Spokane County
PUBLIC WORKS

August 8, 2023

Washington Department of Ecology
Attn: Kristin Beck
4601 N Monroe St.
Spokane, WA 99205

RE: Greenacres Landfill Remediation Project Annual Report 2023

Dear Kristin,

Enclosed is a copy of the Greenacres Landfill Remediation Project Annual Report for May 2023.

If you have any comments or questions, please call me at (509) 238-6607.

Sincerely,

Austin Stewart
Water Resources Specialist

Enc.

GREENACRES LANDFILL ANNUAL PROGRESS REPORT
May 2023

Spokane County
WASHINGTON

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TABLES

FIGURES

1. INTRODUCTION

GREENACRES LANDFILL INFORMATION SUMMARY

SITE:	Greenacres Landfill Section 16, T 25N, R 45E in Spokane County, WA
REPORTING PERIOD:	November 30, 2022 through May 31, 2023.
REGULATORY AUTHORITY:	Washington State Department of Ecology, EPA Scope of work as stated in Consent Decree No. DE98TC-E105.
TECHNOLOGY:	Construction of landfill cover with negative pressure gas collection system to biofilter filtration system.
CRITERIA:	Criteria were established as stated in the Consent Decree. See Table 1-1.
SAMPLING PROGRAMS:	The Annual groundwater sampling program was performed in accordance with the Greenacres Landfill SAP and the Final Cleanup Action Plan (CAP). Due to a variance between Spokane County and Ecology, the sampling schedule was switched from November to May. Annual sampling was performed in May 2023. See Figure 1-1 for well locations, Table 1-2 for well summary, and Table 1-3 for sampling schedule.

Greenacres Landfill Clean-up Criteria

Table 1-1 Greenacres Landfill Groundwater Clean-up Criteria Summary

ANALYTE	ANALYTE ABBREVIATION	CLEAN-UP CRITERIA	UNITS
Volatile Organic Compounds			
1,2 Dichloroethane	1,2-DCA	5	ug/L
1,2-Dichloroethene (total)	1,2-DCE (total)	50	ug/L
Tetrachloroethene	PCE	5	ug/L
Trichloroethene	TCE	5	ug/L
Vinyl Chloride	VC	1	ug/L
Semi-Volatile Organics			
Bis(2-ethylhexyl)phtalate	BEHP	4	ug/L
Pentachlorophenol	PCP	1	ug/L
Metals			
Antimony	Sb	0.005	mg/L
Arsenic	As	0.005	mg/L
Lead	Pb	0.05	mg/L
Manganese	Mn	0.05	mg/L
Chromium	Cr	0.08	mg/L

Greenacres Landfill Site Location

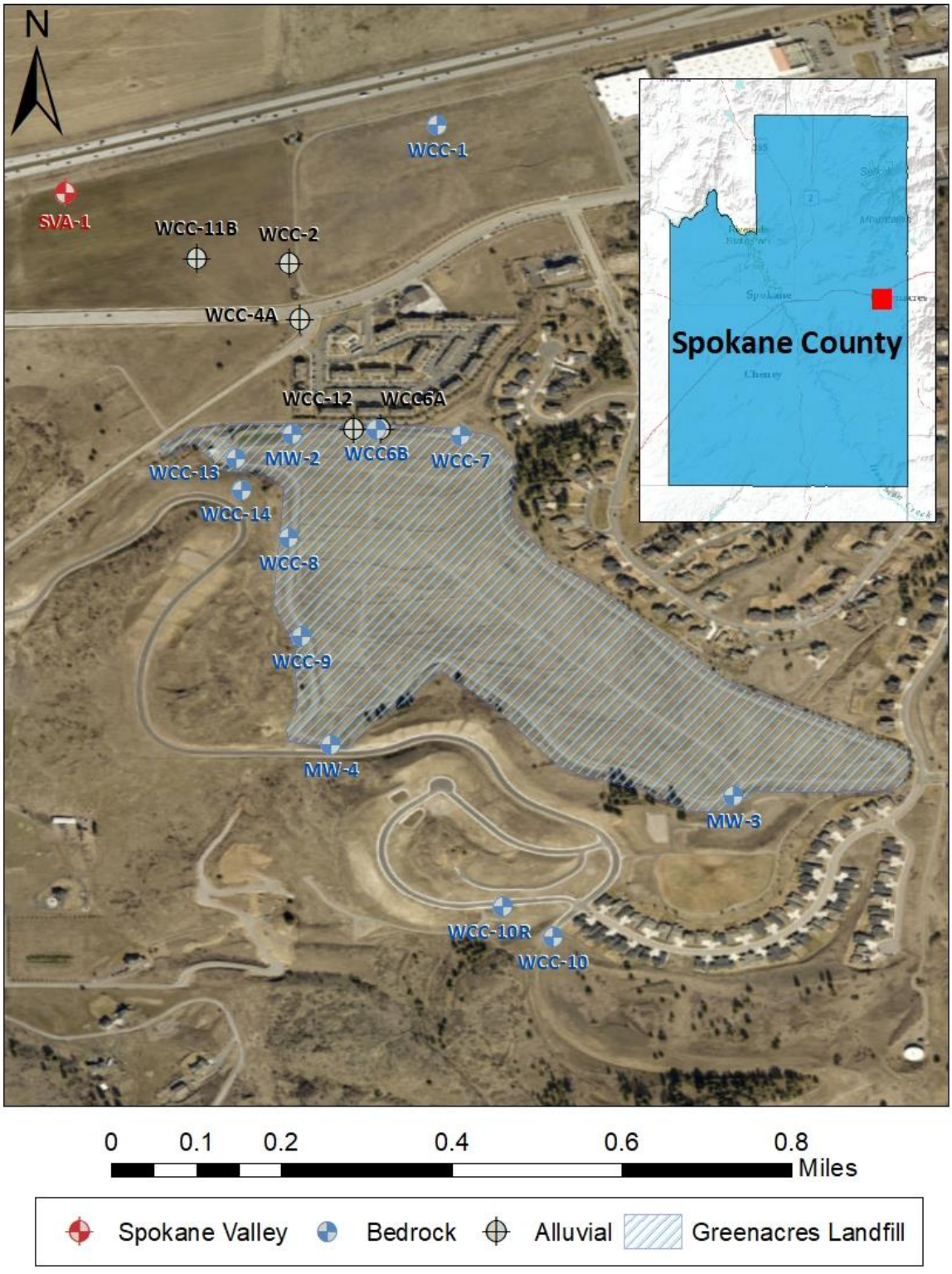


Figure 1-1: Greenacres Landfill Site Map

Greenacres Landfill Monitoring Well Information

Table 1-2: Greenacres Landfill Groundwater Monitoring Well Summary

Monitoring Well Number	Well Diameter (inches)	Well Head Elevation: Top PVC (ft MSL)	Total Boring Depth (ft)	Screened Interval Depth (ft)
Alluvial Aquifer				
SVA1	2	2054.47	127	114-124
WCC11A	2	2054.7	161	112-117
WCC11B	2	2055	161	129-139
WCC12	2	2093.2	106	90-100
WCC2	2	2059.3	123	113-123
WCC4A	2	2068.3	138	125-135
WCC6A	2	2093.9	99	85-95
Bedrock Aquifer				
MW2	4	2091.8	120	110-115
MW3	4	2305.64	57	49-54
MW4	2	2250.62	42	30-40
WCC1	2	2054.5	124	114-124
WCC10	2	2352.8	43	33-43
WCC13	2	2097.6	107	51-61
WCC14	2	2131.8	109	99-109
WCC3	2	2058.46	135	125-135
WCC5	2	2065.5	165	155-165
WCC6B	2	2093	136	126-136
WCC7	2	2105.4	86	76-86
WCC8	2	2162.5	111	100-110
WCC9	2	2204.8	45	35-45

Greenacres Landfill Sampling Schedule

Table 1-3: Greenacres Landfill Sampling Schedule

WELL NUMBER	FIELD PARAMETERS	VOC'S	PCP	BEHP	Metals I	Metals II	STATIC WATER LEVEL
SVA1	Annually	Annually	Annually	Annually	Annually	Annually	Annually
WCC-2	Annually	Annually	Annually	Annually	Annually	Annually	Annually
WCC-4A	Annually	Annually	Annually	Annually	Annually	Annually	Annually
WCC-11B	Annually	Annually	Annually	Annually	Annually	Annually	Annually
WCC-12	Annually	Annually	Annually	Annually	Annually	Annually	Annually
WCC-1	Annually	Annually	Annually	Annually	Annually	Annually	Annually
WCC-7	Annually	Annually	Annually	Annually	Annually	Annually	Annually
WCC-8	Annually	Annually	Annually	Annually	Annually	Annually	Annually
WCC-9	Annually	Annually	Annually	Annually	Annually	Annually	Annually
WCC-10R	Annually	Annually	Annually	Annually	Annually	Annually	Annually

Note: VOC's are PCE, 1,2-DCA, 1,2-DCE, TCE, and Vinyl Chloride

Metals I are arsenic and manganese

Metals II are antimony, chromium, and lead

Static water levels will be taken quarterly at all groundwater-monitoring wells on-site where possible

2. GROUNDWATER

PROBLEMS/DEVIATIONS

Alluvial monitoring well WCC-12 was purged to the intakes and allowed to recharge before obtaining groundwater samples. Spokane County personnel observed heavy road construction occurring near alluvial monitoring wells WCC-2 and WCC-11B. The turbidity value for WCC-2 continues to remain significantly higher compared to previous sampling events. County personnel continued to observe high conductivity and turbidity values in WCC-10R since the observed surface water in the manhole housing for the well on November 2022.

FIELD DATA

Groundwater elevation measurements for this annual reporting period are presented in Table 2-1. Field parameters are shown in Table 2-2. Field sheets for the May 2023 sampling event are presented in *Appendix A: Groundwater Sampling Field Sheets*. The highest turbidity values were seen in wells WCC-10R (bedrock) and WCC-2 (alluvial). Highest conductivities found were present in WCC-12 (alluvial) and WCC-10R (bedrock).

CRITERIA EXCEEDANCE

All sample results exceeding the clean-up criteria are presented in Table 2-3. Concentrations exceeding clean-up criteria were found in 2 alluvial wells during this reporting period. Alluvial well WCC-11B exceeded the criteria for PCE, and alluvial well WCC12 exceeded the criteria for arsenic, manganese, and Vinyl chloride. Bedrock well WCC-10R and alluvial well WCC-2 exhibited manganese concentrations that exceeded the criteria in 2021, but concentrations decreased below the criteria during the 2022 reporting period. Concentrations continued to remain under the cleanup criteria for the May 2023 sampling event. Detection/exceedance geospatial maps for analytes that exceeded the criteria are presented in Figure 2-5 through Figure 2-8.

TREND ANALYSIS

Statistical trend analysis was performed on chemical data from 1994 to present date using Sen's non-parametric trend test (99% confidence). Statistically significant trends are included in Table 2-8. There were no statistically significant increasing trends during this reporting period. Most of the statistically significant decreasing trends are found in the alluvial monitoring wells.

Alluvial:

Alluvial well WCC-11B continues to show decreasing trends for PCE. WCC-12 continues to exhibit decreasing trends for 1,2-DCA, cis-1,2-DCE, VC, and Manganese. WCC-2 has statistically significant decreasing trends for cis-1,2-DCE, PCE, and Manganese. WCC-4A contains the highest amount of statistically significant decreasing trends, which includes: 1,2-DCA, cis-1,2-DCE, PCE, TCE, VC, and Manganese. Out of the 4 analytes that exceeded the cleanup criteria during this reporting period, 3 of them (PCE, VC, and Manganese) continue to show statistically significant decreasing trends.

Bedrock:
Bedrock wells WCC-1, WCC-7, and WCC-9 all show statistically significant decreasing trends for PCE. WCC-8 also exhibited a decreasing trend for cis-1,2-DCE.

CHEMICAL DATA

Table 2-4 presents volatile organic compound analytical results for the annual reporting period. Semi-volatile organic results are shown in Table 2-5, conventionals results are presented in Table 2-6, and metals analytical results are shown in Table 2-7. Figure 2-9 through Figure 2-13 present time-series plots for alluvial aquifer well analyte concentrations. Time-series plots for bedrock well analyte concentrations are shown in Figure 2-19 through Figure 2-23. Laboratory analytical results are presented in *Appendix B: Laboratory Results*.

VOC's:
The alluvial aquifer wells had detectable concentrations for 1,2-DCA, CFC-11, CFC-12, cis-1,2-DCE, PCE, TCE, VC, benzene, and toluene during the May sampling event. Alluvial aquifer well WCC-11B was the only well with PCE concentrations remaining above the criteria. While PCE concentrations for WCC-11B have remained on a decreasing trend since 2003, PCE concentrations continue to exhibit increases in concentrations starting in November 2022. Low concentrations of PCE were detected in the bedrock aquifer well WCC-7, and the alluvial aquifer well WCC-4A. Low concentrations of cis-1,2-Dichloroethene were detected in alluvial wells WCC-12, WCC-11B, and WCC-4A. Cis-1,2-DCE concentrations for WCC-12 appear to be on an increasing trend since 2016. Vinyl chloride concentrations in WCC-12 exceeded the criteria. There were detections for TCE in alluvial wells WCC-11B and WCC-12, but the concentrations continue to remain under the criteria. The bedrock aquifer well WCC-7 exhibited detectable PCE concentrations during this reporting period. Most detectable VOC concentrations for all Greenacres monitoring wells exhibited decreases in concentrations over the last 5 years until November 2021, when several VOCs began to exhibit increases in concentrations (PCE for WCC-11B, TCE for WCC-12 and WCC-11B, and PCE for WCC-7). These increases in concentrations appear to coincide with groundwater elevation increases in these wells.

SVOC's:
There were no detections for any SVOCs during this reporting period. All detectable SVOCs within the past 5 years have shown a decrease in concentrations.

Conventionals:
Low concentrations of nitrate were found in alluvial well WCC-2 and bedrock wells WCC-8, WCC-9, and WCC-10R. Detectable concentrations for nitrate have decreased/plateaued for all alluvial and bedrock wells over the last 5 years, with the exception of alluvial well WCC-2 (currently increasing).

Metals:
Alluvial aquifer well WCC-12 exhibited detectable concentrations of arsenic and Manganese over the cleanup criteria for the May sampling event. Alluvial aquifer monitoring wells WCC-2 and WCC-4A had detectable concentrations of manganese during this reporting period. WCC-10R had detectable concentrations of arsenic during the November 2022 sampling event, but concentrations decreased below detection for

the May 2023 event. The detectable arsenic concentrations in WCC-10R appeared to coincide with the presence of construction activities and surface water in the manhole that houses the well/well casing. Lead, antimony, and chromium were not found in any of the monitoring wells sampled during this reporting period.

SUMMARY

While most analyte laboratory results remained consistent with previous concentrations/trends, there were several unexpected results found from the May 2023 sampling event. PCE and TCE concentrations for WCC-11B, TCE and arsenic concentrations for WCC-12, PCE concentrations for WCC-7, and arsenic concentrations for WCC-10R continued to exhibit increasing concentration trends that were inconsistent with previously plateauing or decreasing concentration trends. These increases in analyte concentrations appear to coincide with increases in groundwater elevations and construction activities within the vicinity of the Greenacres Landfill. Manganese concentrations for bedrock well WCC-10R and alluvial well WCC-2 continue to remain below the criteria, and there were no statistically significant changes in the analyte concentration trend analysis results. In general, the alluvial unit monitoring wells had higher analyte concentrations and detections than the bedrock unit wells. The highest concentrations of analytes tend to be near the northern edge of the landfill.

DATA VALIDATION

Analytical data for the May 2023 sampling event was reviewed using quality control (QC) criteria established in the Greenacres Landfill Sampling and Analysis Plan (SAP). No laboratory analytical data was qualified during this reporting period.

Qualified Data:

StationID	SampleDate	Analyte	SampleID	RptLimit	Units	Result	Qualifier	Type

There were no qualified laboratory analytical data during this reporting period.

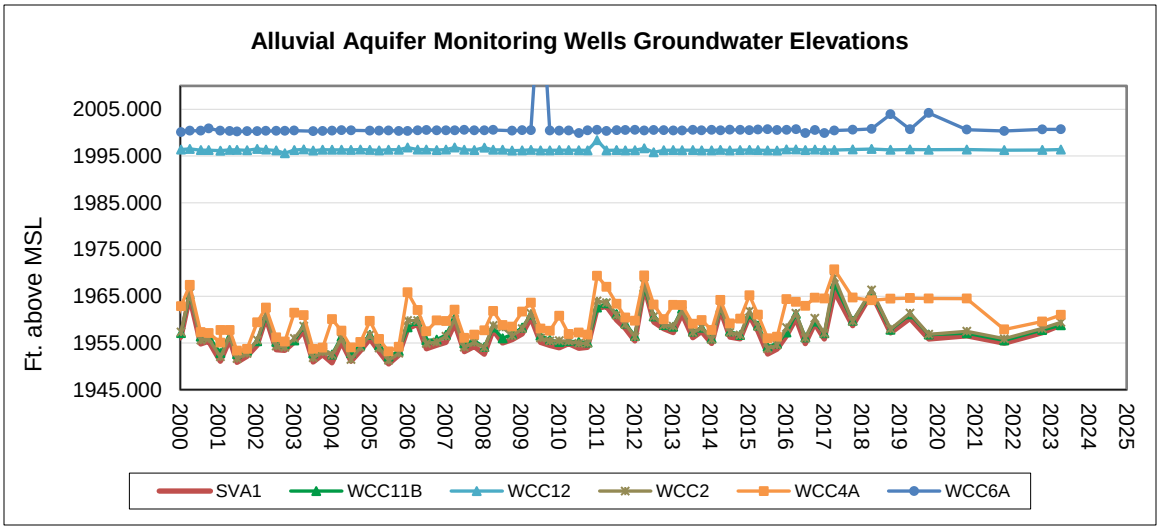
Greenacres Landfill Groundwater Elevations

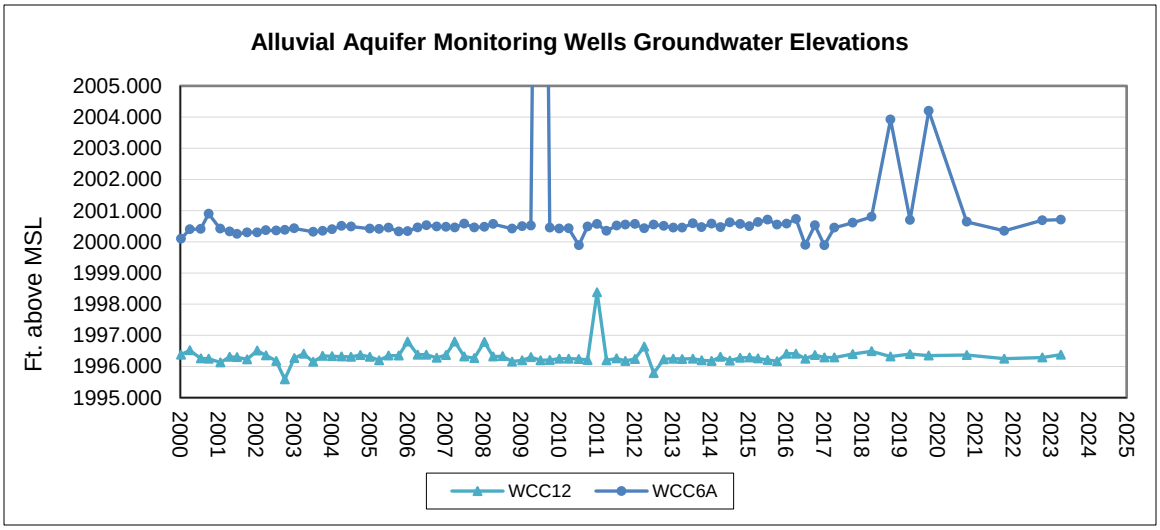
Table 2-1 Greenacres Landfill Groundwater Elevation Data

StationID	Unit	5-2023*
SVA1	Alluvial Aquifer	1958.84
WCC11A	Alluvial Aquifer	1958.86
WCC11B	Alluvial Aquifer	1958.79
WCC12	Alluvial Aquifer	1996.38
WCC2	Alluvial Aquifer	1959.41
WCC4A	Alluvial Aquifer	1961.00
WCC6A	Alluvial Aquifer	2000.71
MW2	Bedrock Aquifer	2054.36
WCC1	Bedrock Aquifer	1960.19
WCC10R	Bedrock Aquifer	2336.92
WCC13	Bedrock Aquifer	2063.82
WCC6B	Bedrock Aquifer	2031.13
WCC7	Bedrock Aquifer	2034.46
WCC8	Bedrock Aquifer	2109.40
WCC9	Bedrock Aquifer	2180.83

*Water Elevations: ft above MSL

Figure 2-1 Alluvial Aquifer Groundwater Elevations vs. Time





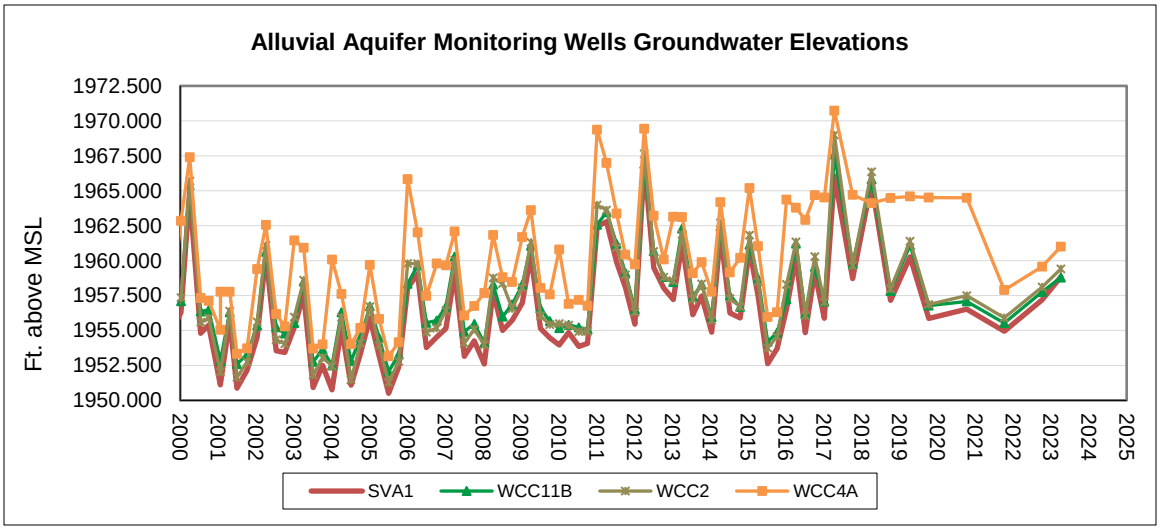
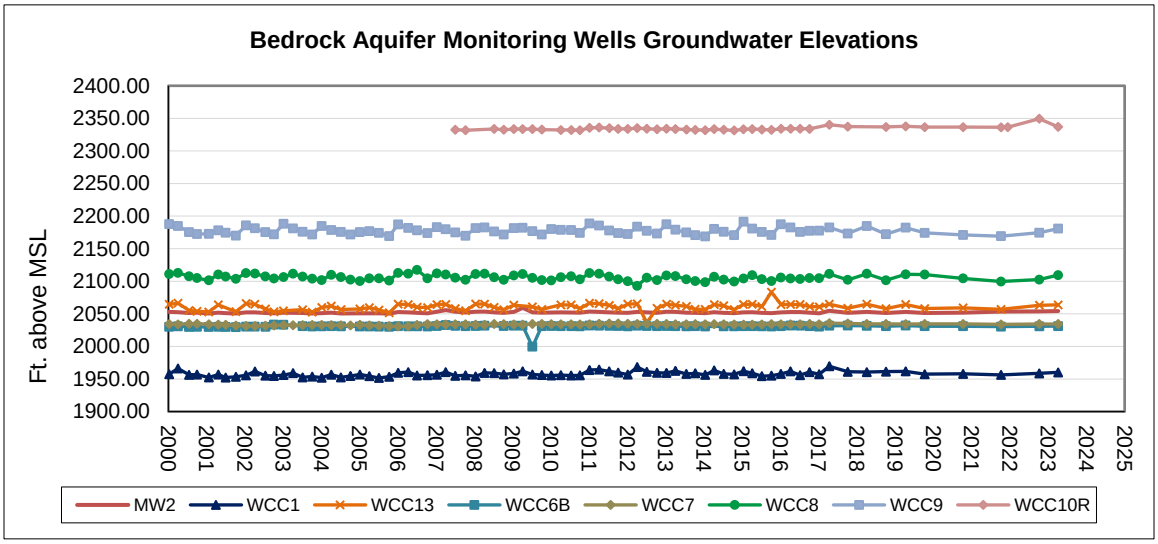
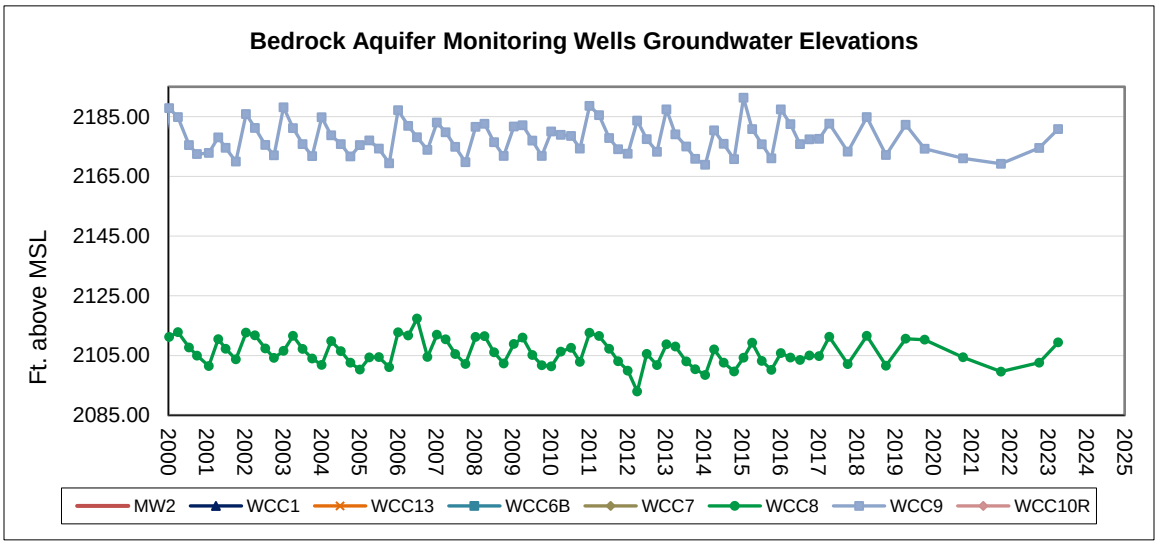
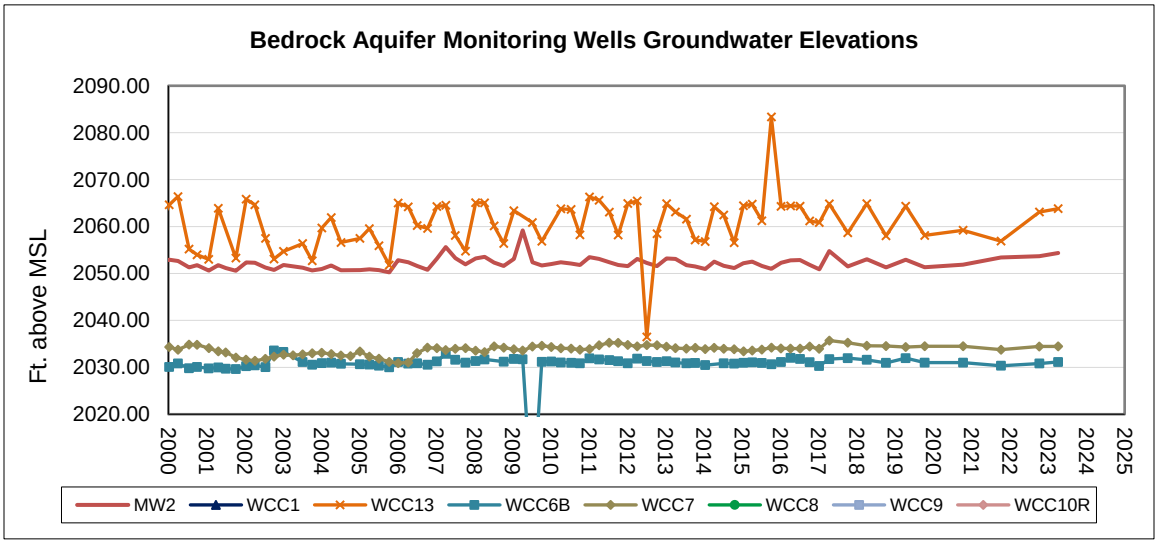


Figure 2-2 Bedrock Aquifer Groundwater Elevations vs. Time







Greenacres Estimated Groundwater Contours

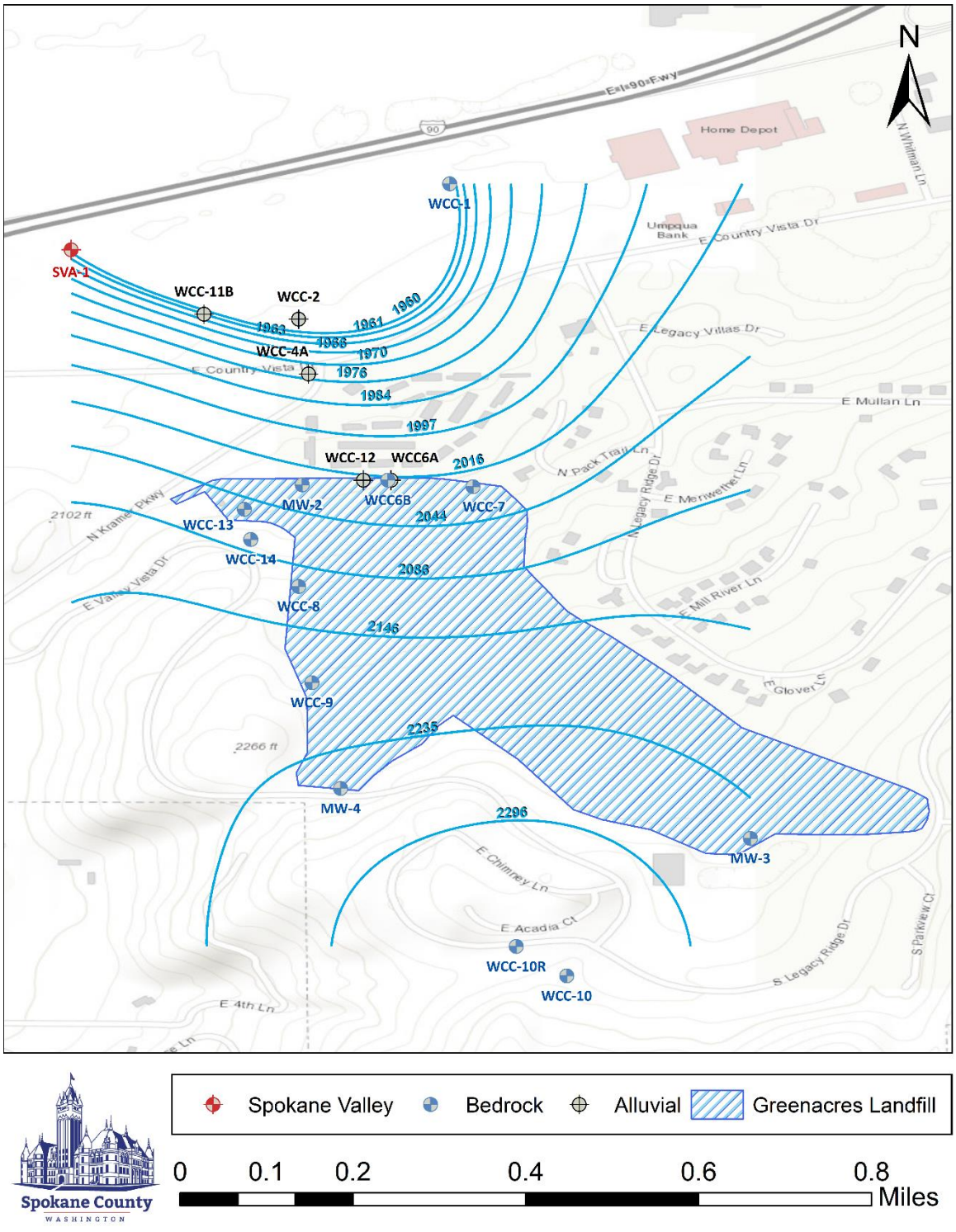


Figure 2-3: Greenacres Landfill Estimated Groundwater Contours – 2023

Greenacres *Groundwater Elevations Map*

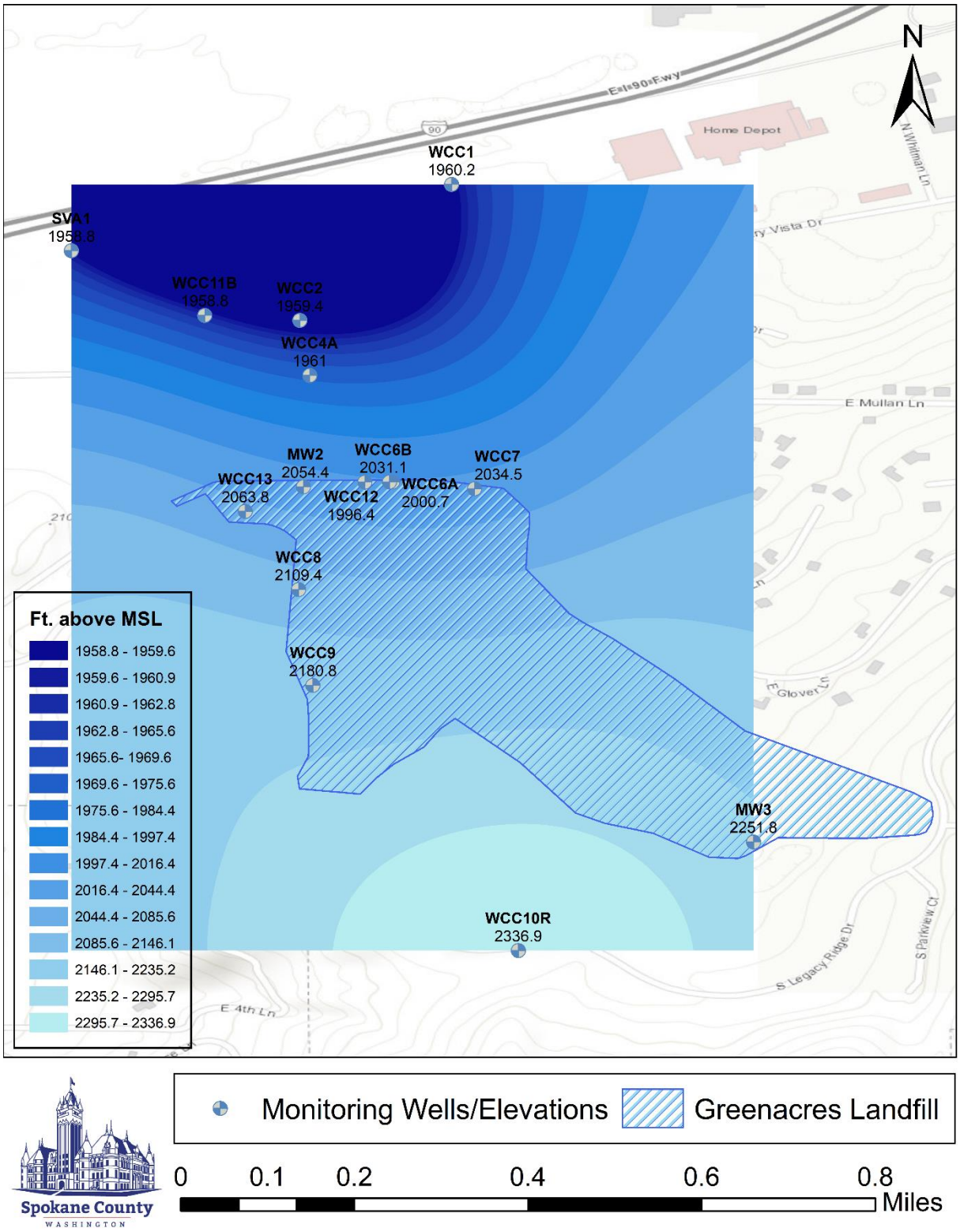


Figure 2-4: Greenacres Landfill Groundwater Elevations

Greenacres Landfill Field Parameters

Table 2-2 Greenacres Landfill Annual Monitoring Well Field Parameters

StationID	Unit	SampleDate	Temp*	PH*	Conductivity*	Turbidity*
SVA1	Alluvial Aquifer	11/2/2022	11.6	8	173	0.21
SVA1	Alluvial Aquifer	5/2/2023	11	7.93	220	0.18
WCC11B	Alluvial Aquifer	11/2/2022	11.9	7.42	726	0.24
WCC11B	Alluvial Aquifer	5/2/2023	12	7.5	736	0.21
WCC12	Alluvial Aquifer	11/3/2022	13.6	6.61	1046	1.12
WCC12	Alluvial Aquifer	5/2/2023	17.5	6.52	977	1.39
WCC2	Alluvial Aquifer	11/2/2022	10	7.46	442	11.21
WCC2	Alluvial Aquifer	5/2/2023	11.8	7.28	516	13.01
WCC4A	Alluvial Aquifer	11/2/2022	11.2	6.81	691	0.36
WCC4A	Alluvial Aquifer	5/2/2023	11.9	6.95	703	0.26
WCC1	Bedrock Aquifer	11/2/2022	11.9	7.9	516	0.27
WCC1	Bedrock Aquifer	5/2/2023	12.9	7.79	480	0.24
WCC10R	Bedrock Aquifer	1/5/2022	11.5	7.79	320	6.7
WCC10R	Bedrock Aquifer	11/2/2022	10.6	8.05	164	5.61
WCC10R	Bedrock Aquifer	5/2/2023	12.4	9.26	1056	4.5
WCC7	Bedrock Aquifer	11/2/2022	11.7	7.49	763	0.13
WCC7	Bedrock Aquifer	5/2/2023	12.9	7.42	819	0.22
WCC8	Bedrock Aquifer	11/2/2022	11	6.76	141	0.47
WCC8	Bedrock Aquifer	5/2/2023	12.9	7.02	141	0.25
WCC9	Bedrock Aquifer	11/2/2022	10.8	6.38	139	0.41
WCC9	Bedrock Aquifer	5/2/2023	11	6.4	90	0.17

* Temp: Degrees C, Conductivity: umhos/cm, Turbidity: NTU

Greenacres Landfill Criteria Exceedances

Table 2-3: Greenacres Landfill Clean-up Criteria Exceedances

Unit	SampleDate	Concentration	Criteria	units	Analyte	Type
Alluvial Aquifer	5/2/2023	9.18	5	ug/L	PCE	V
Alluvial Aquifer	5/2/2023	0.0469	0.005	mg/L	As	I
Alluvial Aquifer	5/2/2023	1.8	0.05	mg/L	Mn	I
Alluvial Aquifer	5/2/2023	2.05	1	ug/L	VC	V

Criteria Exceedances – Summary of changes from 2022 to 2023:

StationID	Unit	Analyte	Summary of change
N/A	N/A	N/A	No changes in analyte concentrations exceedances during this period.

Greenacres Landfill Volatile Organic Compound Detections

Table 2-4: Greenacres Landfill Annual Volatile Organic Results (ug/L)

StationID	Unit	SampleDate	1,2-DCA	CFC 12	cis-1,2-DCE	PCE	TCE	VC	CFC-11	Benzene	Toluene
WCC11B	Alluvial Aquifer	5/2/2023		1.45	0.54	**9.18**	1.23		0.54		
WCC12	Alluvial Aquifer	5/2/2023	1.26		7.94		0.6	**2.05**			
WCC4A	Alluvial Aquifer	5/2/2023			2.56	1.22				1.15	1.33
WCC7	Bedrock Aquifer	5/2/2023				1.78					

*Criteria exceedances are in **RED**

Greenacres Landfill Semi-Volatile Organic Compound Detections

Table 2-5: Greenacres Landfill Annual Semi-Volatile Organic Results (ug/L)

StationID	Unit	SampleDate	SVOC

Criteria exceedances are in **RED**

All SVOC concentrations were non-detection at the designated detection limit(s) during this reporting period.

