/L	10.0	ND	104	53-167		
Chloroform	10.1		0.500	ug/L	10.0	ND	101	70-130		
o-Xylene (MCL for total)	8.58		0.500	ug/L	10.0	ND	85.8	62-127		
Chloroethane	11.7		0.500	ug/L	10.0	ND	117	68-138		
Chlorobenzene (Monochlorobenzene)	8.57		0.500	ug/L	10.0	ND	85.7	70-130		
Carbon Tetrachloride	13.3	M1	0.500	ug/L	10.0	ND	133	70-130		
cis-1,2-Dichloroethylene	10.5		0.500	ug/L	10.0	ND	105	70-130		
Styrene	8.19		0.500	ug/L	10.0	ND	81.9	30-130		
Vinyl Chloride	10.2		0.500	ug/L	10.0	ND	102	70-130		
Trichloroflouromethane	11.4		0.500	ug/L	10.0	ND	114	50-154		
trans-1,3-Dichloropropene	8.02		0.500	ug/L	10.0	ND	80.2	61-131		
Toluene	10.4		0.500	ug/L	10.0	ND	104	70-130		
n-Butylbenzene	8.15		0.500	ug/L	10.0	ND	81.5	67-130		
tert-Butylbenzene	8.84		0.500	ug/L	10.0	ND	88.4	70-130		
methyl-t-butyl ether (MTBE)	10.0		0.500	ug/L	10.0	ND	100	57-138		
sec-Butylbenzene	8.85		0.500	ug/L	10.0	ND	88.5	70-130		

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEC1070 - VOC (Continued)										
Matrix Spike (BEC1070-MS1)	**Source: MEC0632-01**				Prepared & Analyzed: 03/28/24 21:00					
p-isopropyltoluene	8.31		0.500	ug/L	10.0	ND	83.1	70-130		
trans-1,2 Dichloroethylene	10.2		0.500	ug/L	10.0	ND	102	70-130		
n-Propylbenzene	8.60		0.500	ug/L	10.0	ND	86.0	70-130		
Carbon disulfide	11.4		0.500	ug/L	10.0	ND	114	70-130		
Naphthalene	7.12		0.500	ug/L	10.0	ND	71.2	56-147		
Tetrachloroethylene	7.17		0.500	ug/L	10.0	ND	71.7	70-130		
1,1-Dichloropropene	10.4		0.500	ug/L	10.0	ND	104	70-130		
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	8.02		0.500	ug/L	10.0	ND	80.2	70-130		
EDB (screening)	8.70		0.500	ug/L	10.0	ND	87.0	70-130		
DBCP (screening)	7.48		0.500	ug/L	10.0	ND	74.8	55-146		
1,2,4-Trimethylbenzene	8.79		0.500	ug/L	10.0	ND	87.9	40-140		
1,1,1,2-Tetrachloroethane	9.90		0.500	ug/L	10.0	ND	99.0	70-130		
Bromoform	11.9		0.500	ug/L	10.0	ND	119	59-140		
1,2,4-Trichlorobenzene	7.28		0.500	ug/L	10.0	ND	72.8	70-130		
1,1-Dichloroethylene	9.57		0.500	ug/L	10.0	ND	95.7	70-130		
1,1-Dichloroethane	10.6		0.500	ug/L	10.0	ND	106	70-130		
1,1,2-Trichlorethane	8.73		0.500	ug/L	10.0	ND	87.3	70-130		
1,1,2,2-Tetrachloroethane	8.82		0.500	ug/L	10.0	ND	88.2	67-136		
1,1,1-Trichloroethane	10.4		0.500	ug/L	10.0	ND	104	70-130		
Trichloroethene	8.51		0.500	ug/L	10.0	ND	85.1	70-130		
1,2,3-Trichloropropane	8.86		0.500	ug/L	10.0	ND	88.6	69-137		
p-Chlorotoluene	8.63		0.500	ug/L	10.0	ND	86.3	70-130		
Bromodichloromethane	11.7		0.500	ug/L	10.0	ND	117	70-130		
1,2,3-Trichlorobenzene	7.31		0.500	ug/L	10.0	ND	73.1	67-134		
1,2-Dichloroethane	10.0		0.500	ug/L	10.0	ND	100	70-130		
Bromobenzene	8.73		0.500	ug/L	10.0	ND	87.3	70-130		
Acrylonitrile	10.5		0.500	ug/L	10.0	ND	105	65-137		
Bromochloromethane	10.9		0.500	ug/L	10.0	ND	109	70-130		
2-hexanone	8.48		2.50	ug/L	10.0	ND	84.8	43-175		
o-Chlorotoluene	8.58		0.500	ug/L	10.0	ND	85.8	70-130		
2,2-Dichloropropane	9.89		0.500	ug/L	10.0	ND	98.9	70-130		
1,4-Dichlorobenzene (para-Dichlorobenzene)	8.07		0.500	ug/L	10.0	ND	80.7	70-130		
1,3-Dichloropropane	8.50		0.500	ug/L	10.0	ND	85.0	70-130		
m-Dichlorobenzene	8.19		0.500	ug/L	10.0	ND	81.9	70-130		
1,3,5-Trimethylbenzene	8.80		0.500	ug/L	10.0	ND	88.0	40-140		
1,2-Dichloropropane	10.3		0.500	ug/L	10.0	ND	103	70-130		
Benzene	10.4		0.500	ug/L	10.0	ND	104	70-130		
Surrogate: Toluene-d8			*22.3*	*ug/L*	*20.0*		*112*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*20.9*	*ug/L*	*20.0*		*104*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*19.9*	*ug/L*	*20.0*		*99.7*	*70-130*		

