Spokane County
PUBLIC WORKS

April 28, 2022

Department of Ecology
Attn: Bill Fees
4601 N. Monroe St., Suite 202
Spokane, WA 99205-1295

RE: Greenacres Landfill Groundwater Monitoring Annual Progress Report

Dear Bill,

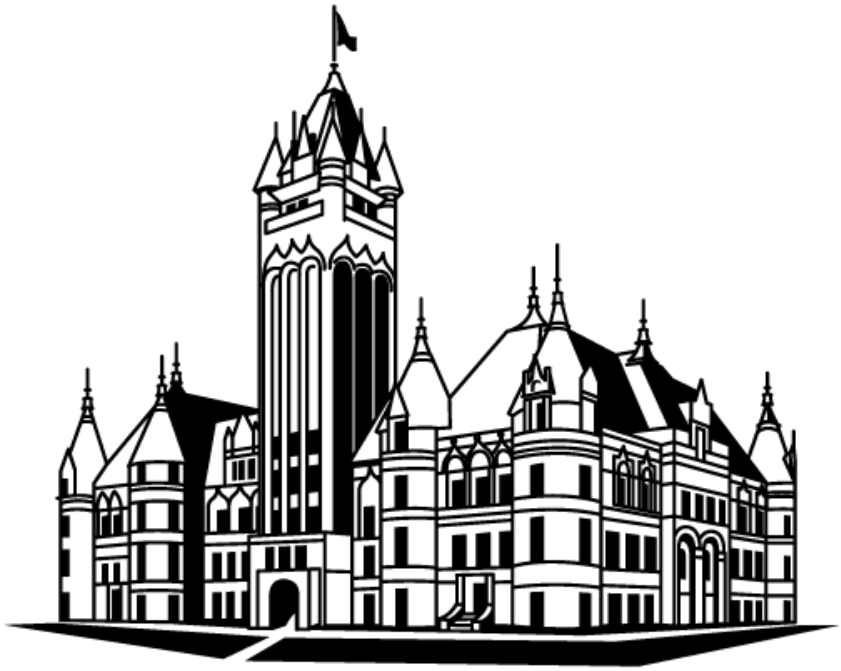
Enclosed is a copy of the Greenacres Groundwater Monitoring Annual Progress Report for November 2021. If you have any comments or questions, please call me at (509) 238-6607.

Sincerely,

Austin Stewart
Water Resource Specialist

Enc.

GREENACRES LANDFILL ANNUAL PROGRESS REPORT
NOVEMBER 2021



Spokane County

WASHINGTON

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1. INTRODUCTION

GREENACRES LANDFILL INFORMATION SUMMARY

SITE:	Greenacres Landfill Section 16, T 25N, R 45E in Spokane County, WA
REPORTING PERIOD:	December 1, 2020 through November 30, 2021.
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 propane-assisted flare station.
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 semi-annual to annual. Annual sampling was performed in November 2021. 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

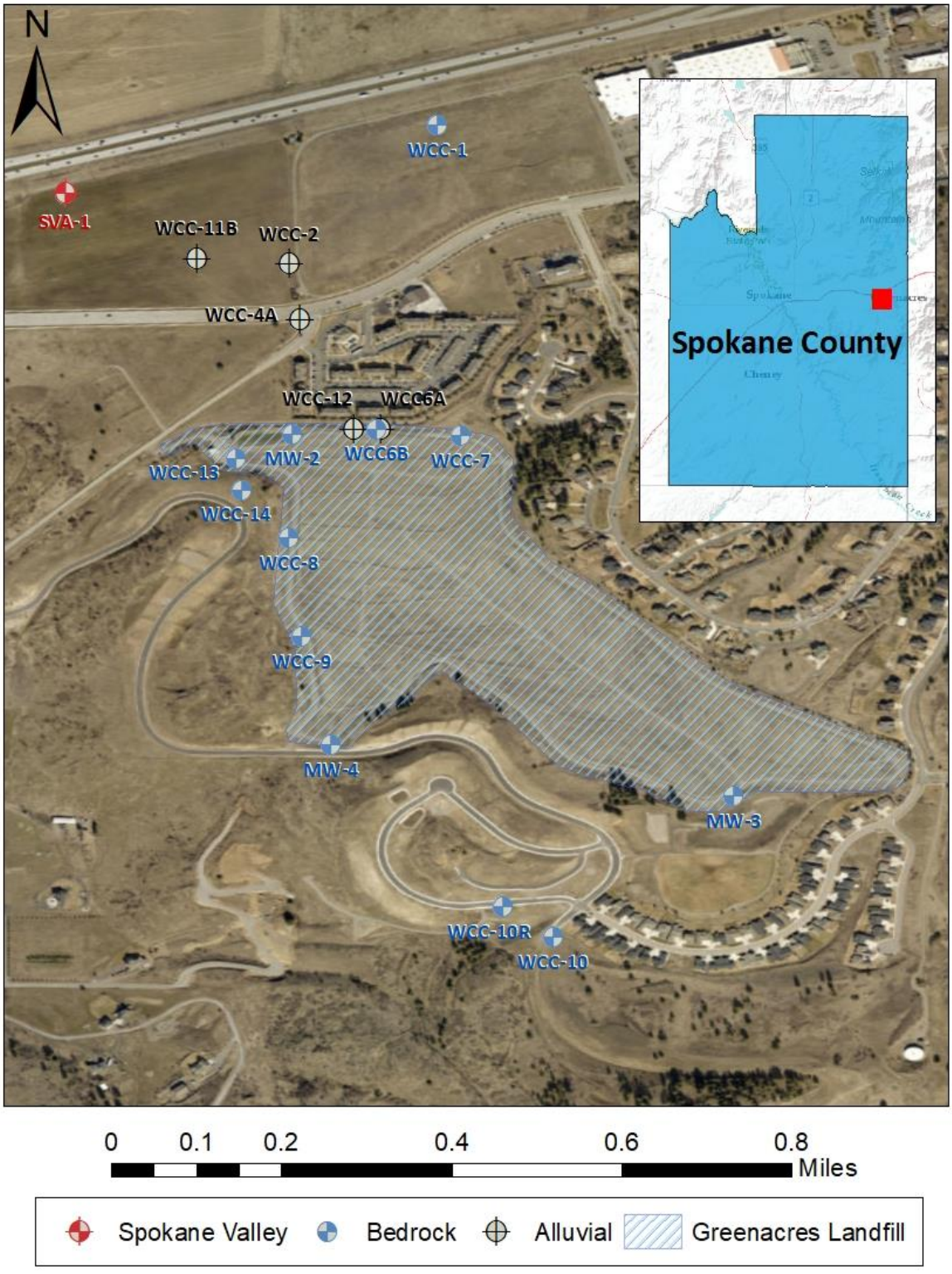


Figure 1-1: Greenacres Landfill Site Map

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

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 November 2021 sampling event are presented in *Appendix A: Groundwater Sampling Field Sheets*. The highest turbidity values were seen in wells WCC-10R (bedrock) and WCC-12 (alluvial). Highest conductivities found were present in WCC-12 (alluvial) and WCC-7 (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 3 alluvial wells and 1 bedrock well. Analytes that exceeded the cleanup criteria during this reporting period include PCE, VC, Manganese, and Arsenic. WCC-10R manganese concentrations exceeded the criteria during this reporting period. WCC-10R is the most upgradient well located in the Greenacres landfill vicinity, and the increasing concentration trend/criteria exceedance for Manganese in this well seems to be coincidental to the recent construction occurring in close proximity to the monitoring well. Spokane County collected an additional sample to confirm manganese concentrations for WCC-10R. Sample results for the 2nd manganese analysis (collected on 1/5/2022) are presented in the "Summary" on page 2-4. Detection/exceedance geospatial maps for analytes that exceeded the criteria are presented in Figure 2-2 through Figure 2-5.