Greenacres Landfill Conventional Detections

Table 2-6: Greenacres Landfill Annual Conventionals Results (mg/L)

StationID	Unit	SampleDate	NO3
WCC10R	Bedrock Aquifer	5/2/2023	1.1
WCC2	Alluvial Aquifer	5/2/2023	2.67
WCC8	Bedrock Aquifer	5/2/2023	1.33
WCC9	Bedrock Aquifer	5/2/2023	2.42

*Criteria exceedances are in **RED**

Greenacres Landfill Inorganic Detections

Table 2-7: Greenacres Landfill Annual Metals Results (mg/L)

StationID	Unit	SampleDate	As	Mn
WCC12	Alluvial Aquifer	5/2/2023	**0.0469**	**1.8**
WCC2	Alluvial Aquifer	5/2/2023		0.0207
WCC4A	Alluvial Aquifer	5/2/2023		0.0205

*Criteria exceedances are in **RED**

VOC detections/exceedance maps – Tetrachloroethene

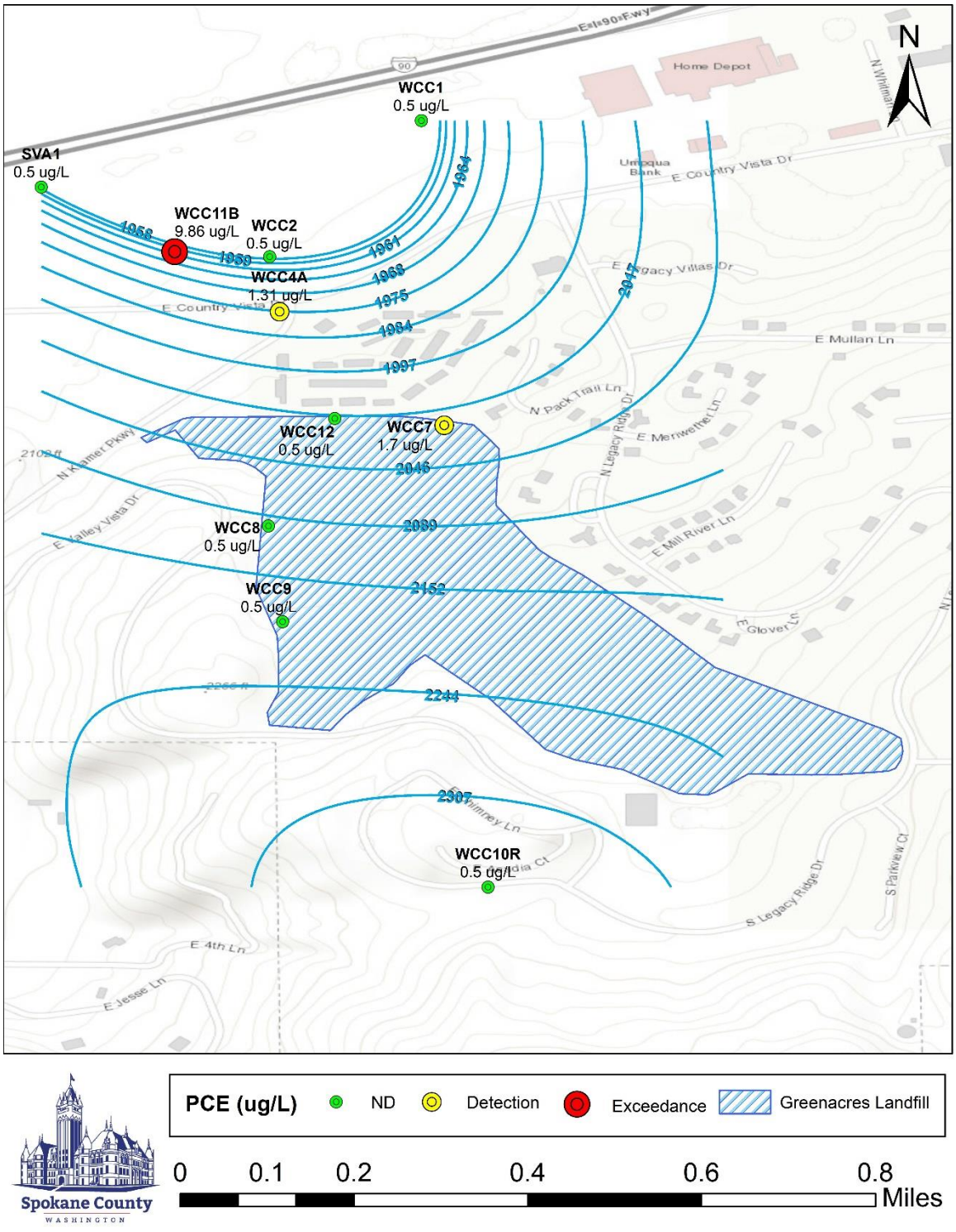


Figure 2-5: Tetrachloroethene detections/exceedance map – 2023

VOC Detections/Exceedance Maps – Vinyl chloride

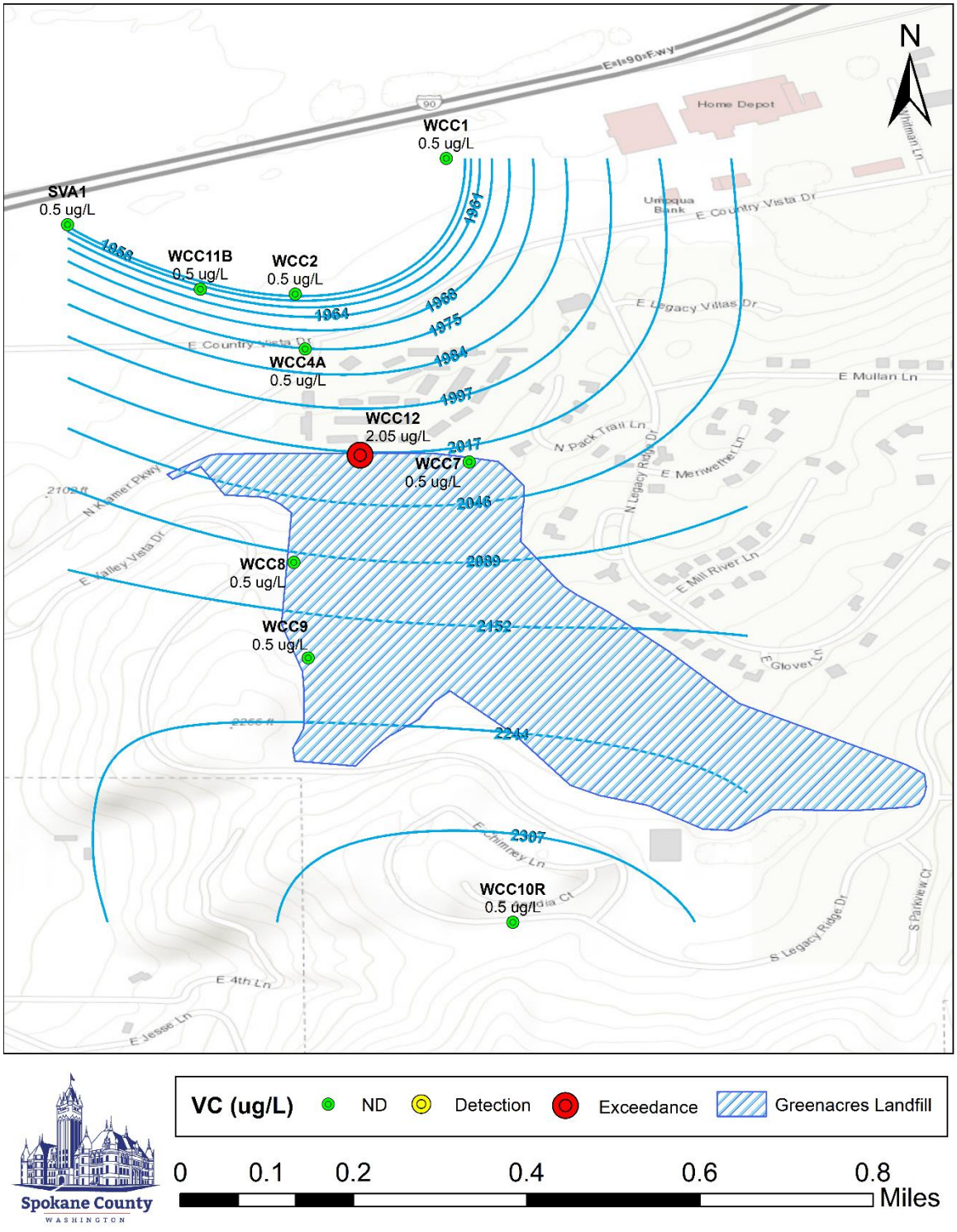


Figure 2-6: Vinyl chloride detections/exceedance map - 2023

Inorganics Detections/Exceedance Maps – Manganese

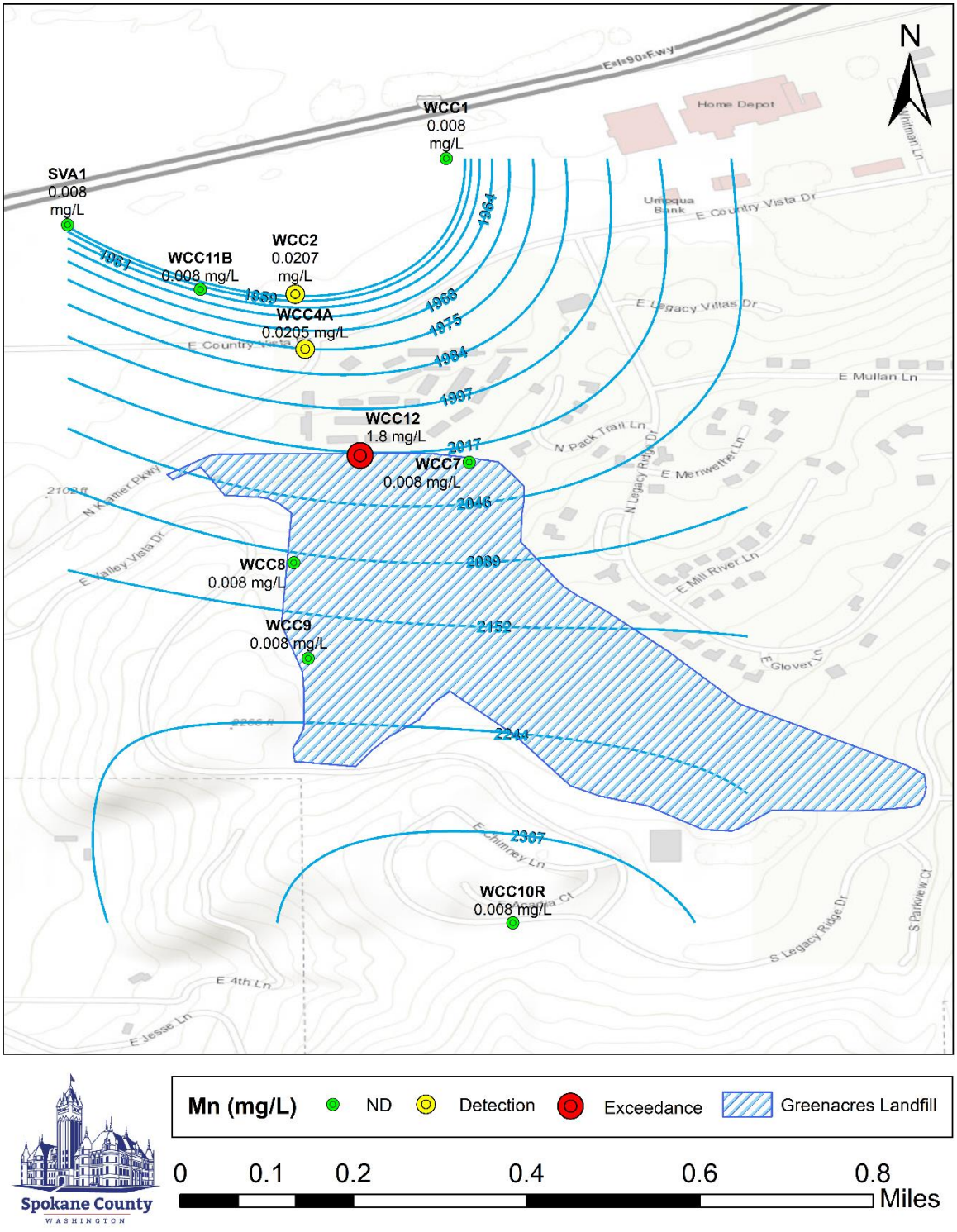


Figure 2-7: Manganese detections/exceedance map – 2023

Inorganic Detections/Exceedance Maps – Arsenic

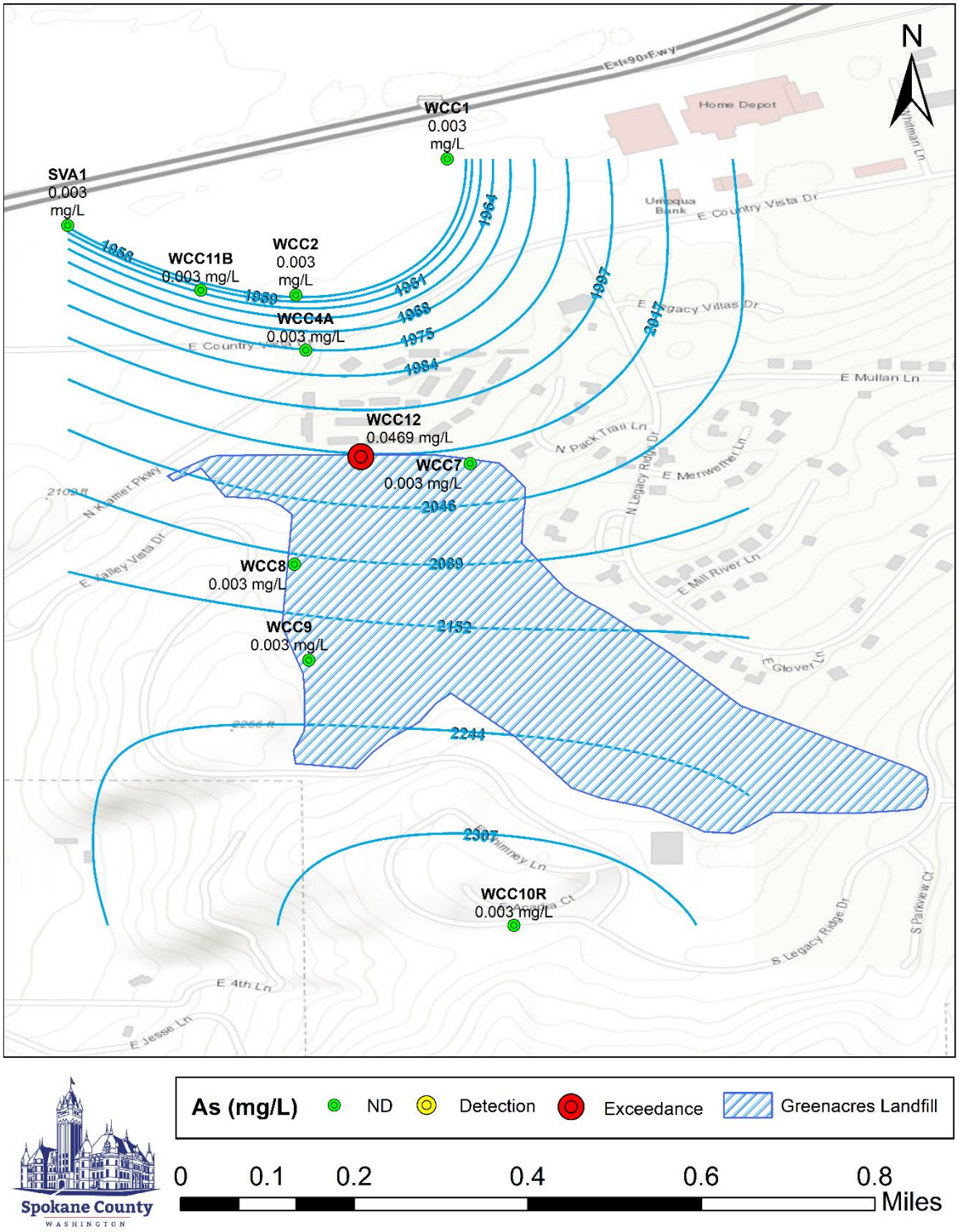


Figure 2-8: Arsenic detections/exceedance map – 2023

Greenacres Landfill Trend Analysis – 2023

Table 2-8: Greenacres Landfill Statistically Significant Trends (Sen's Test) 2023

Type	Unit:	Alluvial					Bedrock				
	Analyte	SVA1	WCC11B	WCC12	WCC2	WCC4A	WCC1	WCC10R	WCC7	WCC8	WCC9
VOCs	1,2-DCA			▼		▼					
	cis-1,2-DCE			▼	▼	▼				▼	
	PCE		▼		▼	▼	▼		▼		▼
	TCE		▼			▼					
	VC			▼		▼					
SVOCs	BEHP										
	PCP										
Metals	Sb										
	As										
	Pb										
	Mn			▼	▼	▼					
	Cr										

▲ **= Increasing trend**

▼ **= Decreasing trend**

= Criteria exceeded during this reporting period

Statistical analysis calculated on data after January 1994 using a 99% Confidence level

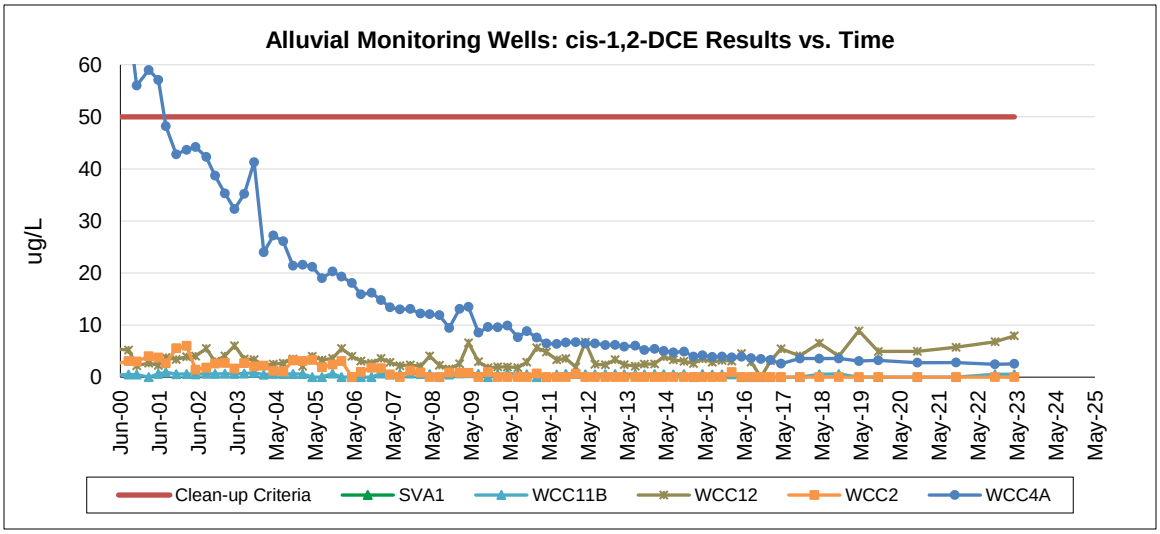
Trend Analysis – Summary of changes from 2022 to 2023

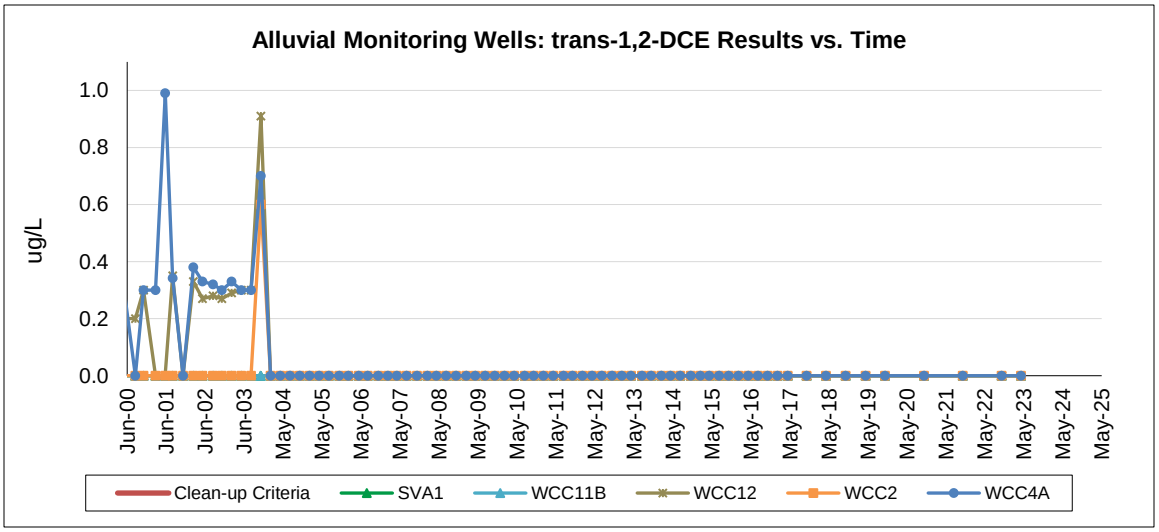
StationID	Unit	Analyte	Summary of change

No changes in trend analysis results occurred between 2022 to 2023.

Alluvial Monitoring Wells: VOCs/SVOCs Time-Series Graphs

Figure 2-9: Alluvial Wells – VOCs/SVOCs Concentration Graphs





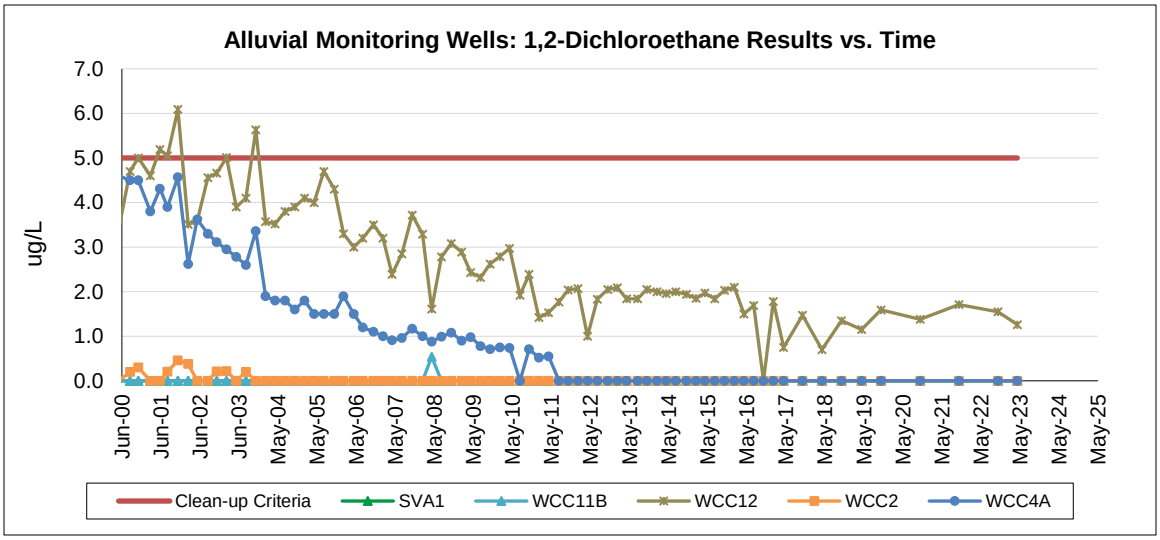
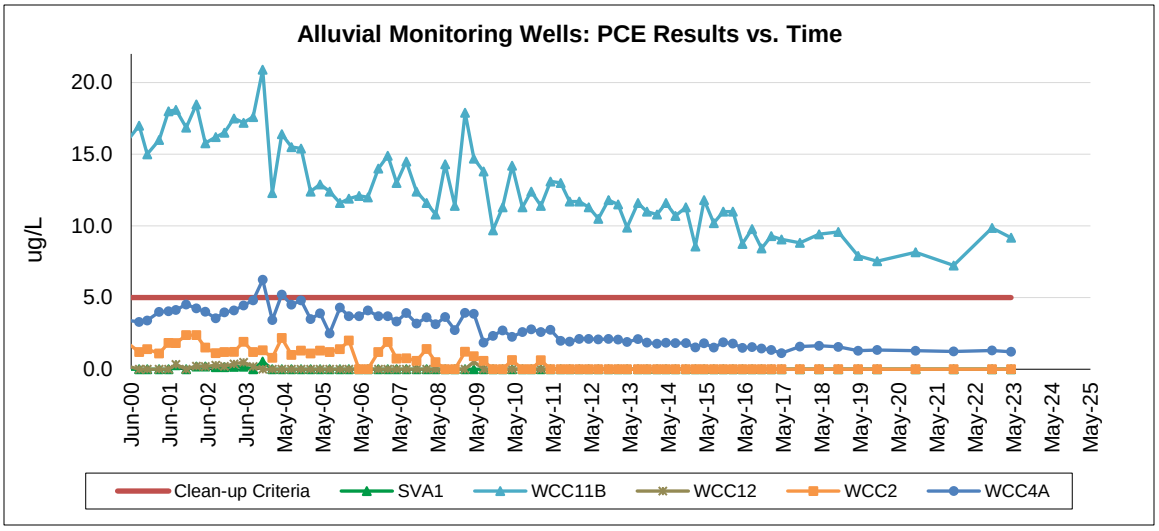
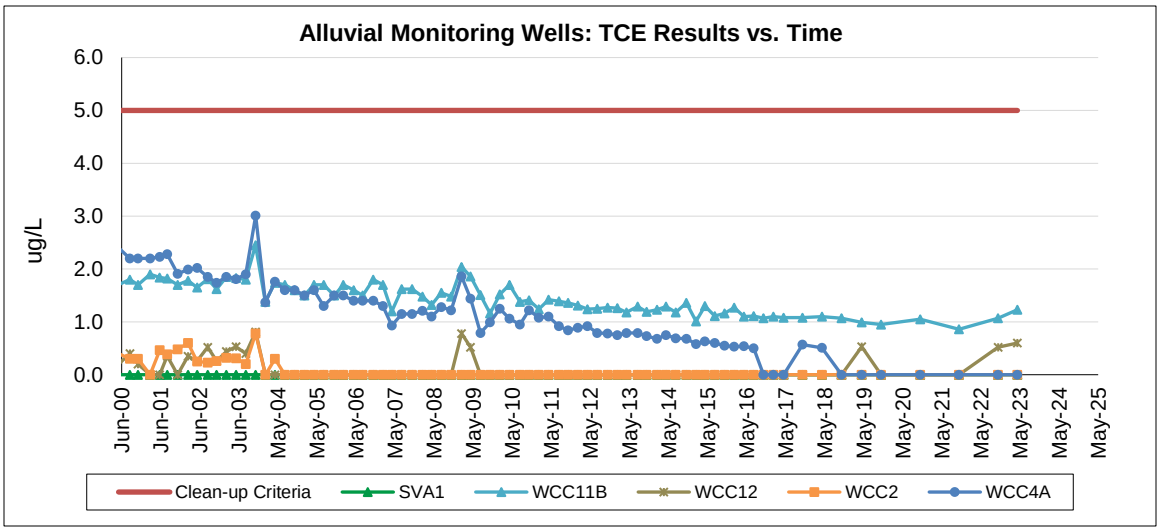


Figure 2-10: Alluvial Wells – VOCs/SVOCs Concentration Graphs (cont.)





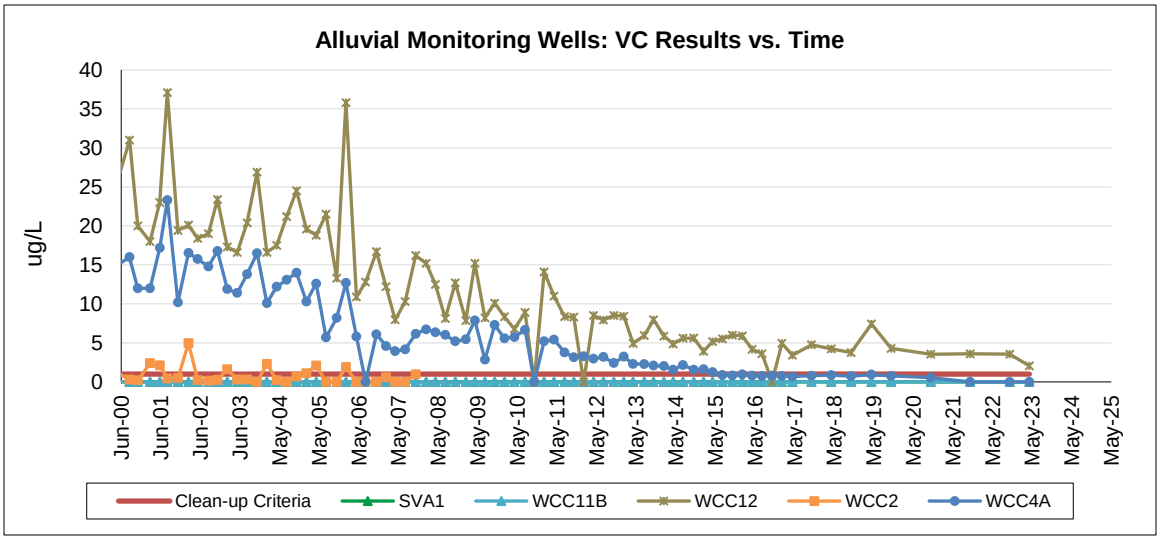
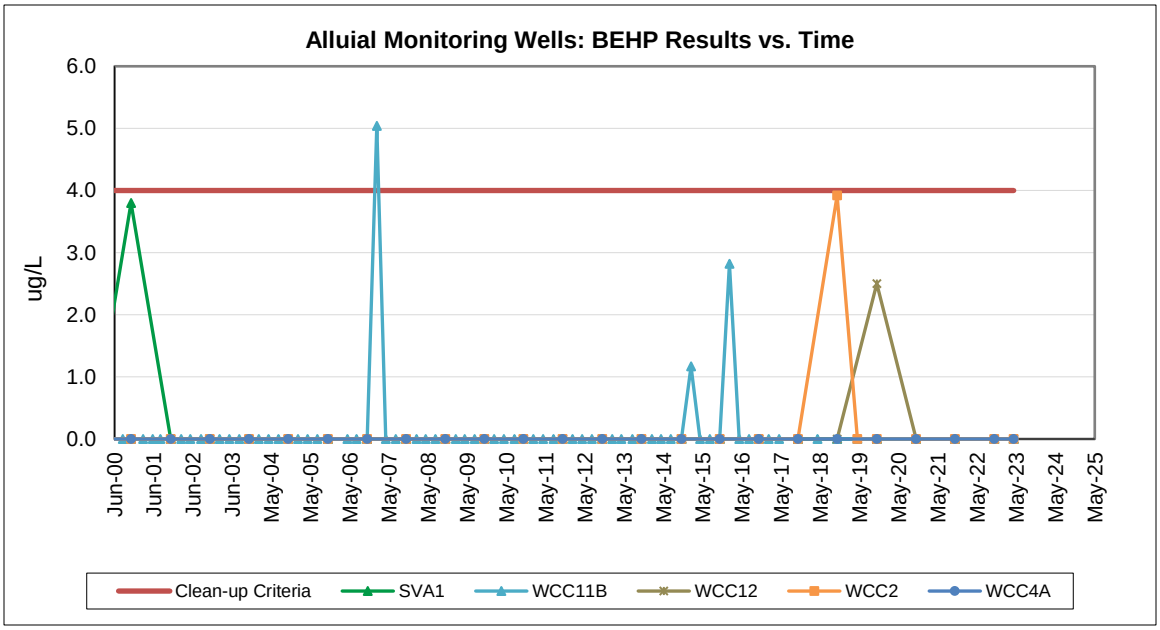
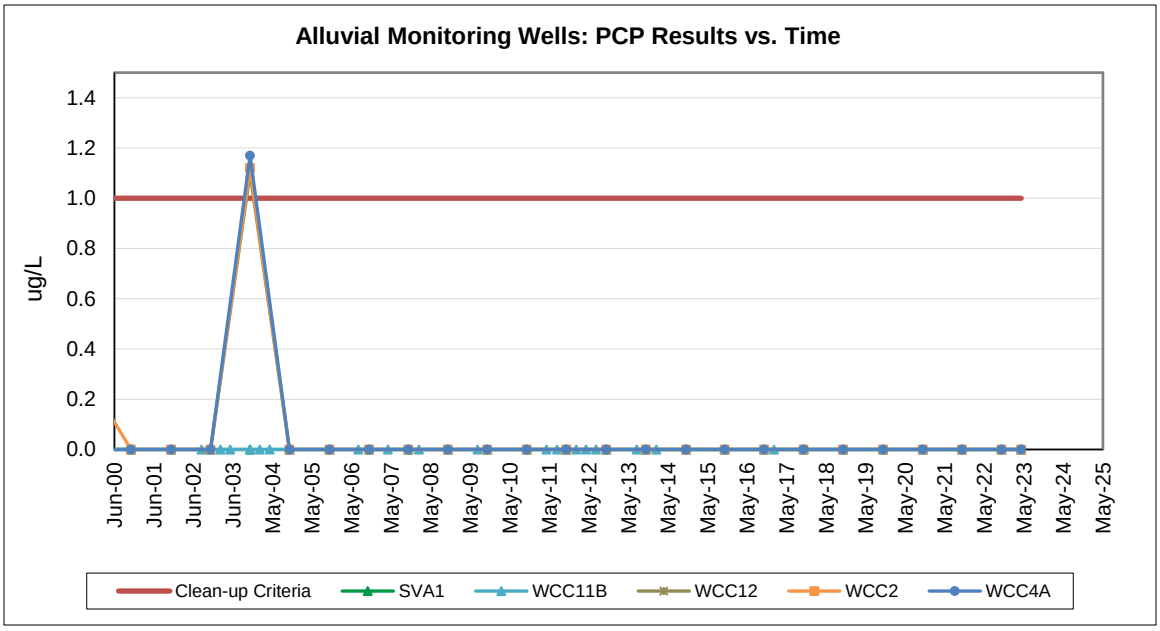


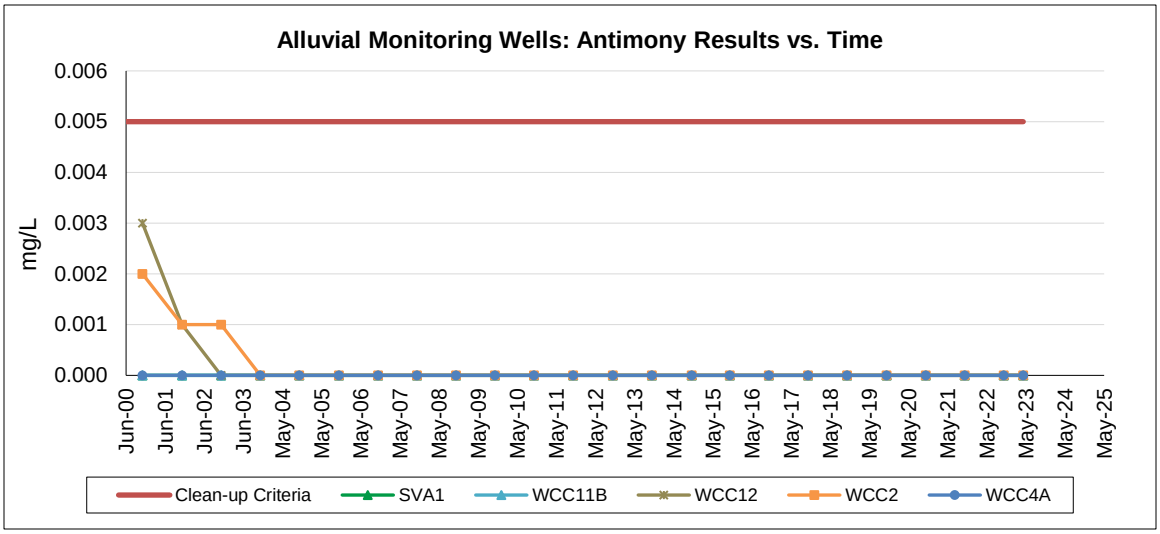
Figure 2-11: Alluvial Wells – VOCs/SVOCs Concentration Graphs (cont.)