Anatek Labs, Inc.

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504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEC1070 - VOC (Continued)										
Matrix Spike Dup (BEC1070-MSD1)	**Source: MEC0632-01**				Prepared & Analyzed: 03/28/24 21:29					
Ethylbenzene	8.28		0.500	ug/L	10.0	ND	82.8	70-130	2.03	20
Methyl isobutyl ketone (MIBK)	10.1		2.50	ug/L	10.0	ND	101	53-167	3.12	20
Methyl ethyl ketone (MEK)	10.1		2.50	ug/L	10.0	ND	101	47-165	3.21	20
m/p Xylenes (MCL for total)	16.6		0.500	ug/L	20.0	ND	82.9	57-130	1.79	20
Isopropylbenzene	8.54		0.500	ug/L	10.0	ND	85.4	70-130	1.63	20
Hexachlorobutadiene	7.69		0.500	ug/L	10.0	ND	76.9	70-130	3.07	20
Dichlorodifluoromethane	7.99		0.500	ug/L	10.0	ND	79.9	57-136	1.61	20
Dibromomethane	10.7		0.500	ug/L	10.0	ND	107	70-130	0.0936	20
Dibromochloromethane	11.5		0.500	ug/L	10.0	ND	115	70-130	0.876	20
cis-1,3-Dichloropropene	9.83		0.500	ug/L	10.0	ND	98.3	74-124	0.102	20
cis-1,2-Dichloroethylene	10.3		0.500	ug/L	10.0	ND	103	70-130	1.54	20
Chloroform	9.89		0.500	ug/L	10.0	ND	98.9	70-130	1.70	20
Chlorobenzene (Monochlorobenzene)	8.40		0.500	ug/L	10.0	ND	84.0	70-130	2.00	20
Chloroethane	11.6		0.500	ug/L	10.0	ND	116	68-138	0.860	20
tert-Butylbenzene	8.51		0.500	ug/L	10.0	ND	85.1	70-130	3.80	20
1,2-Dichloroethane	9.97		0.500	ug/L	10.0	ND	99.7	70-130	0.600	20
Trichloroflouromethane	11.3		0.500	ug/L	10.0	ND	113	50-154	0.616	20
Carbon Tetrachloride	13.2	M1	0.500	ug/L	10.0	ND	132	70-130	1.13	20
trans-1,3-Dichloropropene	8.05		0.500	ug/L	10.0	ND	80.5	61-131	0.373	20
trans-1,2 Dichloroethylene	9.91		0.500	ug/L	10.0	ND	99.1	70-130	2.49	20
Trichloroethene	8.43		0.500	ug/L	10.0	ND	84.3	70-130	0.945	20
Tetrachloroethylene	6.96	M2	0.500	ug/L	10.0	ND	69.6	70-130	2.97	20
methyl-t-butyl ether (MTBE)	9.95		0.500	ug/L	10.0	ND	99.5	57-138	0.801	20
Styrene	8.00		0.500	ug/L	10.0	ND	80.0	30-130	2.35	20
sec-Butylbenzene	8.70		0.500	ug/L	10.0	ND	87.0	70-130	1.71	20
p-isopropyltoluene	8.11		0.500	ug/L	10.0	ND	81.1	70-130	2.44	20
o-Xylene (MCL for total)	8.43		0.500	ug/L	10.0	ND	84.3	62-127	1.76	20
n-Propylbenzene	8.48		0.500	ug/L	10.0	ND	84.8	70-130	1.41	20
n-Butylbenzene	7.93		0.500	ug/L	10.0	ND	79.3	67-130	2.74	20
Naphthalene	6.72		0.500	ug/L	10.0	ND	67.2	56-147	5.78	20
Toluene	10.2		0.500	ug/L	10.0	ND	102	70-130	1.94	20
1,1-Dichloroethylene	9.29		0.500	ug/L	10.0	ND	92.9	70-130	2.97	20
EDB (screening)	8.71		0.500	ug/L	10.0	ND	87.1	70-130	0.115	20
DBCP (screening)	7.34		0.500	ug/L	10.0	ND	73.4	55-146	1.89	20
1,2,4-Trimethylbenzene	8.59		0.500	ug/L	10.0	ND	85.9	40-140	2.30	20
1,2,4-Trichlorobenzene	7.00		0.500	ug/L	10.0	ND	70.0	70-130	3.92	20
1,2,3-Trichloropropane	8.87		0.500	ug/L	10.0	ND	88.7	69-137	0.113	20
1,3,5-Trimethylbenzene	8.66		0.500	ug/L	10.0	ND	86.6	40-140	1.60	20
1,1-Dichloropropene	10.1		0.500	ug/L	10.0	ND	101	70-130	2.64	20
1,2-Dichloropropane	10.2		0.500	ug/L	10.0	ND	102	70-130	0.875	20
1,1-Dichloroethane	10.4		0.500	ug/L	10.0	ND	104	70-130	1.24	20
1,1,2-Trichlorethane	8.54		0.500	ug/L	10.0	ND	85.4	70-130	2.20	20
1,1,2,2-Tetrachloroethane	8.76		0.500	ug/L	10.0	ND	87.6	67-136	0.683	20
1,1,1-Trichloroethane	10.2		0.500	ug/L	10.0	ND	102	70-130	2.13	20
1,1,1,2-Tetrachloroethane	9.90		0.500	ug/L	10.0	ND	99.0	70-130	0.00	20
Vinyl Chloride	10.2		0.500	ug/L	10.0	ND	102	70-130	0.490	20