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 shows decreasing trends for PCE and TCE. WCC-12 shows 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 decreasing trends, which includes: 1,2-DCA, cis-1,2-DCE, PCE, TCE, VC, and Manganese. Out of the 4 total analytes that exceeded the cleanup criteria during this reporting period, 3 of them (PCE, VC, and Manganese) 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 shows 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 2-6 through Figure 2-10 present time-series plots for alluvial aquifer well analyte concentrations. Time-series plots for bedrock well analyte concentrations are shown in Figure 2-16 through Figure 2-20. Laboratory analytical results are presented in *Appendix B: Laboratory Results*.

VOC's:
The alluvial aquifer wells had detectable concentrations for 1,2-DCA, CFC-12, cis-1,2-DCE, PCE, TCE, ad VC during the November sampling event. Alluvial aquifer well WCC-11B was the only well with PCE concentrations remaining above the criteria. Low concentrations of PCE were detected in the bedrock aquifer well WCC-7, and the alluvial aquifer well WCC4A. Low concentrations of cis-1,2-Dichloroethene were detected in alluvial wells WCC-12 and WCC-4A. Vinyl chloride concentrations in WCC-12 exceeded criteria. There were detections for TCE in alluvial well WCC-11B, but the concentrations continue to remain under the criteria. All detectable VOC concentrations for all Greenacres monitoring wells have shown decreases in concentration over the last 5 years, with the exception of 1,2-DCA, cis-1,2-DCE, and VC for alluvial well WCC-12.

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.

Metals:
Alluvial aquifer well WCC-12 exhibited detectable concentrations of arsenic and Manganese over the cleanup criteria for the November sampling event. Alluvial aquifer monitoring wells WCC-2/WCC-4A and bedrock monitoring well WCC-10R had detectable concentrations of manganese during this reporting period, with WCC-2 and WCC-10R concentrations exceeding criteria. Lead, antimony, and chromium were not found in any of the monitoring wells sampled during this reporting period. Overall, most wells that exhibit detectable concentrations for manganese around the Greenacres landfill appear to have slight increasing concentration trends, with the exception of alluvial well WCC-2

SUMMARY

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. It appears that most detectable concentrations for analytes in the alluvial and bedrock monitoring wells appear to be on a decreasing trend, with the exception of manganese, cis-1,2-DCE, and VC.

DATA VALIDATION

Analytical data for the November 2021 sampling event was reviewed using quality control (QC) criteria established in the Greenacres Landfill Sampling and Analysis Plan (SAP). The shipping service (UPS) that delivered the metals/conventionals samples to SVL Laboratory for analysis delivered the samples late/past the N-nitrate holding time. Results for all qualified data during this reporting period are presented below. Furthermore, Spokane County collected an additional sample to confirm manganese concentrations for WCC-10R due to the upgradient nature of the well and manganese concentrations exceeding criteria. The manganese re-sample results for WCC-10R are presented below.

Qualified Data:

StationID	SampleDate	Analyte	SampleID	RptLimit	Units	Result	Qualifier	Type
WCC10R	11/2/2021	N-Nitrate	W-WCC10R-211102	0.05	mg/L	1.07	J	C
WCC2	11/2/2021	N-Nitrate	W-WCC2-211102	0.05	mg/L	1.39	J	C
WCC8	11/2/2021	N-Nitrate	W-WCC8-211102	0.05	mg/L	1.3	J	C
WCC9	11/2/2021	N-Nitrate	W-WCC9-211102	0.05	mg/L	2.03	J	C

WCC10-R re-sample laboratory results:

Field Parameters						
StationID	Unit	SampleDate	Temp*	PH*	Conductivity*	Turbidity*
WCC10R	Bedrock	1/5/2022	11.50	7.79	320.00	6.70

Manganese Laboratory Results						
SampleID	Matrix	SampleDate	SampleTime	ReportingLimit	Result	Units
WCC10R	Water	01/05/2022	10:45	0.0080	0.0485	mg/L
WCC10R Dup.	Water	01/05/2022	10:29	0.0080	0.0484	mg/L

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

Greenacres Landfill Groundwater Elevations

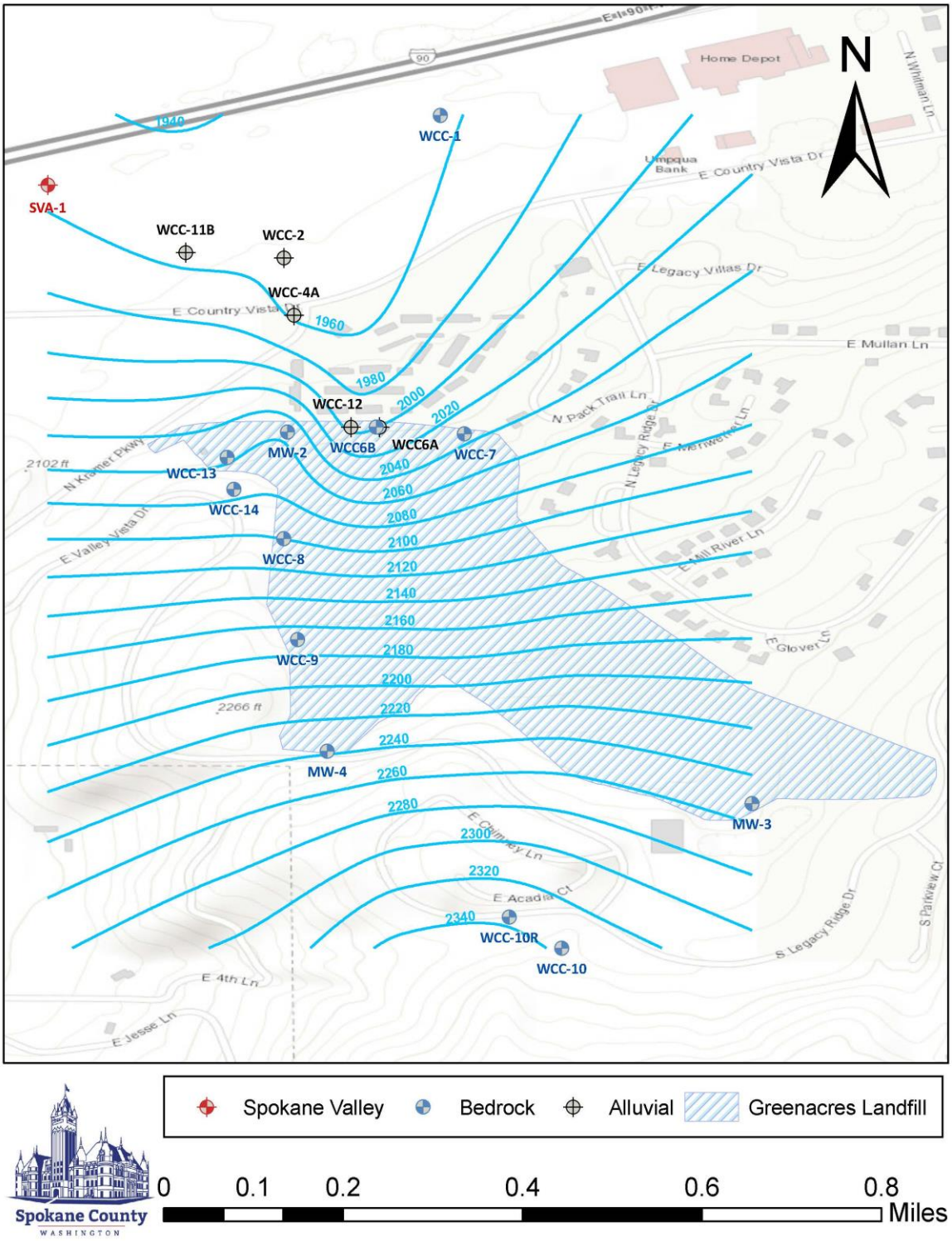
Table 2-1 Greenacres Landfill Groundwater Elevation Data