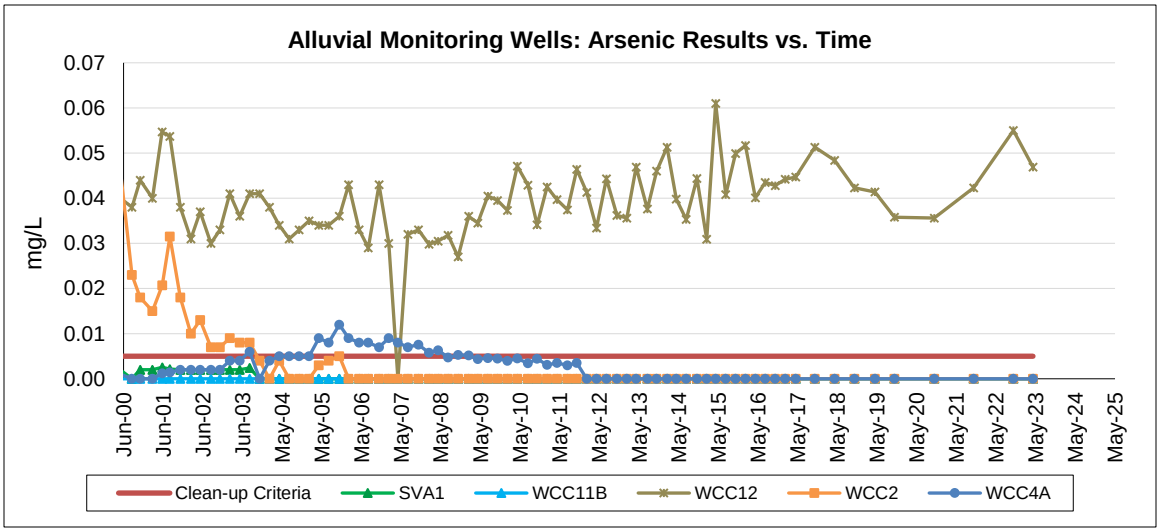




Alluvial Monitoring Wells: Inorganics Time-Series Graphs

Figure 2-12: Alluvial Wells – Inorganics Concentration Graphs





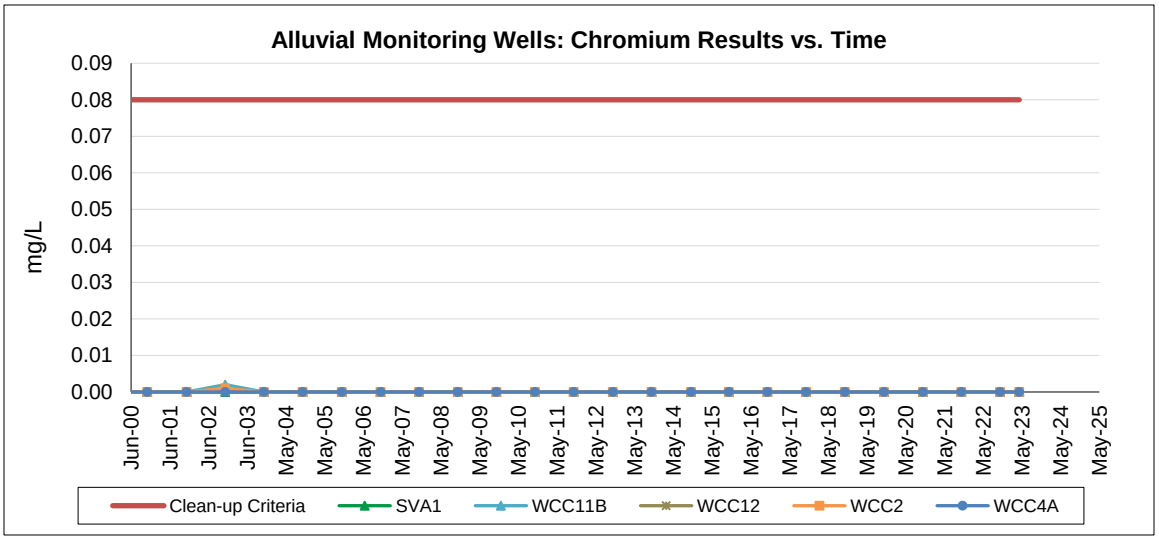
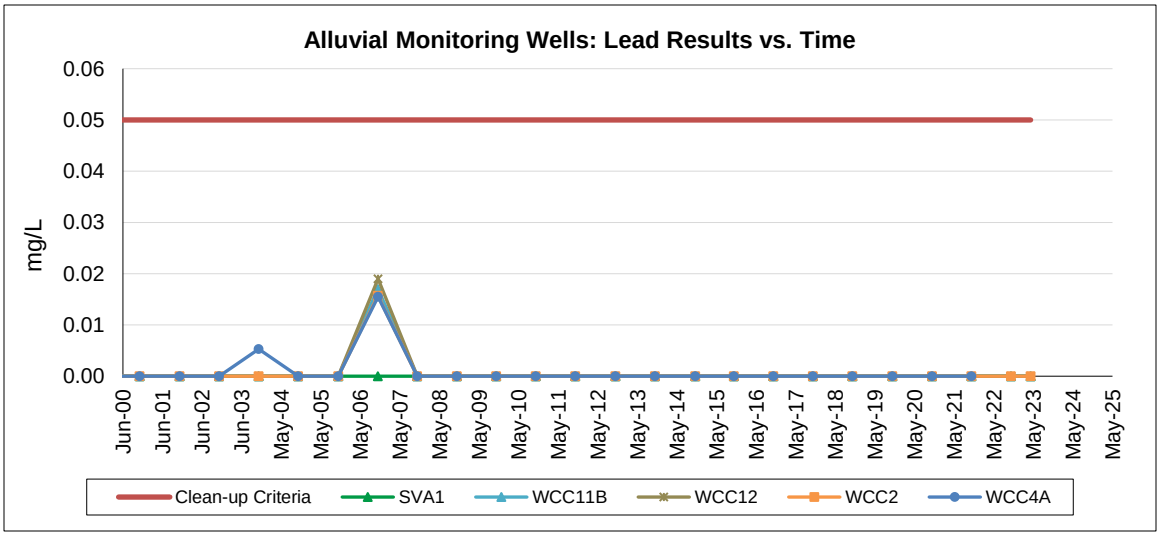
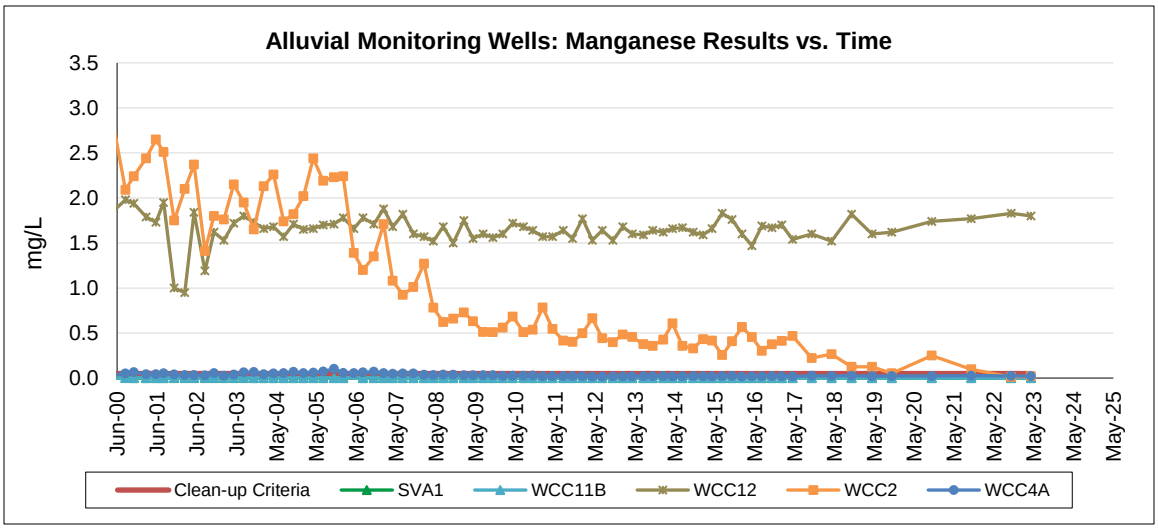


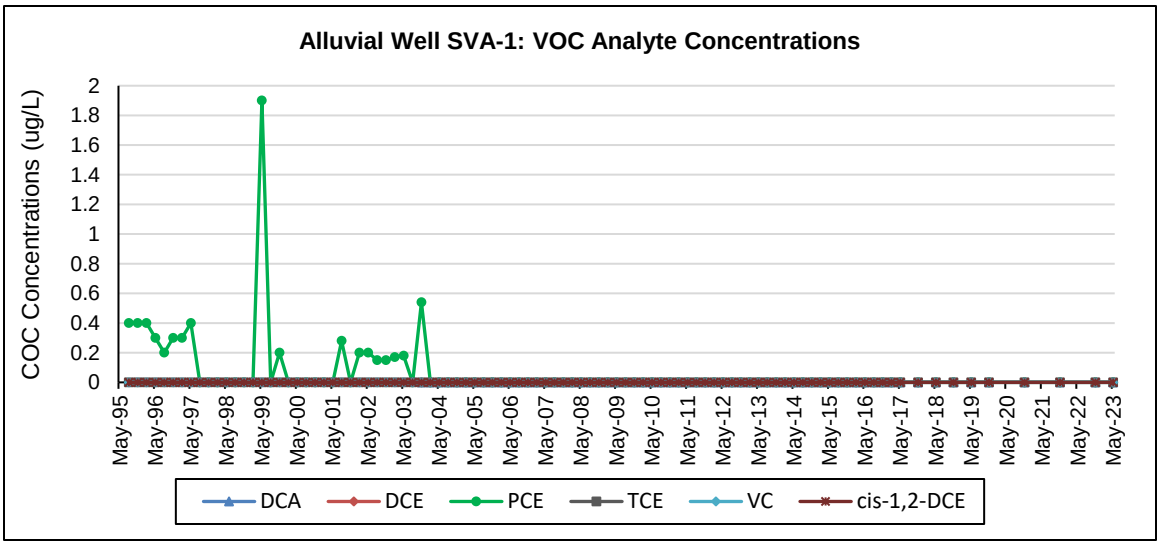
Figure 2-13: Alluvial Wells – Inorganics Concentration Graphs (cont.)

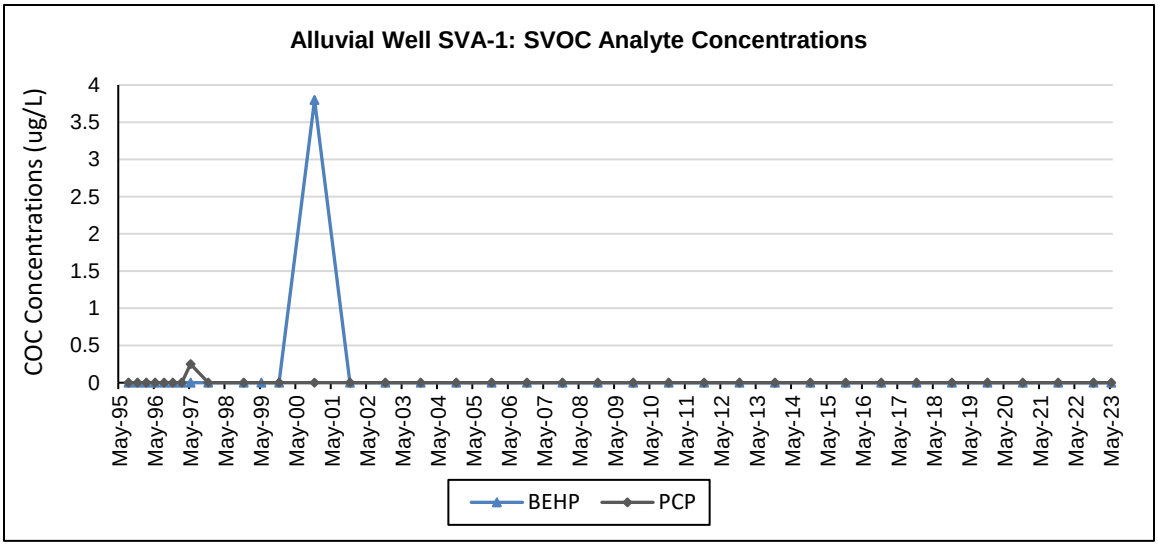




Individual Alluvial Monitoring Wells: Analyte Time-Series Graphs

Figure 2-14: Alluvial Well SVA-1 Analyte Concentration Graphs





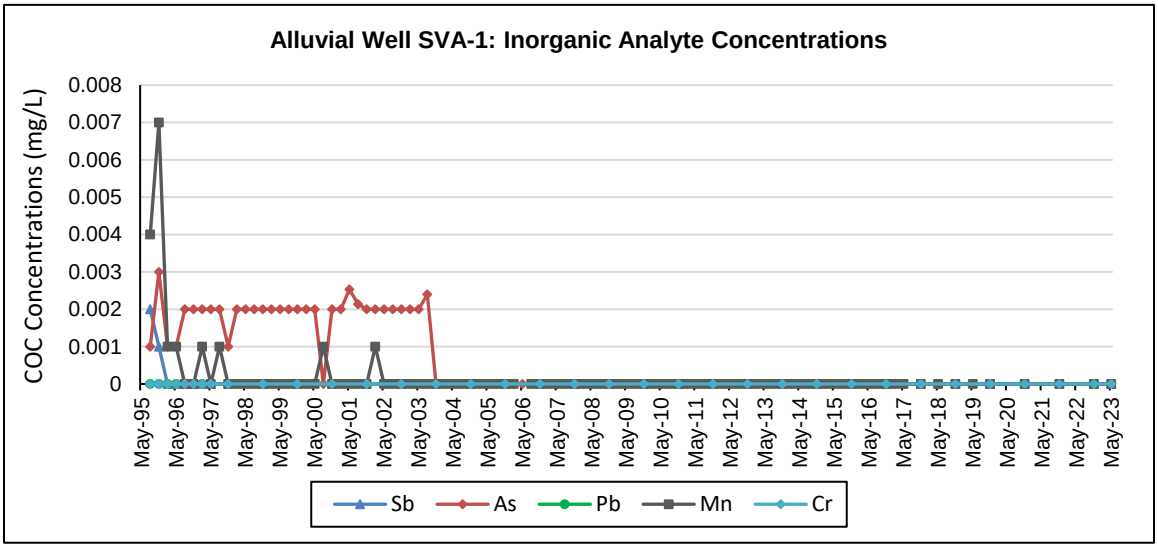
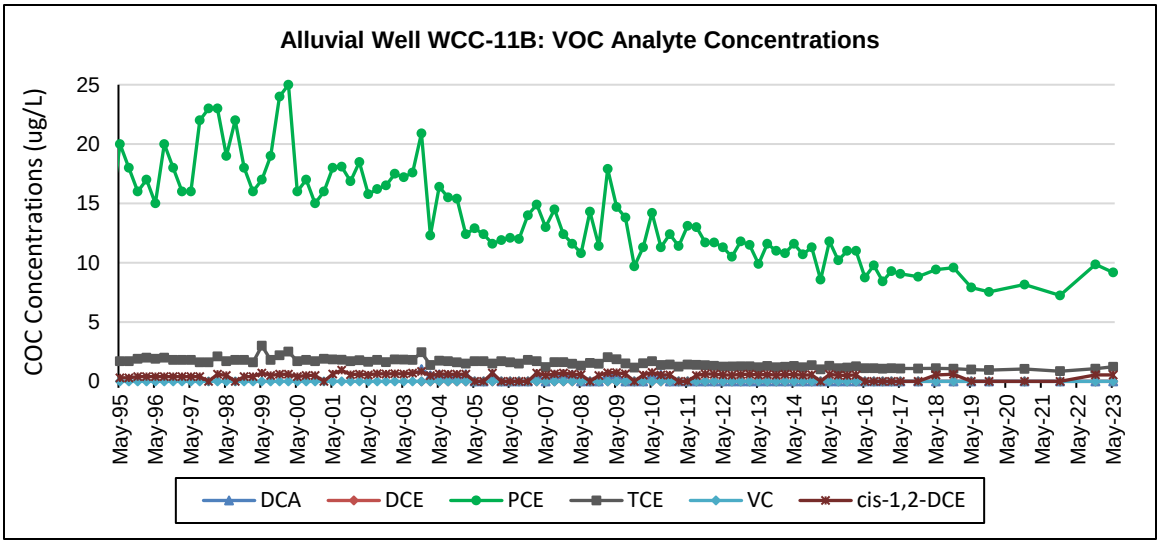
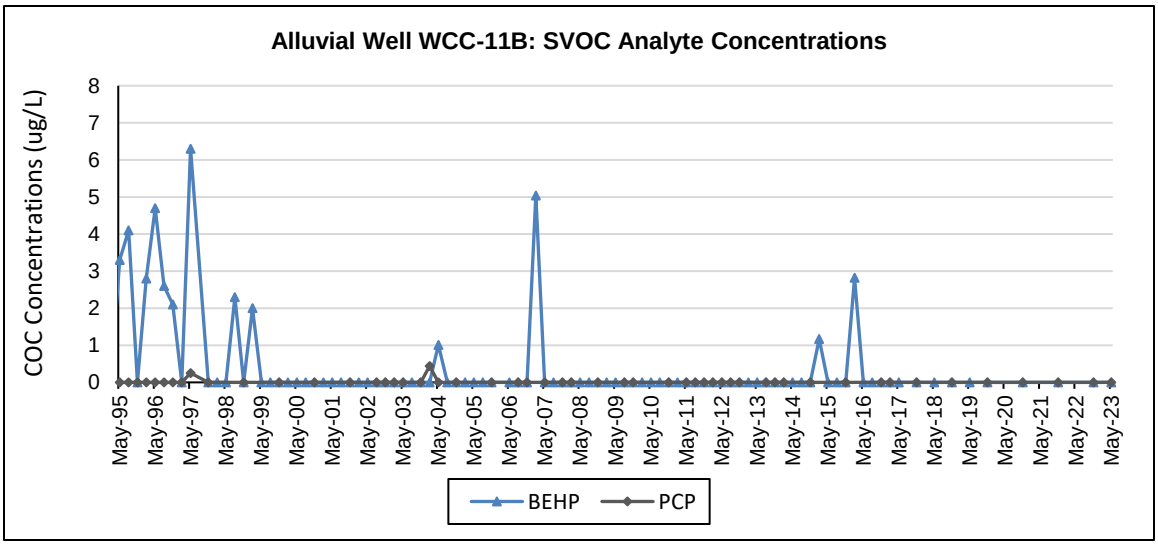


Figure 2-15: Alluvial Well WCC-11B Analyte Concentration Graphs





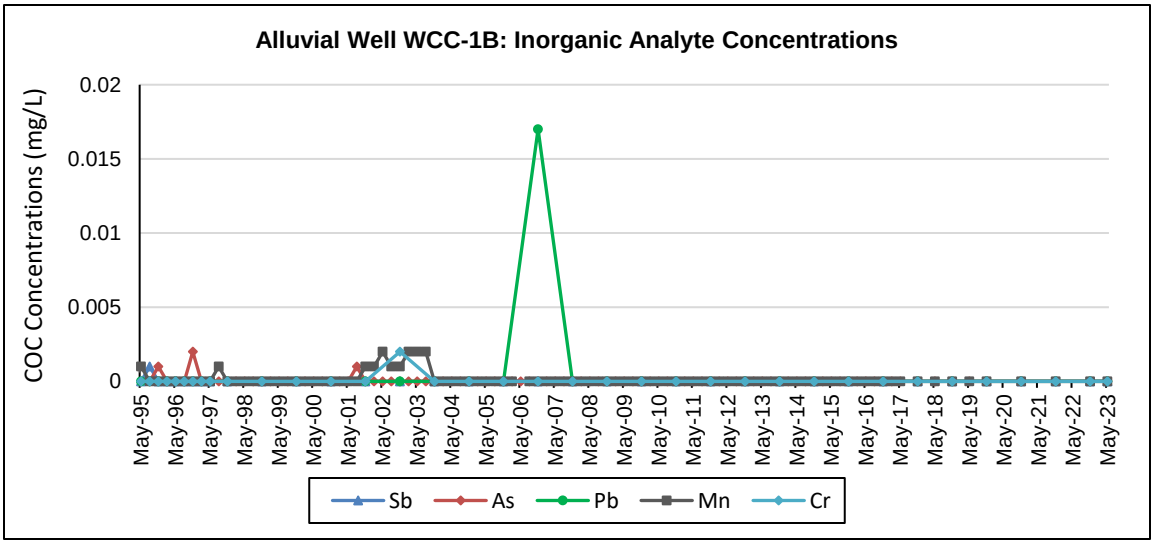
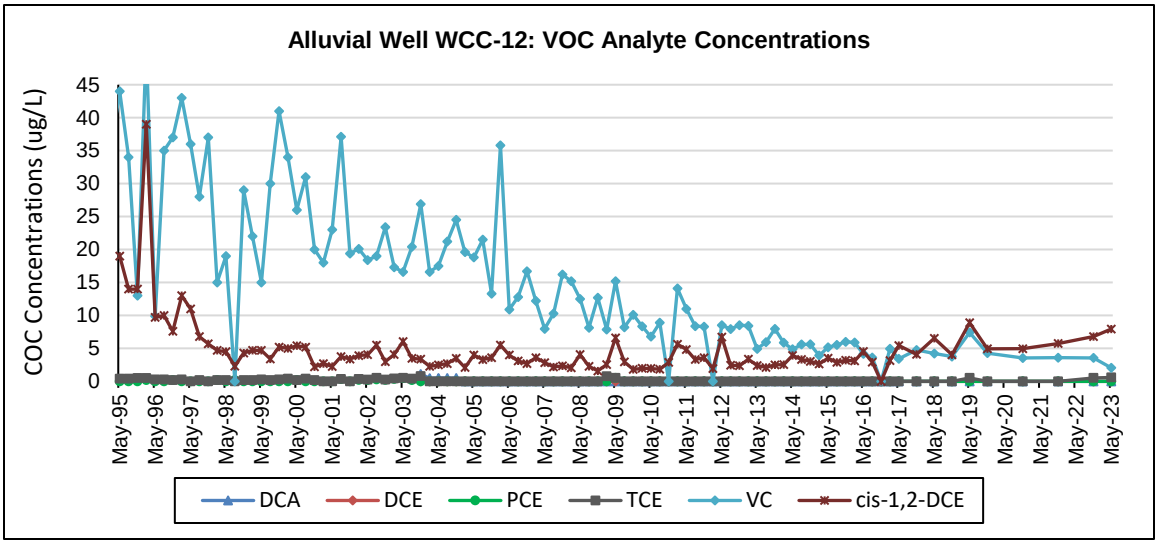
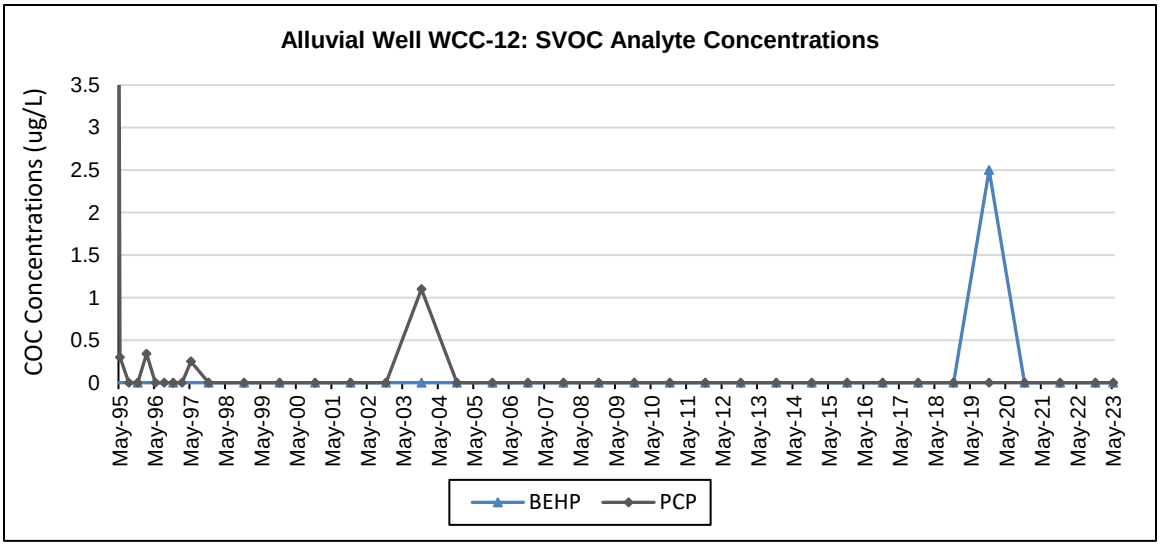


Figure 2-16: Alluvial Well WCC-12 Analyte Concentration Graphs





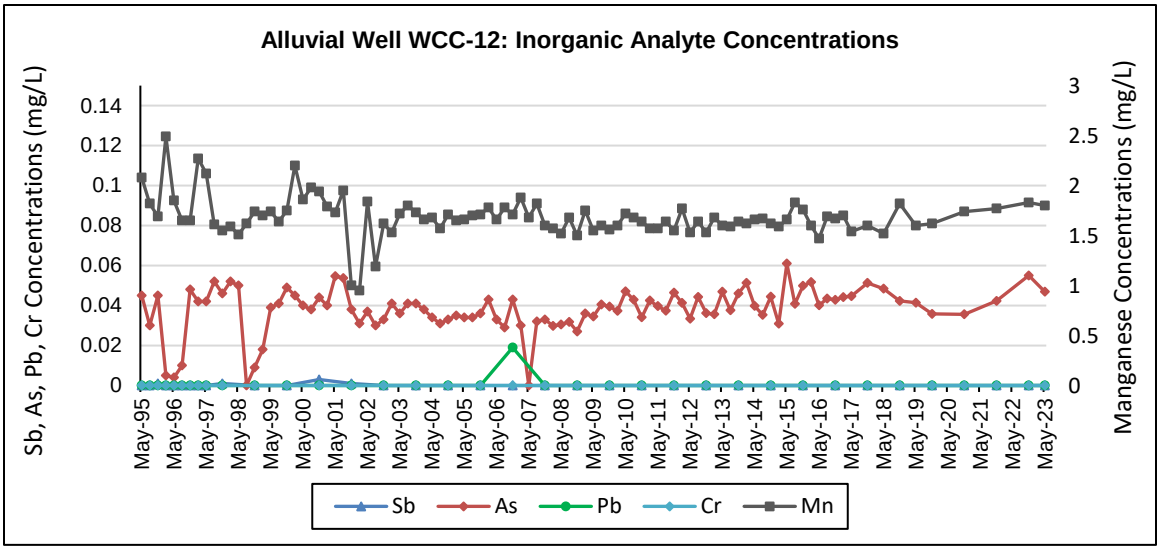
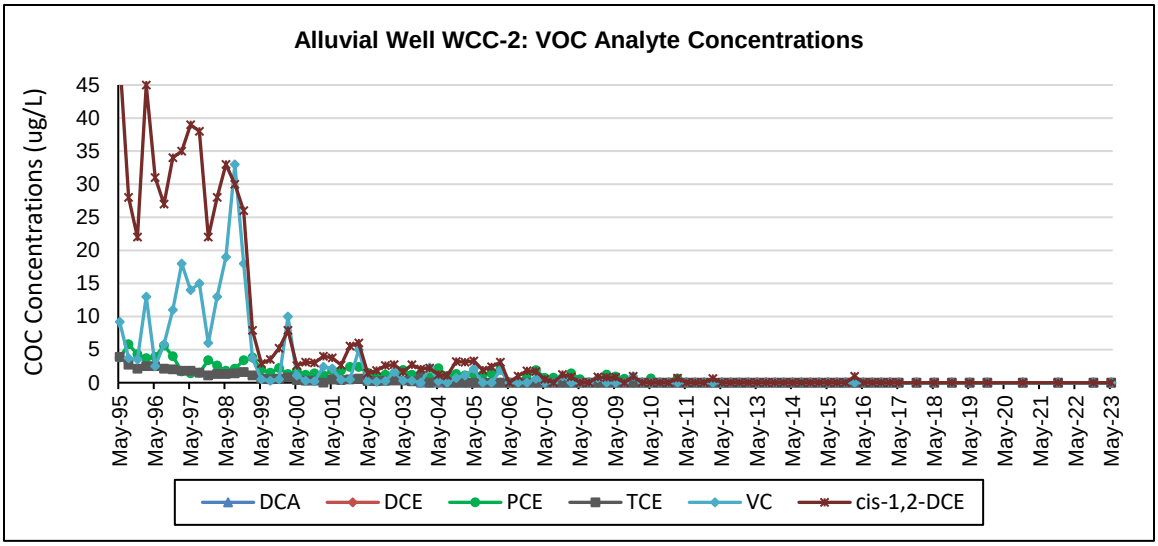
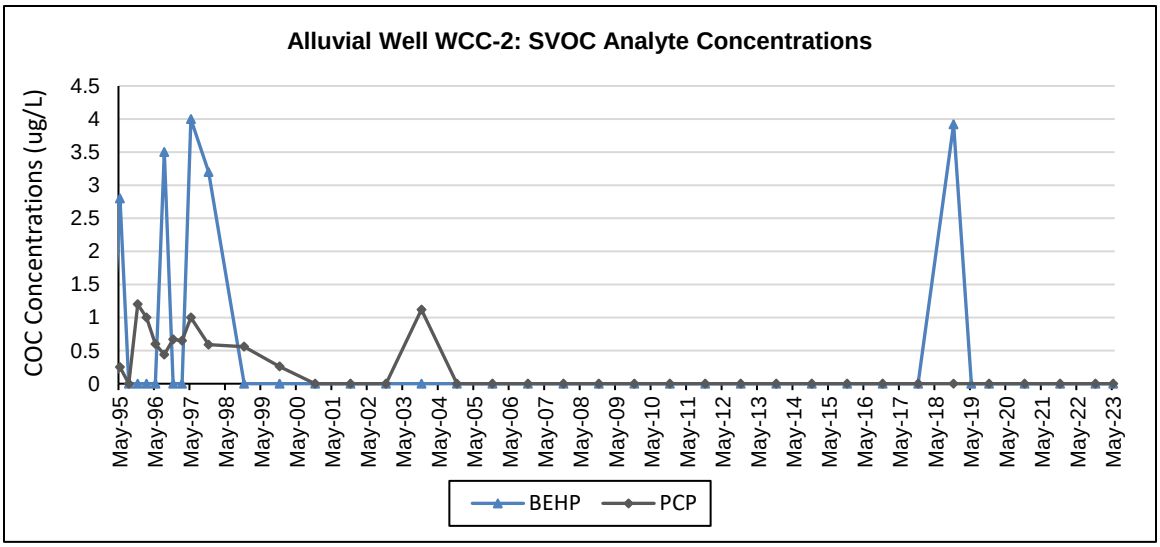


Figure 2-17: Alluvial Well WCC-2 Analyte Concentration Graphs





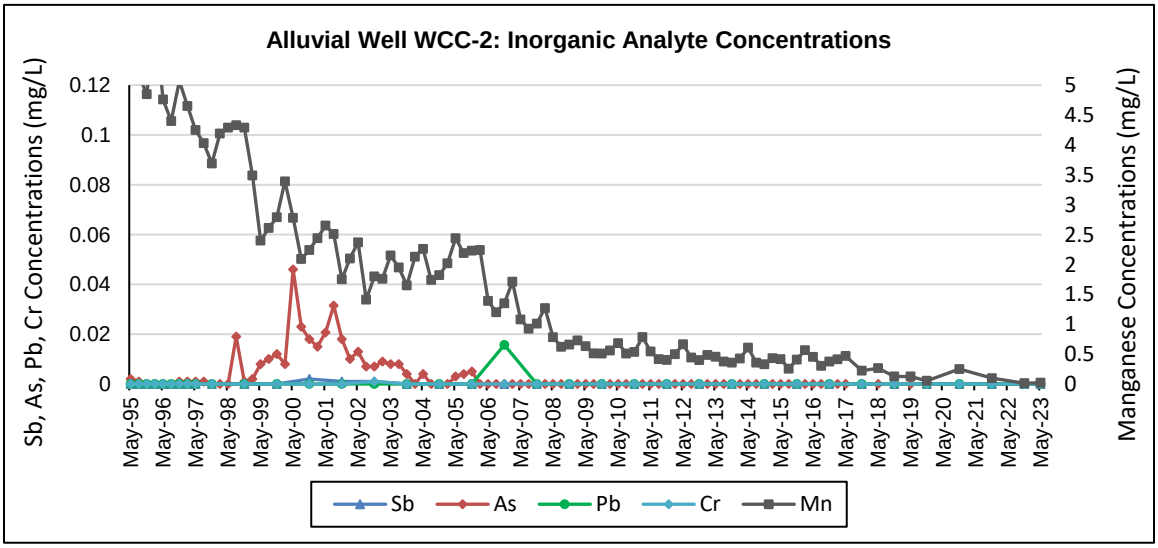
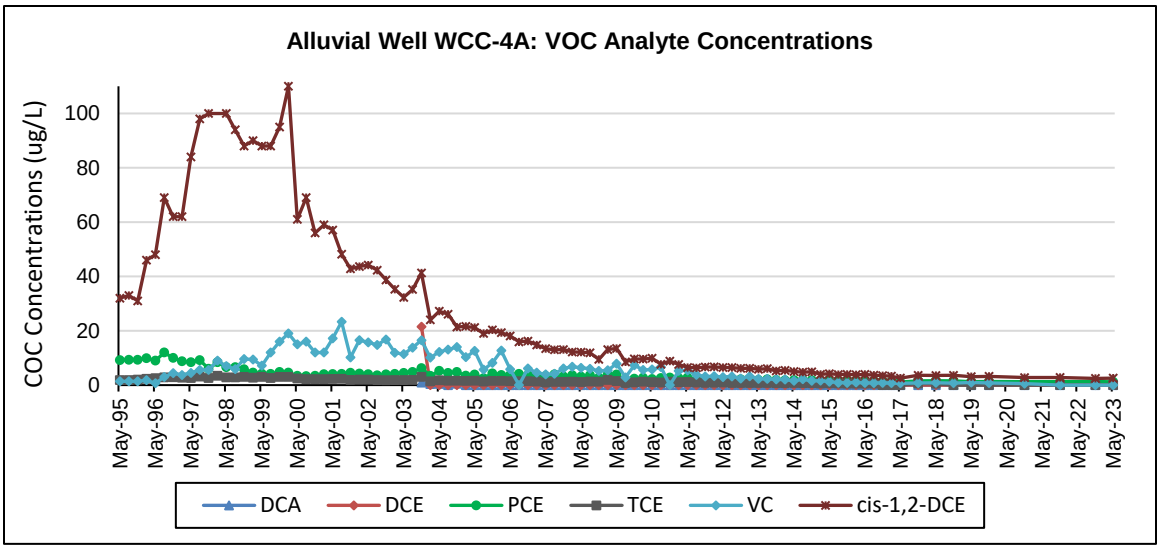
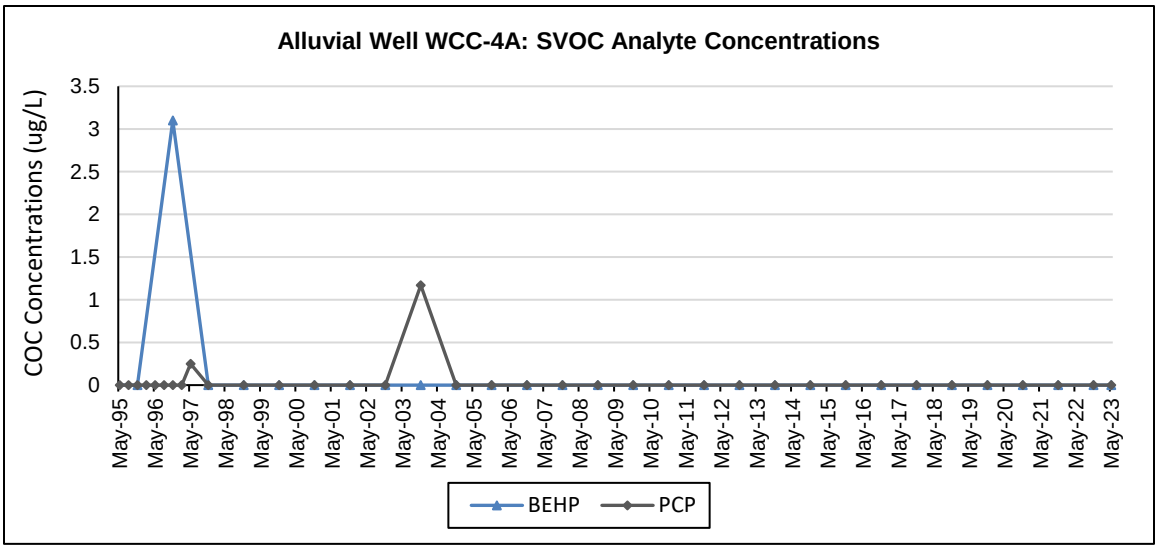
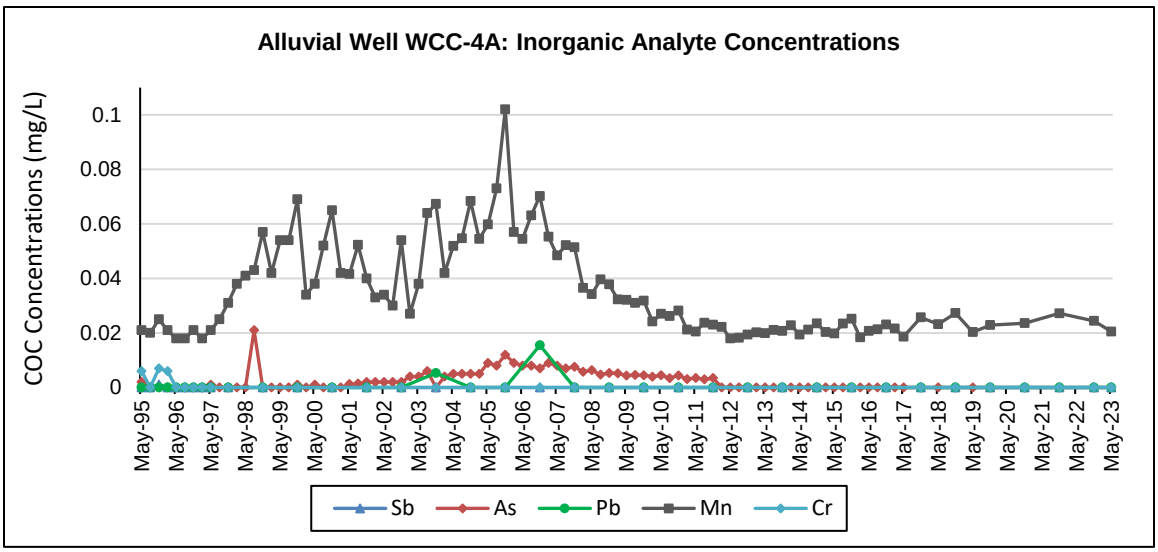


Figure 2-18: Alluvial Well WCC-4A Analyte Concentration Graphs







Alluvial Analyte Concentrations: 5-year/1-year differences:

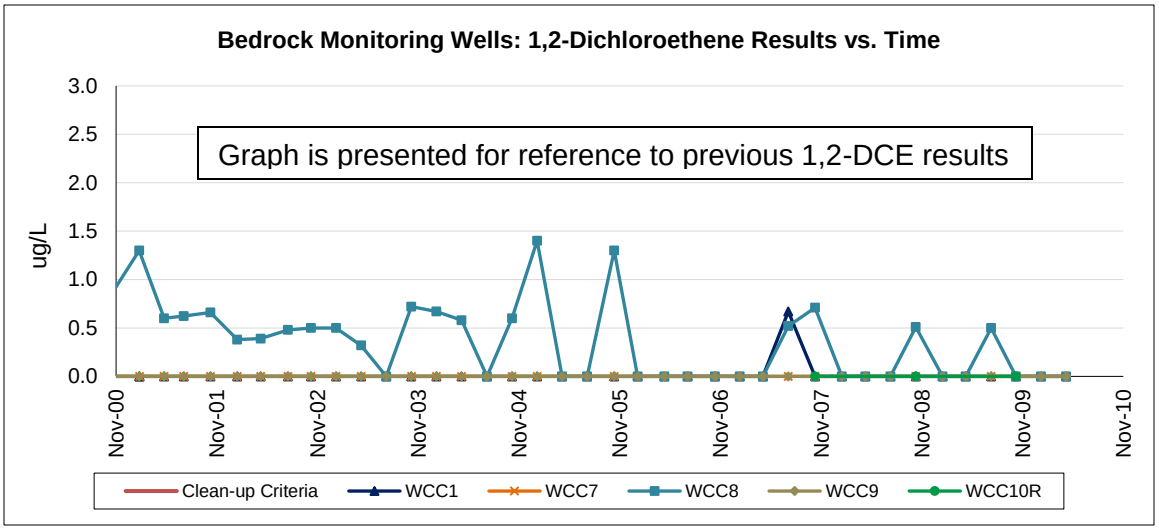
StationID	Unit	Analyte	2018 Results	2022 Results	Current Year Results	5-Year Difference	1-Year Difference	Units	AnalyteCat
SVA1	Alluvial Aquifer	1,2-DCA	0	0	0	0	0	ug/L	V
SVA1	Alluvial Aquifer	As	0	0	0	0	0	mg/L	I
SVA1	Alluvial Aquifer	BEHP	0	0	0	0	0	ug/L	S
SVA1	Alluvial Aquifer	cis-1,2-DCE	0	0	0	0	0	ug/L	V
SVA1	Alluvial Aquifer	Cr	0	0	0	0	0	mg/L	I
SVA1	Alluvial Aquifer	Mn	0	0	0	0	0	mg/L	I
SVA1	Alluvial Aquifer	Pb	0	0	0	0	0	mg/L	I
SVA1	Alluvial Aquifer	PCE	0	0	0	0	0	ug/L	V
SVA1	Alluvial Aquifer	PCP	0	0	0	0	0	ug/L	S
SVA1	Alluvial Aquifer	Sb	0	0	0	0	0	mg/L	I
SVA1	Alluvial Aquifer	TCE	0	0	0	0	0	ug/L	V
SVA1	Alluvial Aquifer	VC	0	0	0	0	0	ug/L	V
WCC11B	Alluvial Aquifer	1,2-DCA	0	0	0	0	0	ug/L	V
WCC11B	Alluvial Aquifer	As	0	0	0	0	0	mg/L	I
WCC11B	Alluvial Aquifer	BEHP	0	0	0	0	0	ug/L	S
WCC11B	Alluvial Aquifer	cis-1,2-DCE	0.55	0.55	0.54	-0.01	-0.01	ug/L	V
WCC11B	Alluvial Aquifer	Cr	0	0	0	0	0	mg/L	I
WCC11B	Alluvial Aquifer	Mn	0	0	0	0	0	mg/L	I
WCC11B	Alluvial Aquifer	Pb	0	0	0	0	0	mg/L	I
WCC11B	Alluvial Aquifer	PCE	9.08	9.86	9.18	0.1	-0.68	ug/L	V
WCC11B	Alluvial Aquifer	PCP	0	0	0	0	0	ug/L	S
WCC11B	Alluvial Aquifer	Sb	0	0	0	0	0	mg/L	I
WCC11B	Alluvial Aquifer	TCE	1.07	1.07	1.23	0.16	0.16	ug/L	V
WCC11B	Alluvial Aquifer	VC	0	0	0	0	0	ug/L	V
WCC12	Alluvial Aquifer	1,2-DCA	1.35	1.55	1.26	-0.09	-0.29	ug/L	V
WCC12	Alluvial Aquifer	As	0.0423	0.055	0.0469	0.0046	-0.0081	mg/L	I
WCC12	Alluvial Aquifer	BEHP	0	0	0	0	0	ug/L	S
WCC12	Alluvial Aquifer	cis-1,2-DCE	4.03	6.8	7.94	3.91	1.14	ug/L	V
WCC12	Alluvial Aquifer	Cr	0	0	0	0	0	mg/L	I
WCC12	Alluvial Aquifer	Mn	1.82	1.83	1.8	-0.02	-0.03	mg/L	I
WCC12	Alluvial Aquifer	Pb	0	0	0	0	0	mg/L	I
WCC12	Alluvial Aquifer	PCE	0	0	0	0	0	ug/L	V
WCC12	Alluvial Aquifer	PCP	0	0	0	0	0	ug/L	S
WCC12	Alluvial Aquifer	Sb	0	0	0	0	0	mg/L	I