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEC1070 - VOC (Continued)										
Matrix Spike Dup (BEC1070-MSD1)	**Source: MEC0632-01**				Prepared & Analyzed: 03/28/24 21:29					
1,2,3-Trichlorobenzene	7.07		0.500	ug/L	10.0	ND	70.7	67-134	3.34	20
2-hexanone	8.04		2.50	ug/L	10.0	ND	80.4	43-175	5.33	20
Bromoform	12.5		0.500	ug/L	10.0	ND	125	59-140	5.25	20
Bromodichloromethane	11.6		0.500	ug/L	10.0	ND	116	70-130	1.03	20
Bromochloromethane	11.0		0.500	ug/L	10.0	ND	110	70-130	1.19	20
Bromobenzene	8.64		0.500	ug/L	10.0	ND	86.4	70-130	1.04	20
Benzene	10.1		0.500	ug/L	10.0	ND	101	70-130	2.64	20
Acrylonitrile	10.2		0.500	ug/L	10.0	ND	102	65-137	2.51	20
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	7.87		0.500	ug/L	10.0	ND	78.7	70-130	1.89	20
o-Chlorotoluene	8.49		0.500	ug/L	10.0	ND	84.9	70-130	1.05	20
2,2-Dichloropropane	9.88		0.500	ug/L	10.0	ND	98.8	70-130	0.101	20
1,4-Dichlorobenzene (para-Dichlorobenzene)	7.94		0.500	ug/L	10.0	ND	79.4	70-130	1.62	20
1,3-Dichloropropane	8.49		0.500	ug/L	10.0	ND	84.9	70-130	0.118	20
m-Dichlorobenzene	7.98		0.500	ug/L	10.0	ND	79.8	70-130	2.60	20
Carbon disulfide	11.1		0.500	ug/L	10.0	ND	111	70-130	2.76	20
p-Chlorotoluene	8.46		0.500	ug/L	10.0	ND	84.6	70-130	1.99	20
Surrogate: Toluene-d8			*22.3*	*ug/L*	*20.0*		*111*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*20.9*	*ug/L*	*20.0*		*105*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*19.7*	*ug/L*	*20.0*		*98.6*	*70-130*		

Subcontract Order

X4C0358

MEC0623

Due: 04/04/24

Sending Laboratory:
SVL Analytical, Inc.
One Government Gulch
PO Box 929
Kellogg, ID 83837-0929
Phone: 208-784-1258
Project Manager: Dave Tryon

Client:
Spokane County Environmental Services (Colbert)

Project Name:
Routine

Project State of Origin:
Washington

Anatek Labs (ID)
1282 Alturas Drive
Moscow, ID 83843
Phone: 208-883-2839

Government Gulch - PO Box 929
Kellogg ID 83837-0929
(208) 784-1258

Report and Invoice to SVL Analytical, Inc.