StationID	Unit	11-2021*
SVA1	Alluvial Aquifer	1954.95
WCC11A	Alluvial Aquifer	1955.08
WCC11B	Alluvial Aquifer	1955.53
WCC12	Alluvial Aquifer	1996.25
WCC2	Alluvial Aquifer	1955.91
WCC4A	Alluvial Aquifer	1957.89
WCC6A	Alluvial Aquifer	2000.35
MW2	Bedrock Aquifer	2053.42
WCC1	Bedrock Aquifer	1956.39
WCC10R	Bedrock Aquifer	2336.35
WCC13	Bedrock Aquifer	2056.89
WCC6B	Bedrock Aquifer	2030.33
WCC7	Bedrock Aquifer	2033.77
WCC8	Bedrock Aquifer	2099.60
WCC9	Bedrock Aquifer	2169.22

*Water Elevations: ft above MSL

Greenacres Estimated Groundwater Contours

Figure 2-1: Greenacres Landfill Estimated Groundwater Contours – 2021



Greenacres Landfill Field Parameters

Table 2-2 Greenacres Landfill Annual Monitoring Well Field Parameters

StationID	Unit	SampleDate	Temp*	PH*	Conductivity*	Turbidity*
SVA1	Alluvial Aquifer	11/2/2021	11.5	7.92	294	0.2
WCC11B	Alluvial Aquifer	11/2/2021	11.4	7.51	773	0.2
WCC12	Alluvial Aquifer	11/2/2021	14.5	6.67	996	1.1
WCC2	Alluvial Aquifer	11/2/2021	9.6	7.49	431	0.4
WCC4A	Alluvial Aquifer	11/2/2021	10.2	6.91	660	0.41
WCC1	Bedrock Aquifer	11/2/2021	11.5	8.02	442	0.4
WCC10R	Bedrock Aquifer	11/2/2021	11.6	7.67	222	50.6
WCC7	Bedrock Aquifer	11/2/2021	12	7.49	795	0.1
WCC8	Bedrock Aquifer	11/2/2021	11	6.84	130	0.7
WCC9	Bedrock Aquifer	11/2/2021	11.3	6.45	125	0.1

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

Greenacres Landfill Criteria Exceedances

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

StationID	Unit	SampleDate	Concentration	Criteria	units	Analyte	Type
WCC10R	Bedrock Aquifer	11/2/2021	0.0622	0.05	mg/L	Mn	I
WCC11B	Alluvial Aquifer	11/2/2021	7.24	5	ug/L	PCE	V
WCC12	Alluvial Aquifer	11/2/2021	0.0423	0.005	mg/L	As	I
WCC12	Alluvial Aquifer	11/2/2021	1.77	0.05	mg/L	Mn	I
WCC12	Alluvial Aquifer	11/2/2021	3.6	1	ug/L	VC	V
WCC2	Alluvial Aquifer	11/2/2021	0.0971	0.05	mg/L	Mn	I

Criteria Exceedances – Summary of changes from 2020 to 2021:

StationID	Unit	Analyte	Summary of change
WCC10R	Bedrock Aquifer	Mn	Increased from **no exceedance** in 2020 to **exceedance** in 2021

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
WCC11B	Alluvial Aquifer	11/2/2021		1.29		**7.24**	0.86	
WCC12	Alluvial Aquifer	11/2/2021	1.71		**5.74**			**3.6**
WCC4A	Alluvial Aquifer	11/2/2021		0.54	2.8	1.24		
WCC7	Bedrock Aquifer	11/2/2021				1.16		

*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	11/2/2021	1.07
WCC2	Alluvial Aquifer	11/2/2021	1.39
WCC8	Bedrock Aquifer	11/2/2021	1.3
WCC9	Bedrock Aquifer	11/2/2021	2.03