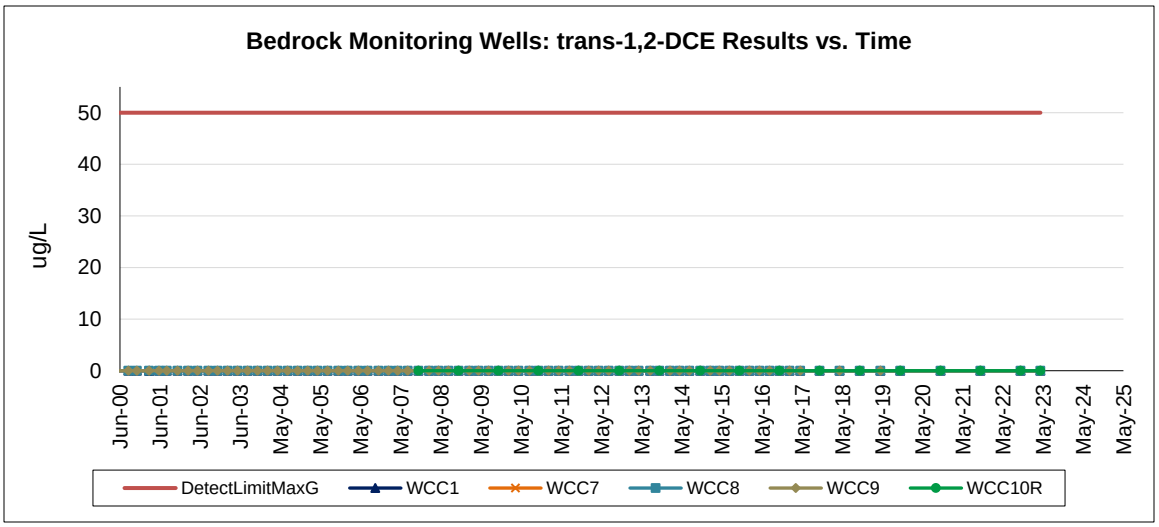
StationID	Unit	Analyte	2018 Results	2022 Results	Current Year Results	5-Year Difference	1-Year Difference	Units	AnalyteCat
WCC12	Alluvial Aquifer	TCE	0	0.52	0.6	0.6	0.08	ug/L	V
WCC12	Alluvial Aquifer	VC	3.76	3.56	2.05	-1.71	-1.51	ug/L	V
WCC2	Alluvial Aquifer	1,2-DCA	0	0	0	0	0	ug/L	V
WCC2	Alluvial Aquifer	As	0	0	0	0	0	mg/L	I
WCC2	Alluvial Aquifer	BEHP	3.92	0	0	-3.92	0	ug/L	S
WCC2	Alluvial Aquifer	cis-1,2-DCE	0	0	0	0	0	ug/L	V
WCC2	Alluvial Aquifer	Cr	0	0	0	0	0	mg/L	I
WCC2	Alluvial Aquifer	Mn	0.125	0.0125	0.0207	-0.1043	0.0082	mg/L	I
WCC2	Alluvial Aquifer	NO3	0.799	1.47	2.67	1.871	1.2	mg/L	C
WCC2	Alluvial Aquifer	Pb	0	0	0	0	0	mg/L	I
WCC2	Alluvial Aquifer	PCE	0	0	0	0	0	ug/L	V
WCC2	Alluvial Aquifer	PCP	0	0	0	0	0	ug/L	S
WCC2	Alluvial Aquifer	Sb	0	0	0	0	0	mg/L	I
WCC2	Alluvial Aquifer	TCE	0	0	0	0	0	ug/L	V
WCC2	Alluvial Aquifer	VC	0	0	0	0	0	ug/L	V
WCC4A	Alluvial Aquifer	1,2-DCA	0	0	0	0	0	ug/L	V
WCC4A	Alluvial Aquifer	As	0	0	0	0	0	mg/L	I
WCC4A	Alluvial Aquifer	BEHP	0	0	0	0	0	ug/L	S
WCC4A	Alluvial Aquifer	cis-1,2-DCE	3.59	2.46	2.56	-1.03	0.1	ug/L	V
WCC4A	Alluvial Aquifer	Cr	0	0	0	0	0	mg/L	I
WCC4A	Alluvial Aquifer	Mn	0.0273	0.0244	0.0205	-0.0068	-0.0039	mg/L	I
WCC4A	Alluvial Aquifer	Pb	0	0	0	0	0	mg/L	I
WCC4A	Alluvial Aquifer	PCE	1.56	1.31	1.22	-0.34	-0.09	ug/L	V
WCC4A	Alluvial Aquifer	PCP	0	0	0	0	0	ug/L	S
WCC4A	Alluvial Aquifer	Sb	0	0	0	0	0	mg/L	I
WCC4A	Alluvial Aquifer	TCE	0	0	0	0	0	ug/L	V
WCC4A	Alluvial Aquifer	VC	0.74	0	0	-0.74	0	ug/L	V

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**

Bedrock Monitoring Wells: VOCs/SVOCs Time-Series Graphs

Figure 2-19: Bedrock Wells – VOCs/SVOCs Concentration Graphs





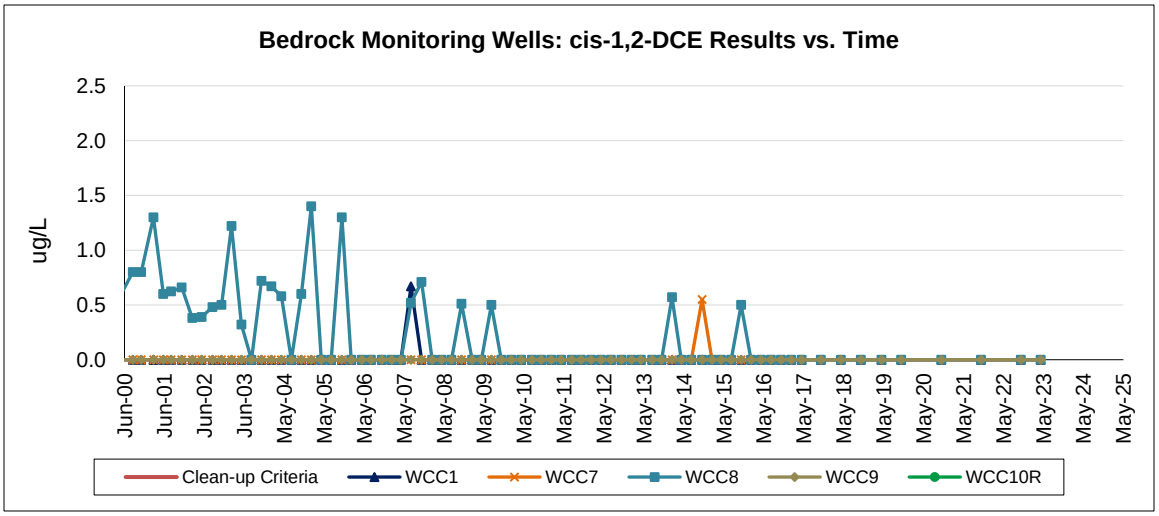
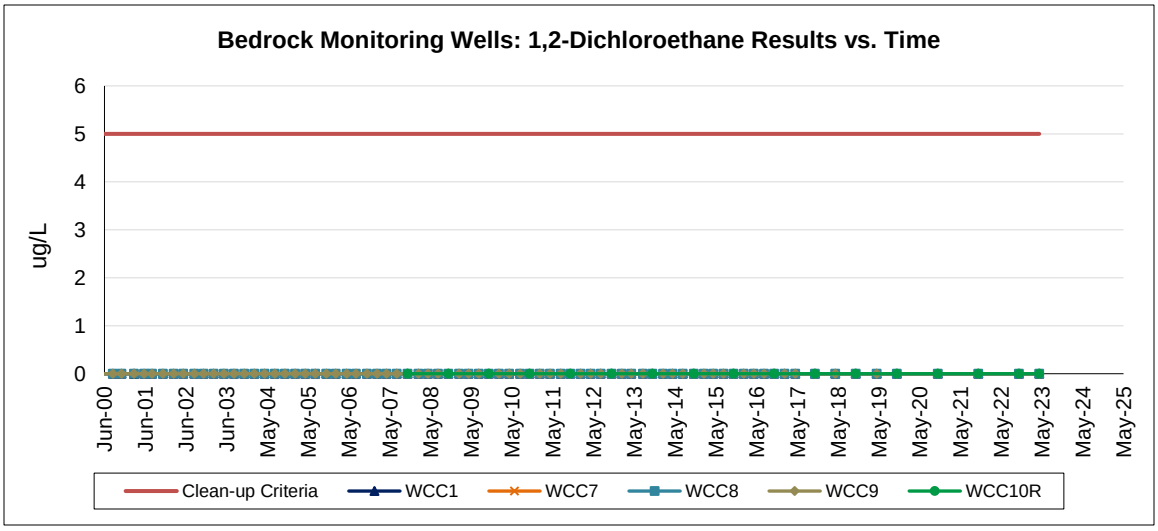
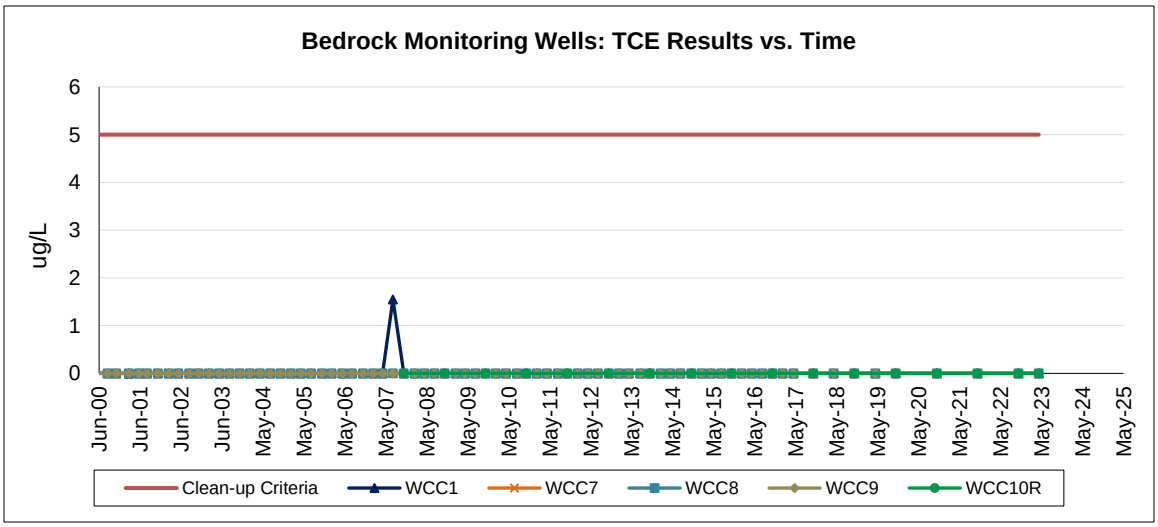


Figure 2-20: Bedrock Wells – VOCs/SVOCs Concentration Graphs (cont.)





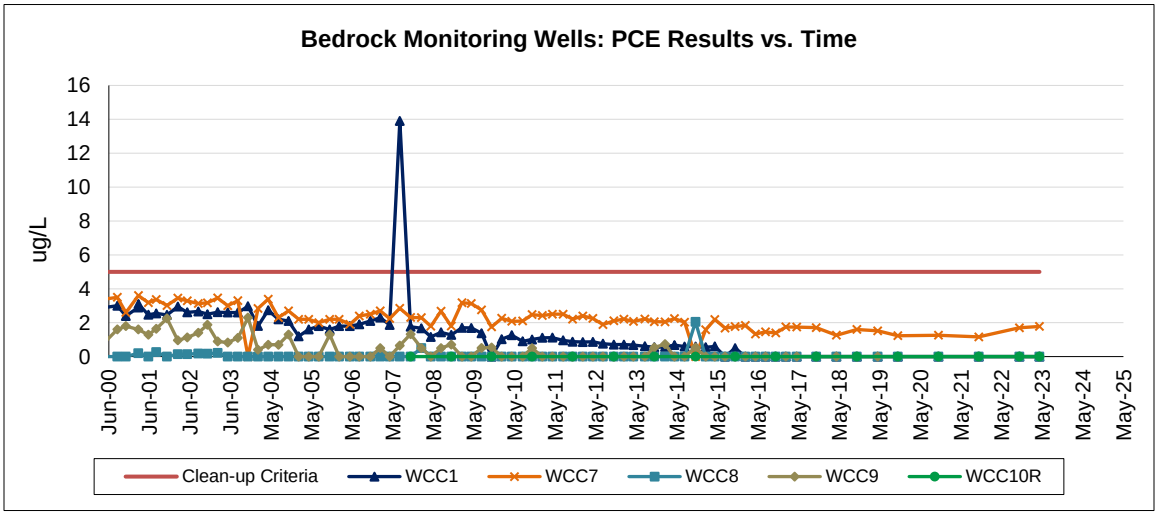
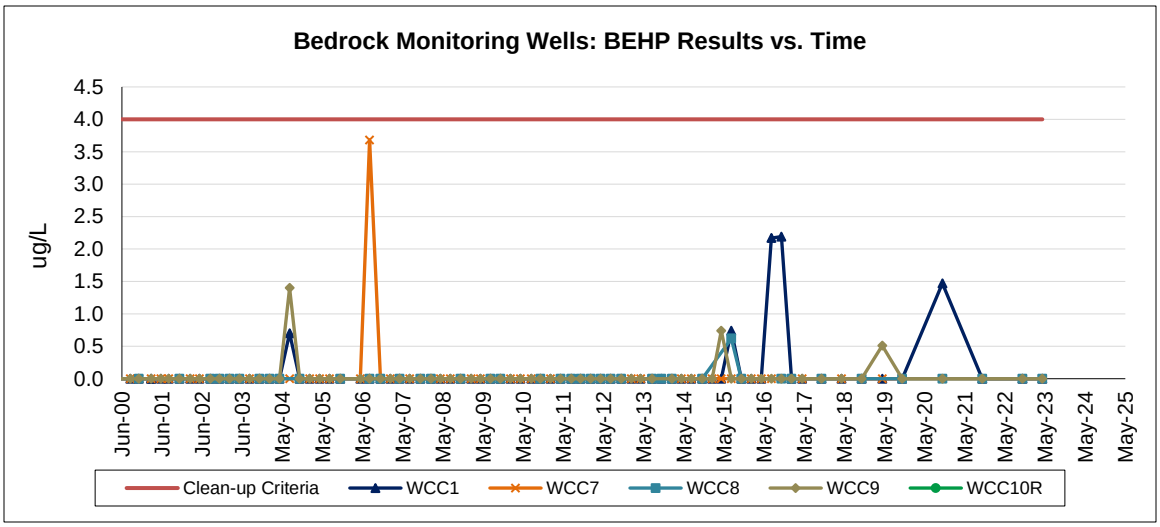
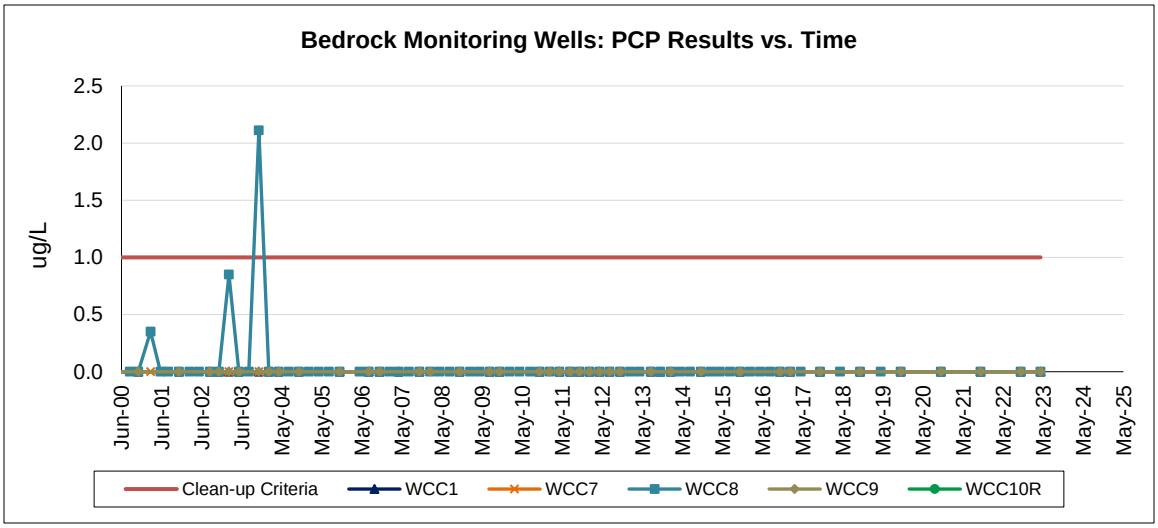


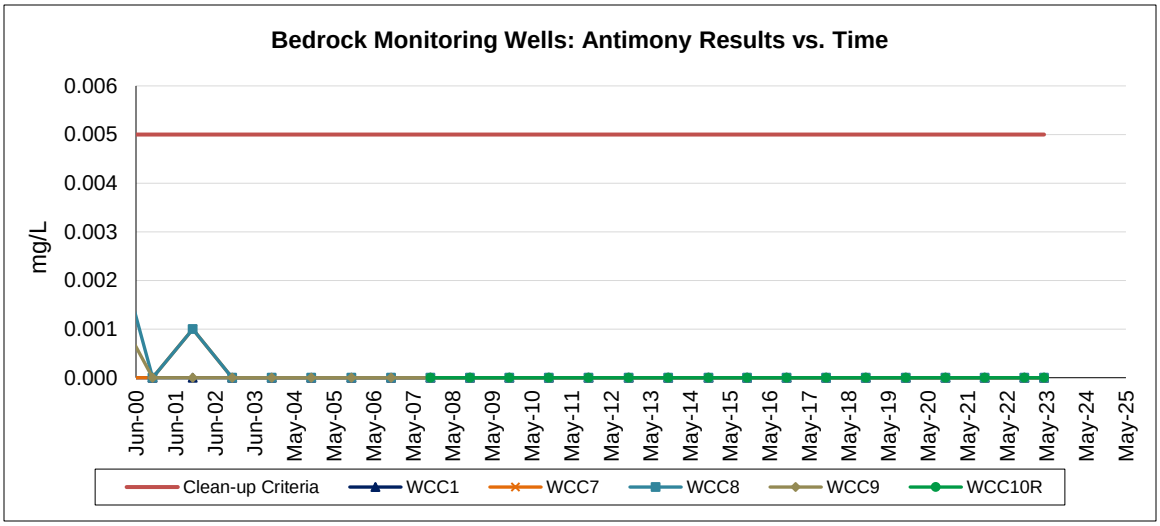
Figure 2-21: Bedrock Wells – VOCs/SVOCs Concentration Graphs (cont.)

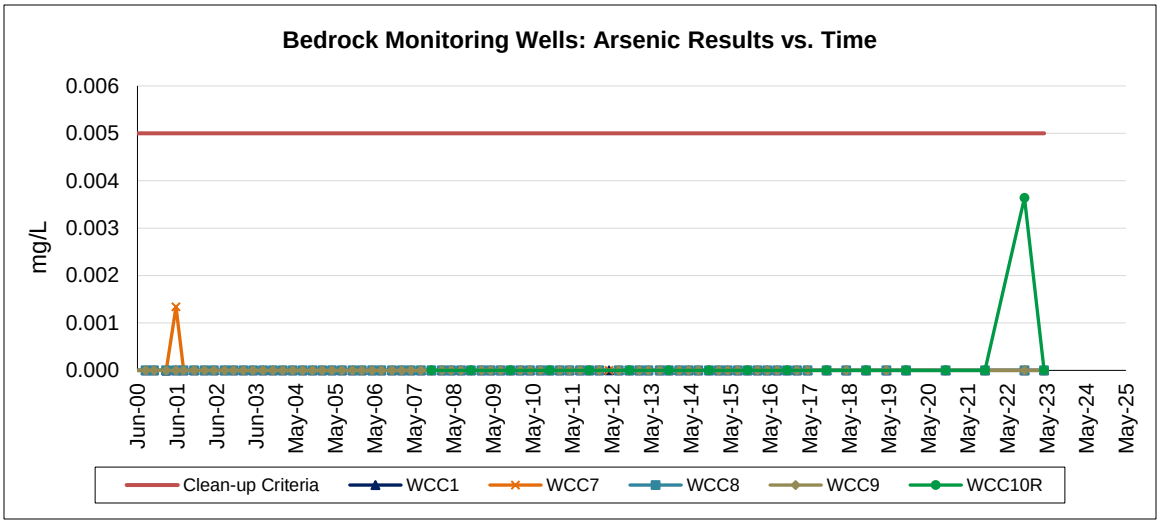




Bedrock Monitoring Wells – Inorganics Time-Series Graphs

Figure 2-22: Bedrock Wells – Inorganics Concentration Graphs





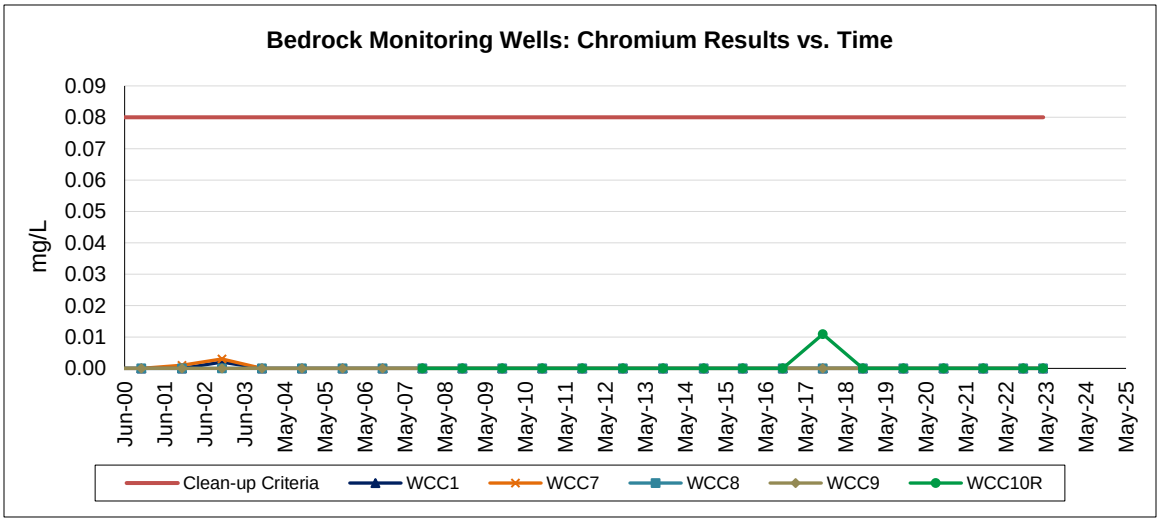
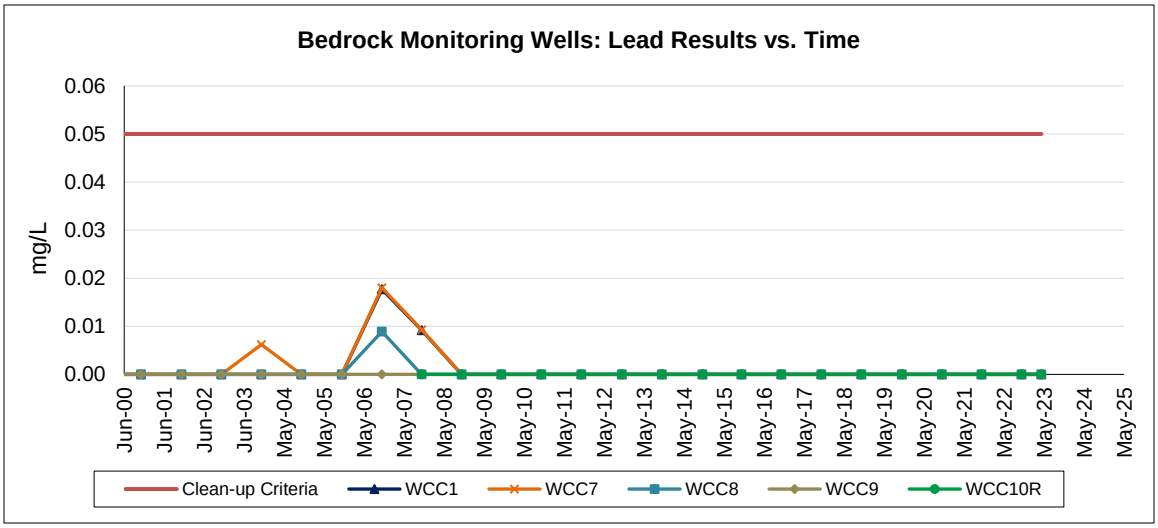
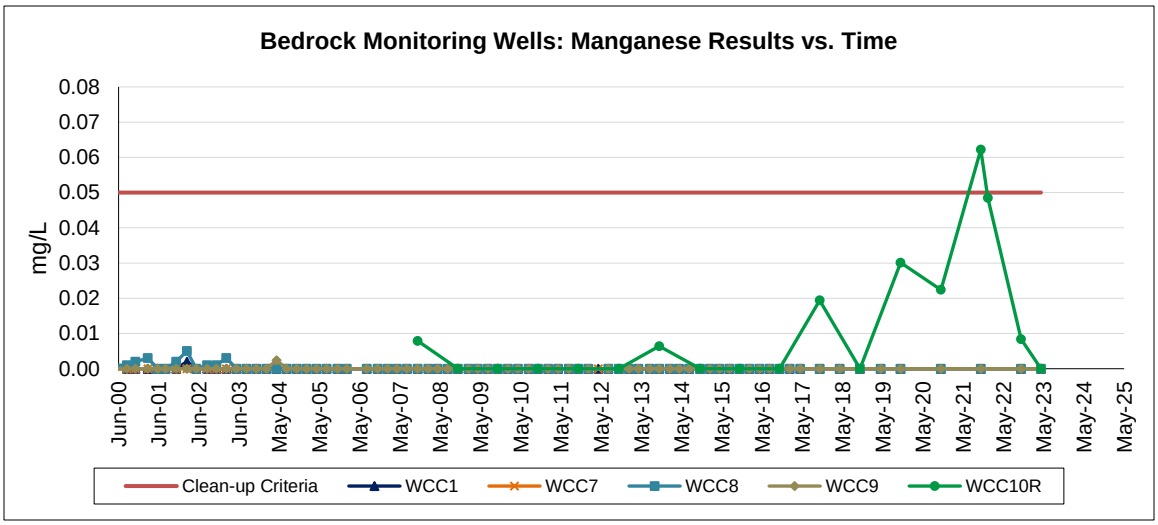


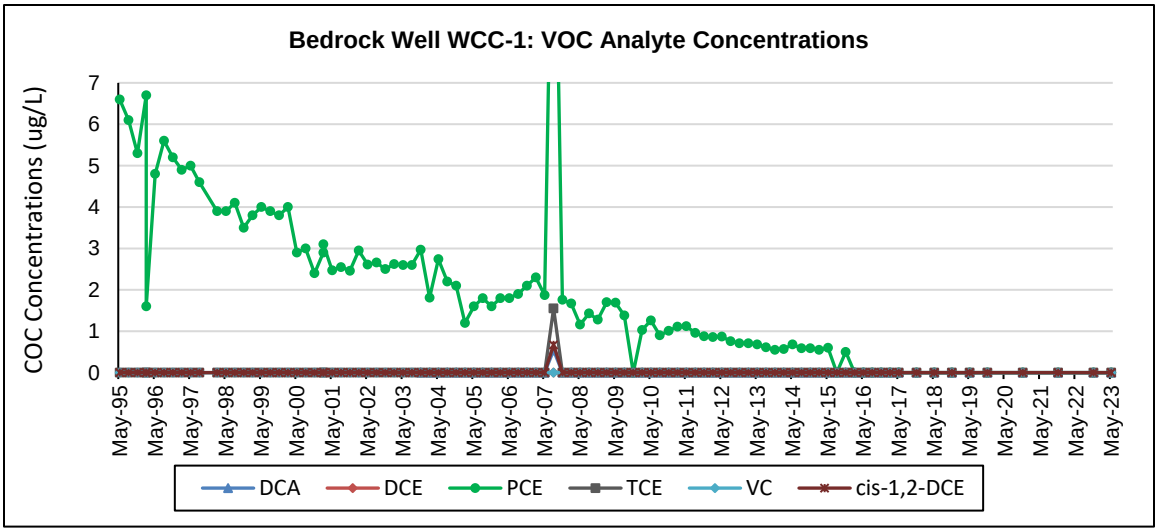
Figure 2-23: Bedrock Wells – Inorganics Concentration Graphs (cont.)

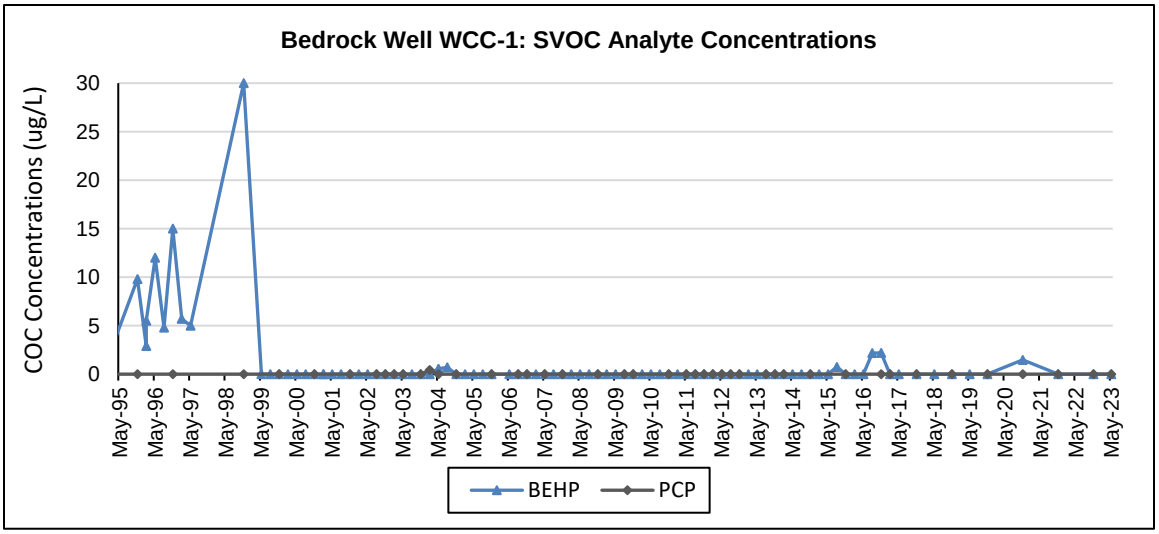




Individual Bedrock Monitoring Wells: Analyte Time-Series Graphs

Figure 2-24: Bedrock Well WCC-1 Analyte Concentration Graphs





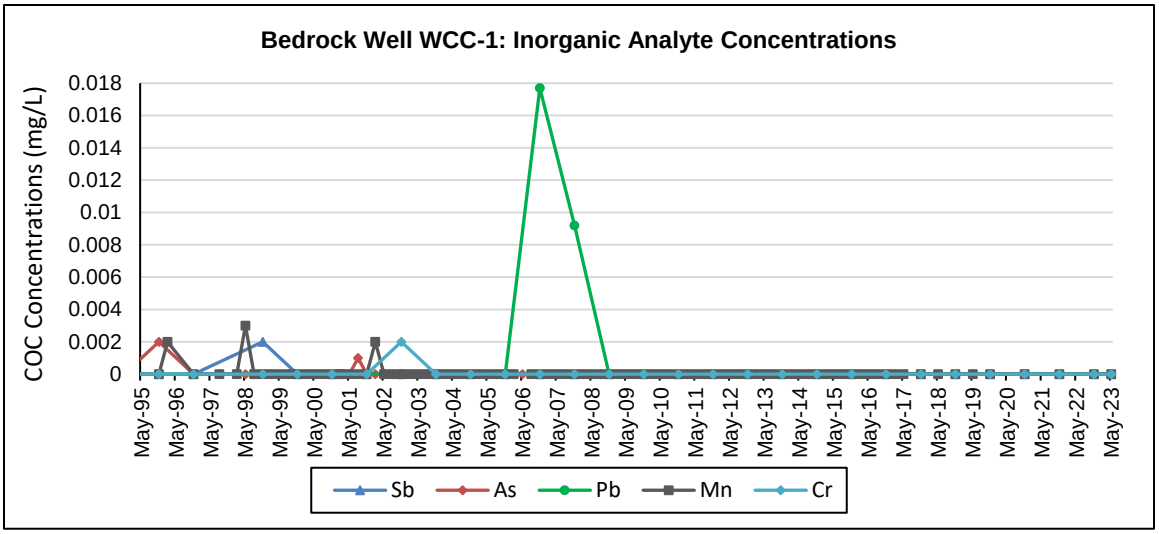
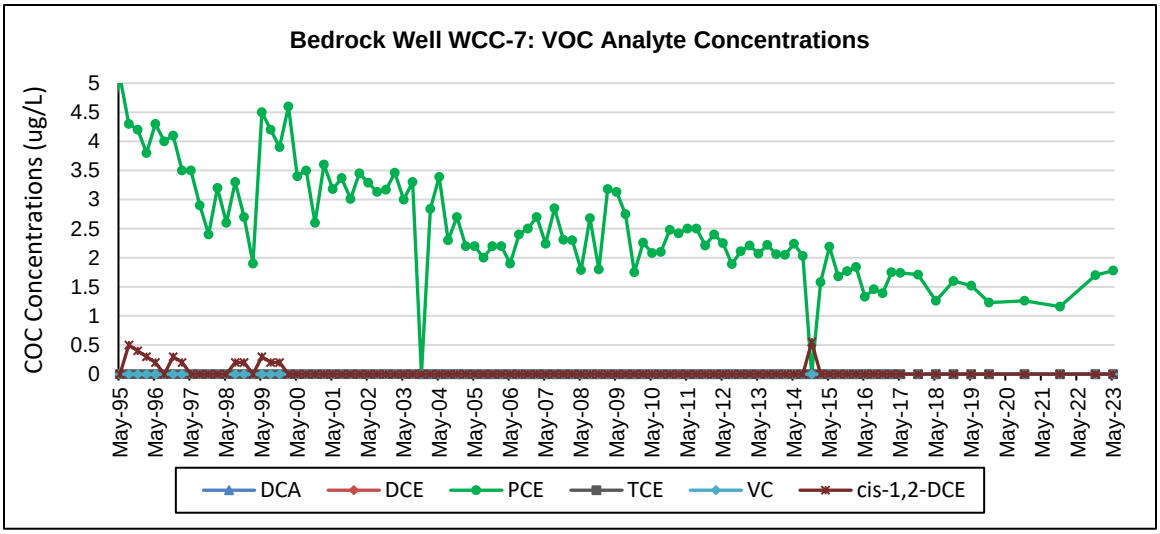
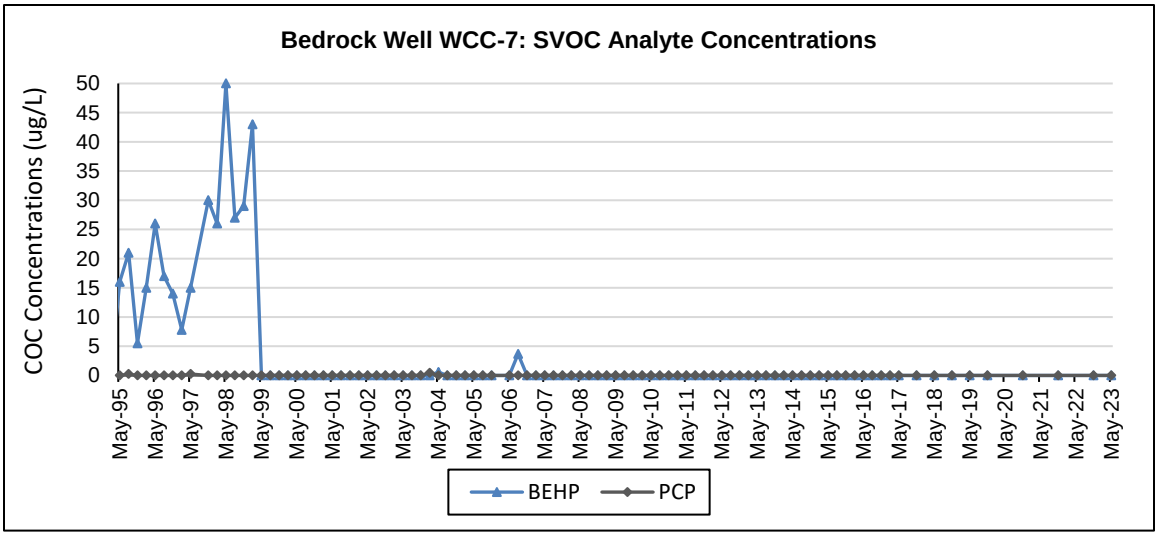


Figure 2-25: Bedrock Well WCC-7 Analyte Concentration Graphs





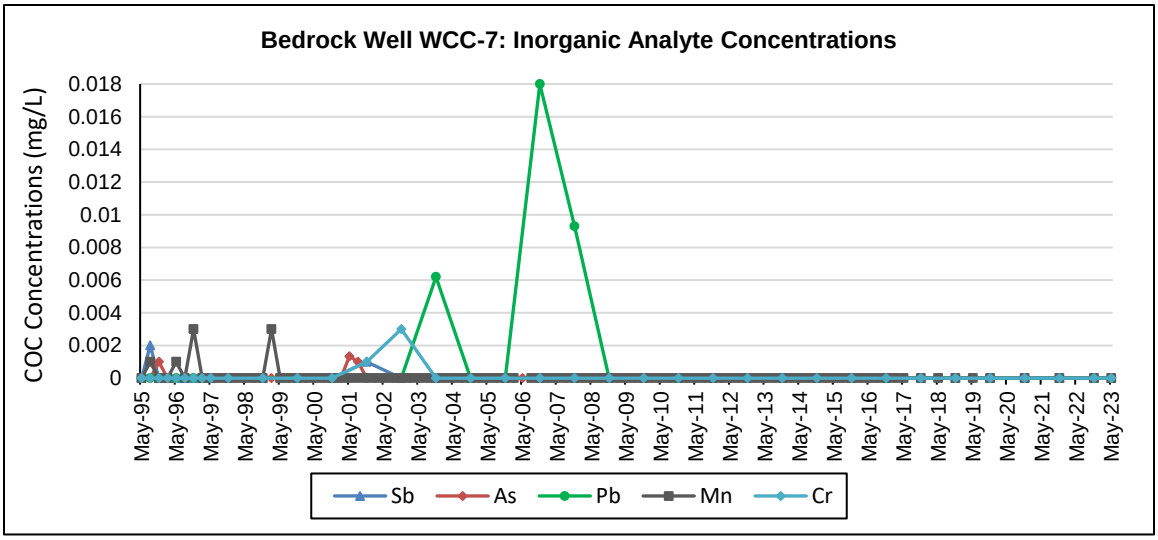
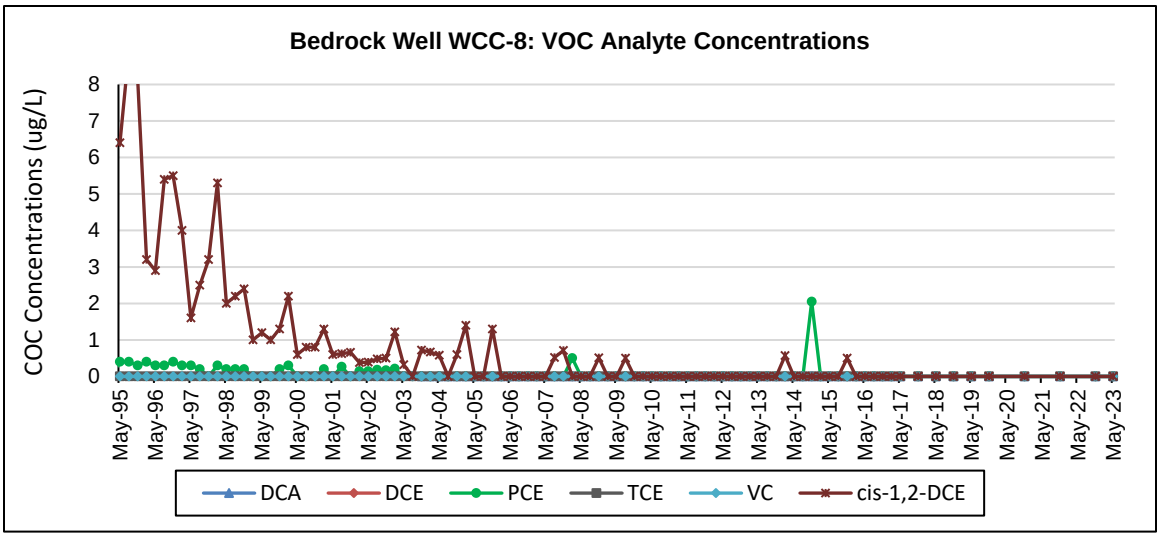
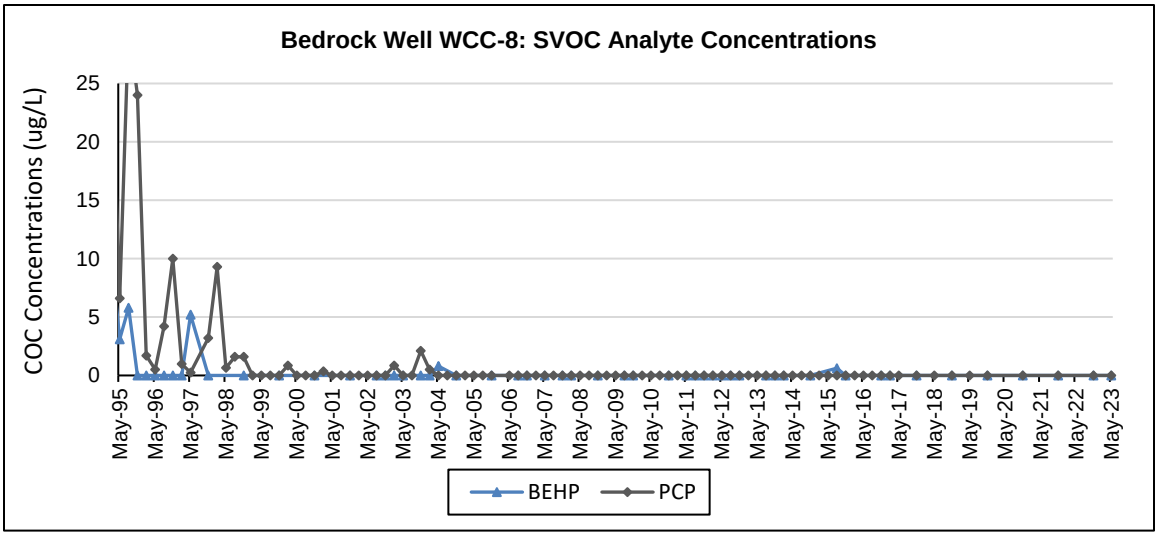