Analysis	Due	HT Expires		
SVL ID: X4C0358-01 Client ID: **GWDW-002-240320**			**Ground Water**	**Sampled: 20-Mar-24 11:06**
Spokane County - Sub VOC 8260 (Anatek)	04-Apr-24	03-Apr-24 11:06	DEDICATED QC	
Sub SVOC EPA 8270D				
Containers Supplied:				
VOA amber glass 40mL (A)				
VOA amber glass 40mL (B)				
VOA amber glass 40mL (C)				
Raw Amber Glass (D)				
SVL ID: X4C0358-02 Client ID: **MWS-2-1-240320**			**Ground Water**	**Sampled: 20-Mar-24 00:00**
Spokane County - Sub VOC 8260 (Anatek)	04-Apr-24	03-Apr-24 00:00	DEDICATED QC	
Containers Supplied:				
HCl VOA glass (A)				
HCl VOA glass (B)				

Shipped directly to Anatek

Relinquished by: _____ Date/Time: 3/21/24 Received by: _____ Date/Time: _____

Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____

SPOKANE COUNTY CHAIN OF CUSTODY FOR GROUNDWATER SAMPLES
MICA LANDFILL COMPLIANCE MONITORING PROGRAM
2024

LABORATORY:
ANATEK LAB-MOSCOW
1282 ALTURAS DR
MOSCOW, IDAHO 83843
(208) 883-2839
ATTENTION: Sample Receiving

CLIENT:
SPOKANE COUNTY ENVIROMENTAL SERVICES
22515 N. ELK CHATTAROY RD.
COLBERT, WASHINGTON 99005
(509) 238-6607 FAX (509) 238-6812
MICA (509) 924-5223

SHIPPING CO: UPS
SHIPPING # K274 663 5861
OF COOLERS: 1

DATE: 03/20/24
PAGE 1 of 1

PARAMETERS:			VOLATILES	SEMI VOLATILES BEHP	SAMPLERS: Craig Campbell		
METHOD:			8260C	8270D			
BOTTLES:			3-40 ml. VOA'S	1 LITER AMBER GLASS			
LAB:			ANATEK LAB	ANATEK LAB			
PRESERVATION:			HCl pH<2	UNPRESERVED	NUMBER OF BOTTLES	COOLER NUMBER	COMMENTS
SAMPLE IDENTIFICATION	DATE	TIME					
GWDW-002-240320	3/20/2024	1106	3	1	4	L2	
MWS-2-1-240320	3/20/2024	n/a			2	L2	Trip Blanks

COMMENTS: Please e-mail a sample condition report to Austin and Mike ASAP; astewart@spokancounty.org & mterris@spokanecounty.org

RELINQUISHED BY: Craig Campbell
SIGNATURE:
DATE: 03/20/24
PRINT NAME: Craig Campbell
TIME: 1300
COMPANY: SPOKANE COUNTY UTILITIES LANDFILL CLOSURE

RECEIVED BY: TB
SIGNATURE:
DATE: 3/21/24
PRINT NAME:
TIME: 10:30
COMPANY:

Anatek Labs, Inc.

Sample Receipt and Preservation Form

Client Name: Spokane County

TAT: (Normal) RUSH: _____ days

Samples Received From: FedEx (UPS) USPS Client Courier Other: _____

Custody Seal on Cooler/Box: (Yes) (No) Custody Seals Intact: (Yes) No N/A

Number of Coolers/Boxes: 1 Type of Ice: (Wet Ice) Ice Packs Dry Ice None

Packing Material: (Bubble Wrap) (Bags) Foam/Peanuts Paper None Other: _____

Cooler Temp As Read (°C): 3.8 °C Cooler Temp Corrected (°C): — Thermometer Used: IR-4 (IR-5)

				Comments:
Samples Received Intact?	(Yes)	No	N/A	
Chain of Custody Present/Complete?	(Yes)	No	N/A	
Labels and Chains Agree?	(Yes)	No	N/A	
Samples Received Within Hold Time?	(Yes)	No	N/A	
Correct Containers Received?	(Yes)	No	N/A	
Anatek Bottles Used?	(Yes)	No	Unknown	
Total Number of Sample Bottles Received: 6				

				Initial pH:	pH Paper ID:
Samples Properly Preserved?	(Yes)	No	N/A	<2 or	
If No, record preservation and pH-after details					
VOC Vials Free of Headspace (<6mm)?	(Yes)	No	N/A		
VOC Trip Blanks Present?	(Yes)	No	N/A		

Record preservatives (and lot numbers, if known) for containers below:

GIL 8270

644 8260 HCl x 3 + 2 TB

Notes, comments, etc. (also use this space if contacting the client - record names and date/time)

Emailed sud for autolog TB 3/21/24

Received/Inspected By: TB Date/Time: 3/21/24 10:30