*Criteria exceedances are in **RED**

Greenacres Landfill Inorganic Detections

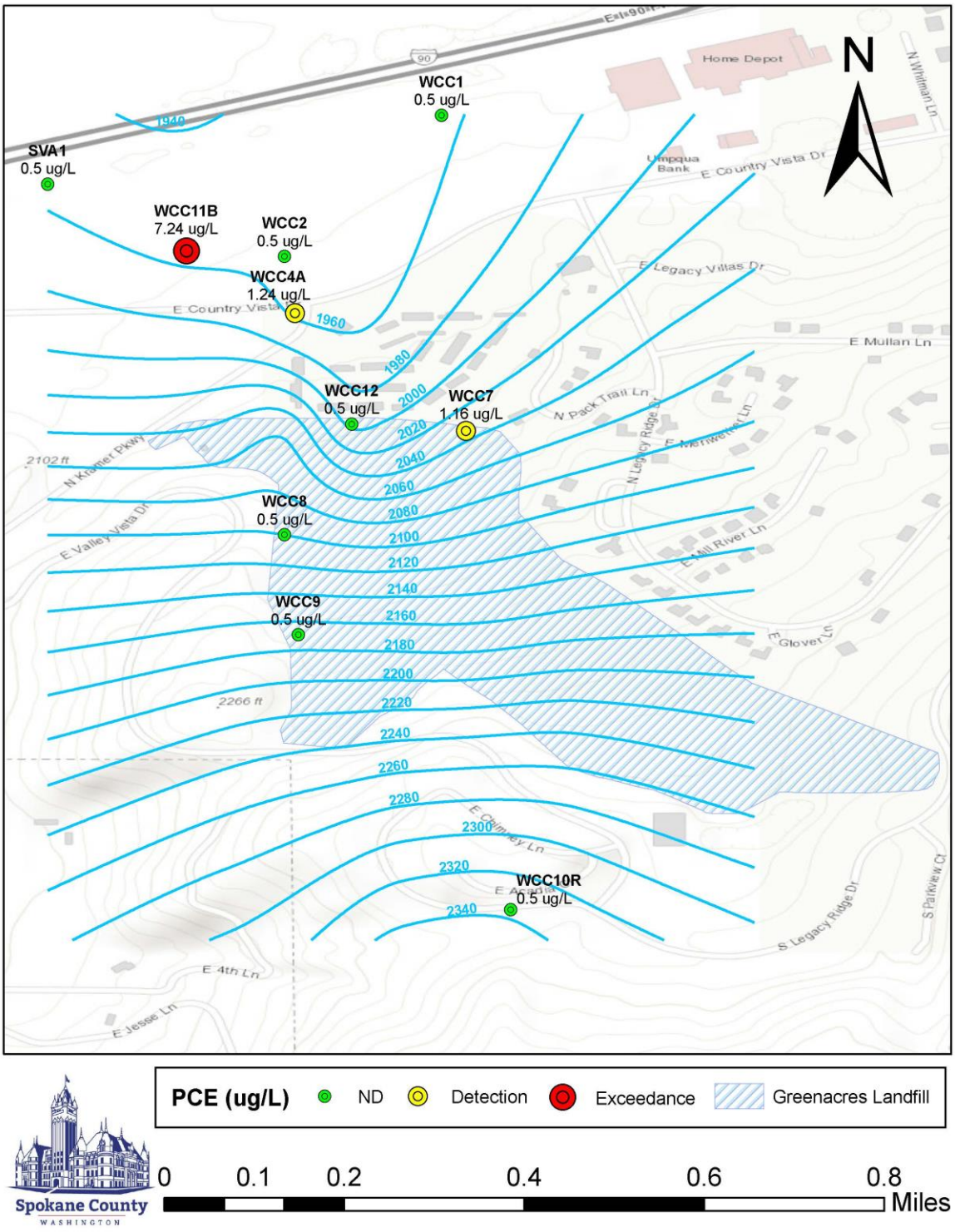
Table 2-7: Greenacres Landfill Annual Metals Results (mg/L)

StationID	Unit	SampleDate	As	Mn
WCC10R	Bedrock Aquifer	11/2/2021		**0.0622**
WCC12	Alluvial Aquifer	11/2/2021	**0.0423**	**1.77**
WCC2	Alluvial Aquifer	11/2/2021		**0.0971**
WCC4A	Alluvial Aquifer	11/2/2021		0.0272

*Criteria exceedances are in **RED**

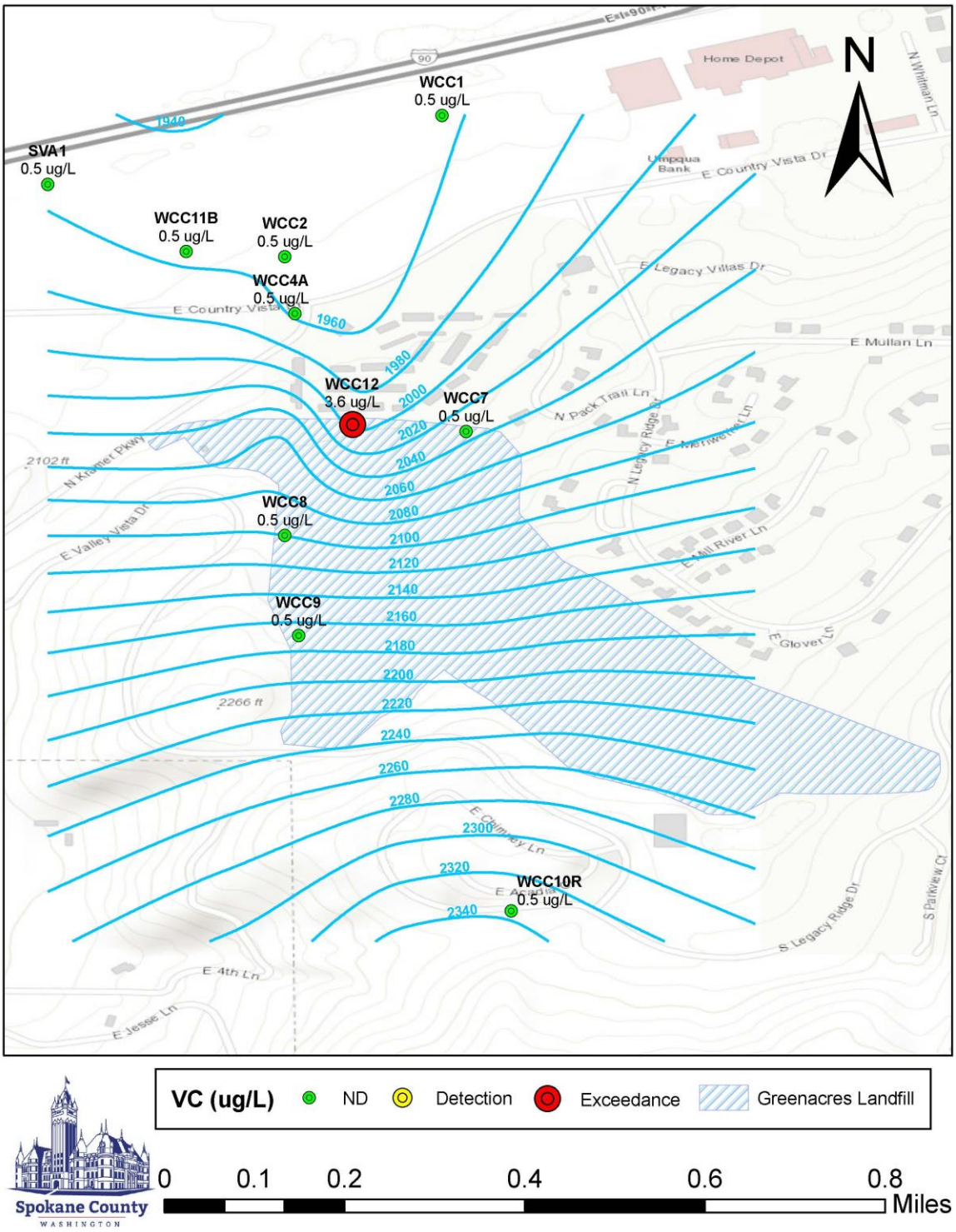
VOC detections/exceedance maps – Tetrachloroethene