Figure 2-26: Bedrock Well WCC-8 Analyte Concentration Graphs





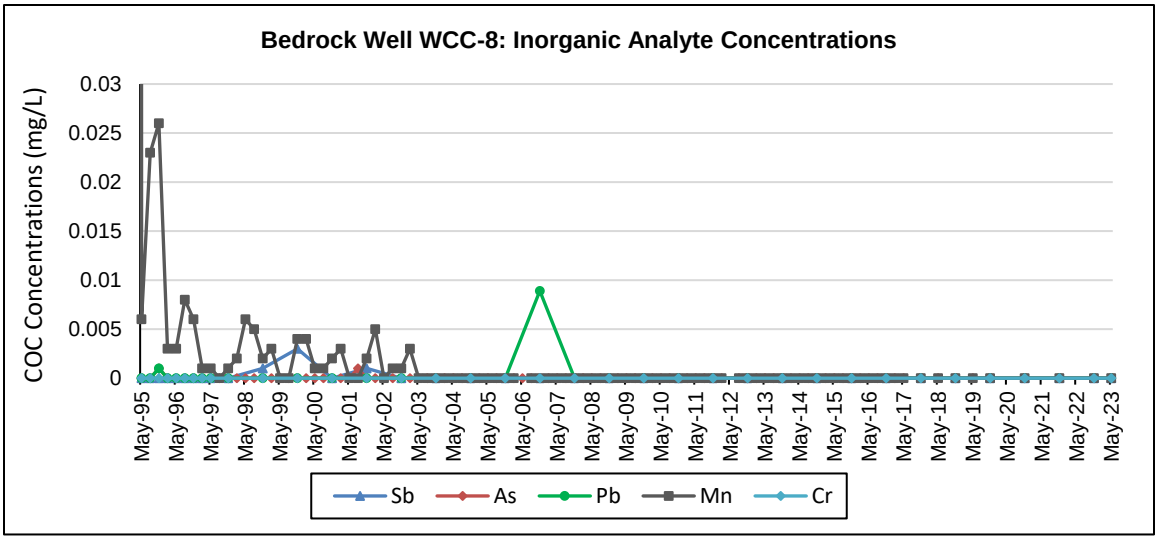
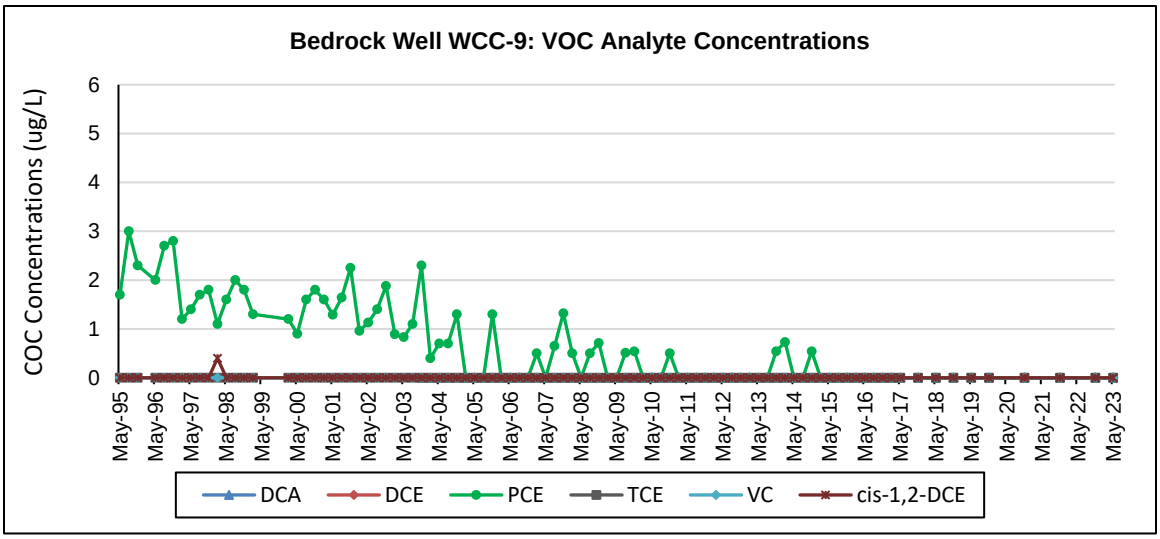
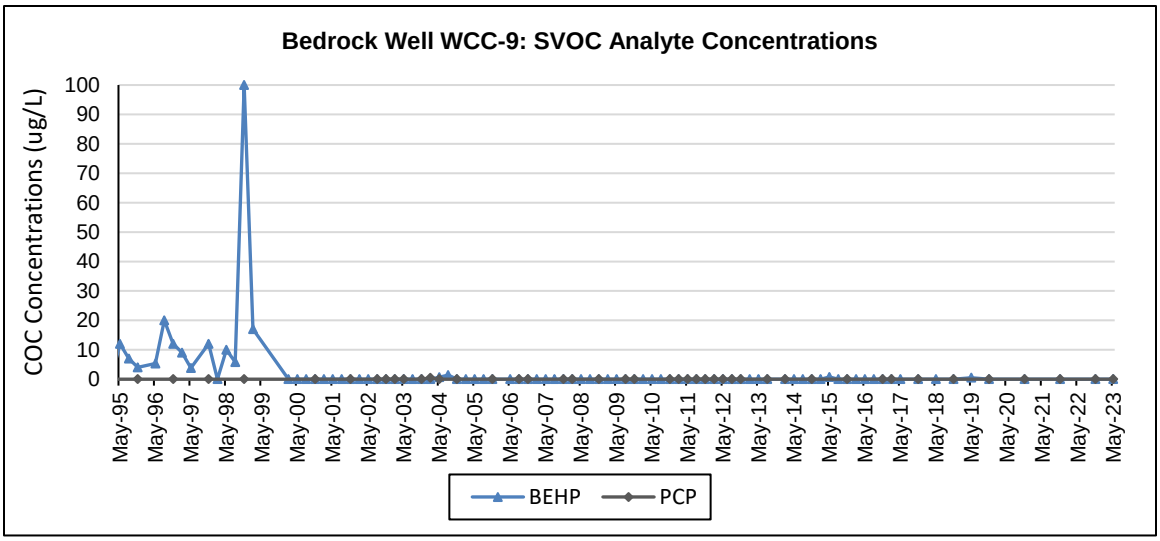


Figure 2-27: Bedrock Well WCC-9 Analyte Concentration Graphs





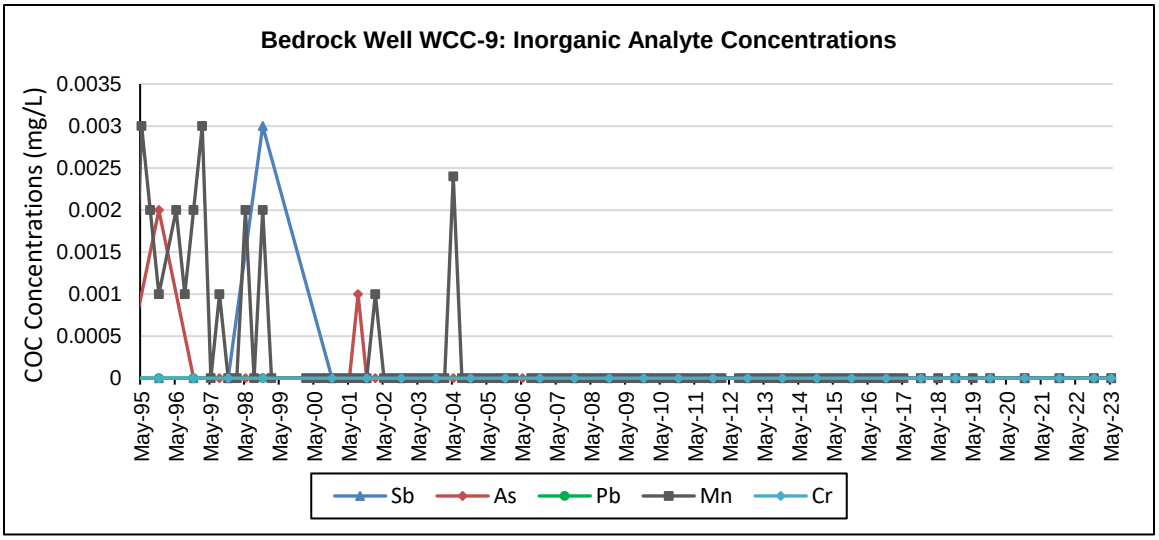
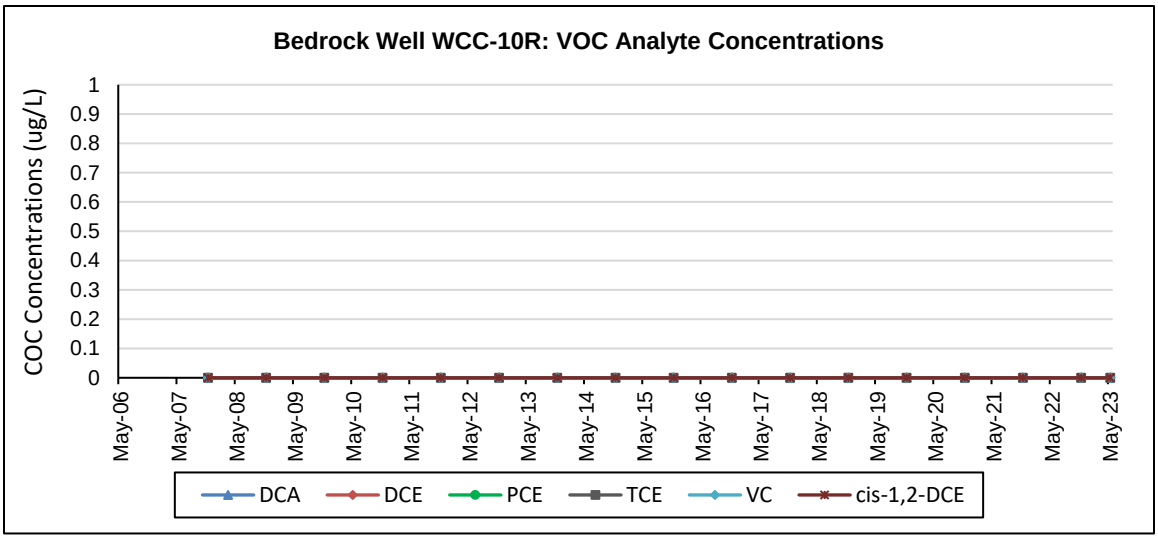
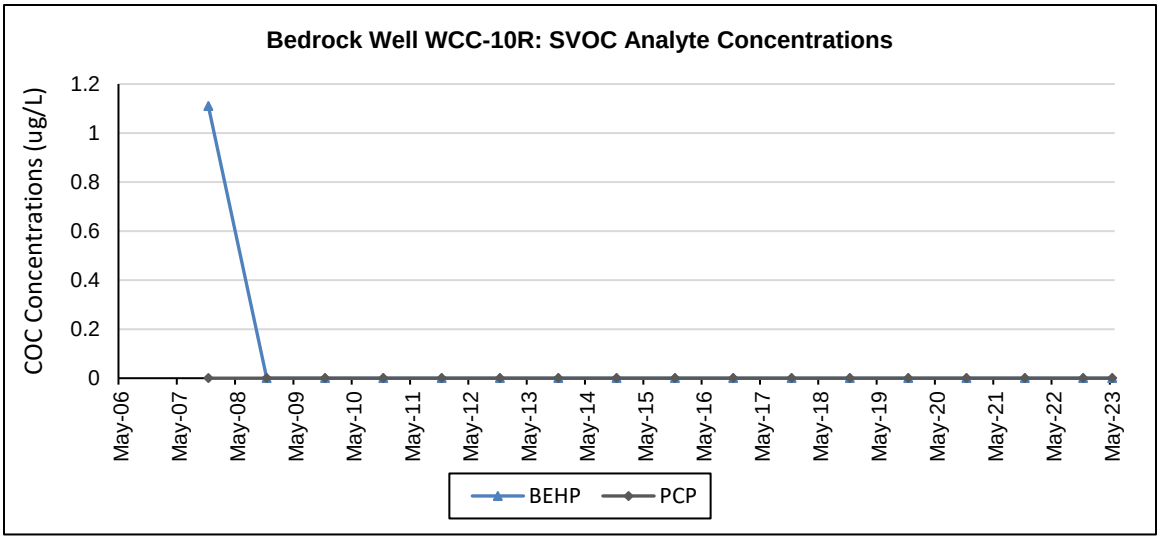
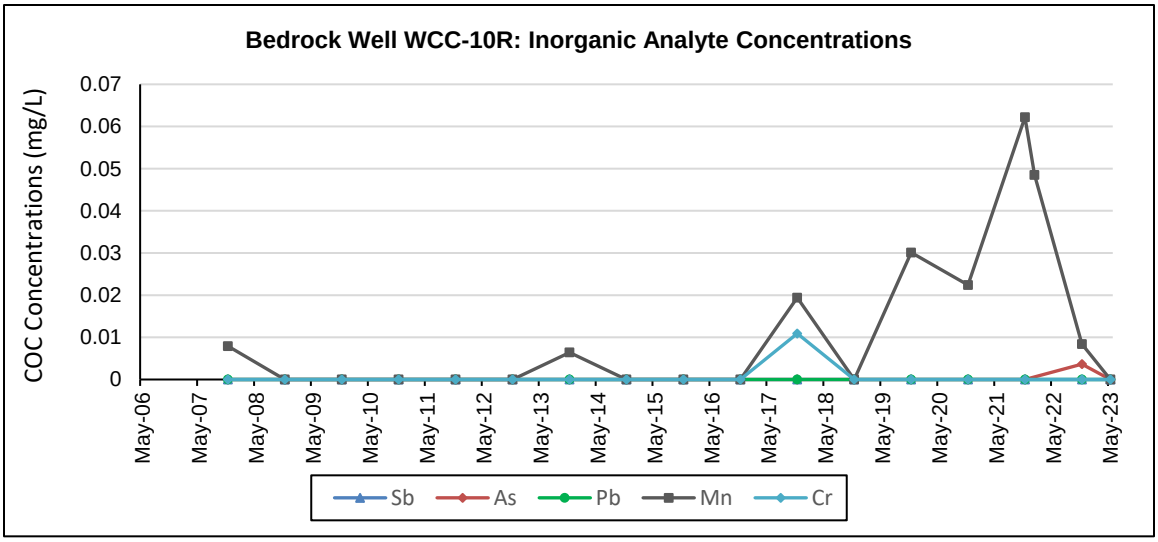


Figure 2-28: Bedrock Well WCC-10R Analyte Concentration Graphs







Bedrock Analyte Concentrations: 5-year/1-year differences:

StationID	Unit	Analyte	2018 Results	2022 Results	Current Year Results	5-Year Difference	1-Year Difference	Units	AnalyteCat
WCC1	Bedrock Aquifer	1,2-DCA	0	0	0	0	0	ug/L	V
WCC1	Bedrock Aquifer	As	0	0	0	0	0	mg/L	I
WCC1	Bedrock Aquifer	BEHP	0	0	0	0	0	ug/L	S
WCC1	Bedrock Aquifer	cis-1,2-DCE	0	0	0	0	0	ug/L	V
WCC1	Bedrock Aquifer	Cr	0	0	0	0	0	mg/L	I
WCC1	Bedrock Aquifer	Mn	0	0	0	0	0	mg/L	I
WCC1	Bedrock Aquifer	Pb	0	0	0	0	0	mg/L	I
WCC1	Bedrock Aquifer	PCE	0	0	0	0	0	ug/L	V
WCC1	Bedrock Aquifer	PCP	0	0	0	0	0	ug/L	S
WCC1	Bedrock Aquifer	Sb	0	0	0	0	0	mg/L	I
WCC1	Bedrock Aquifer	TCE	0	0	0	0	0	ug/L	V
WCC1	Bedrock Aquifer	VC	0	0	0	0	0	ug/L	V
WCC10R	Bedrock Aquifer	1,2-DCA	0	0	0	0	0	ug/L	V
WCC10R	Bedrock Aquifer	As	0	0.00364	0	0	**-0.00364**	mg/L	I
WCC10R	Bedrock Aquifer	BEHP	0	0	0	0	0	ug/L	S
WCC10R	Bedrock Aquifer	cis-1,2-DCE	0	0	0	0	0	ug/L	V
WCC10R	Bedrock Aquifer	Cr	0	0	0	0	0	mg/L	I
WCC10R	Bedrock Aquifer	Mn	0	0.0485	0	0	**-0.0485**	mg/L	I
WCC10R	Bedrock Aquifer	NO3	0.812	1.15	1.1	**0.288**	**-0.05**	mg/L	C
WCC10R	Bedrock Aquifer	Pb	0	0	0	0	0	mg/L	I
WCC10R	Bedrock Aquifer	PCE	0	0	0	0	0	ug/L	V
WCC10R	Bedrock Aquifer	PCP	0	0	0	0	0	ug/L	S
WCC10R	Bedrock Aquifer	Sb	0	0	0	0	0	mg/L	I
WCC10R	Bedrock Aquifer	TCE	0	0	0	0	0	ug/L	V
WCC10R	Bedrock Aquifer	VC	0	0	0	0	0	ug/L	V
WCC7	Bedrock Aquifer	1,2-DCA	0	0	0	0	0	ug/L	V
WCC7	Bedrock Aquifer	As	0	0	0	0	0	mg/L	I
WCC7	Bedrock Aquifer	BEHP	0	0	0	0	0	ug/L	S
WCC7	Bedrock Aquifer	cis-1,2-DCE	0	0	0	0	0	ug/L	V
WCC7	Bedrock Aquifer	Cr	0	0	0	0	0	mg/L	I
WCC7	Bedrock Aquifer	Mn	0	0	0	0	0	mg/L	I
WCC7	Bedrock Aquifer	Pb	0	0	0	0	0	mg/L	I
WCC7	Bedrock Aquifer	PCE	1.6	1.7	1.78	**0.18**	**0.08**	ug/L	V

StationID	Unit	Analyte	2018 Results	2022 Results	Current Year Results	5-Year Difference	1-Year Difference	Units	AnalyteCat
WCC7	Bedrock Aquifer	PCP	0	0	0	0	0	ug/L	S
WCC7	Bedrock Aquifer	Sb	0	0	0	0	0	mg/L	I
WCC7	Bedrock Aquifer	TCE	0	0	0	0	0	ug/L	V
WCC7	Bedrock Aquifer	VC	0	0	0	0	0	ug/L	V
WCC8	Bedrock Aquifer	1,2-DCA	0	0	0	0	0	ug/L	V
WCC8	Bedrock Aquifer	As	0	0	0	0	0	mg/L	I
WCC8	Bedrock Aquifer	BEHP	0	0	0	0	0	ug/L	S
WCC8	Bedrock Aquifer	cis-1,2-DCE	0	0	0	0	0	ug/L	V
WCC8	Bedrock Aquifer	Cr	0	0	0	0	0	mg/L	I
WCC8	Bedrock Aquifer	Mn	0	0	0	0	0	mg/L	I
WCC8	Bedrock Aquifer	NO3	1.27	1.33	1.33	**0.06**	0	mg/L	C
WCC8	Bedrock Aquifer	Pb	0	0	0	0	0	mg/L	I
WCC8	Bedrock Aquifer	PCE	0	0	0	0	0	ug/L	V
WCC8	Bedrock Aquifer	PCP	0	0	0	0	0	ug/L	S
WCC8	Bedrock Aquifer	Sb	0	0	0	0	0	mg/L	I
WCC8	Bedrock Aquifer	TCE	0	0	0	0	0	ug/L	V
WCC8	Bedrock Aquifer	VC	0	0	0	0	0	ug/L	V
WCC9	Bedrock Aquifer	1,2-DCA	0	0	0	0	0	ug/L	V
WCC9	Bedrock Aquifer	As	0	0	0	0	0	mg/L	I
WCC9	Bedrock Aquifer	BEHP	0	0	0	0	0	ug/L	S
WCC9	Bedrock Aquifer	cis-1,2-DCE	0	0	0	0	0	ug/L	V
WCC9	Bedrock Aquifer	Cr	0	0	0	0	0	mg/L	I
WCC9	Bedrock Aquifer	Mn	0	0	0	0	0	mg/L	I
WCC9	Bedrock Aquifer	NO3	2.11	2.4	2.42	**0.31**	**0.02**	mg/L	C
WCC9	Bedrock Aquifer	Pb	0	0	0	0	0	mg/L	I
WCC9	Bedrock Aquifer	PCE	0	0	0	0	0	ug/L	V
WCC9	Bedrock Aquifer	PCP	0	0	0	0	0	ug/L	S
WCC9	Bedrock Aquifer	Sb	0	0	0	0	0	mg/L	I
WCC9	Bedrock Aquifer	TCE	0	0	0	0	0	ug/L	V
WCC9	Bedrock Aquifer	VC	0	0	0	0	0	ug/L	V

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. GREENACRES LANDFILL GAS

Greenacres Landfill Gas Probe Locations

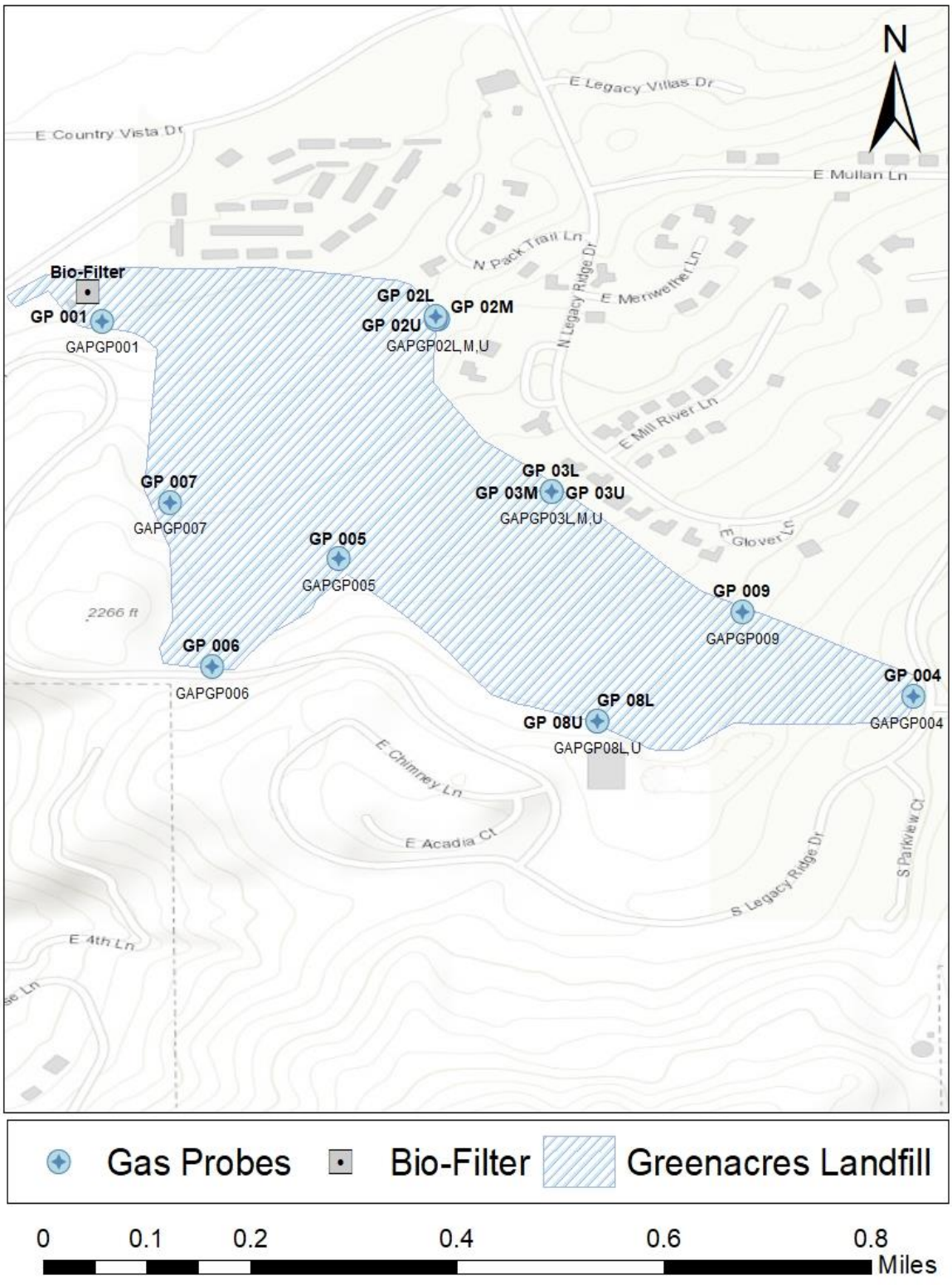


Figure 3-1: Greenacres Landfill Gas Probe Locations

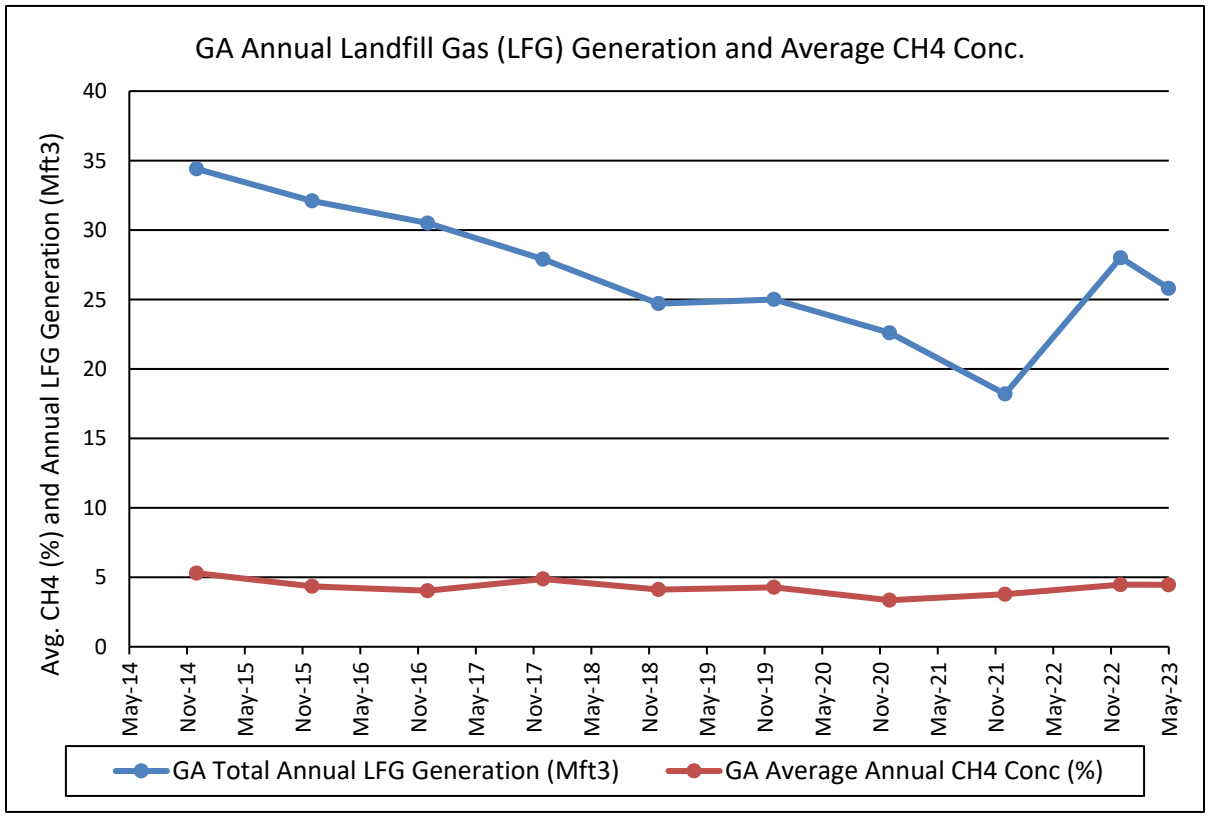
GREENACRES LANDFILL GAS SUMMARY

The Greenacres Landfill gas generation/average methane concentration summary is presented below in Table 3-1. Greenacres Landfill produced an estimated 25.8 million cubic feet of landfill gas from January to May 2023. The average methane concentration was approximately 4.46%.

Spokane County conducted a pilot test to assess the feasibility of using granular activated carbon (GAC) to treat the landfill gas. The study began in May 2023, and it consisted of installing a temporary GAC filtration system to treat the landfill gas and discharge the treated gas 25 feet into the air. County personnel collected Toxic Organics (TO-15) samples on a weekly basis for 4 weeks to evaluate the effectiveness of treating the landfill gas contaminants through GAC filtration. The sampling results were analyzed by the Spokane Regional Clean Air Agency. The study concluded in July 2023, and the results indicated that the GAC unit provided significant improvements in treating the contaminants found in the landfill gas compared to the biofilter. County personnel will install the permanent GAC filtration system once the revision for the Notice of Construction (NOC) is accepted.

GREENACRES PERIMETER GAS PROBES

The perimeter gas probe summary is presented below in Table 3-2. The Greenacres Landfill perimeter gas probe data is presented in *Appendix C: Landfill Gas Probe Measurements*.



Greenacres Landfill Gas Emission

Table 3-1: Greenacres Landfill Gas Emission Point Summary

Greenacres landfill Emission Point Summary: 2023		
Date	**Flow (cfm)**	**%CH4**
Jan	53	4.7
Feb	40	5.2
Mar	51	4.9
Apr	51	3.8
May	50	3.7
Jun	N/A	N/A
Jul	N/A	N/A
Aug	N/A	N/A
Sep	N/A	N/A
Oct	N/A	N/A
Nov	N/A	N/A
Dec	N/A	N/A
Total	735	66.9
Average	49.00	4.46
49.00	* 525,600 / 10^6 =	**25.8 Mft3**

Greenacres Landfill Perimeter Gas Probes

Table 3-2: Greenacres Landfill Perimeter Gas Probe Summary

Greenacres landfill Probe Summary 2023									
	CH4			CO2			O2		
Probe ID	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max
GAPGP001	0.00	0.00	0.00	2.18	0.80	3.60	18.42	16.10	20.30
GAPGP004	0.00	0.00	0.00	0.58	0.40	1.00	20.36	19.70	20.90
GAPGP005	0.00	0.00	0.00	0.75	0.40	1.10	18.65	17.10	20.20
GAPGP006	0.00	0.00	0.00	0.28	0.00	0.60	20.58	20.30	21.00
GAPGP007	0.00	0.00	0.00	0.45	0.40	0.50	20.50	20.40	20.60
GAPGP009	0.00	0.00	0.00	0.18	0.10	0.20	20.56	20.10	20.80
GAPGP02L	0.00	0.00	0.00	4.72	3.60	5.60	13.92	11.50	15.60
GAPGP02M	0.00	0.00	0.00	1.06	0.80	1.50	19.64	19.30	20.00
GAPGP02U	0.00	0.00	0.00	0.28	0.20	0.30	20.52	20.20	20.80
GAPGP03L	0.00	0.00	0.00	0.78	0.60	1.10	17.58	16.40	18.80
GAPGP03M	0.00	0.00	0.00	0.56	0.50	0.60	20.00	19.80	20.30
GAPGP03U	0.00	0.00	0.00	0.13	0.10	0.20	20.42	20.20	20.70
GAPGP08L	0.00	0.00	0.00	0.00	0.00	0.00	20.80	20.80	20.80
GAPGP08U	0.00	0.00	0.00	0.30	0.20	0.40	20.40	20.10	20.80

Appendix A: Groundwater Sampling Field Sheets

GREENACRES LANDFILL
ANNUAL GROUNDWATER SAMPLING FIELD SHEET May 2023

DATE: 5/2/2023	WELL ID: SVA-1	FIELD TEAM: (MT), GF, CC
SAMPLE ID: W-SVA1-230502	QA / QC SAMPLE ID:	- NA -
FIELD CONDITIONS: CLEAR UPPER 50'S		
DEDICATED BLADDER: X	DISPOSABLE BAILER:	OTHER:

TIMES

START TIME: 0820	QA / QC SAMPLE TIME: - NA -
SAMPLE TIME: 0920	END TIME: 0927

FIELD MEASUREMENT EQUIPMENT

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH pH 100	#472990	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTestr 11+	24B	Std. to 700 umhos/cm
TURBIDITY	Hach 2100P	#020100024957	Std to 4.02, 39.4, & 331 NTU
SWL INDICATOR			

PURGING INFORMATION

WELL DIAMETER (IN): 2"	1 CASING VOLUME (GAL): 5.5GAL
TOTAL DEPTH OF WELL (FT): 127.00	3 CASING VOLUME (GAL): 16.5GAL
INITIAL DEPTH TO WATER (SWL): 95.63	PURGE RATE:
PACKER DEPTH:	
COW (FT): 31.37	PACKER INFORMATION:
CALCULATION:	COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI)

~~95.63~~ 31.37 (COW) X 0.17 = 5.33 = 5 5 GAL X 3 = 16.5 G (GAL)

FIELD PARAMETERS: (+/- 10%) (+/- .1) (+/- 10%)

VOL. PURGED(GAL) / TIME	TEMP °C	pH	CONDUCTIVITY (umhos)	APPEARANCE
5.5G / 0839	11.1	7.96	221	CLEAR
11.0G / 0859	11.0	7.94	219	CLEAR
16.5G / 0919	11.0	7.93	220	CLEAR
/				
			TURBIDITY: 0.18	NTU (meas in field lab)

COMMENTS:

ALL FIELD PARAMTERS ARE ACCURATE AND TRUE: SIGNATURE: [signature] DATE: 5/2/23

ANNUAL ROUND:

SAMPLE ID: W-SVA1-230502 **SAMPLE TIME:** 0920

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

GROUNDWATER SAMPLES

PARAMETERS:	VOLATILES (A)	SEMI VOLATILES (B) Bis(2-ethylhexyl)phthalate (BEHP)	SEMI VOLATILES (B) Pentachlorophenol (PCP)	NITRATE (NO3)	METALS (C) Arsenic (As) (Dissolved)	METALS (C) Manganese (Mn) (Dissolved)	METALS (C) Chromium (Cr) (Dissolved)	METALS (C) Lead (Pb) (Dissolved)	METALS (C) Antimony (Sb) (Dissolved)
CONTAINERS:	3-40 ml Viles	1 Liter Amber Glass	1 Liter Amber Glass	1-250 ml. Poly Bottle	1 -500 ml Poly Bottle	1 -500 ml Poly Bottle	1 -500 ml Poly Bottle	1 - 500 ml Poly Bottle	1 - 500 ml Poly Bottle
PRESERVATION:	HCl pH < 2	Unpreserved	Unpreserved	Unpreserved	HNO3 to pH < 2 Field Filtered	HNO3 to pH < 2 Field Filtered	HNO3 to pH < 2 Field Filtered	HNO3 to pH<2 Field Filtered	HNO3 to pH<2 Field Filtered
HOLDING TIME:	14 Days	7 Days To Extract	7 Days To Extract	48 Hours to extract	6 Months	6 Months	6 Months	6 Months	6 Months
METHODS:	SW 8260B	SW 8270C	SW 8270C	300	SW 7060A	SW 6010	SW 6010	SW 6010	SW 7041
SAMPLING:	*1	*1	*1	*2	*2	*2	*2	*2	*2

(A) Tetrachlorethylene; Trichloroethylene; Vinyl Chloride; 1,2-Dichloroethane; 1,2-Dichloroethylene

(B) BEHP and PCP sampled from same 2 bottles (started filling 2 1-Liter botttles on 11/2021)

(C) All metals are sampled from same bottle

COMMENTS: ***1 - ANATEK LAB IN MOSCOW ID**

***2 - SVL IN KELLOGG ID**

GREENACRES LANDFILL
ANNUAL GROUNDWATER SAMPLING FIELD SHEET May 2023

DATE: 5/2/2023	WELL ID: WCC-1	FIELD TEAM: MT, GR, CC
SAMPLE ID: W-WCC1-230502	QA / QC SAMPLE ID: - NA	
FIELD CONDITIONS: Sunny, ~~High 70's, low 80s~~ ~~Mid~~ 60's cc		
DEDICATED BLADDER: X	DISPOSABLE BAILER:	OTHER:

TIMES

START TIME: 0840	QA / QC SAMPLE TIME: N/A
SAMPLE TIME: 0954	END TIME: 1006

FIELD MEASUREMENT EQUIPMENT

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH pH 100	47611985	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, & 331 NTU
SWL INDICATOR	Slope Ind.	412018	

PURGING INFORMATION

WELL DIAMETER (IN): 2"	1 CASING VOLUME (GAL): 6 gal
TOTAL DEPTH OF WELL (FT): 124.00'	3 CASING VOLUME (GAL): 18 gal
INITIAL DEPTH TO WATER (SWL): 94.31	PURGE RATE: ≈ 0.29 gpm
PACKER DEPTH: N/A	
COW (FT): 29.69	PACKER INFORMATION: N/A
CALCULATION: 29.69 (COW) X 0.17 = 5.04 ⇒ 6 (GAL)	COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI)

FIELD PARAMETERS: (+/- 10%) (+/- .1) (+/- 10%)

VOL. PURGED(GAL) / TIME	TEMP °C	pH	CONDUCTIVITY (umhos)	APPEARANCE
6 / 0901	12.5	7.76	482	Clear
12 / 0927	12.6	7.80	484	Clear
18 / 0950	12.9	7.79	480	Clear
/				
			TURBIDITY: 0.24	NTU (meas in field lab)

COMMENTS: Collected all output and measured volume.