Figure 2-2: Tetrachloroethene detections/exceedance map – 2021



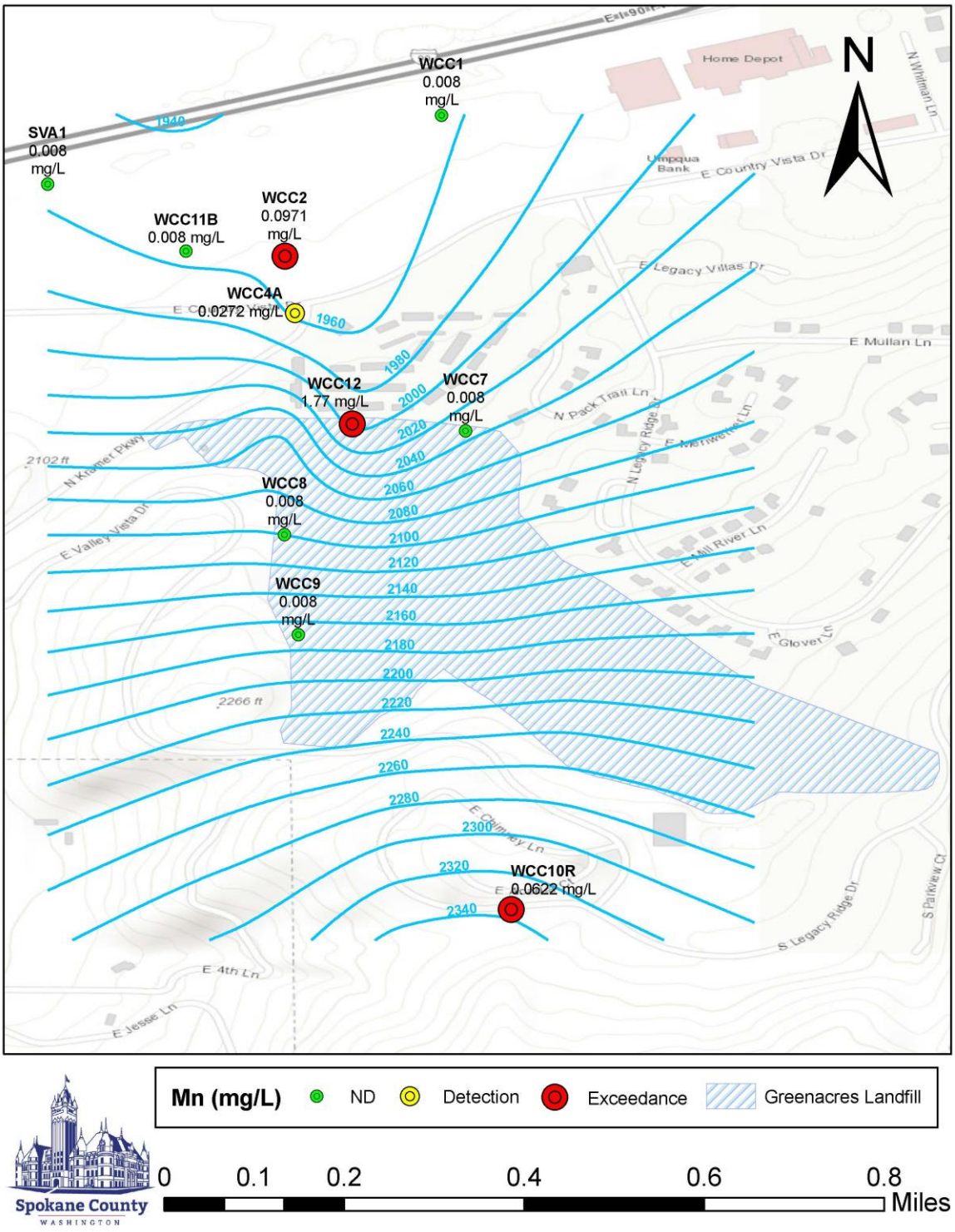
VOC Detections/Exceedance Maps – Vinyl chloride

Figure 2-3: Vinyl chloride detections/exceedance map - 2021



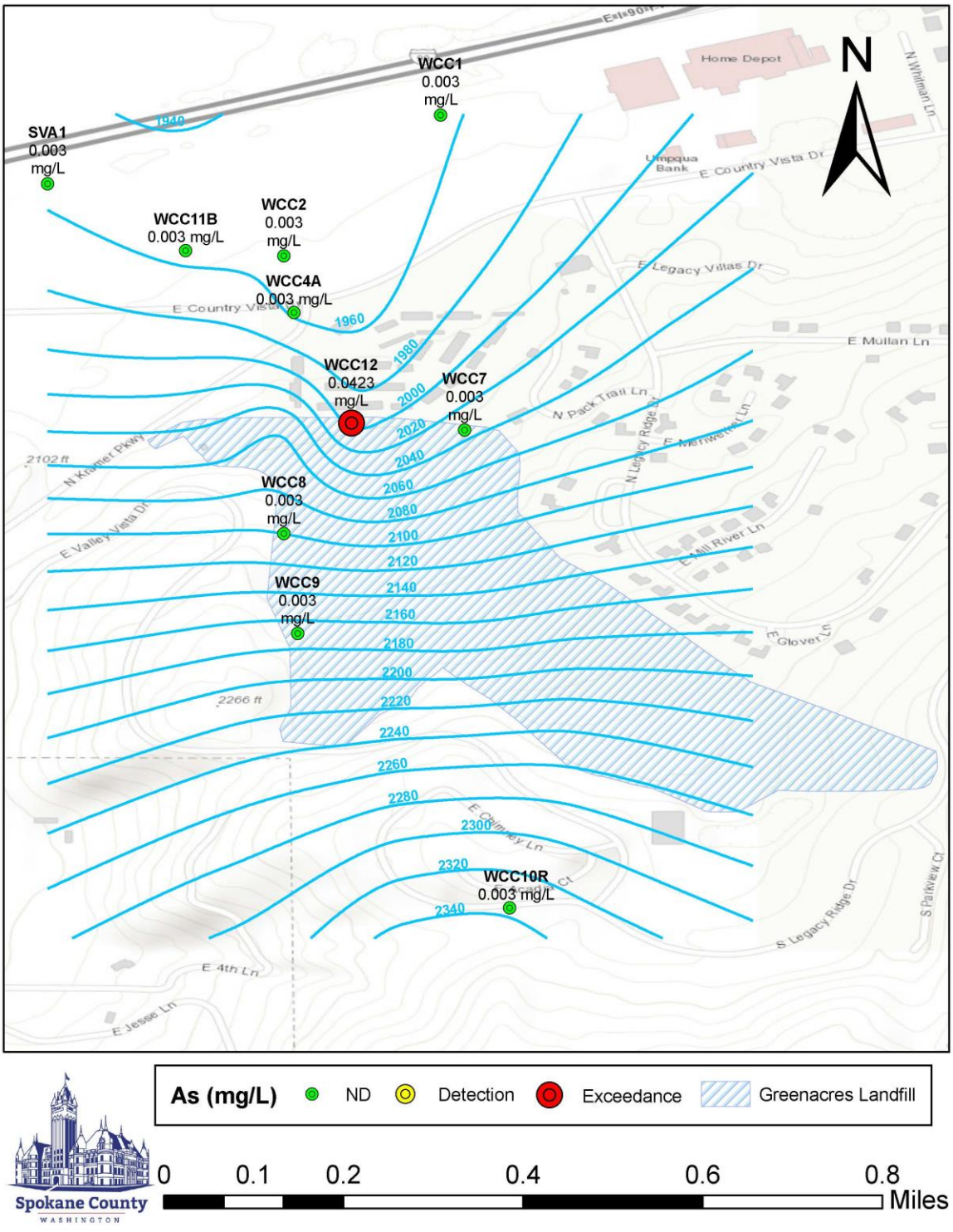
Inorganics Detections/Exceedance Maps – Manganese