ALL FIELD PARAMTERS ARE ACCURATE AND TRUE: SIGNATURE: [signature] DATE: 05/02/23

ANNUAL ROUND:

SAMPLE ID: W-WCC1-230502 **SAMPLE TIME:** 0954

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

GROUNDWATER SAMPLES

PARAMETERS:	VOLATILES (A)	SEMI VOLATILES (B) Bis(2-ethylhexyl)phthalate (BEHP)	SEMI VOLATILES (B) Pentachlorophenol (PCP)	NITRATE (NO3)	METALS (C) Arsenic (As) (Dissolved)	METALS (C) Manganese (Mn) (Dissolved)	METALS (C) Chromium (Cr) (Dissolved)	METALS (C) Lead (Pb) (Dissolved)	METALS (C) Antimony (Sb) (Dissolved)
CONTAINERS:	3-40 ml Viles	1 Liter Amber Glass	1 Liter Amber Glass	1-250 ml. Poly Bottle	1 -500 ml Poly Bottle	1 -500 ml Poly Bottle	1 -500 ml Poly Bottle	1 - 500 ml Poly Bottle	1 - 500 ml Poly Bottle
PRESERVATION:	HCl pH < 2	Unpreserved	Unpreserved	Unpreserved	HNO3 to pH < 2 Field Filtered	HNO3 to pH < 2 Field Filtered	HNO3 to pH < 2 Field Filtered	HNO3 to pH<2 Field Filtered	HNO3 to pH<2 Field Filtered
HOLDING TIME:	14 Days	7 Days To Extract	7 Days To Extract	48 Hours to extract	6 Months	6 Months	6 Months	6 Months	6 Months
METHODS:	SW 8260B	SW 8270C	SW 8270C	300	SW 7060A	SW 6010	SW 6010	SW 6010	SW 7041
SAMPLING:	*1	*1	*1	*2	*2	*2	*2	*2	*2

(A) Tetrachlorethylene; Trichloroethylene; Vinyl Chloride; 1,2-Dichloroethane; 1,2-Dichloroethylene

(B) BEHP and PCP sampled from same 2 bottles (started filling 2 1-Liter botttles on 11/2021)

(C) All metals are sampled from same bottle

COMMENTS: ***1 - ANATEK LAB IN MOSCOW ID**

***2 - SVL IN KELLOGG ID**

GREENACRES LANDFILL
ANNUAL GROUNDWATER SAMPLING FIELD SHEET May 2023

DATE: 5/2/2023	WELL ID: WCC-2	FIELD TEAM: (MT), GF, CC
SAMPLE ID: W-WCC2-230502	QA / QC SAMPLE ID:	-NA-
FIELD CONDITIONS: CLEAR LOW 60S		
DEDICATED BLADDER: X	DISPOSABLE BAILER:	OTHER:

TIMES

START TIME:	0935	QA / QC SAMPLE TIME:	-NA-
SAMPLE TIME:	1015	END TIME:	1020

FIELD MEASUREMENT EQUIPMENT

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH pH 100	472990	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTestr 11+	248	Std. to 700 umhos/cm
TURBIDITY	Hach 2100P	#020100024957	Std to 4.02, 39.4, & 331 NTU
SWL INDICATOR			

PURGING INFORMATION

WELL DIAMETER (IN):	2"	1 CASING VOLUME (GAL):	4
TOTAL DEPTH OF WELL (FT):	123.00'	3 CASING VOLUME (GAL):	12
INITIAL DEPTH TO WATER (SWL):	99.89'	PURGE RATE:	
PACKER DEPTH:			
COW (FT):	23.11'	PACKER INFORMATION:	
CALCULATION: 23.11' (COW) X 0.17 = 3.92=4 GAL (GAL) x 3 = 12 GAL		COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI)	

FIELD PARAMETERS: (+/- 10%) (+/- .1) (+/- 10%)

VOL. PURGED(GAL) / TIME	TEMP °C	pH	CONDUCTIVITY (umhos)	APPEARANCE
4GAL / 0947	12.1	7.25	521	BROWNISH COLOR
8GAL / 0959	11.9	7.29	517	SLI CLOUDY / BROWN PART
12GAL / 1013	11.8	7.28	516	" "
/				
			TURBIDITY: 13.01	NTU (meas in field lab)

COMMENTS: HIGH TURB. ALOT of ROAD CONSTRUCTION NEW OVERPASS of I-90

ALL FIELD PARAMTERS ARE ACCURATE AND TRUE: SIGNATURE: _____ DATE: 5/2/23

ANNUAL ROUND:

SAMPLE ID: W-WCC2-230502 **SAMPLE TIME:** 1015

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

GROUNDWATER SAMPLES

PARAMETERS:	VOLATILES (A)	SEMI VOLATILES (B) Bis(2-ethylhexyl)phthalate (BEHP)	SEMI VOLATILES (B) Pentachlorophenol (PCP)	NITRATE (NO3)	METALS (C) Arsenic (As) (Dissolved)	METALS (C) Manganese (Mn) (Dissolved)	METALS (C) Chromium (Cr) (Dissolved)	METALS (C) Lead (Pb) (Dissolved)	METALS (C) Antimony (Sb) (Dissolved)
CONTAINERS:	3-40 ml Viles	1 Liter Amber Glass	1 Liter Amber Glass	1-250 ml. Poly Bottle	1 -500 ml Poly Bottle	1 -500 ml Poly Bottle	1 -500 ml Poly Bottle	1 - 500 ml Poly Bottle	1 - 500 ml Poly Bottle
PRESERVATION:	HCl pH < 2	Unpreserved	Unpreserved	Unpreserved	HNO3 to pH < 2 Field Filtered	HNO3 to pH < 2 Field Filtered	HNO3 to pH < 2 Field Filtered	HNO3 to pH<2 Field Filtered	HNO3 to pH<2 Field Filtered
HOLDING TIME:	14 Days	7 Days To Extract	7 Days To Extract	48 Hours to extract	6 Months	6 Months	6 Months	6 Months	6 Months
METHODS:	SW 8260B	SW 8270C	SW 8270C	300	SW 7060A	SW 6010	SW 6010	SW 6010	SW 7041
SAMPLING:	*1	*1	*1	*2	*2	*2	*2	*2	*2

(A) Tetrachlorethylene; Trichloroethylene; Vinyl Chloride; 1,2-Dichloroethane; 1,2-Dichloroethylene

(B) BEHP and PCP sampled from same 2 bottles (started filling 2 1-Liter botttles on 11/2021)

(C) All metals are sampled from same bottle

COMMENTS: *1 - ANATEK LAB IN MOSCOW ID

*2 - SVL IN KELLOGG ID

GREENACRES LANDFILL
ANNUAL GROUNDWATER SAMPLING FIELD SHEET May 2023

DATE: 5/2/2023	WELL ID: WCC-4A	FIELD TEAM: MT, GF, CC
SAMPLE ID: W-WCC4A-230502	QA / QC SAMPLE ID: - NA -	
FIELD CONDITIONS: Sunny, mid 80s		
DEDICATED BLADDER: X	DISPOSABLE BAILER:	OTHER:

TIMES

START TIME: 1106	QA / QC SAMPLE TIME: N/A
SAMPLE TIME: 1202	END TIME: 1210

FIELD MEASUREMENT EQUIPMENT

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH pH 100	47611 95	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, & 331 NTU
SWL INDICATOR	Slope Ind.	412018	

PURGING INFORMATION

WELL DIAMETER (IN): 2"	1 CASING VOLUME (GAL): 6
TOTAL DEPTH OF WELL (FT): 138.00'	3 CASING VOLUME (GAL): 18
INITIAL DEPTH TO WATER (SWL): 104.31	PURGE RATE: ≈ 0.46 gpm
PACKER DEPTH: N/A	
COW (FT): 33.69	PACKER INFORMATION:
CALCULATION: 33.69 X 0.17 = 5.72 ≈ 6	COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI)
(COW) 6 (GAL)	

FIELD PARAMETERS: (+/- 10%) (+/- .1) (+/- 10%)

VOL. PURGED(GAL) / TIME	TEMP °C	pH	CONDUCTIVITY (umhos)	APPEARANCE
6 / 1119	12.3	6.90	685	Clear
12 / 1139	11.9	6.92	694	Clear
18 / 1158	11.9	6.95	703	Clear
/				
			TURBIDITY: 0.26	NTU (meas in field lab)

COMMENTS: Wellhead dry. Collected all output, and measured volume.

ALL FIELD PARAMTERS ARE ACCURATE AND TRUE: SIGNATURE: [signature] DATE: 05/02/23

ANNUAL ROUND:

SAMPLE ID: W-WCC4A-230502 **SAMPLE TIME:** 1202

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

GROUNDWATER SAMPLES

PARAMETERS:	VOLATILES (A)	SEMI VOLATILES (B) Bis(2-ethylhexyl)phthalate (BEHP)	SEMI VOLATILES (B) Pentachlorophenol (PCP)	NITRATE (NO3)	METALS (C) Arsenic (As) (Dissolved)	METALS (C) Manganese (Mn) (Dissolved)	METALS (C) Chromium (Cr) (Dissolved)	METALS (C) Lead (Pb) (Dissolved)	METALS (C) Antimony (Sb) (Dissolved)
CONTAINERS:	3-40 ml Viles	1 Liter Amber Glass	1 Liter Amber Glass	1-250 ml. Poly Bottle	1 -500 ml Poly Bottle	1 -500 ml Poly Bottle	1 -500 ml Poly Bottle	1 - 500 ml Poly Bottle	1 - 500 ml Poly Bottle
PRESERVATION:	HCl pH < 2	Unpreserved	Unpreserved	Unpreserved	HNO3 to pH < 2 Field Filtered	HNO3 to pH < 2 Field Filtered	HNO3 to pH < 2 Field Filtered	HNO3 to pH<2 Field Filtered	HNO3 to pH<2 Field Filtered
HOLDING TIME:	14 Days	7 Days To Extract	7 Days To Extract	48 Hours to extract	6 Months	6 Months	6 Months	6 Months	6 Months
METHODS:	SW 8260B	SW 8270C	SW 8270C	300	SW 7060A	SW 6010	SW 6010	SW 6010	SW 7041
SAMPLING:	*1	*1	*1	*2	*2	*2	*2	*2	*2

(A) Tetrachlorethylene; Trichloroethylene; Vinyl Chloride; 1,2-Dichloroethane; 1,2-Dichloroethylene

(B) BEHP and PCP sampled from same 2 bottles (started filling 2 1-Liter botttles on 11/2021)

(C) All metals are sampled from same bottle

COMMENTS: ***1 - ANATEK LAB IN MOSCOW ID**

***2 - SVL IN KELLOGG ID**

GREENACRES LANDFILL
ANNUAL GROUNDWATER SAMPLING FIELD SHEET May 2023

DATE: 5/2/2023	WELL ID: WCC-7	FIELD TEAM: MT, GF, CC
SAMPLE ID: W-WCC7-230502	QA / QC SAMPLE ID:	W-WCC7-230502 MS W-WCC7-230502 MSD
FIELD CONDITIONS: Clear, 60's		
DEDICATED BLADDER: X	DISPOSABLE BAILER:	OTHER:

TIMES

START TIME: 1234	QA / QC SAMPLE TIME: MS/MSD
SAMPLE TIME: 1254	END TIME: 1305

FIELD MEASUREMENT EQUIPMENT

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH pH 100	476432	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTestr 11+	7810	Std. to 700 umhos/cm
TURBIDITY	Hach 2100P	#020100024957	Std to 4.02, 39.4, & 331 NTU
SWL INDICATOR	Slope Ind	23474	

PURGING INFORMATION

WELL DIAMETER (IN): 2"	1 CASING VOLUME (GAL): 3
TOTAL DEPTH OF WELL (FT): 86.00'	3 CASING VOLUME (GAL): 9
INITIAL DEPTH TO WATER (SWL): 70.94	PURGE RATE:
PACKER DEPTH: NA	
COW (FT): 15.06	PACKER INFORMATION:
CALCULATION: 15.06 X 0.17 = 2.6 use 3.0 (COW) (GAL)	COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI)

FIELD PARAMETERS: (+/- 10%) (+/- .1) (+/- 10%)

VOL. PURGED(GAL) / TIME	TEMP °C	pH	CONDUCTIVITY (umhos)	APPEARANCE
3 / 1240	12.9	7.48	792	Clear
6 / 1247	12.9	7.45	802	Clear
9 / 1253	12.9	7.42	819	Clear
/				
			TURBIDITY: 0.22	NTU (meas in field lab)

COMMENTS: * MS/MSD TAKEN HERE, FILLED 2 EXTRA SET OF BOTTLES

ALL FIELD PARAMTERS ARE ACCURATE AND TRUE: SIGNATURE: _____ DATE: 5/2/23

ANNUAL ROUND:

SAMPLE ID: W-WCC7-230502

W-WCC7-230502MS

QA / QC SAMPLE ID: W-WCC7-230502 MSD

SAMPLE TIME: 1254

QA / QC SAMPLE TIME: NA

GROUNDWATER SAMPLES

PARAMETERS:	VOLATILES (A)	SEMI VOLATILES (B) Bis(2-ethylhexyl)phthalate (BEHP)	SEMI VOLATILES (B) Pentachlorophenol (PCP)	NITRATE (NO3)	METALS (C) Arsenic (As) (Dissolved)	METALS (C) Manganese (Mn) (Dissolved)	METALS (C) Chromium (Cr) (Dissolved)	METALS (C) Lead (Pb) (Dissolved)	METALS (C) Antimony (Sb) (Dissolved)
CONTAINERS:	3-40 ml Viles	1 Liter Amber Glass	1 Liter Amber Glass	1-250 ml. Poly Bottle	1 -500 ml Poly Bottle	1 -500 ml Poly Bottle	1 -500 ml Poly Bottle	1 - 500 ml Poly Bottle	1 - 500 ml Poly Bottle
PRESERVATION:	HCl pH < 2	Unpreserved	Unpreserved	Unpreserved	HNO3 to pH < 2 Field Filtered	HNO3 to pH < 2 Field Filtered	HNO3 to pH < 2 Field Filtered	HNO3 to pH<2 Field Filtered	HNO3 to pH<2 Field Filtered
HOLDING TIME:	14 Days	7 Days To Extract	7 Days To Extract	48 Hours to extract	6 Months	6 Months	6 Months	6 Months	6 Months
METHODS:	SW 8260B	SW 8270C	SW 8270C	300	SW 7060A	SW 6010	SW 6010	SW 6010	SW 7041
SAMPLING:	*1	*1	*1	*2	*2	*2	*2	*2	*2

(A) Tetrachlorethylene; Trichloroethylene; Vinyl Chloride; 1,2-Dichloroethane; 1,2-Dichloroethylene

(B) BEHP and PCP sampled from same 2 bottles (started filling 2 1-Liter botttles on 11/2021)

(C) All metals are sampled from same bottle

COMMENTS: ***1 - ANATEK LAB IN MOSCOW ID**

***2 - SVL IN KELLOGG ID**

*MS/MSD TAKEN HERE

GREENACRES LANDFILL
ANNUAL GROUNDWATER SAMPLING FIELD SHEET May 2023

DATE: 5/2/2023	WELL ID: WCC-8	FIELD TEAM: MT (GF) CC
SAMPLE ID: W-WCC8-230502	QA / QC SAMPLE ID: -NA-	
FIELD CONDITIONS: Clear, 60°		
DEDICATED BLADDER: X	DISPOSABLE BAILER:	OTHER: 1208

TIMES

START TIME: 1103	QA / QC SAMPLE TIME: NA
SAMPLE TIME: 1157	END TIME:

FIELD MEASUREMENT EQUIPMENT

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH pH 100	476432	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTestr 11+	7810	Std. to 700 umhos/cm
TURBIDITY	Hach 2100P	#020100024957	Std to 4.02, 39.4, & 331 NTU
SWL INDICATOR	Slope In0	23474	

PURGING INFORMATION

WELL DIAMETER (IN): 2"	1 CASING VOLUME (GAL): 2.5
TOTAL DEPTH OF WELL (FT): 111.00'	3 CASING VOLUME (GAL): 7.5
INITIAL DEPTH TO WATER (SWL): 53.10	PURGE RATE:
PACKER DEPTH: 97.0	
COW (FT): 14.0'	PACKER INFORMATION:
CALCULATION: 14.0 X 0.17 = 2.4 use 2.5 gal/vol	COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI) = 62psi
(COW) (GAL)	

FIELD PARAMETERS: (+/- 10%) (+/- .1) (+/- 10%)

VOL. PURGED(GAL) / TIME	TEMP °C	pH	CONDUCTIVITY (umhos)	APPEARANCE
2.5 / 1124	12.9	7.04	150	Clear
5.0 / 1139	12.8	7.06	144	Clear
7.5 / 1155	12.9	7.02	141	clear
/				
			TURBIDITY: → 0.25 NTU (meas in field lab)	

COMMENTS:

ALL FIELD PARAMTERS ARE ACCURATE AND TRUE: SIGNATURE: [signature] DATE: 5/2/23

ANNUAL ROUND:

SAMPLE ID: W-WCC8-230502 **SAMPLE TIME:** 1157

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

GROUNDWATER SAMPLES

PARAMETERS:	VOLATILES (A)	SEMI VOLATILES (B) Bis(2-ethylhexyl)phthalate (BEHP)	SEMI VOLATILES (B) Pentachlorophenol (PCP)	NITRATE (NO3)	METALS (C) Arsenic (As) (Dissolved)	METALS (C) Manganese (Mn) (Dissolved)	METALS (C) Chromium (Cr) (Dissolved)	METALS (C) Lead (Pb) (Dissolved)	METALS (C) Antimony (Sb) (Dissolved)
CONTAINERS:	3-40 ml Viles	1 Liter Amber Glass	1 Liter Amber Glass	1-250 ml. Poly Bottle	1 -500 ml Poly Bottle	1 -500 ml Poly Bottle	1 -500 ml Poly Bottle	1 - 500 ml Poly Bottle	1 - 500 ml Poly Bottle
PRESERVATION:	HCl pH < 2	Unpreserved	Unpreserved	Unpreserved	HNO3 to pH < 2 Field Filtered	HNO3 to pH < 2 Field Filtered	HNO3 to pH < 2 Field Filtered	HNO3 to pH<2 Field Filtered	HNO3 to pH<2 Field Filtered
HOLDING TIME:	14 Days	7 Days To Extract	7 Days To Extract	48 Hours to extract	6 Months	6 Months	6 Months	6 Months	6 Months
METHODS:	SW 8260B	SW 8270C	SW 8270C	300	SW 7060A	SW 6010	SW 6010	SW 6010	SW 7041
SAMPLING:	*1	*1	*1	*2	*2	*2	*2	*2	*2

(A) Tetrachlorethylene; Trichloroethylene; Vinyl Chloride; 1,2-Dichloroethane; 1,2-Dichloroethylene

(B) BEHP and PCP sampled from same 2 bottles (started filling 2 1-Liter botttles on 11/2021)

(C) All metals are sampled from same bottle

COMMENTS: ***1 - ANATEK LAB IN MOSCOW ID**

***2 - SVL IN KELLOGG ID**

GREENACRES LANDFILL
ANNUAL GROUNDWATER SAMPLING FIELD SHEET May 2023

DATE: 5/2/2023	WELL ID: WCC-9	FIELD TEAM: (MT) GF, CC
SAMPLE ID: W-WCC9-230502	QA / QC SAMPLE ID: -NA-	
FIELD CONDITIONS: CLEAR MID-60'S		
DEDICATED BLADDER: X	DISPOSABLE BAILER:	OTHER:

TIMES

START TIME:	1030	QA / QC SAMPLE TIME:	-NA-
SAMPLE TIME:	1100	END TIME:	1104

FIELD MEASUREMENT EQUIPMENT

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH pH 100	472990	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTestr 11+	24B	Std. to 700 umhos/cm
TURBIDITY	Hach 2100P	#020100024957	Std to 4.02, 39.4, & 331 NTU
SWL INDICATOR			

PURGING INFORMATION

WELL DIAMETER (IN):	2"	1 CASING VOLUME (GAL):	4 GAL
TOTAL DEPTH OF WELL (FT):	45.00'	3 CASING VOLUME (GAL):	12 GAL
INITIAL DEPTH TO WATER (SWL):	23.97	PURGE RATE:	
PACKER DEPTH:			
COW (FT):	21.03'	PACKER INFORMATION:	
CALCULATION: 21.03' (COW) X 0.17 = 3.57 (GAL) X 3 = 12 GAL		COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI)	

FIELD PARAMETERS: (+/- 10%) (+/- .1) (+/- 10%)

VOL. PURGED(GAL) / TIME	TEMP °C	pH	CONDUCTIVITY (umhos)	APPEARANCE
4GAL / 1039	11.3	6.39	90.1	CLEAR
8GAL / 1049	11.1	6.41	89.4	CLEAR
12GAL / 1059	11.0	6.40	89.6	CLEAR
/				
			TURBIDITY: 0.17	NTU (meas in field lab)

COMMENTS:

ALL FIELD PARAMTERS ARE ACCURATE AND TRUE: SIGNATURE: [signature] DATE: 5/2/23

ANNUAL ROUND:

SAMPLE ID: W-WCC9-230502 **SAMPLE TIME:** 1100

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

GROUNDWATER SAMPLES

PARAMETERS:	VOLATILES (A)	SEMI VOLATILES (B) Bis(2-ethylhexyl)phthalate (BEHP)	SEMI VOLATILES (B) Pentachlorophenol (PCP)	NITRATE (NO3)	METALS (C) Arsenic (As) (Dissolved)	METALS (C) Manganese (Mn) (Dissolved)	METALS (C) Chromium (Cr) (Dissolved)	METALS (C) Lead (Pb) (Dissolved)	METALS (C) Antimony (Sb) (Dissolved)
CONTAINERS:	3-40 ml Viles	1 Liter Amber Glass	1 Liter Amber Glass	1-250 ml. Poly Bottle	1 -500 ml Poly Bottle	1 -500 ml Poly Bottle	1 -500 ml Poly Bottle	1 - 500 ml Poly Bottle	1 - 500 ml Poly Bottle
PRESERVATION:	HCl pH < 2	Unpreserved	Unpreserved	Unpreserved	HNO3 to pH < 2 Field Filtered	HNO3 to pH < 2 Field Filtered	HNO3 to pH < 2 Field Filtered	HNO3 to pH<2 Field Filtered	HNO3 to pH<2 Field Filtered
HOLDING TIME:	14 Days	7 Days To Extract	7 Days To Extract	48 Hours to extract	6 Months	6 Months	6 Months	6 Months	6 Months
METHODS:	SW 8260B	SW 8270C	SW 8270C	300	SW 7060A	SW 6010	SW 6010	SW 6010	SW 7041
SAMPLING:	*1	*1	*1	*2	*2	*2	*2	*2	*2

(A) Tetrachlorethylene; Trichloroethylene; Vinyl Chloride; 1,2-Dichloroethane; 1,2-Dichloroethylene

(B) BEHP and PCP sampled from same 2 bottles (started filling 2 1-Liter botttles on 11/2021)

(C) All metals are sampled from same bottle

COMMENTS: ***1 - ANATEK LAB IN MOSCOW ID**

***2 - SVL IN KELLOGG ID**

GREENACRES LANDFILL
ANNUAL GROUNDWATER SAMPLING FIELD SHEET May 2023

DATE: 5/2/2023	WELL ID: WCC-10R	FIELD TEAM: MT, GF, CC
SAMPLE ID: W-WCC10R-230502	QA / QC SAMPLE ID: – NA	
FIELD CONDITIONS: Clear, 52°		
DEDICATED BLADDER: X	DISPOSABLE BAILER:	OTHER:

TIMES

START TIME:	0835	QA / QC SAMPLE TIME:	NA
SAMPLE TIME:	0947	END TIME:	1002

FIELD MEASUREMENT EQUIPMENT

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH pH 100	476432	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTestr 11+	7810	Std. to 700 umhos/cm
TURBIDITY	Hach 2100P	#020100024957	Std to 4.02, 39.4, & 331 NTU
SWL INDICATOR	Slope Ind.	23474	

PURGING INFORMATION

WELL DIAMETER (IN):	2"	1 CASING VOLUME (GAL):	5
TOTAL DEPTH OF WELL (FT):	41.40'	3 CASING VOLUME (GAL):	15
INITIAL DEPTH TO WATER (SWL):	12.49	PURGE RATE:	≈ 1.4 min/gal after initial 3 gal purge
PACKER DEPTH:	NA		
COW (FT):	28.91	PACKER INFORMATION:	
CALCULATION: 28.91 (COW) X 0.17 = 4.9 use 5.0 (GAL) gal/vol		COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI)	

FIELD PARAMETERS: (+/- 10%) (+/- .1) (+/- 10%)

VOL. PURGED(GAL) / TIME	TEMP °C	pH	CONDUCTIVITY (umhos)	APPEARANCE
5 / 0841	12.2	9.18	1805	brn silty
10 / 0915	12.3	9.32	1161	lt brn color
15 / 0946	12.4	9.26	1056	clear
/				
			TURBIDITY: 4.50	NTU (meas in field lab)

COMMENTS: PLACED PUMP (DEDICATED) IN WELL ON 5/1/2023

* phone AS to let him know the pH/cond now very high

ALL FIELD PARAMTERS ARE ACCURATE AND TRUE: SIGNATURE: _____ DATE: 5/2/23

DEI ✓ pH cond w/ 2nd set meters – values are accurate

ANNUAL ROUND:

SAMPLE ID: W-WCC10R-230502 **SAMPLE TIME:** 0947

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

GROUNDWATER SAMPLES

PARAMETERS:	VOLATILES (A)	SEMI VOLATILES (B) Bis(2-ethylhexyl)phthalate (BEHP)	SEMI VOLATILES (B) Pentachlorophenol (PCP)	NITRATE (NO3)	METALS (C) Arsenic (As) (Dissolved)	METALS (C) Manganese (Mn) (Dissolved)	METALS (C) Chromium (Cr) (Dissolved)	METALS (C) Lead (Pb) (Dissolved)	METALS (C) Antimony (Sb) (Dissolved)
CONTAINERS:	3-40 ml Viles	1 Liter Amber Glass	1 Liter Amber Glass	1-250 ml. Poly Bottle	1 -500 ml Poly Bottle	1 -500 ml Poly Bottle	1 -500 ml Poly Bottle	1 - 500 ml Poly Bottle	1 - 500 ml Poly Bottle
PRESERVATION:	HCl pH < 2	Unpreserved	Unpreserved	Unpreserved	HNO3 to pH < 2 Field Filtered	HNO3 to pH < 2 Field Filtered	HNO3 to pH < 2 Field Filtered	HNO3 to pH<2 Field Filtered	HNO3 to pH<2 Field Filtered
HOLDING TIME:	14 Days	7 Days To Extract	7 Days To Extract	48 Hours to extract	6 Months	6 Months	6 Months	6 Months	6 Months
METHODS:	SW 8260B	SW 8270C	SW 8270C	300	SW 7060A	SW 6010	SW 6010	SW 6010	SW 7041
SAMPLING:	*1	*1	*1	*2	*2	*2	*2	*2	*2

(A) Tetrachlorethylene; Trichloroethylene; Vinyl Chloride; 1,2-Dichloroethane; 1,2-Dichloroethylene

(B) BEHP and PCP sampled from same 2 bottles (started filling 2 1-Liter botttles on 11/2021)

(C) All metals are sampled from same bottle

COMMENTS: ***1 - ANATEK LAB IN MOSCOW ID**

***2 - SVL IN KELLOGG ID**

GREENACRES LANDFILL
ANNUAL GROUNDWATER SAMPLING FIELD SHEET May 2023

DATE: 5/2/2023	WELL ID: WCC-11B	FIELD TEAM: (MT) GF, CC
SAMPLE ID: W-WCC11B-230502	QA / QC SAMPLE ID: WS-1-1-230502	
FIELD CONDITIONS:		
DEDICATED BLADDER: X	DISPOSABLE BAILER:	OTHER:

TIMES

START TIME:	1124	QA / QC SAMPLE TIME:	1030
SAMPLE TIME:	1300	END TIME:	1310

FIELD MEASUREMENT EQUIPMENT

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH pH 100	472990	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTestr 11+	24B	Std. to 700 umhos/cm
TURBIDITY	Hach 2100P	#020100024957	Std to 4.02, 39.4, & 331 NTU
SWL INDICATOR			

PURGING INFORMATION

WELL DIAMETER (IN):	2"	1 CASING VOLUME (GAL):	7.5 GAL
TOTAL DEPTH OF WELL (FT):	140.00'	3 CASING VOLUME (GAL):	22.5 GAL
INITIAL DEPTH TO WATER (SWL):	96.21'	PURGE RATE:	
PACKER DEPTH:			
COW (FT):	43.79'	PACKER INFORMATION:	
CALCULATION: 43.79 (COW) X 0.17 = 7.44 (GAL) 7.5 X 3 = 22.5G		COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI)	

FIELD PARAMETERS: (+/- 10%) (+/- .1) (+/- 10%)

VOL. PURGED(GAL) / TIME	TEMP °C	pH	CONDUCTIVITY (umhos)	APPEARANCE
7.5 GAL 1154	11.7	7.49	741	CLEAR
15.0 GAL 1225	11.9	7.49	737	CLEAR
22.5 GAL 1257	12.0	7.50	736	CLEAR
/				X
			TURBIDITY: 0.21	NTU (meas in field lab)

COMMENTS: DUPE TAKEN HERE

WLE WCC-11A = 95.84'

ALL FIELD PARAMTERS ARE ACCURATE AND TRUE: SIGNATURE: _____ DATE: 5/2/23

ANNUAL ROUND:

SAMPLE ID: W-WCC11B-230502 **SAMPLE TIME:** 1300

QA / QC SAMPLE ID: WS-1-1-230502 **QA / QC SAMPLE TIME:** 1030

GROUNDWATER SAMPLES

PARAMETERS:	VOLATILES (A)	SEMI VOLATILES (B) Bis(2-ethylhexyl)phthalate (BEHP)	SEMI VOLATILES (B) Pentachlorophenol (PCP)	NITRATE (NO3)	METALS (C) Arsenic (As) (Dissolved)	METALS (C) Manganese (Mn) (Dissolved)	METALS (C) Chromium (Cr) (Dissolved)	METALS (C) Lead (Pb) (Dissolved)	METALS (C) Antimony (Sb) (Dissolved)
CONTAINERS:	3-40 ml Viles	1 Liter Amber Glass	1 Liter Amber Glass	1-250 ml. Poly Bottle	1 -500 ml Poly Bottle	1 -500 ml Poly Bottle	1 -500 ml Poly Bottle	1 - 500 ml Poly Bottle	1 - 500 ml Poly Bottle
PRESERVATION:	HCl pH < 2	Unpreserved	Unpreserved	Unpreserved	HNO3 to pH < 2 Field Filtered	HNO3 to pH < 2 Field Filtered	HNO3 to pH < 2 Field Filtered	HNO3 to pH<2 Field Filtered	HNO3 to pH<2 Field Filtered
HOLDING TIME:	14 Days	7 Days To Extract	7 Days To Extract	48 Hours to extract	6 Months	6 Months	6 Months	6 Months	6 Months
METHODS:	SW 8260B	SW 8270C	SW 8270C	300	SW 7060A	SW 6010	SW 6010	SW 6010	SW 7041
SAMPLING:	*1	*1	*1	*2	*2	*2	*2	*2	*2

(A) Tetrachlorethylene; Trichloroethylene; Vinyl Chloride; 1,2-Dichloroethane; 1,2-Dichloroethylene

(B) BEHP and PCP sampled from same 2 bottles (started filling 2 1-Liter botttles on 11/2021)

(C) All metals are sampled from same bottle

COMMENTS: ***1 - ANATEK LAB IN MOSCOW ID**

***2 - SVL IN KELLOGG ID**

-DUPE TAKEN HERE, 1 EXTRA SET OF SAMPLES FOR EACH PARAMETER ABOVE.

GREENACRES LANDFILL
ANNUAL GROUNDWATER SAMPLING FIELD SHEET May 2023

DATE: 5/2/2023	WELL ID: WCC-12	FIELD TEAM: MT, GF (CC)
SAMPLE ID: W-WCC12-230502	QA / QC SAMPLE ID: - NA	
FIELD CONDITIONS: Sunny, Mid 80s		
DEDICATED BLADDER: X	DISPOSABLE BAILER:	OTHER:

TIMES

START TIME: 1255	QA / QC SAMPLE TIME: N/A
SAMPLE TIME: 1345	END TIME: 1358

FIELD MEASUREMENT EQUIPMENT

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH pH 100	476119 (CC)	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, & 331 NTU
SWL INDICATOR	Slope Ind	412018	

PURGING INFORMATION

WELL DIAMETER (IN): 2"	1 CASING VOLUME (GAL): 2
TOTAL DEPTH OF WELL (FT): 106.00	3 CASING VOLUME (GAL): 6
INITIAL DEPTH TO WATER (SWL): 96.82	PURGE RATE: ≈ 0.1 gpm
PACKER DEPTH: N/A	
COW (FT): 9.18	PACKER INFORMATION:
CALCULATION: 9.18 (COW) X 0.17 = 1.56 (GAL)	COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI)

FIELD PARAMETERS: (+/- 10%) (+/- .1) (+/- 10%)

VOL. PURGED(GAL) / TIME	TEMP °C	pH	CONDUCTIVITY (umhos)	APPEARANCE
2 / 1301	17.1	6.47	955	Lt. Brown, odor
4 / 1324	17.3	6.48	957	Lt. Brown, odor
6 / 1342	17.5	6.52	977	Lt Brown, odor
/				
			TURBIDITY: 1.39	NTU (meas in field lab)

COMMENTS: WL @ GA - 93.19 @ GB - 61.87 * WL @ WCC12 suspect, gas vapor issues were present. Will remedy this week.

ALL FIELD PARAMTERS ARE ACCURATE AND TRUE: SIGNATURE: GF **DATE:** 05/02/23

ANNUAL ROUND:

SAMPLE ID: W-WCC12-230502 **SAMPLE TIME:** 1345

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

GROUNDWATER SAMPLES

PARAMETERS:	VOLATILES (A)	SEMI VOLATILES (B) Bis(2-ethylhexyl)phthalate (BEHP)	SEMI VOLATILES (B) Pentachlorophenol (PCP)	NITRATE (NO3)	METALS (C) Arsenic (As) (Dissolved)	METALS (C) Manganese (Mn) (Dissolved)	METALS (C) Chromium (Cr) (Dissolved)	METALS (C) Lead (Pb) (Dissolved)	METALS (C) Antimony (Sb) (Dissolved)
CONTAINERS:	3-40 ml Viles	1 Liter Amber Glass	1 Liter Amber Glass	1-250 ml. Poly Bottle	1 -500 ml Poly Bottle	1 -500 ml Poly Bottle	1 -500 ml Poly Bottle	1 - 500 ml Poly Bottle	1 - 500 ml Poly Bottle
PRESERVATION:	HCl pH < 2	Unpreserved	Unpreserved	Unpreserved	HNO3 to pH < 2 Field Filtered	HNO3 to pH < 2 Field Filtered	HNO3 to pH < 2 Field Filtered	HNO3 to pH<2 Field Filtered	HNO3 to pH<2 Field Filtered
HOLDING TIME:	14 Days	7 Days To Extract	7 Days To Extract	48 Hours to extract	6 Months	6 Months	6 Months	6 Months	6 Months
METHODS:	SW 8260B	SW 8270C	SW 8270C	300	SW 7060A	SW 6010	SW 6010	SW 6010	SW 7041
SAMPLING:	*1	*1	*1	*2	*2	*2	*2	*2	*2

(A) Tetrachlorethylene; Trichloroethylene; Vinyl Chloride; 1,2-Dichloroethane; 1,2-Dichloroethylene

(B) BEHP and PCP sampled from same 2 bottles (started filling 2 1-Liter botttles on 11/2021)

(C) All metals are sampled from same bottle

COMMENTS: ***1 - ANATEK LAB IN MOSCOW ID**

***2 - SVL IN KELLOGG ID**

GREENACRES LANDFILL SWL REPORT
NOVEMBER ANNUAL 2023

2023

WELL ID	PUMP INSTALLED	TOTAL DEPTH	SCREENED INTERVALS	DATE	TECH	SWL
MW-2	HYDROSTAR	120	110 - 115	5.2	MT	37.44'
SVA-1	BLADDER	127	114 - 124		MT	95.63'
WCC-1	BLADDER	124	114 - 124		CC	94.31'
WCC-10R	BLADDER	41.4	38 - 43		~~CC~~GF	12.49'
WCC-11A	HYDROSTAR	140	112 - 117		~~GF~~MT	95.84'
WCC-11B	BLADDER	140	129 - 139		MT	96.21'
WCC-12	BLADDER	106	90 - 100		CC	96.82
WCC-13	HYDROSTAR	107	51 - 61		MT	33.78
WCC-2	BLADDER	123	113 - 123		MT	~~33.78~~99.89
WCC-4A	BLADDER	138	125 - 135		CC	104.31'
WCC-6A	NO PUMP	99	85 - 95		CC	93.19'
WCC-6B	HYDROSTAR	136	126 - 136		CC	61.87'
WCC-7	BLADDER	86	76 - 86		GF	70.94'
WCC-8	BLADDER	111	100 - 110		GF	53.10'
WCC-9	BLADDER	45	35 - 45		MT	23.97'

ALL SWL AND ACCURATE AND TRUE: SIGNATURE: _____ **DATE:** _____

Appendix B: 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: **X3E0039**
Reported: 25-May-23 14:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
W-SVA1-230502	X3E0039-01	Water	02-May-23 09:20	MT/GF/CC	03-May-2023	
W-WCC1-230502	X3E0039-02	Water	02-May-23 09:54	MT/GF/CC	03-May-2023	
W-WCC2-230502	X3E0039-03	Water	02-May-23 10:15	MT/GF/CC	03-May-2023	
W-WCC4A-230502	X3E0039-04	Water	02-May-23 12:02	MT/GF/CC	03-May-2023	
W-WCC7-230502	X3E0039-05	Water	02-May-23 12:54	MT/GF/CC	03-May-2023	
W-WCC8-230502	X3E0039-06	Water	02-May-23 11:57	MT/GF/CC	03-May-2023	
W-WCC9-230502	X3E0039-07	Water	02-May-23 11:00	MT/GF/CC	03-May-2023	
W-WCC10R-230502	X3E0039-08	Water	02-May-23 09:47	MT/GF/CC	03-May-2023	
W-WCC11B-230502	X3E0039-09	Water	02-May-23 13:00	MT/GF/CC	03-May-2023	
W-WCC12-230502	X3E0039-10	Water	02-May-23 13:45	MT/GF/CC	03-May-2023	
WS-1-1-230502	X3E0039-11	Water	02-May-23 10:30	MT/GF/CC	03-May-2023	

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: **X3E0039**
Reported: 25-May-23 14:24

Client Sample ID: **W-SVA1-230502**
SVL Sample ID: **X3E0039-01 (Water)**

Sampled: 02-May-23 09:20
Received: 03-May-23
Sampled By: MT/GF/CC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Dissolved)										
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X319127	AS	05/18/23 10:22	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X319127	AS	05/18/23 10:22	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X319127	AS	05/18/23 10:22	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00072		X318173	SMU	05/24/23 15:59	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X318173	SMU	05/24/23 15:59	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Dave Tryon
Project Manager

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Spokane County Environmental Services (Colbert)
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Colbert, WA 99005

Work Order: **X3E0039**
Reported: 25-May-23 14:24

Client Sample ID: **W-WCC1-230502**
SVL Sample ID: **X3E0039-02 (Water)**

Sampled: 02-May-23 09:54
Received: 03-May-23
Sampled By: MT/GF/CC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Dissolved)										
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X319127	AS	05/18/23 10:26	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X319127	AS	05/18/23 10:26	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X319127	AS	05/18/23 10:26	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00072		X318173	SMU	05/24/23 16:01	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X318173	SMU	05/24/23 16:01	

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Dave Tryon
Project Manager

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Spokane County Environmental Services (Colbert)
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Colbert, WA 99005

Work Order: **X3E0039**
Reported: 25-May-23 14:24

Client Sample ID: **W-WCC2-230502**
SVL Sample ID: **X3E0039-03 (Water)**

Sampled: 02-May-23 10:15
Received: 03-May-23
Sampled By: MT/GF/CC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Dissolved)										
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X319127	AS	05/18/23 10:30	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X319127	AS	05/18/23 10:30	
EPA 6010D	**Manganese**	0.0207	mg/L	0.0080	0.0034		X319127	AS	05/18/23 10:30	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00072		X318173	SMU	05/24/23 16:02	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X318173	SMU	05/24/23 16:02	
Anions by Ion Chromatography										
EPA 300.0	**Nitrate as N**	2.67	mg/L	0.050	0.013		X318089	RS	05/03/23 10:54	

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Colbert, WA 99005

Work Order: **X3E0039**
Reported: 25-May-23 14:24

Client Sample ID: **W-WCC4A-230502**
SVL Sample ID: **X3E0039-04 (Water)**

Sampled: 02-May-23 12:02
Received: 03-May-23
Sampled By: MT/GF/CC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Dissolved)										
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X319127	AS	05/18/23 10:33	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X319127	AS	05/18/23 10:33	
EPA 6010D	**Manganese**	0.0205	mg/L	0.0080	0.0034		X319127	AS	05/18/23 10:33	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00072		X318173	SMU	05/24/23 16:03	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X318173	SMU	05/24/23 16:03	