Figure 2-4: Manganese detections/exceedance map – 2021



Inorganic Detections/Exceedance Maps – Arsenic

Figure 2-5: Arsenic detections/exceedance map – 2021



Greenacres Landfill Trend Analysis – 2021

Table 2-8: Greenacres Landfill Statistically Significant Trends (Sen's Test) 2021

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

Alluvial Monitoring Wells: VOCs/SVOCs Time-Series Graphs

Figure 2-6: Alluvial Wells – VOCs/SVOCs Concentration Graphs

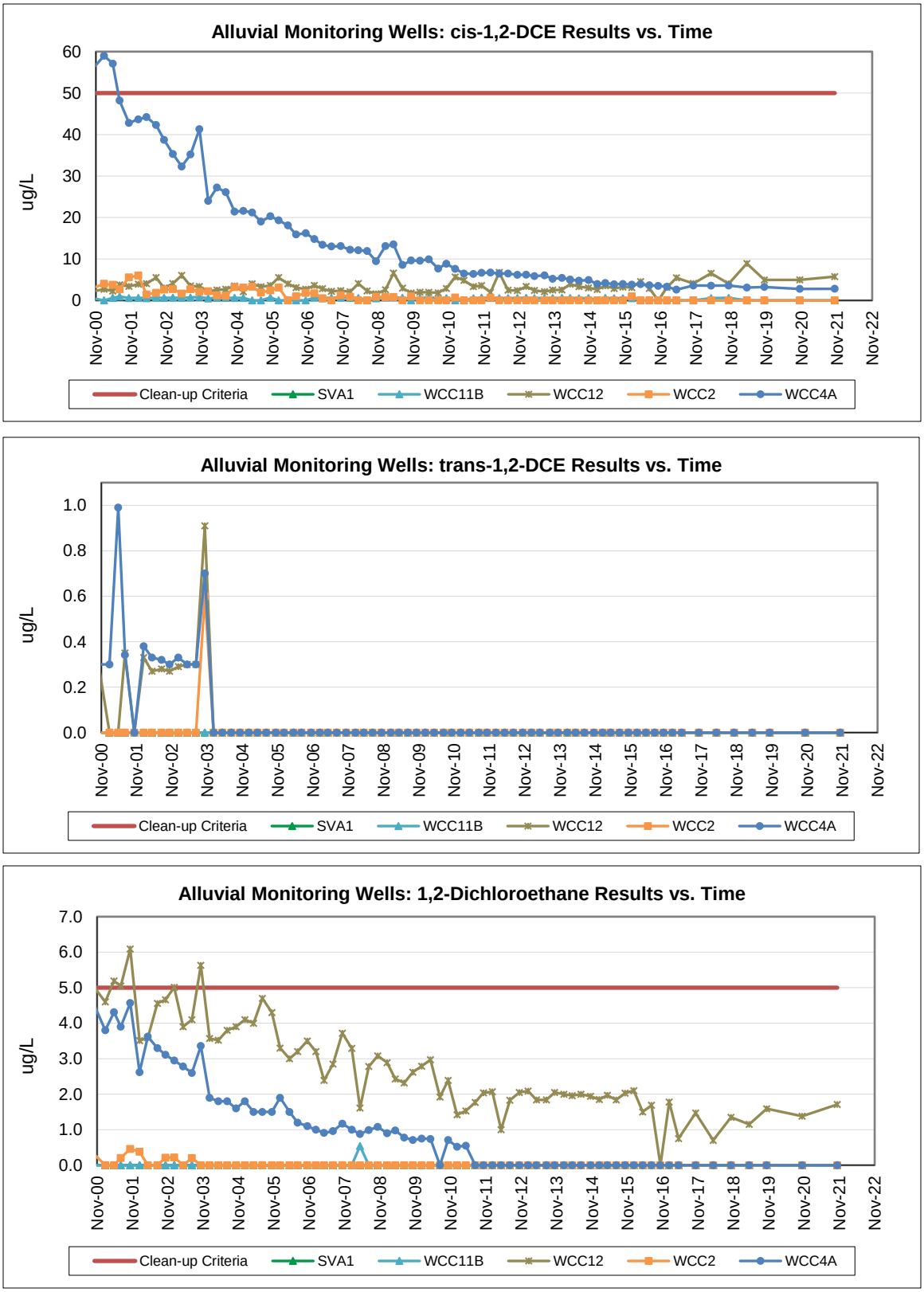
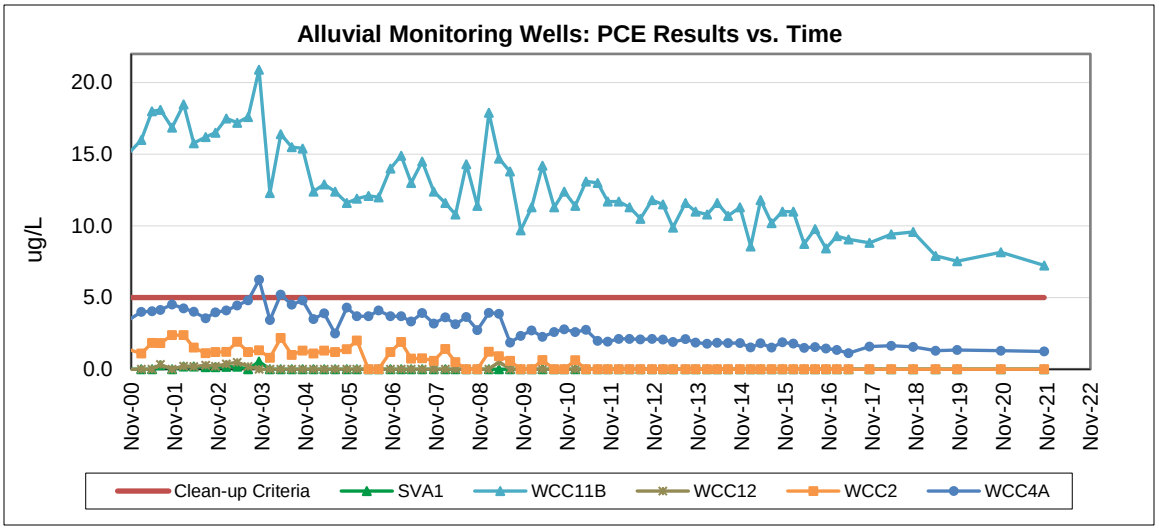
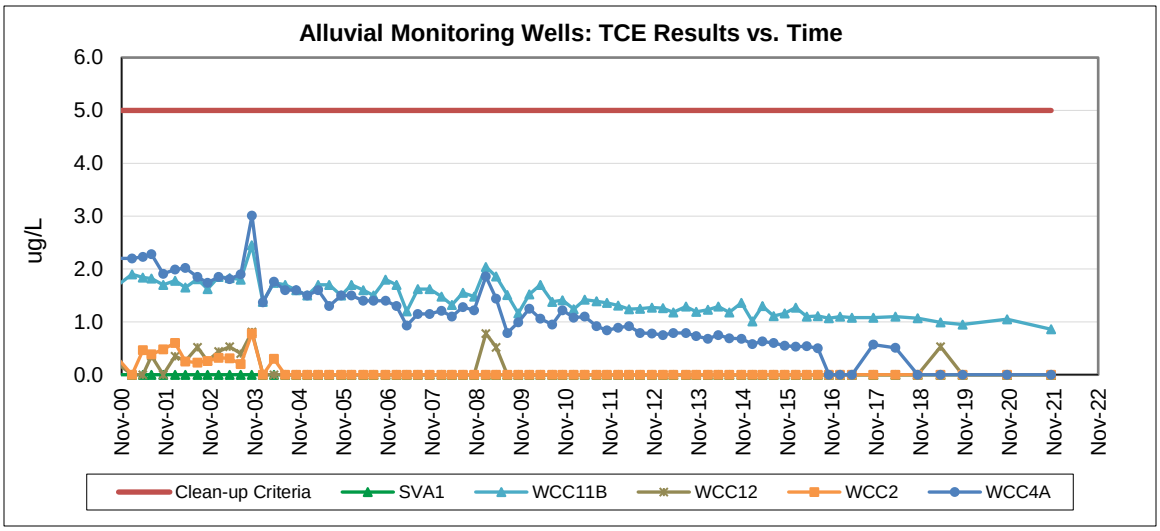