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Dave Tryon
Project Manager

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Colbert, WA 99005

Work Order: **X3E0039**
Reported: 25-May-23 14:24

Client Sample ID: **W-WCC7-230502**
SVL Sample ID: **X3E0039-05 (Water)**

Sampled: 02-May-23 12:54
Received: 03-May-23
Sampled By: MT/GF/CC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Dissolved)										
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X319127	AS	05/18/23 10:37	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X319127	AS	05/18/23 10:37	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X319127	AS	05/18/23 10:37	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00072		X318173	SMU	05/24/23 16:05	M1
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X318173	SMU	05/24/23 16:05	M1

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Colbert, WA 99005

Work Order: **X3E0039**
Reported: 25-May-23 14:24

Client Sample ID: **W-WCC8-230502**
SVL Sample ID: **X3E0039-06 (Water)**

Sampled: 02-May-23 11:57
Received: 03-May-23
Sampled By: MT/GF/CC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Dissolved)										
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X319127	AS	05/18/23 10:48	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X319127	AS	05/18/23 10:48	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X319127	AS	05/18/23 10:48	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00072		X318173	SMU	05/24/23 16:15	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X318173	SMU	05/24/23 16:15	
Anions by Ion Chromatography										
EPA 300.0	**Nitrate as N**	1.33	mg/L	0.050	0.013		X318089	RS	05/03/23 11:13	

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Colbert, WA 99005

Work Order: **X3E0039**
Reported: 25-May-23 14:24

Client Sample ID: **W-WCC9-230502**
SVL Sample ID: **X3E0039-07 (Water)**

Sampled: 02-May-23 11:00
Received: 03-May-23
Sampled By: MT/GF/CC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Dissolved)										
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X319127	AS	05/18/23 10:59	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X319127	AS	05/18/23 10:59	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X319127	AS	05/18/23 10:59	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00072		X318173	SMU	05/24/23 16:16	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X318173	SMU	05/24/23 16:16	
Anions by Ion Chromatography										
EPA 300.0	**Nitrate as N**	2.42	mg/L	0.050	0.013		X318089	RS	05/03/23 11:32	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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

Work Order: **X3E0039**
Reported: 25-May-23 14:24

Client Sample ID: **W-WCC10R-230502**
SVL Sample ID: **X3E0039-08 (Water)**

Sampled: 02-May-23 09:47
Received: 03-May-23
Sampled By: MT/GF/CC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Dissolved)										
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X319127	AS	05/18/23 11:03	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X319127	AS	05/18/23 11:03	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X319127	AS	05/18/23 11:03	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00072		X318173	SMU	05/24/23 16:18	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X318173	SMU	05/24/23 16:18	
Anions by Ion Chromatography										
EPA 300.0	**Nitrate as N**	1.10	mg/L	0.050	0.013		X318089	RS	05/03/23 11:51	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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

Work Order: **X3E0039**
Reported: 25-May-23 14:24

Client Sample ID: **W-WCC11B-230502**
SVL Sample ID: **X3E0039-09 (Water)**

Sampled: 02-May-23 13:00
Received: 03-May-23
Sampled By: MT/GF/CC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Dissolved)										
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X319127	AS	05/18/23 11:06	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X319127	AS	05/18/23 11:06	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X319127	AS	05/18/23 11:06	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00072		X318173	SMU	05/24/23 16:19	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X318173	SMU	05/24/23 16:19	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Dave Tryon
Project Manager

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

Work Order: **X3E0039**
Reported: 25-May-23 14:24

Client Sample ID: **W-WCC12-230502**
SVL Sample ID: **X3E0039-10 (Water)**

Sampled: 02-May-23 13:45
Received: 03-May-23
Sampled By: MT/GF/CC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Dissolved)										
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X319127	AS	05/18/23 11:10	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X319127	AS	05/18/23 11:10	
EPA 6010D	**Manganese**	1.80	mg/L	0.0080	0.0034		X319127	AS	05/18/23 11:10	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00072		X318173	SMU	05/24/23 16:20	
EPA 6020B	**Arsenic**	0.0469	mg/L	0.00300	0.00021		X318173	SMU	05/24/23 16:20	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Dave Tryon
Project Manager

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

Work Order: **X3E0039**
Reported: 25-May-23 14:24

Client Sample ID: **WS-1-1-230502**
SVL Sample ID: **X3E0039-11 (Water)**

Sampled: 02-May-23 10:30
Received: 03-May-23
Sampled By: MT/GF/CC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Dissolved)										
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X319127	AS	05/18/23 11:14	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X319127	AS	05/18/23 11:14	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X319127	AS	05/18/23 11:14	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00072		X318173	SMU	05/24/23 16:22	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X318173	SMU	05/24/23 16:22	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Dave Tryon
Project Manager

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

Work Order: **X3E0039**
Reported: 25-May-23 14:24

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Dissolved)								
EPA 6010D	Chromium	mg/L	<0.0060	0.0020	0.0060	X319127	18-May-23	
EPA 6010D	Lead	mg/L	<0.0150	0.0049	0.0150	X319127	18-May-23	
EPA 6010D	Manganese	mg/L	<0.0080	0.0034	0.0080	X319127	18-May-23	
EPA 6020B	Antimony	mg/L	<0.00300	0.00072	0.00300	X318173	24-May-23	
EPA 6020B	Arsenic	mg/L	<0.00300	0.00021	0.00300	X318173	24-May-23	
Anions by Ion Chromatography								
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X318089	03-May-23	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Dissolved)									
EPA 6010D	Chromium	mg/L	1.02	1.00	102	80 - 120	X319127	18-May-23	
EPA 6010D	Lead	mg/L	1.01	1.00	101	80 - 120	X319127	18-May-23	
EPA 6010D	Manganese	mg/L	1.01	1.00	101	80 - 120	X319127	18-May-23	
EPA 6020B	Antimony	mg/L	0.0287	0.0250	115	80 - 120	X318173	24-May-23	
EPA 6020B	Arsenic	mg/L	0.0281	0.0250	112	80 - 120	X318173	24-May-23	
Anions by Ion Chromatography									
EPA 300.0	Nitrate as N	mg/L	2.04	2.00	102	90 - 110	X318089	03-May-23	

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 (Dissolved)										
EPA 6010D	Chromium	mg/L	1.08	<0.0060	1.00	108	75 - 125	X319127 - X3E0039-05	18-May-23	
EPA 6010D	Lead	mg/L	1.06	<0.0150	1.00	106	75 - 125	X319127 - X3E0039-05	18-May-23	
EPA 6010D	Manganese	mg/L	1.07	<0.0080	1.00	107	75 - 125	X319127 - X3E0039-05	18-May-23	
EPA 6020B	Antimony	mg/L	0.0316	<0.00300	0.0250	126	75 - 125	X318173 - X3E0039-05	24-May-23	M1
EPA 6020B	Arsenic	mg/L	0.0330	<0.00300	0.0250	132	75 - 125	X318173 - X3E0039-05	24-May-23	M1
Anions by Ion Chromatography										
EPA 300.0	Nitrate as N	mg/L	3.50	1.33	2.00	109	90 - 110	X318089 - X3E0039-06	03-May-23	
EPA 300.0	Nitrate as N	mg/L	2.16	0.056	2.00	105	90 - 110	X318089 - X3E0020-02	03-May-23	

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Spokane County Environmental Services (Colbert)
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Colbert, WA 99005

Work Order: **X3E0039**
Reported: 25-May-23 14:24

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 (Dissolved)										
EPA 6010D	Chromium	mg/L	1.06	1.08	1.00	2.2	20	106	X319127 - X3E0039-05	
EPA 6010D	Lead	mg/L	1.04	1.06	1.00	2.0	20	104	X319127 - X3E0039-05	
EPA 6010D	Manganese	mg/L	1.05	1.07	1.00	1.7	20	105	X319127 - X3E0039-05	
EPA 6020B	Antimony	mg/L	0.0321	0.0316	0.0250	1.7	20	128	X318173 - X3E0039-05	M1
EPA 6020B	Arsenic	mg/L	0.0334	0.0330	0.0250	1.1	20	134	X318173 - X3E0039-05	M1
Anions by Ion Chromatography										
EPA 300.0	Nitrate as N	mg/L	2.12	2.16	2.00	1.7	20	103	X318089 - X3E0020-02	

Qualitiy Control - SERIAL DILUTION Data

Method	Analyte	Sample Result	Serial Dilution Result	RPD	Q	QC Limits	Batch and Source ID	Notes
Metals (Dissolved)								
EPA 6020B	Antimony (dissolved)	0.0316	0.0224	33.9	E	20	X318173 - MS1	R2B
EPA 6020B	Arsenic (dissolved)	0.0330	0.0201	48.7	E	20	X318173 - MS1	R2B

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

Work Order: **X3E0039**
Reported: 25-May-23 14:24

Notes and Definitions

M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
R2B	RPD exceeded the laboratory acceptance limit.
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

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Client:	Spokane County Environmental Services	Work Order:	MDE0131
Address:	1004 N Freya Street	Project:	X3E0055
	Spokane, WA 99202	Reported:	5/23/2023 10:49
Attn:	Dave Tryon		

Analytical Results Report

Sample Location:	X3E0055-01 (W-SVA1-230502)		
Lab/Sample Number:	MDE0131-01	Collect Date:	05/02/23 09:20
Date Received:	05/03/23 13:02	Collected By:	MT/GF/CC
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Semivolatiles							
bis(2-Ethylhexyl)phthalate	ND	ug/L	0.500	5/19/23 0:29	MAH	EPA 8270E	
Pentachlorophenol	ND	ug/L	0.500	5/19/23 0:29	MAH	EPA 8270E	
Surrogate: Terphenyl-d14	*104%*		*57-133*	*5/19/23 0:29*	*MAH*	*EPA 8270E*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	5/5/23 17:27	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	5/5/23 17:27	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
Benzene	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3E0055-01 (W-SVA1-230502)
Lab/Sample Number: MDE0131-01 Collect Date: 05/02/23 09:20
Date Received: 05/03/23 13:02 Collected By: MT/GF/CC
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Carbon Tetrachloride	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	5/5/23 17:27	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	5/5/23 17:27	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	5/5/23 17:27	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	5/5/23 17:27	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*103%*		*70-130*	*5/5/23 17:27*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*100%*		*70-130*	*5/5/23 17:27*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*107%*		*70-130*	*5/5/23 17:27*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location: X3E0055-02 (W-WCC1-230502)
Lab/Sample Number: MDE0131-02 Collect Date: 05/02/23 09:54
Date Received: 05/03/23 13:02 Collected By: MT/GF/CC
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Semivolatiles							
bis(2-Ethylhexyl)phthalate	ND	ug/L	0.500	5/19/23 0:56	MAH	EPA 8270E	
Pentachlorophenol	ND	ug/L	0.500	5/19/23 0:56	MAH	EPA 8270E	
Surrogate: Terphenyl-d14	*109%*		*57-133*	*5/19/23 0:56*	*MAH*	*EPA 8270E*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	5/5/23 17:56	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	5/5/23 17:56	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
Benzene	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3E0055-02 (W-WCC1-230502)
Lab/Sample Number: MDE0131-02 Collect Date: 05/02/23 09:54
Date Received: 05/03/23 13:02 Collected By: MT/GF/CC
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Dibromochloromethane	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	5/5/23 17:56	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	5/5/23 17:56	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	5/5/23 17:56	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	5/5/23 17:56	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*103%*		*70-130*	*5/5/23 17:56*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*98.7%*		*70-130*	*5/5/23 17:56*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*106%*		*70-130*	*5/5/23 17:56*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location: X3E0055-03 (W-WCC2-230502)
Lab/Sample Number: MDE0131-03 Collect Date: 05/02/23 10:15
Date Received: 05/03/23 13:02 Collected By: MT/GF/CC
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Semivolatiles							
bis(2-Ethylhexyl)phthalate	ND	ug/L	0.500	5/19/23 1:23	MAH	EPA 8270E	
Pentachlorophenol	ND	ug/L	0.500	5/19/23 1:23	MAH	EPA 8270E	
Surrogate: Terphenyl-d14	*106%*		*57-133*	*5/19/23 1:23*	*MAH*	*EPA 8270E*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	5/5/23 18:25	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	5/5/23 18:25	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
Benzene	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3E0055-03 (W-WCC2-230502)
Lab/Sample Number: MDE0131-03 Collect Date: 05/02/23 10:15
Date Received: 05/03/23 13:02 Collected By: MT/GF/CC
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Dibromochloromethane	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	5/5/23 18:25	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	5/5/23 18:25	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	5/5/23 18:25	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	5/5/23 18:25	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*103%*		*70-130*	*5/5/23 18:25*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*99.6%*		*70-130*	*5/5/23 18:25*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*107%*		*70-130*	*5/5/23 18:25*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location: X3E0055-04 (W-WCC4A-230502)
Lab/Sample Number: MDE0131-04 Collect Date: 05/02/23 12:02
Date Received: 05/03/23 13:02 Collected By: MT/GF/CC
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Semivolatiles							
bis(2-Ethylhexyl)phthalate	ND	ug/L	0.500	5/19/23 1:50	MAH	EPA 8270E	
Pentachlorophenol	ND	ug/L	0.500	5/19/23 1:50	MAH	EPA 8270E	
Surrogate: Terphenyl-d14	*103%*		*57-133*	*5/19/23 1:50*	*MAH*	*EPA 8270E*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	5/5/23 18:55	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	5/5/23 18:55	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
Benzene	1.15	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
cis-1,2-dichloroethene	2.56	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3E0055-04 (W-WCC4A-230502)
Lab/Sample Number: MDE0131-04 Collect Date: 05/02/23 12:02
Date Received: 05/03/23 13:02 Collected By: MT/GF/CC
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Dibromochloromethane	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	5/5/23 18:55	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	5/5/23 18:55	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	5/5/23 18:55	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
Tetrachloroethene	1.22	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
Toluene	1.33	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	5/5/23 18:55	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*103%*		*70-130*	*5/5/23 18:55*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*99.6%*		*70-130*	*5/5/23 18:55*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*107%*		*70-130*	*5/5/23 18:55*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location: X3E0055-05 (W-WCC7-230502)
Lab/Sample Number: MDE0131-05 Collect Date: 05/02/23 12:54
Date Received: 05/03/23 13:02 Collected By: MT/GF/CC
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Semivolatiles							
bis(2-Ethylhexyl)phthalate	ND	ug/L	0.500	5/19/23 2:17	MAH	EPA 8270E	
Pentachlorophenol	ND	ug/L	0.500	5/19/23 2:17	MAH	EPA 8270E	
Surrogate: Terphenyl-d14	*94.3%*		*57-133*	*5/19/23 2:17*	*MAH*	*EPA 8270E*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	5/5/23 16:57	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	5/5/23 16:57	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
Benzene	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3E0055-05 (W-WCC7-230502)
Lab/Sample Number: MDE0131-05 Collect Date: 05/02/23 12:54
Date Received: 05/03/23 13:02 Collected By: MT/GF/CC
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Dibromochloromethane	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	5/5/23 16:57	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	5/5/23 16:57	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	5/5/23 16:57	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
Tetrachloroethene	1.78	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	5/5/23 16:57	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*103%*		*70-130*	*5/5/23 16:57*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*99.5%*		*70-130*	*5/5/23 16:57*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*106%*		*70-130*	*5/5/23 16:57*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location: X3E0055-06 (W-WCC8-230502)
Lab/Sample Number: MDE0131-06 Collect Date: 05/02/23 11:57
Date Received: 05/03/23 13:02 Collected By: MT/GF/CC
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Semivolatiles							
bis(2-Ethylhexyl)phthalate	ND	ug/L	0.500	5/19/23 2:44	MAH	EPA 8270E	
Pentachlorophenol	ND	ug/L	0.500	5/19/23 2:44	MAH	EPA 8270E	
Surrogate: Terphenyl-d14	*101%*		*57-133*	*5/19/23 2:44*	*MAH*	*EPA 8270E*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	5/5/23 19:24	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	5/5/23 19:24	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
Benzene	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3E0055-06 (W-WCC8-230502)
Lab/Sample Number: MDE0131-06 Collect Date: 05/02/23 11:57
Date Received: 05/03/23 13:02 Collected By: MT/GF/CC
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Dibromochloromethane	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	5/5/23 19:24	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	5/5/23 19:24	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	5/5/23 19:24	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	5/5/23 19:24	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*103%*		*70-130*	*5/5/23 19:24*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*100%*		*70-130*	*5/5/23 19:24*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*107%*		*70-130*	*5/5/23 19:24*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location: X3E0055-07 (W-WCC9-230502)
Lab/Sample Number: MDE0131-07 Collect Date: 05/02/23 11:00
Date Received: 05/03/23 13:02 Collected By: MT/GF/CC
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Semivolatiles							
bis(2-Ethylhexyl)phthalate	ND	ug/L	0.500	5/19/23 3:11	MAH	EPA 8270E	
Pentachlorophenol	ND	ug/L	0.500	5/19/23 3:11	MAH	EPA 8270E	
Surrogate: Terphenyl-d14	*97.8%*		*57-133*	*5/19/23 3:11*	*MAH*	*EPA 8270E*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	5/5/23 19:53	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	5/5/23 19:53	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
Benzene	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3E0055-07 (W-WCC9-230502)
Lab/Sample Number: MDE0131-07 Collect Date: 05/02/23 11:00
Date Received: 05/03/23 13:02 Collected By: MT/GF/CC
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Dibromochloromethane	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	5/5/23 19:53	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	5/5/23 19:53	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	5/5/23 19:53	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	5/5/23 19:53	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*103%*		*70-130*	*5/5/23 19:53*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*99.1%*		*70-130*	*5/5/23 19:53*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*107%*		*70-130*	*5/5/23 19:53*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location: X3E0055-08 (W-WCC10R-230502)
Lab/Sample Number: MDE0131-08 Collect Date: 05/02/23 09:47
Date Received: 05/03/23 13:02 Collected By: MT/GF/CC
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Semivolatiles							
bis(2-Ethylhexyl)phthalate	ND	ug/L	0.500	5/19/23 3:38	MAH	EPA 8270E	
Pentachlorophenol	ND	ug/L	0.500	5/19/23 3:38	MAH	EPA 8270E	
Surrogate: Terphenyl-d14	*98.8%*		*57-133*	*5/19/23 3:38*	*MAH*	*EPA 8270E*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	5/5/23 20:22	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	5/5/23 20:22	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
Benzene	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location:	X3E0055-08 (W-WCC10R-230502)		
Lab/Sample Number:	MDE0131-08	Collect Date:	05/02/23 09:47
Date Received:	05/03/23 13:02	Collected By:	MT/GF/CC
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Dibromochloromethane	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	5/5/23 20:22	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	5/5/23 20:22	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	5/5/23 20:22	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	5/5/23 20:22	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*103%*		*70-130*	*5/5/23 20:22*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*99.2%*		*70-130*	*5/5/23 20:22*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*108%*		*70-130*	*5/5/23 20:22*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location: X3E0055-09 (W-WCC11B-230502)
Lab/Sample Number: MDE0131-09 Collect Date: 05/02/23 13:00
Date Received: 05/03/23 13:02 Collected By: MT/GF/CC
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Semivolatiles							
bis(2-Ethylhexyl)phthalate	ND	ug/L	0.500	5/19/23 4:06	MAH	EPA 8270E	
Pentachlorophenol	ND	ug/L	0.500	5/19/23 4:06	MAH	EPA 8270E	
Surrogate: Terphenyl-d14	*102%*		*57-133*	*5/19/23 4:06*	*MAH*	*EPA 8270E*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	5/5/23 20:52	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	5/5/23 20:52	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
Benzene	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
cis-1,2-dichloroethene	0.540	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3E0055-09 (W-WCC11B-230502)
Lab/Sample Number: MDE0131-09 Collect Date: 05/02/23 13:00
Date Received: 05/03/23 13:02 Collected By: MT/GF/CC
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Dibromochloromethane	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
Dichlorodifluoromethane	1.45	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	5/5/23 20:52	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	5/5/23 20:52	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	5/5/23 20:52	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
Tetrachloroethene	9.18	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
Trichloroethene	1.23	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
Trichlorofluoromethane	0.540	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	5/5/23 20:52	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*104%*		*70-130*	*5/5/23 20:52*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*98.9%*		*70-130*	*5/5/23 20:52*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*108%*		*70-130*	*5/5/23 20:52*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location: X3E0055-10 (W-WCC12-230502)
Lab/Sample Number: MDE0131-10 Collect Date: 05/02/23 13:45
Date Received: 05/03/23 13:02 Collected By: MT/GF/CC
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Semivolatiles							
bis(2-Ethylhexyl)phthalate	ND	ug/L	0.500	5/19/23 4:32	MAH	EPA 8270E	
Pentachlorophenol	ND	ug/L	0.500	5/19/23 4:32	MAH	EPA 8270E	
Surrogate: Terphenyl-d14	*96.2%*		*57-133*	*5/19/23 4:32*	*MAH*	*EPA 8270E*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
1,2-Dichloroethane	1.26	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	5/5/23 21:21	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	5/5/23 21:21	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
Benzene	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
cis-1,2-dichloroethene	7.94	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3E0055-10 (W-WCC12-230502)
Lab/Sample Number: MDE0131-10 Collect Date: 05/02/23 13:45
Date Received: 05/03/23 13:02 Collected By: MT/GF/CC
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Dibromochloromethane	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	5/5/23 21:21	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	5/5/23 21:21	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	5/5/23 21:21	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
Trichloroethene	0.600	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
Vinyl Chloride	2.05	ug/L	0.500	5/5/23 21:21	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*102%*		*70-130*	*5/5/23 21:21*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*99.3%*		*70-130*	*5/5/23 21:21*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*105%*		*70-130*	*5/5/23 21:21*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location: X3E0055-11 (WS-1-1-230502)
Lab/Sample Number: MDE0131-11 Collect Date: 05/02/23 10:30
Date Received: 05/03/23 13:02 Collected By: MT/GF/CC
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Semivolatiles							
bis(2-Ethylhexyl)phthalate	ND	ug/L	0.500	5/19/23 4:59	MAH	EPA 8270E	
Pentachlorophenol	ND	ug/L	0.500	5/19/23 4:59	MAH	EPA 8270E	
Surrogate: Terphenyl-d14	*117%*		*57-133*	*5/19/23 4:59*	*MAH*	*EPA 8270E*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	5/5/23 21:50	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	5/5/23 21:50	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
Benzene	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
cis-1,2-dichloroethene	0.570	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3E0055-11 (WS-1-1-230502)
Lab/Sample Number: MDE0131-11 Collect Date: 05/02/23 10:30
Date Received: 05/03/23 13:02 Collected By: MT/GF/CC
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Dibromochloromethane	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
Dichlorodifluoromethane	1.47	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	5/5/23 21:50	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	5/5/23 21:50	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	5/5/23 21:50	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
Tetrachloroethene	9.71	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
Trichloroethene	1.30	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
Trichlorofluoromethane	0.510	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	5/5/23 21:50	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*103%*		*70-130*	*5/5/23 21:50*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*99.2%*		*70-130*	*5/5/23 21:50*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*108%*		*70-130*	*5/5/23 21:50*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location: X3E0055-12 (WS-2-1-230502)
Lab/Sample Number: MDE0131-12 Collect Date: 05/02/23 10:30
Date Received: 05/03/23 13:02 Collected By: MT/GF/CC
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.200	5/5/23 22:19	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
2-Chloroethyl vinyl ether	ND	ug/L	2.50	5/5/23 22:19	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	5/5/23 22:19	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	5/5/23 22:19	BKP	EPA 8260D	
Acrolein	ND	ug/L	2.50	5/5/23 22:19	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	2.50	5/5/23 22:19	BKP	EPA 8260D	
Benzene	ND	ug/L	0.200	5/5/23 22:19	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.200	5/5/23 22:19	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	2.50	5/5/23 22:19	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.200	5/5/23 22:19	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.200	5/5/23 22:19	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.200	5/5/23 22:19	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3E0055-12 (WS-2-1-230502)
Lab/Sample Number: MDE0131-12 Collect Date: 05/02/23 10:30
Date Received: 05/03/23 13:02 Collected By: MT/GF/CC
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Hexachlorobutadiene	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	1.00	5/5/23 22:19	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	5/5/23 22:19	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	5/5/23 22:19	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
Total Xylene	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.200	5/5/23 22:19	BKP	EPA 8260D	
trans-1-4-Dichloro-2-butene	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
Vinyl acetate	ND	ug/L	0.500	5/5/23 22:19	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.200	5/5/23 22:19	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*103%*		*70-130*	*5/5/23 22:19*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*99.1%*		*70-130*	*5/5/23 22:19*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*108%*		*70-130*	*5/5/23 22:19*	*BKP*	*EPA 8260D*	

Authorized Signature,

Justin Doty For Todd Taruscio, Laboratory Manager

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

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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: BDE0801 - SVOC Water										
Blank (BDE0801-BLK1)					Prepared: 5/8/2023 Analyzed: 5/19/2023					
Di (2-ethylhexyl) phthalate	ND		0.500	ug/L						
Pentachlorophenol	ND		0.500	ug/L						
Surrogate: Terphenyl-d14			*22.6*	*ug/L*	*25.0*		*90.4*	*57-133*		
LCS (BDE0801-BS1)					Prepared: 5/8/2023 Analyzed: 5/18/2023					
Pentachlorophenol	5.72		0.500	ug/L	5.00		114	51-118		
Di (2-ethylhexyl) phthalate	6.23		0.500	ug/L	5.00		125	60-144		
Surrogate: Terphenyl-d14			*24.0*	*ug/L*	*25.0*		*95.8*	*57-133*		
LCS Dup (BDE0801-BSD1)					Prepared: 5/8/2023 Analyzed: 5/18/2023					
Pentachlorophenol	5.25		0.500	ug/L	5.00		105	51-118	8.57	25
Di (2-ethylhexyl) phthalate	6.11		0.500	ug/L	5.00		122	60-144	1.94	32
Surrogate: Terphenyl-d14			*26.2*	*ug/L*	*25.0*		*105*	*57-133*		
Matrix Spike (BDE0801-MS1)		**Source: MDE0131-05**			Prepared: 5/8/2023 Analyzed: 5/18/2023					
Pentachlorophenol	3.27		0.500	ug/L	5.00	ND	65.4	50-130		
Di (2-ethylhexyl) phthalate	5.71		0.500	ug/L	5.00	ND	114	50-130		
Surrogate: Terphenyl-d14			*24.3*	*ug/L*	*25.0*		*97.3*	*57-133*		
Matrix Spike Dup (BDE0801-MSD1)		**Source: MDE0131-05**			Prepared: 5/8/2023 Analyzed: 5/18/2023					
Di (2-ethylhexyl) phthalate	5.68		0.500	ug/L	5.00	ND	114	50-130	0.527	40
Pentachlorophenol	4.19		0.500	ug/L	5.00	ND	83.8	50-130	24.7	40
Surrogate: Terphenyl-d14			*25.0*	*ug/L*	*25.0*		*99.8*	*57-133*		

Quality Control Data

Volatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDE0276 - VOC										
Blank (BDE0276-BLK1)					Prepared & Analyzed: 5/5/2023					
Dibromomethane	ND		0.500	ug/L						
Methyl ethyl ketone (MEK)	ND		2.50	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						
Methyl isobutyl ketone (MIBK)	ND		2.50	ug/L						
Dibromochloromethane	ND		0.500	ug/L						
cis-1,3-Dichloropropene	ND		0.500	ug/L						
cis-1,2-Dichloroethylene	ND		0.500	ug/L						
Chloromethane	ND		0.500	ug/L						
Chloroform	ND		0.500	ug/L						
Methylene Chloride (Dichloromethane)	ND		2.50	ug/L						
Chlorobenzene (Monochlorobenzene)	ND		0.500	ug/L						
Tetrachloroethylene	ND		0.500	ug/L						
Chloroethane	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: BDE0276 - VOC (Continued)										
Blank (BDE0276-BLK1)					Prepared & Analyzed: 5/5/2023					
Styrene	ND		0.500	ug/L						
1,1,1,2-Tetrachloroethane	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						
sec-Butylbenzene	ND		0.500	ug/L						
tert-Butylbenzene	ND		0.500	ug/L						
methyl-t-butyl ether (MTBE)	ND		0.500	ug/L						
Carbon Tetrachloride	ND		0.500	ug/L						
p-isopropyltoluene	ND		0.500	ug/L						
o-Xylene (MCL for total)	ND		0.500	ug/L						
n-Propylbenzene	ND		0.500	ug/L						
n-Butylbenzene	ND		0.500	ug/L						
Naphthalene	ND		0.500	ug/L						
1,2,3-Trichlorobenzene	ND		0.500	ug/L						
1,2-Dichloroethane	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-Dichloropropane	ND		0.500	ug/L						
1,2,3-Trichloropropane	ND		0.500	ug/L						
1,1-Dichloroethane	ND		0.500	ug/L						
1,1-Dichloropropene	ND		0.500	ug/L						
1,1-Dichloroethylene	ND		0.500	ug/L						
1,1,2-Trichlorethane	ND		0.500	ug/L						
1,1,1-Trichloroethane	ND		0.500	ug/L						
1,1,2,2-Tetrachloroethane	ND		0.500	ug/L						
Carbon disulfide	ND		0.500	ug/L						
Toluene	ND		0.500	ug/L						
1,2,4-Trichlorobenzene	ND		0.500	ug/L						
p-Chlorotoluene	ND		0.500	ug/L						
1,3,5-Trimethylbenzene	ND		0.500	ug/L						
Bromoform	ND		0.500	ug/L						
Bromodichloromethane	ND		0.500	ug/L						
Benzene	ND		0.500	ug/L						
Bromochloromethane	ND		0.500	ug/L						
Acetone	ND		2.50	ug/L						
Bromobenzene	ND		0.500	ug/L						
Bromomethane	ND		0.500	ug/L						
2-hexanone	ND		2.50	ug/L						
o-Chlorotoluene	ND		0.500	ug/L						
2,2-Dichloropropane	ND		0.500	ug/L						
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND		0.500	ug/L						
1,3-Dichloropropane	ND		0.500	ug/L						
m-Dichlorobenzene	ND		0.500	ug/L						
Acrylonitrile	ND		0.500	ug/L						
Surrogate: Toluene-d8			*21.1*	*ug/L*	*20.0*		*105*	*70-130*		

Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDE0276 - VOC (Continued)										
Blank (BDE0276-BLK1)					Prepared & Analyzed: 5/5/2023					
Surrogate: 4-Bromofluorobenzene			*19.0*	*ug/L*	*20.0*		*95.2*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*19.1*	*ug/L*	*20.0*		*95.4*	*70-130*		
LCS (BDE0276-BS1)					Prepared & Analyzed: 5/5/2023					
methyl-t-butyl ether (MTBE)	9.43		0.500	ug/L	10.0		94.3	71-130		
Methyl isobutyl ketone (MIBK)	8.66		2.50	ug/L	10.0		86.6	70-136		
Methyl ethyl ketone (MEK)	10.7		2.50	ug/L	10.0		107	55-154		
m/p Xylenes (MCL for total)	17.5		0.500	ug/L	20.0		87.7	80-120		
Isopropylbenzene	8.90		0.500	ug/L	10.0		89.0	80-120		
Hexachlorobutadiene	8.64		0.500	ug/L	10.0		86.4	80-120		
Ethylbenzene	8.76		0.500	ug/L	10.0		87.6	80-120		
Dichlorodifluoromethane	8.97		0.500	ug/L	10.0		89.7	57-130		
Dibromomethane	10.7		0.500	ug/L	10.0		107	80-120		
Dibromochloromethane	8.91		0.500	ug/L	10.0		89.1	80-121		
cis-1,2-Dichloroethylene	10.1		0.500	ug/L	10.0		101	80-120		
Chloroform	9.92		0.500	ug/L	10.0		99.2	80-120		
Chloroethane	9.54		0.500	ug/L	10.0		95.4	78-120		
Chlorobenzene (Monochlorobenzene)	8.87		0.500	ug/L	10.0		88.7	80-120		
cis-1,3-Dichloropropene	9.55		0.500	ug/L	10.0		95.5	79-123		
tert-Butylbenzene	8.88		0.500	ug/L	10.0		88.8	80-120		
trans-1,3-Dichloropropene	8.36		0.500	ug/L	10.0		83.6	69-130		
Trichloroethene	10.5		0.500	ug/L	10.0		105	80-120		
1,2-Dichloroethane	9.75		0.500	ug/L	10.0		97.5	80-120		
Carbon Tetrachloride	10.5		0.500	ug/L	10.0		105	80-120		
Vinyl Chloride	9.24		0.500	ug/L	10.0		92.4	75-120		
sec-Butylbenzene	8.99		0.500	ug/L	10.0		89.9	80-120		
Tetrachloroethylene	9.33		0.500	ug/L	10.0		93.3	80-120		
Naphthalene	8.40		0.500	ug/L	10.0		84.0	66-133		
Styrene	9.65		0.500	ug/L	10.0		96.5	80-120		
Trichloroflouromethane	10.5		0.500	ug/L	10.0		105	61-140		
p-isopropyltoluene	9.05		0.500	ug/L	10.0		90.5	80-120		
o-Xylene (MCL for total)	8.69		0.500	ug/L	10.0		86.9	80-120		
n-Propylbenzene	8.87		0.500	ug/L	10.0		88.7	80-120		
n-Butylbenzene	8.33		0.500	ug/L	10.0		83.3	74-122		
Toluene	9.98		0.500	ug/L	10.0		99.8	80-120		
1,1-Dichloroethylene	9.78		0.500	ug/L	10.0		97.8	70-129		
1,3,5-Trimethylbenzene	8.97		0.500	ug/L	10.0		89.7	80-121		
DBCP (screening)	8.64		0.500	ug/L	10.0		86.4	71-128		
1,2,4-Trimethylbenzene	8.89		0.500	ug/L	10.0		88.9	80-120		
1,2,4-Trichlorobenzene	8.40		0.500	ug/L	10.0		84.0	80-120		
1,2,3-Trichloropropane	8.99		0.500	ug/L	10.0		89.9	80-120		
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	8.58		0.500	ug/L	10.0		85.8	80-120		
1,1-Dichloropropene	10.1		0.500	ug/L	10.0		101	80-120		
1,1-Dichloroethane	9.75		0.500	ug/L	10.0		97.5	80-120		
1,1,2-Trichlorethane	8.93		0.500	ug/L	10.0		89.3	80-120		
1,1,2,2-Tetrachloroethane	8.81		0.500	ug/L	10.0		88.1	77-123		
1,1,1-Trichloroethane	10.2		0.500	ug/L	10.0		102	80-120		
1,1,1,2-Tetrachloroethane	8.94		0.500	ug/L	10.0		89.4	80-120		
trans-1,2 Dichloroethylene	9.76		0.500	ug/L	10.0		97.6	80-120		
1,2,3-Trichlorobenzene	8.57		0.500	ug/L	10.0		85.7	78-120		

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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: BDE0276 - VOC (Continued)										
LCS (BDE0276-BS1)					Prepared & Analyzed: 5/5/2023					
Bromoform	8.86		0.500	ug/L	10.0		88.6	68-133		
Bromodichloromethane	10.0		0.500	ug/L	10.0		100	80-120		
Bromochloromethane	10.6		0.500	ug/L	10.0		106	80-120		
Bromobenzene	9.18		0.500	ug/L	10.0		91.8	80-120		
Benzene	10.0		0.500	ug/L	10.0		100	80-120		
EDB (screening)	9.23		0.500	ug/L	10.0		92.3	70-130		
p-Chlorotoluene	8.89		0.500	ug/L	10.0		88.9	80-124		
Carbon disulfide	9.83		0.500	ug/L	10.0		98.3	80-120		
2-hexanone	8.26		2.50	ug/L	10.0		82.6	65-140		
o-Chlorotoluene	8.67		0.500	ug/L	10.0		86.7	80-120		
2,2-Dichloropropane	9.67		0.500	ug/L	10.0		96.7	80-120		
1,4-Dichlorobenzene (para-Dichlorobenzene)	8.58		0.500	ug/L	10.0		85.8	80-120		
1,3-Dichloropropane	8.69		0.500	ug/L	10.0		86.9	80-120		
m-Dichlorobenzene	8.56		0.500	ug/L	10.0		85.6	80-120		
1,2-Dichloropropane	9.69		0.500	ug/L	10.0		96.9	80-120		
Acrylonitrile	10.4		0.500	ug/L	10.0		104	73-131		
Surrogate: Toluene-d8			*21.4*	*ug/L*	*20.0*		*107*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*20.1*	*ug/L*	*20.0*		*100*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*19.9*	*ug/L*	*20.0*		*99.4*	*70-130*		
Matrix Spike (BDE0276-MS1)		**Source: MDE0131-05**			Prepared & Analyzed: 5/5/2023					
1,1-Dichloropropene	10.2		0.500	ug/L	10.0	ND	102	70-130		
Dichlorodifluoromethane	8.96		0.500	ug/L	10.0	ND	89.6	57-136		
Chlorobenzene (Monochlorobenzene)	9.01		0.500	ug/L	10.0	ND	90.1	70-130		
Methyl isobutyl ketone (MIBK)	8.03		2.50	ug/L	10.0	ND	80.3	53-167		
Methyl ethyl ketone (MEK)	8.05		2.50	ug/L	10.0	ND	80.5	47-165		
m/p Xylenes (MCL for total)	17.4		0.500	ug/L	20.0	ND	87.0	57-130		
Isopropylbenzene	8.97		0.500	ug/L	10.0	ND	89.7	70-130		
n-Butylbenzene	7.94		0.500	ug/L	10.0	ND	79.4	67-130		
Ethylbenzene	8.65		0.500	ug/L	10.0	ND	86.5	70-130		
o-Xylene (MCL for total)	8.61		0.500	ug/L	10.0	ND	86.1	62-127		
Dibromomethane	11.8		0.500	ug/L	10.0	ND	118	70-130		
Dibromochloromethane	9.07		0.500	ug/L	10.0	ND	90.7	70-130		
cis-1,3-Dichloropropene	9.29		0.500	ug/L	10.0	ND	92.9	74-124		
cis-1,2-Dichloroethylene	10.6		0.500	ug/L	10.0	ND	106	70-130		
Chloroform	10.3		0.500	ug/L	10.0	ND	103	70-130		
Chloroethane	10.2		0.500	ug/L	10.0	ND	102	68-138		
Hexachlorobutadiene	8.91		0.500	ug/L	10.0	ND	89.1	70-130		
1,1-Dichloroethane	9.53		0.500	ug/L	10.0	ND	95.3	70-130		
1,1,1,2-Tetrachloroethane	9.26		0.500	ug/L	10.0	ND	92.6	70-130		
Vinyl Chloride	9.14		0.500	ug/L	10.0	ND	91.4	70-130		
Trichloroflouromethane	11.2		0.500	ug/L	10.0	ND	112	50-154		
Trichloroethene	11.3		0.500	ug/L	10.0	ND	113	70-130		
methyl-t-butyl ether (MTBE)	9.15		0.500	ug/L	10.0	ND	91.5	57-138		
trans-1,2 Dichloroethylene	9.58		0.500	ug/L	10.0	ND	95.8	70-130		
Naphthalene	8.03		0.500	ug/L	10.0	ND	80.3	56-147		
Toluene	10.5		0.500	ug/L	10.0	ND	105	70-130		
Tetrachloroethylene	11.5		0.500	ug/L	10.0	1.78	96.9	70-130		
tert-Butylbenzene	8.79		0.500	ug/L	10.0	ND	87.9	70-130		
Styrene	8.87		0.500	ug/L	10.0	ND	88.7	30-130		