Figure 2-7: Alluvial Wells – VOCs/SVOCs Concentration Graphs (cont.)





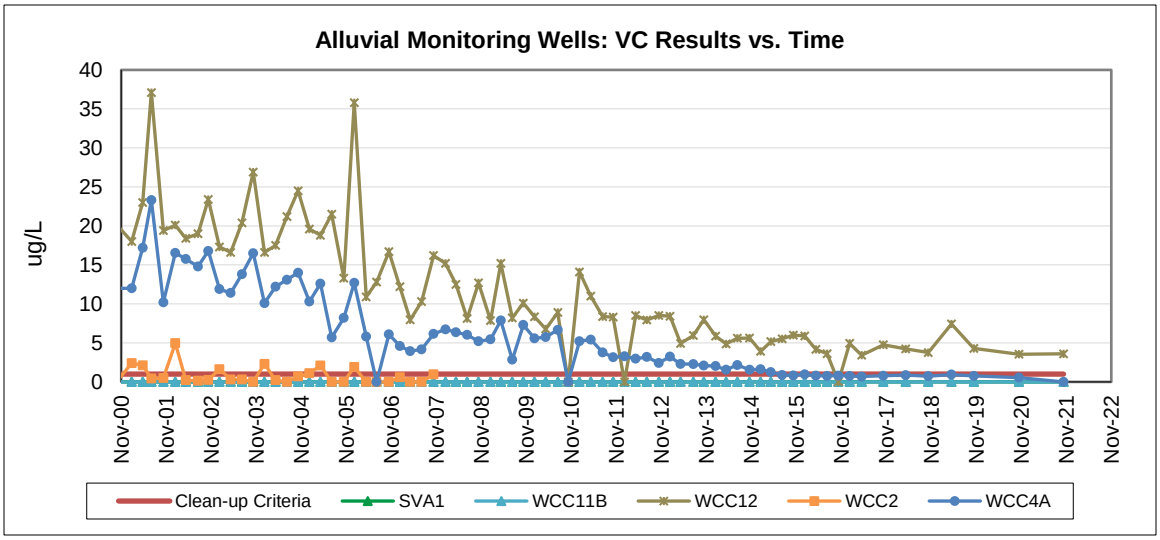
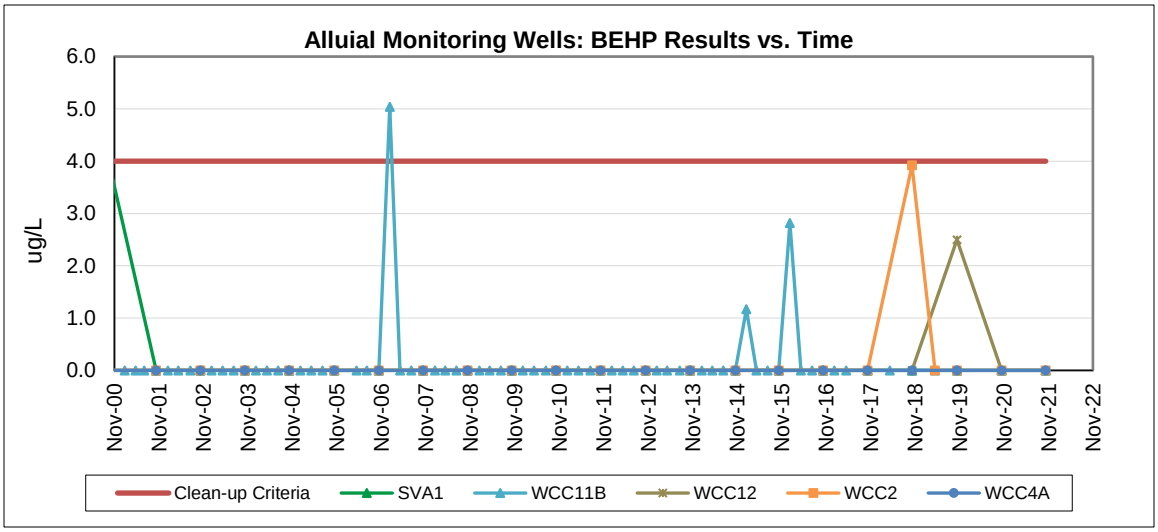
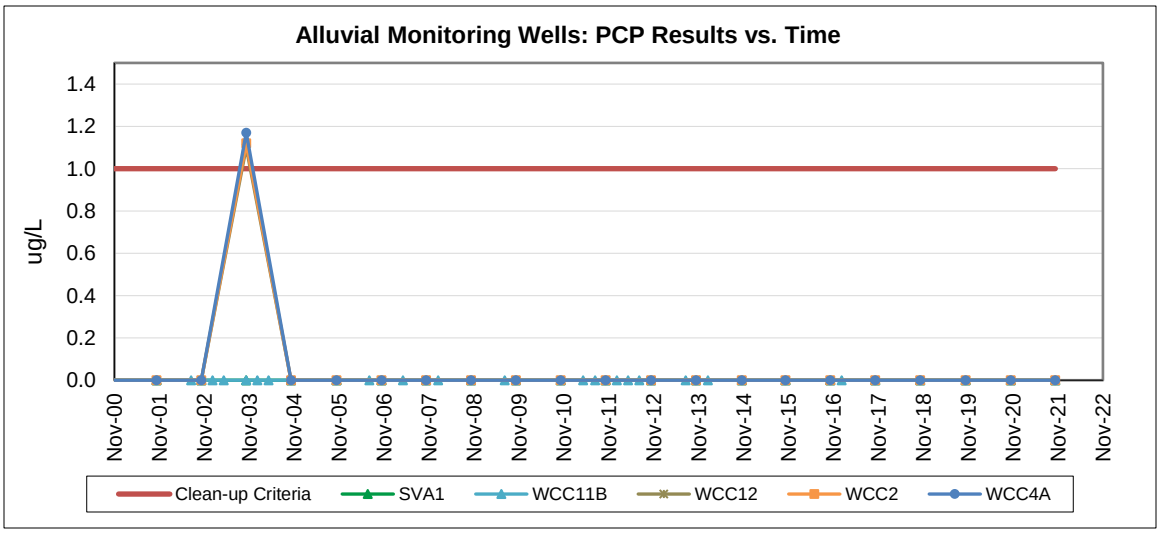