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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: BDE0276 - VOC (Continued)										
Matrix Spike (BDE0276-MS1)	**Source: MDE0131-05**				Prepared & Analyzed: 5/5/2023					
sec-Butylbenzene	9.09		0.500	ug/L	10.0	ND	90.9	70-130		
p-isopropyltoluene	9.07		0.500	ug/L	10.0	ND	90.7	70-130		
trans-1,3-Dichloropropene	7.38		0.500	ug/L	10.0	ND	73.8	61-131		
1,2,3-Trichloropropane	8.95		0.500	ug/L	10.0	ND	89.5	69-137		
1,2-Dichloropropane	9.53		0.500	ug/L	10.0	ND	95.3	70-130		
1,2-Dichloroethane	9.68		0.500	ug/L	10.0	ND	96.8	70-130		
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	8.67		0.500	ug/L	10.0	ND	86.7	70-130		
EDB (screening)	9.10		0.500	ug/L	10.0	ND	91.0	70-130		
DBCP (screening)	8.48		0.500	ug/L	10.0	ND	84.8	55-146		
1,3,5-Trimethylbenzene	8.97		0.500	ug/L	10.0	ND	89.7	40-140		
1,2,4-Trichlorobenzene	8.12		0.500	ug/L	10.0	ND	81.2	70-130		
1,1,2,2-Tetrachloroethane	8.63		0.500	ug/L	10.0	ND	86.3	67-136		
1,2,3-Trichlorobenzene	8.50		0.500	ug/L	10.0	ND	85.0	67-134		
1,1-Dichloroethylene	9.49		0.500	ug/L	10.0	ND	94.9	70-130		
1,1,2-Trichlorethane	8.90		0.500	ug/L	10.0	ND	89.0	70-130		
Carbon Tetrachloride	11.2		0.500	ug/L	10.0	ND	112	70-130		
1,1,1-Trichloroethane	10.6		0.500	ug/L	10.0	ND	106	70-130		
n-Propylbenzene	8.72		0.500	ug/L	10.0	ND	87.2	70-130		
1,2,4-Trimethylbenzene	8.99		0.500	ug/L	10.0	ND	89.9	40-140		
Bromodichloromethane	10.4		0.500	ug/L	10.0	ND	104	70-130		
Bromoform	8.97		0.500	ug/L	10.0	ND	89.7	59-140		
Bromochloromethane	11.4		0.500	ug/L	10.0	ND	114	70-130		
Bromobenzene	9.46		0.500	ug/L	10.0	ND	94.6	70-130		
Benzene	10.2		0.500	ug/L	10.0	ND	102	70-130		
Acrylonitrile	8.34		0.500	ug/L	10.0	ND	83.4	65-137		
p-Chlorotoluene	8.88		0.500	ug/L	10.0	ND	88.8	70-130		
o-Chlorotoluene	8.68		0.500	ug/L	10.0	ND	86.8	70-130		
2,2-Dichloropropane	9.72		0.500	ug/L	10.0	ND	97.2	70-130		
1,4-Dichlorobenzene (para-Dichlorobenzene)	8.61		0.500	ug/L	10.0	ND	86.1	70-130		
1,3-Dichloropropane	8.40		0.500	ug/L	10.0	ND	84.0	70-130		
m-Dichlorobenzene	8.60		0.500	ug/L	10.0	ND	86.0	70-130		
2-hexanone	6.81		2.50	ug/L	10.0	ND	68.1	43-175		
Carbon disulfide	10.5		0.500	ug/L	10.0	ND	105	70-130		
Surrogate: Toluene-d8			*21.9*	*ug/L*	*20.0*		*109*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*20.1*	*ug/L*	*20.0*		*100*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.2*	*ug/L*	*20.0*		*101*	*70-130*		

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

Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDE0276 - VOC (Continued)										
Matrix Spike Dup (BDE0276-MSD1)	**Source: MDE0131-05**				Prepared & Analyzed: 5/5/2023					
cis-1,2-Dichloroethylene	10.6		0.500	ug/L	10.0	ND	106	70-130	0.189	20
methyl-t-butyl ether (MTBE)	9.17		0.500	ug/L	10.0	ND	91.7	57-138	0.218	20
Methyl isobutyl ketone (MIBK)	8.12		2.50	ug/L	10.0	ND	81.2	53-167	1.11	20
Methyl ethyl ketone (MEK)	8.08		2.50	ug/L	10.0	ND	80.8	47-165	0.372	20
m/p Xylenes (MCL for total)	17.1		0.500	ug/L	20.0	ND	85.7	57-130	1.51	20
Isopropylbenzene	8.84		0.500	ug/L	10.0	ND	88.4	70-130	1.46	20
Hexachlorobutadiene	9.24		0.500	ug/L	10.0	ND	92.4	70-130	3.64	20
Ethylbenzene	8.55		0.500	ug/L	10.0	ND	85.5	70-130	1.16	20
Dichlorodifluoromethane	8.64		0.500	ug/L	10.0	ND	86.4	57-136	3.64	20
Dibromomethane	11.9		0.500	ug/L	10.0	ND	119	70-130	0.761	20
cis-1,3-Dichloropropene	9.29		0.500	ug/L	10.0	ND	92.9	74-124	0.00	20
Chloroform	10.2		0.500	ug/L	10.0	ND	102	70-130	1.17	20
Naphthalene	8.17		0.500	ug/L	10.0	ND	81.7	56-147	1.73	20
Toluene	10.2		0.500	ug/L	10.0	ND	102	70-130	2.41	20
Chloroethane	9.98		0.500	ug/L	10.0	ND	99.8	68-138	2.18	20
Dibromochloromethane	9.09		0.500	ug/L	10.0	ND	90.9	70-130	0.220	20
Tetrachloroethylene	11.3		0.500	ug/L	10.0	1.78	94.7	70-130	1.94	20
1,1,1,2-Tetrachloroethane	9.22		0.500	ug/L	10.0	ND	92.2	70-130	0.433	20
Trichloroflouromethane	10.9		0.500	ug/L	10.0	ND	109	50-154	2.54	20
Trichloroethene	11.2		0.500	ug/L	10.0	ND	112	70-130	1.69	20
trans-1,3-Dichloropropene	7.53		0.500	ug/L	10.0	ND	75.3	61-131	2.01	20
trans-1,2 Dichloroethylene	9.40		0.500	ug/L	10.0	ND	94.0	70-130	1.90	20
tert-Butylbenzene	8.71		0.500	ug/L	10.0	ND	87.1	70-130	0.914	20
Chlorobenzene (Monochlorobenzene)	8.93		0.500	ug/L	10.0	ND	89.3	70-130	0.892	20
n-Butylbenzene	7.87		0.500	ug/L	10.0	ND	78.7	67-130	0.886	20
Vinyl Chloride	8.91		0.500	ug/L	10.0	ND	89.1	70-130	2.55	20
Styrene	9.09		0.500	ug/L	10.0	ND	90.9	30-130	2.45	20
sec-Butylbenzene	8.99		0.500	ug/L	10.0	ND	89.9	70-130	1.11	20
p-isopropyltoluene	9.00		0.500	ug/L	10.0	ND	90.0	70-130	0.775	20
o-Xylene (MCL for total)	8.58		0.500	ug/L	10.0	ND	85.8	62-127	0.349	20
n-Propylbenzene	8.62		0.500	ug/L	10.0	ND	86.2	70-130	1.15	20
1,2,3-Trichloropropane	8.89		0.500	ug/L	10.0	ND	88.9	69-137	0.673	20
1,2-Dichloroethane	9.76		0.500	ug/L	10.0	ND	97.6	70-130	0.823	20
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	8.62		0.500	ug/L	10.0	ND	86.2	70-130	0.578	20
EDB (screening)	9.17		0.500	ug/L	10.0	ND	91.7	70-130	0.766	20
DBCP (screening)	8.96		0.500	ug/L	10.0	ND	89.6	55-146	5.50	20
1,1,2,2-Tetrachloroethane	8.90		0.500	ug/L	10.0	ND	89.0	67-136	3.08	20
1,2,4-Trichlorobenzene	8.24		0.500	ug/L	10.0	ND	82.4	70-130	1.47	20
m-Dichlorobenzene	8.60		0.500	ug/L	10.0	ND	86.0	70-130	0.00	20
1,2,3-Trichlorobenzene	8.38		0.500	ug/L	10.0	ND	83.8	67-134	1.42	20
1,1-Dichloropropene	9.92		0.500	ug/L	10.0	ND	99.2	70-130	2.98	20
1,1-Dichloroethylene	9.46		0.500	ug/L	10.0	ND	94.6	70-130	0.317	20
1,1-Dichloroethane	9.48		0.500	ug/L	10.0	ND	94.8	70-130	0.526	20
1,1,2-Trichlorethane	8.91		0.500	ug/L	10.0	ND	89.1	70-130	0.112	20
1,1,1-Trichloroethane	10.4		0.500	ug/L	10.0	ND	104	70-130	2.09	20
1,2,4-Trimethylbenzene	8.83		0.500	ug/L	10.0	ND	88.3	40-140	1.80	20
Carbon disulfide	10.2		0.500	ug/L	10.0	ND	102	70-130	2.13	20
Bromoform	9.17		0.500	ug/L	10.0	ND	91.7	59-140	2.21	20
Bromodichloromethane	10.3		0.500	ug/L	10.0	ND	103	70-130	0.581	20
Bromochloromethane	11.4		0.500	ug/L	10.0	ND	114	70-130	0.00	20

Anatek Labs, Inc.

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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: BDE0276 - VOC (Continued)										
Matrix Spike Dup (BDE0276-MSD1)	**Source: MDE0131-05**				Prepared & Analyzed: 5/5/2023					
Bromobenzene	9.49		0.500	ug/L	10.0	ND	94.9	70-130	0.317	20
Benzene	10.0		0.500	ug/L	10.0	ND	100	70-130	1.19	20
1,2-Dichloropropane	9.57		0.500	ug/L	10.0	ND	95.7	70-130	0.419	20
p-Chlorotoluene	8.75		0.500	ug/L	10.0	ND	87.5	70-130	1.47	20
1,3,5-Trimethylbenzene	8.86		0.500	ug/L	10.0	ND	88.6	40-140	1.23	20
2-hexanone	6.77		2.50	ug/L	10.0	ND	67.7	43-175	0.589	20
o-Chlorotoluene	8.64		0.500	ug/L	10.0	ND	86.4	70-130	0.462	20
2,2-Dichloropropane	9.75		0.500	ug/L	10.0	ND	97.5	70-130	0.308	20
1,4-Dichlorobenzene (para-Dichlorobenzene)	8.48		0.500	ug/L	10.0	ND	84.8	70-130	1.52	20
1,3-Dichloropropane	8.41		0.500	ug/L	10.0	ND	84.1	70-130	0.119	20
Carbon Tetrachloride	11.0		0.500	ug/L	10.0	ND	110	70-130	1.98	20
Acrylonitrile	9.47		0.500	ug/L	10.0	ND	94.7	65-137	12.7	20
Surrogate: Toluene-d8			*21.7*	*ug/L*	*20.0*		*108*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*20.2*	*ug/L*	*20.0*		*101*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.1*	*ug/L*	*20.0*		*100*	*70-130*		

Subcontract Order

MDE0131

Due: 05/17/23

X3E0055

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

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

Report and Invoice to SVL Analytical, Inc.

Analysis	Due	HT Expires		
SVL ID: X3E0055-01 Client ID: **W-SVA1-230502**			**Water**	**Sampled: 02-May-23 09:20**
Spokane County - 8270D/BEHP	17-May-23	12-May-23 09:20	DEDICATED QC	
Spokane County - Sub VOC 8260 (Anatek)		16-May-23 09:20		
Sub SVOC EPA 8270D				
Containers Supplied:				
Amber VOA HCl (A)				
Amber VOA HCl (B)				
Amber VOA HCl (C)				
Raw Amber Glass (D)				
SVL ID: X3E0055-02 Client ID: **W-WCC1-230502**			**Water**	**Sampled: 02-May-23 09:54**
Spokane County - 8270D/BEHP	17-May-23	12-May-23 09:54	DEDICATED QC	
Spokane County - Sub VOC 8260 (Anatek)		16-May-23 09:54		
Sub SVOC EPA 8270D				
Containers Supplied:				
Amber VOA HCl (A)				
Amber VOA HCl (B)				
Amber VOA HCl (C)				
Raw Amber Glass (D)				
SVL ID: X3E0055-03 Client ID: **W-WCC2-230502**			**Water**	**Sampled: 02-May-23 10:15**
Spokane County - 8270D/BEHP	17-May-23	12-May-23 10:15	DEDICATED QC	
Spokane County - Sub VOC 8260 (Anatek)		16-May-23 10:15		
Sub SVOC EPA 8270D				
Containers Supplied:				
Amber VOA HCl (A)				
Amber VOA HCl (B)				
Amber VOA HCl (C)				
Raw Amber Glass (D)				
SVL ID: X3E0055-04 Client ID: **W-WCC4A-230502**			**Water**	**Sampled: 02-May-23 12:02**
Spokane County - 8270D/BEHP	17-May-23	12-May-23 12:02	DEDICATED QC	
Spokane County - Sub VOC 8260 (Anatek)		16-May-23 12:02		
Sub SVOC EPA 8270D				
Containers Supplied:				
Amber VOA HCl (A)				
Amber VOA HCl (B)				
Amber VOA HCl (C)				
Raw Amber Glass (D)				

Shipped directly to Anatek

Relinquished by: _____ Date/Time: 5/3/23 Received by: _____ Date/Time: _____

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

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

Subcontract Order

X3E0055

Analysis	Due	HT Expires		
SVL ID: X3E0055-05 Client ID: **W-WCC7-230502**			**Water**	**Sampled: 02-May-23 12:54**
Spokane County - 8270D/BEHP	17-May-23	12-May-23 12:54	DEDICATED QC	
Spokane County - Sub VOC 8260 (Anatek)		16-May-23 12:54		
Sub SVOC EPA 8270D				
Containers Supplied:				
Amber VOA HCl (A)				
Amber VOA HCl (B)				
Amber VOA HCl (C)				
Amber VOA HCl (D)				
Amber VOA HCl (E)				
Amber VOA HCl (F)				
Amber VOA HCl (G)				
Amber VOA HCl (H)				
Amber VOA HCl (I)				
Raw Amber Glass (J)				
Raw Amber Glass (K)				
Raw Amber Glass (L)				
SVL ID: X3E0055-06 Client ID: **W-WCC8-230502**			**Water**	**Sampled: 02-May-23 11:57**
Spokane County - 8270D/BEHP	17-May-23	12-May-23 11:57	DEDICATED QC	
Spokane County - Sub VOC 8260 (Anatek)		16-May-23 11:57		
Sub SVOC EPA 8270D				
Containers Supplied:				
Amber VOA HCl (A)				
Amber VOA HCl (B)				
Amber VOA HCl (C)				
Raw Amber Glass (D)				
SVL ID: X3E0055-07 Client ID: **W-WCC9-230502**			**Water**	**Sampled: 02-May-23 11:00**
Spokane County - 8270D/BEHP	17-May-23	12-May-23 11:00	DEDICATED QC	
Spokane County - Sub VOC 8260 (Anatek)		16-May-23 11:00		
Sub SVOC EPA 8270D				
Containers Supplied:				
Amber VOA HCl (A)				
Amber VOA HCl (B)				
Amber VOA HCl (C)				
Raw Amber Glass (D)				
SVL ID: X3E0055-08 Client ID: **W-WCC10R-230502**			**Water**	**Sampled: 02-May-23 09:47**
Spokane County - 8270D/BEHP	17-May-23	12-May-23 09:47	DEDICATED QC	
Spokane County - Sub VOC 8260 (Anatek)		16-May-23 09:47		
Sub SVOC EPA 8270D				
Containers Supplied:				
Amber VOA HCl (A)				
Amber VOA HCl (B)				
Amber VOA HCl (C)				
Raw Amber Glass (D)				

Relinquished by: _____ Date/Time: 5/3/23 Received by: _____ Date/Time: _____

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

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

Subcontract Order

X3E0055

Analysis	Due	HT Expires		
SVL ID: X3E0055-09 Client ID: **W-WCC11B-230502**			**Water**	**Sampled: 02-May-23 13:00**
Spokane County - 8270D/BEHP	17-May-23	12-May-23 13:00	DEDICATED QC	
Spokane County - Sub VOC 8260 (Anatek)		16-May-23 13:00		
Sub SVOC EPA 8270D				
Containers Supplied:				
Amber VOA HCl (A)				
Amber VOA HCl (B)				
Amber VOA HCl (C)				
Raw Amber Glass (D)				
SVL ID: X3E0055-10 Client ID: **W-WCC12-230502**			**Water**	**Sampled: 02-May-23 13:45**
Spokane County - 8270D/BEHP	17-May-23	12-May-23 13:45	DEDICATED QC	
Spokane County - Sub VOC 8260 (Anatek)		16-May-23 13:45		
Sub SVOC EPA 8270D				
Containers Supplied:				
Amber VOA HCl (A)				
Amber VOA HCl (B)				
Amber VOA HCl (C)				
Raw Amber Glass (D)				
SVL ID: X3E0055-11 Client ID: **WS-1-1-230502**			**Water**	**Sampled: 02-May-23 10:30**
Spokane County - Sub VOC 8260 (Anatek)	17-May-23	16-May-23 10:30	DEDICATED QC	
Containers Supplied:				
Amber VOA HCl (A)				
Amber VOA HCl (B)				

Relinquished by: _____ Date/Time: 5/3/23 Received by: _____ Date/Time: _____

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

SPOKANE COUNTY ENVIRONMENTAL SERVICES LANDFILL CLOSURE
CHAIN OF CUSTODY RECORD 2023

SPOKANE COUNTY ENVIROMENTAL SERVICES
22515 N. ELK CHATTAROY RD.
COLERT, WASHINGTON 99005
PHONE: (509) 238-6607
FAX: (509) 238-6812

PROJECT: GREENACRES SEMI-ANNUAL OR ANNUAL SAMPLING (CIRCLE ONE)
SHIPPING COMPANY: UPS
SHIPPING NUMBER: K237138944/8935
NUMBER OF COOLERS: 2

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

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

PARAMETERS:	VOC'S	BEHP / PCP	NITRATE	TRACE METALS Mn / As / Sb / Pb / Cr				
CONTAINERS:	3-40 ml Voa's	1-1 Liter Amber Glass	1-250 ml Poly bottle	1-500 ml Poly Bottle				
PRESERVATION:	HCl to pH<2	NONE	NONE	FIELD FILTERED HNO3 to pH<2				
HOLDING TIME:	14 days	7 Days (to extract)	48 HOURS (to extract)	6 months				
METHODS: 2023	8260B	8270C	300.0	Mn 6010	As 7060A	Sb 7041	Pb 6010	Cr 6010

SAMPLER'S: MIKE T / GORDIE F / CRAIG C
DATE: 5/2/2023

SAMPLE ID:	DATE:	TIME:	VOC'S	BEHP / PCP	NITRATE	Mn	As	Sb	Pb	Cr	# BOTTLES	COOLER#	COMMENTS:
W-SVA1-230502	5/2	0920	X	X							4	75	
W-WCC1-230502	5/2	0954	X	X							4	8	
W-WCC2-230502	5/2	1015	X	X							4	8	
W-WCC4A-230502	5/2	1202	X	X							4	75	
W-WCC7-230502	5/2	1254	X	X							12	75	MS/MSD
W-WCC8-230502	5/2	1157	X	X							4	75	
W-WCC9-230502	5/2	1100	X	X							4	75	
W-WCC10R-230502	5/2	0947	X	X							4	75	
W-WCC11B-230502	5/2	1300	X	X							4	75	
W-WCC12-230502	5/2	1345	X	X							4	8	
WS-1-1-230502	5/2	1030	X	X							4	8	
WS-2-1-230502	5/2	—	X								3	8	TRIPS

COMMENT: Please email the sample condition report to Mike and Austin ASAP; mterris@spokanecounty.org & astewart@spokanecounty.org

RELINQUISHED BY:
SIGNATURE: Mike S. Terris
PRINT NAME: MIKE S. TERRIS
DATE: 5/2/2023
TIME: 1530
SPOKANE COUNTY UTILITIES LANDFILL CLOSURE

RECEIVED BY:
SIGNATURE: Drew Anderst
PRINT NAME: Drew Anderst
DATE: 5/3/23
TIME: 13:02
COMPANY

*ALL VOC'S ARE IN COOLER #8 ALONG W/TRIPS AND ORG. COC

Anatek Labs, Inc.

Sample Receipt and Preservation Form

Client Name: SVJ / 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: 2 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 Cooler Temp Corrected (°C): _____ Thermometer Used: _____

				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: 52				

				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:

G4M HCl 8260 x 3 8+2 TB

G1LX DA 8270

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

One 40a vial from the W-WCC7-230502 MS/MSD group arrived broken

Only two tripBlanks were present

Received/Inspected By: DQ Date/Time: 10:12 5/3/23

Form F19.01 - Eff 1 Dec 2022

Work Order: **X3E0055**
Spokane County Environmental Services (

SPOKANE COUNTY ENVIRONMENTAL SERVICES LANDFILL CLOSURE
CHAIN OF CUSTODY RECORD 2023

SPOKANE COUNTY ENVIROMENTAL SERVICES
22515 N. ELK CHATTAROY RD.
COLERT, WASHINGTON 99005
PHONE: (509) 238-6607
FAX: (509) 238-6812

PROJECT: GREENACRES SEMI-ANNUAL OR ANNUAL SAMPLING (CIRCLE ONE)
SHIPPING COMPANY: **UPS**
SHIPPING NUMBER: 1K2371389441 8935
NUMBER OF COOLERS: 2

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

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

PARAMETERS:	VOC'S	BEHP / PCP	NITRATE	TRACE METALS Mn / As / Sb / Pb / Cr				
CONTAINERS:	3-40 ml Voa's	1-1 Liter Amber Glass	1-250 ml Poly bottle	1-500 ml Poly Bottle				
PRESERVATION:	HCl to pH<2	NONE	NONE	FIELD FILTERED HNO3 to pH<2				
HOLDING TIME:	14 days	7 Days (to extract)	48 HOURS (to extract)	6 months				
METHODS: 2023	8260B	8270C	300.0	Mn 6010	As 7060A	Sb 7041	Pb 6010	Cr 6010

SAMPLER'S: MIKE T / GORDIE F / CRAIG C

DATE: 5/2/2023

SAMPLE ID:	DATE:	TIME:	VOC'S	BEHP / PCP	NITRATE	Mn	As	Sb	Pb	Cr	# BOTTLES	COOLER#	COMMENTS:
W-SVA1-230502	5/2	0920	X	X							4	75	
W-WCC1-230502	5/2	0954	X	X							4	8	
W-WCC2-230502	5/2	1015	X	X							4	8	
W-WCC4A-230502	5/2	1202	X	X							4	75	
W-WCC7-230502	5/2	1254	X	X							12	75	MS/MSD
W-WCC8-230502	5/2	1157	X	X							4	75	
W-WCC9-230502	5/2	1100	X	X							4	75	
W-WCC10R-230502	5/2	0947	X	X							4	75	
W-WCC11B-230502	5/2	1300	X	X							4	75	
W-WCC12-230502	5/2	1345	X	X							4	8	
WS-1-1-230502	5/2	1030	X	X							4	8	
WS-2-1-230502	5/2	—	X								3	8	TRIPS

COMMENT: Please email the sample condition report to Mike and Austin ASAP; mterris@spokanecounty.org & astewart@spokanecounty.org

RELINQUISHED BY:
SIGNATURE: Mike S. Terris
PRINT NAME: MIKE S. TERRIS
SPOKANE COUNTY UTILITIES LANDFILL CLOSURE
DATE: 5/2/2023
TIME: 1530

RECEIVED BY: DA
SIGNATURE: Drew Anderst
PRINT NAME: Drew Anderst
COMPANY
DATE: 5/3/23
TIME: 13:02

*ALL VOC'S ARE IN COOLER #8 ALONG W/TRIPS AND ORG. COC

Anatek Labs, Inc.

Sample Receipt and Preservation Form

Client Name: LVI / 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: 2 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 Cooler Temp Corrected (°C): _____ Thermometer Used: _____

				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: _____				

				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:

G4H HCl 8260 x 3 8+2 TB

G1LX DI 8270

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

One 500 vial from the W-WCC7-230502 MS/MSD group arrived broken

Only two trip Blanks were present

Received/Inspected By: DO Date/Time: 10:12 5/3/23

Form F19.01 - Eff 1 Dec 2022

Appendix C: Landfill Gas Probe Measurements

Greenacres Landfill Gas Measurements | Filename: GP230112.xlxs

Tech: CC | Inst. Used: Landtec Gem 500 # 547

Date: 1/12/2023 | Time Gem Calib: 10:15

Temp: 35 F

Weather: Rain/Sleet

Baro. Pres: 30.21 @ 9:00 | Baro. Pres: 30.21 @ 12:00

Qualifier: Steady

Code	Time	Date	CH4	CO2	O2	Bal	Static Pres	Different	Tempe	Refere	Adjus	Valve Pos:	Comments
GAPGP02L	10:34	1/12/2023	0	3.6	15.6	80.8	0	-0.04	>>>	>>>	>>>	>>>	
GAPGP02M	10:41	1/12/2023	0	0.8	19.7	79.5	0	0	>>>	>>>	>>>	>>>	
GAPGP02U	10:46	1/12/2023	0	0.3	20.2	79.5	0	0	>>>	>>>	>>>	>>>	
GAPGP03L	10:53	1/12/2023	0	0.8	18.8	80.4	0	0.02	>>>	>>>	>>>	>>>	
GAPGP03M	10:57	1/12/2023	0	0.6	19.8	79.6	0	0.01	>>>	>>>	>>>	>>>	
GAPGP03U	11:00	1/12/2023	0	0.2	20.2	79.6	0	0.01	>>>	>>>	>>>	>>>	
GAPGP009	11:06	1/12/2023	0	0.2	20.1	79.7	0	0	>>>	>>>	>>>	>>>	
GAPGP004	11:13	1/12/2023	0	0.7	19.7	79.6	0	0	>>>	>>>	>>>	>>>	
GAGP08L	>>>>>>>>>	>>>>>>>>>	>>>>>>>	>>>>>>	>>>>>>>	>>>>>>>	>>>>>>>	>>>>>>>	>>>>>	>>>>>>	>>>>>	No Sample, Water in Line	
GAPGP08U	11:24	1/12/2023	0	0.2	20.2	79.6	0	0	>>>	>>>	>>>	>>>	
GAPGP005	11:32	1/12/2023	0	1.1	17.1	81.8	0	0	>>>	>>>	>>>	>>>	
GAPGP006	11:40	1/12/2023	0	0	20.4	79.6	0	-0.1	>>>	>>>	>>>	>>>	
GAGP007	>>>>>>>>>	>>>>>>>>>	>>>>>>>	>>>>>>	>>>>>>>	>>>>>>>	>>>>>>>	>>>>>>>	>>>>>	>>>>>>	>>>>>	No Sample, Water in Line	
GAPGP001	11:49	1/12/2023	0	3	18.2	78.8	0	0	>>>	>>>	>>>	>>>	

Greenacres Landfill Gas Measurements
Filename: GP230201.XLXS
Tech: GF
Inst. Used: Landtec Gem 500 # 760
Date: 2/1/2023
Time Gem Calib: 1005
Temp: 28-30 deg F
Weather: cldy
Baro. Pres: 30.23 @ 945
Baro. Pres: 30.23 @ 1131
Qualifier: steady
Gas Extraction Monitoring Data

Code	Time	Date	CH4	CO2	O2	Bal	Static Pres	Different	Temp	Refere	Adjus	Valve Pos:	Comments
GAPGP02L	10:14	2/1/2023	0	4.2	15.5	80.3	0	-0.03	>>>	>>>	>>>	>>>	
GAPGP02M	10:16	2/1/2023	0	1.3	19.6	79.1	0	-0.01	>>>	>>>	>>>	>>>	
GAPGP02U	10:17	2/1/2023	0	0.3	20.7	79	0	0	>>>	>>>	>>>	>>>	
GAPGP03L	10:22	2/1/2023	0	1.1	18.3	80.6	0	-0.09	>>>	>>>	>>>	>>>	
GAPGP03M	10:24	2/1/2023	0	0.6	20	79.4	0	-0.07	>>>	>>>	>>>	>>>	
GAPGP03U	10:26	2/1/2023	0	0.1	20.5	79.4	0	-0.04	>>>	>>>	>>>	>>>	
GAPGP009	10:31	2/1/2023	0	0.2	20.6	79.2	0	0	>>>	>>>	>>>	>>>	
GAPGP004	10:34	2/1/2023	0	1	20.2	78.8	0	0	>>>	>>>	>>>	>>>	
GAPGP08L	10:41	2/1/2023	0	0	20.8	79.2	0	0	>>>	>>>	>>>	>>>	
GAPGP08U	10:43	2/1/2023	0	0.3	20.8	78.9	0	0	>>>	>>>	>>>	>>>	
GAPGP005	10:47	2/1/2023	0	0.4	20.2	79.4	0	0	>>>	>>>	>>>	>>>	
GAPGP006	10:52	2/1/2023							>>>	>>>	>>>	>>>	gw in screen, no sample
GAPGP007	10:54	2/1/2023							>>>	>>>	>>>	>>>	gw in screen, no sample
GAPGP001	10:59	2/1/2023	0	3.6	16.1	80.3	0	0	>>>	>>>	>>>	>>>	

Green Acres Gas Measurements

Filename: GP230301.xlxs

Tech: CC

Inst. Used: Landtec Gem 500 # 547

Date: 3/1/2023

Time Gem Calib: 845

Temp: 31

Time Gem Checked: n/a

Weather: Pt. Cldy.

Baro. Pres: 30.12 @ 1200

Baro. Pres: 30.13 @ 1400

Qualifier: Rising

Gas Extraction Monitoring Data

Code	Time	Date	CH4	CO2	O2	Bal	Static Pres	Different	Temp	Referer	Adjus	Valve Pos:	Comments
GAPGP02L	12:54	3/1/2023	0	4.9	14.1	81	0.1	-0.03	>>>	>>>	>>>	>>>	
GAPGP02M	12:57	3/1/2023	0	0.8	20	79.2	0	0	>>>	>>>	>>>	>>>	
GAPGP02U	12:59	3/1/2023	0	0.3	20.8	78.9	0	0	>>>	>>>	>>>	>>>	
GAPGP03L	13:05	3/1/2023	0	0.6	17.2	82.2	0	0.01	>>>	>>>	>>>	>>>	
GAPGP03M	13:07	3/1/2023	0	0.5	20.3	79.2	0	0.01	>>>	>>>	>>>	>>>	
GAPGP03U	13:09	3/1/2023	0	0.1	20.7	79.2	0	0.02	>>>	>>>	>>>	>>>	
GAPGP009	13:15	3/1/2023	0	0.2	20.8	79	0	0	>>>	>>>	>>>	>>>	
GAPGP004	13:21	3/1/2023	0	0.4	20.9	78.7	0	0	>>>	>>>	>>>	>>>	
GAPGP08L	13:27	3/1/2023											GW In Screen, No Sample
GAPGP08U	13:28	3/1/2023											GW In Screen, No Sample
GAPGP005	13:37	3/1/2023											GW In Screen, No Sample
GAPGP006	13:42	3/1/2023	0	0.5	20.6	78.9	0	0.01	>>>	>>>	>>>	>>>	
GAPGP007	13:45	3/1/2023											GW In Screen, No Sample
GAPGP001	13:50	3/1/2023	0	2.5	17.2	80.3	0	-0.11	>>>	>>>	>>>	>>>	

Green Acres Landfill Gas Measurements | Filename: GP230403.xlxs

Tech: CC | Inst. Used: Landtec Gem 500 # 547

Date: 4/3/2023 | Time Gem Calib: 1130

Temp: 35-45F | Time Gem Checked: NA

Weather: cldy

Baro. Pres: 30.09 @ 830 | Baro. Pres: 30.09 @ 1400

Qualifier: Steady

Gas Extraction Monitoring Data

Code	Time	Date	CH4	CO2	O2	Bal	Static Pres	Different	Temp	Referen	Adjus	Valve Pos:	Comments
GAPGP02L	11:41	4/3/2023	0	5.3	12.9	81.8	0	-0.02	>>>	>>>	>>>	>>>	
GAPGP02M	11:43	4/3/2023	0	0.9	19.6	79.5	0	0	>>>	>>>	>>>	>>>	
GAPGP02U	11:45	4/3/2023	0	0.2	20.5	79.3	0	0	>>>	>>>	>>>	>>>	
GAPGP03L	11:51	4/3/2023	0	0.6	16.4	83	0	0	>>>	>>>	>>>	>>>	
GAPGP03M	11:52	4/3/2023	0	0.5	20	79.5	0	0	>>>	>>>	>>>	>>>	
GAPGP03U	11:54	4/3/2023	0	0.1	20.4	79.5	0	0	>>>	>>>	>>>	>>>	
GAPGP03U	11:55	4/3/2023	0	0.1	20.4	79.5	0	0	>>>	>>>	>>>	>>>	
GAPGP009	12:00	4/3/2023	0	0.1	20.7	79.2	0	0	>>>	>>>	>>>	>>>	
GAPGP004	12:04	4/3/2023	0	0.4	20.6	79	0	0	>>>	>>>	>>>	>>>	
GAPGP08L	12:09	4/3/2023							>>>	>>>	>>>	>>>	GW In Screen, No Sample
GAPGP08U	12:11	4/3/2023	0	0.3	20.5	79.2	0	0.1	>>>	>>>	>>>	>>>	
GAPGP005	12:14	4/3/2023							>>>	>>>	>>>	>>>	GW In Screen, No Sample
GAPGP006	12:19	4/3/2023	0	0	21	79	0	-0.02	>>>	>>>	>>>	>>>	Data after 120 seconds pump time
GAPGP007	12:24	4/3/2023	0	0.4	20.6	79	0	-0.01	>>>	>>>	>>>	>>>	
GAPGP001	12:29	4/3/2023	0	1	20.3	78.7	0	0	>>>	>>>	>>>	>>>	

Mica Landfill Gas Measurements | Filename: GP230501.xlxs

Tech: CC | Inst. Used: Landtec Gem 500 # 760

Date: 5/1/2023 | Time Gem Calib: 800

Temp: 65 | Time Gem Checked: n/a

Weather: Ptly Cldy

Baro. Pres: 30.01 @ 12:00 | Baro. Pres: 30 @ 1430

Qualifier: Falling

Gas Extraction Monitoring Data

Code	Time	Date	CH4	CO2	O2	Bal	Static Pres	Different	Temp	Refere	Adjus	Valve Pos:	Comments
GAPGP02L	11:10	5/1/2023	0	5.6	11.5	82.9	0	0.04	>>>	>>>	>>>	>>>	
GAPGP02M	11:13	5/1/2023	0	1.5	19.3	79.2	0	0.01	>>>	>>>	>>>	>>>	
GAPGP02U	11:16	5/1/2023	0	0.3	20.4	79.3	0	0.01	>>>	>>>	>>>	>>>	
GAPGP03L	11:23	5/1/2023	0	0.8	17.2	82	0	0.13	>>>	>>>	>>>	>>>	
GAPGP03M	11:25	5/1/2023	0	0.6	19.9	79.5	0	0.04	>>>	>>>	>>>	>>>	
GAPGP03U	11:26	5/1/2023	0	0.2	20.3	79.5	0	0.05	>>>	>>>	>>>	>>>	
GAPGP009	11:36	5/1/2023	0	0.2	20.6	79.2	0	0.05	>>>	>>>	>>>	>>>	
GAPGP004	11:41	5/1/2023	0	0.4	20.4	79.2	0	0.02	>>>	>>>	>>>	>>>	
GAPGP08L	11:46	5/1/2023							>>>	>>>	>>>	>>>	GW In Screen, No Sample
GAPGP08U	11:49	5/1/2023	0	0.4	20.1	79.5	0	0.17	>>>	>>>	>>>	>>>	
GAPGP005	11:54	5/1/2023							>>>	>>>	>>>	>>>	GW In screen No Sample
GAPGP006	11:59	5/1/2023	0	0.6	20.3	79.1	0	0.01	>>>	>>>	>>>	>>>	
GAPGP007	12:04	5/1/2023	0	0.5	20.4	79.1	0	0.09	>>>	>>>	>>>	>>>	
GAPGP001	12:08	5/1/2023	0	0.8	20.3	78.9	0	0.02	>>>	>>>	>>>	>>>	

Greenacres Landfill Gas Measurements | Filename: GP230605.xlxs

Tech: CC | Inst. Used: Landtec Gem 500 # 760

Date: 6/5/2023 | Time Gem Calib: 1200

Temp: 84F | Time Gem Checked: n/a

Weather: Clear

Baro. Pres: 30.16 @ 1200 | Baro. Pres: 30.16 @ 1400

Qualifier: Steady

Gas Extraction Monitoring Data

Code	Time	Date	CH4	CO2	O2	Bal	Static Pres	Different	Temp	Refere	Adjus	Valve Pos:	Comments
GAPGP02L	12:23	6/5/2023	0	5	12.1	82.9	0	0	>>>	>>>	>>>	>>>	
GAPGP02M	12:26	6/5/2023	0	1.4	19.2	79.4	0	0	>>>	>>>	>>>	>>>	
GAPGP02U	12:29	6/5/2023	0	0.7	19.9	79.4	0	0.01	>>>	>>>	>>>	>>>	
GAPGP03L	12:35	6/5/2023	0	0.8	18.9	80.3	0	0	>>>	>>>	>>>	>>>	
GAPGP03M	12:37	6/5/2023	0	0.5	20.1	79.4	0	0	>>>	>>>	>>>	>>>	
GAPGP03U	12:38	6/5/2023	0	0.3	20.2	79.5	0	-0.01	>>>	>>>	>>>	>>>	
GAPGP009	12:44	6/5/2023	0	0.2	20.6	79.2	0	0	>>>	>>>	>>>	>>>	
GAPGP004	12:55	6/5/2023	0	0.6	20.2	79.2	0	0.04	>>>	>>>	>>>	>>>	
GAPGP08L	13:06	6/5/2023	0	0	20.7	79.3	0	-0.05	>>>	>>>	>>>	>>>	
GAPGP08U	13:09	6/5/2023	0	0.7	19.7	79.6	0	0	>>>	>>>	>>>	>>>	
GAPGP005	13:14	6/5/2023							>>>	>>>	>>>	>>>	GW in Screen, No Sample
GAPGP006	13:19	6/5/2023	0	0.7	19.8	79.5	0	0	>>>	>>>	>>>	>>>	
GAPGP007	13:24	6/5/2023	0	1	19.6	79.4	0	-0.01	>>>	>>>	>>>	>>>	
GAPGP001	13:29	6/5/2023	0	0.8	19.7	79.5	0	-0.02	>>>	>>>	>>>	>>>	
GAC00001	13:33	6/5/2023	3.1	15.5	0.6	80.8	0	0.15	99	44	44		
GAC00002	13:35	6/5/2023	3.1	15.4	0.6	80.9	0	0.01	96	44	44		
GBC00001	13:37	6/5/2023	3.3	15.4	0.5	80.8	0	0.58	110	44	44		
GBC00002	13:39	6/5/2023	3.3	15.5	0.5	80.7	0	-23.9	77	44	44		

Greenacres Landfill Gas Measurements

Tech:	CC		Inst. Used: Landtec Gem 500 #		760
Date:	7/5/2023		Time Gem Calib:		1200
Temp:	85F		Time Gem Checked:		n/a
Weather:	Pt. Cldy.				
Baro. Pres:	30.2	@ 1200	Baro. Pres:	30.18	@ 1330
Qualifier:	Falling				

Gas Extraction Monitoring Data

Code	Time	Date	CH4	CO2	O2	Bal	Static Pres	Different	Temp	Referei	Adjus	Valve Pos:	Comments
GAPGP02L	12:22	7/5/2023	0	4.5	12.4	83.1	0	0.01	>>>	>>>	>>>	>>>	
GAPGP02M	12:24	7/5/2023	0	1.3	19.1	79.6	0	0.01	>>>	>>>	>>>	>>>	
GAPGP02U	12:26	7/5/2023	0	1.2	19.9	78.9	0	0	>>>	>>>	>>>	>>>	
GAPGP03L	12:32	7/5/2023	0	1	19.3	79.7	0	0.02	>>>	>>>	>>>	>>>	
GAPGP03M	12:34	7/5/2023	0	0.5	20.2	79.3	0	0.02	>>>	>>>	>>>	>>>	
GAPGP03U	12:36	7/5/2023	0	0.3	20.4	79.3	0	0.07	>>>	>>>	>>>	>>>	
GAPGP009	12:40	7/5/2023	0	0.1	20.4	79.5	0	0.01	>>>	>>>	>>>	>>>	
GAPGP004	12:45	7/5/2023	0	0.6	20.4	79	0	0	>>>	>>>	>>>	>>>	
GAPGP08L	12:55	7/5/2023	0	0	20.7	79.3	0	0.13	>>>	>>>	>>>	>>>	
GAPGP08U	12:58	7/5/2023	0	1.1	19.6	79.3	0	0.02	>>>	>>>	>>>	>>>	
GAPGP005	13:08	7/5/2023	0	0	20.8	79.2	0	0.18	>>>	>>>	>>>	>>>	
GAPGP006	13:14	7/5/2023	0	1.2	19.4	79.4	0	0	>>>	>>>	>>>	>>>	
GAPGP007	13:18	7/5/2023	0	1.3	19.9	78.8	0	0.07	>>>	>>>	>>>	>>>	
GAPGP001	13:24	7/5/2023	0	1	20.2	78.8	0	0.01	>>>	>>>	>>>	>>>	

Filename: GP230705.xlxs