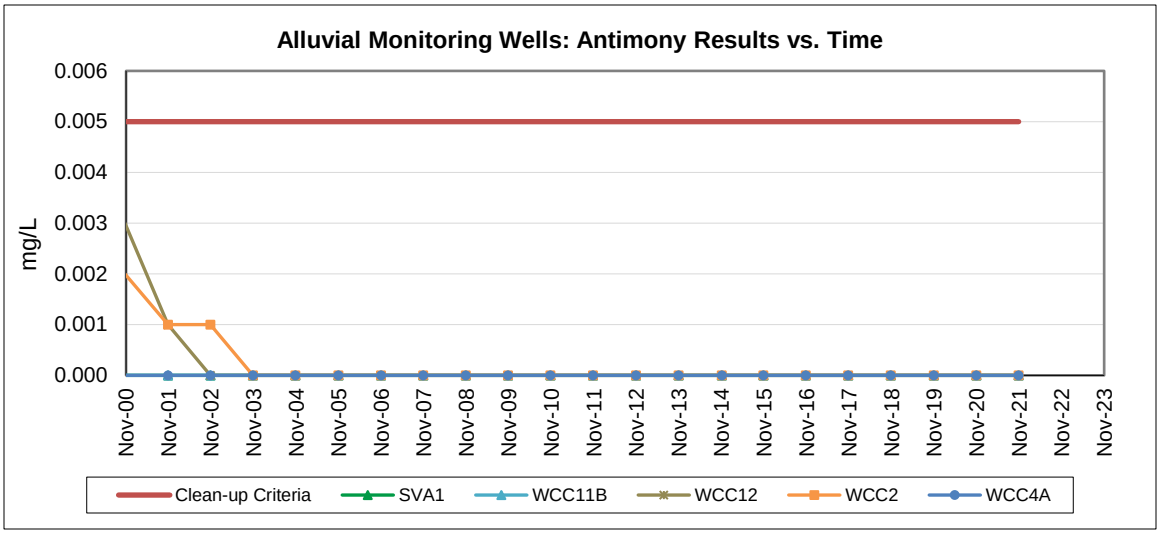
Figure 2-8: Alluvial Wells – VOCs/SVOCs Concentration Graphs (cont.)

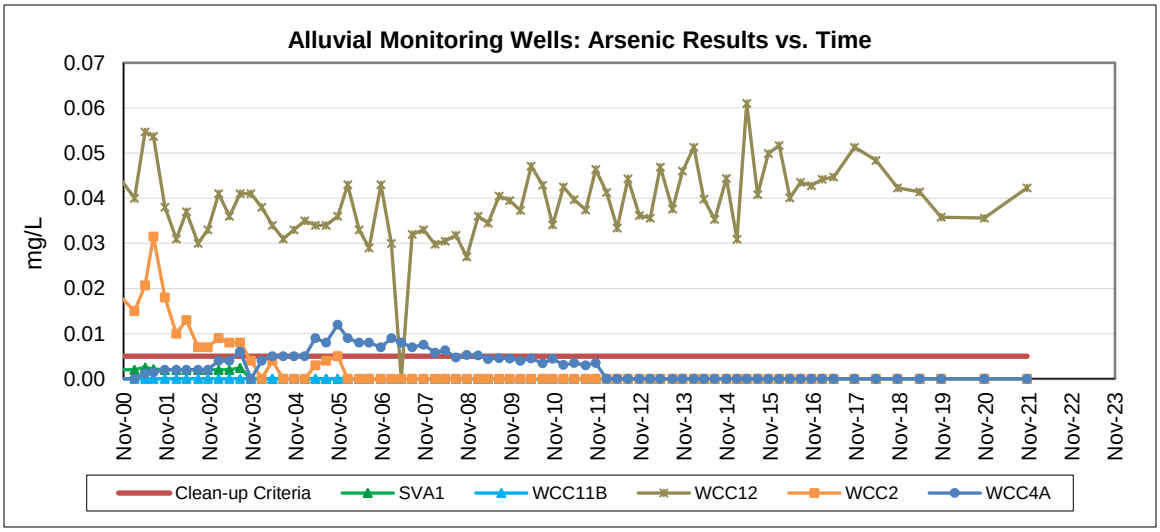




Alluvial Monitoring Wells: Inorganics Time-Series Graphs

Figure 2-9: Alluvial wells – Inorganics Concentration Graphs





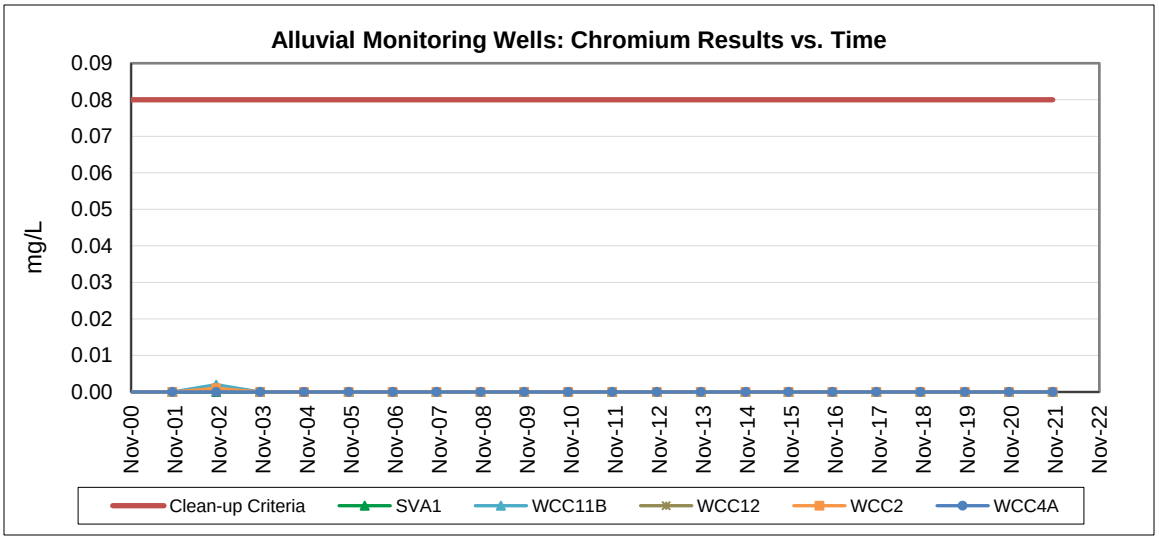
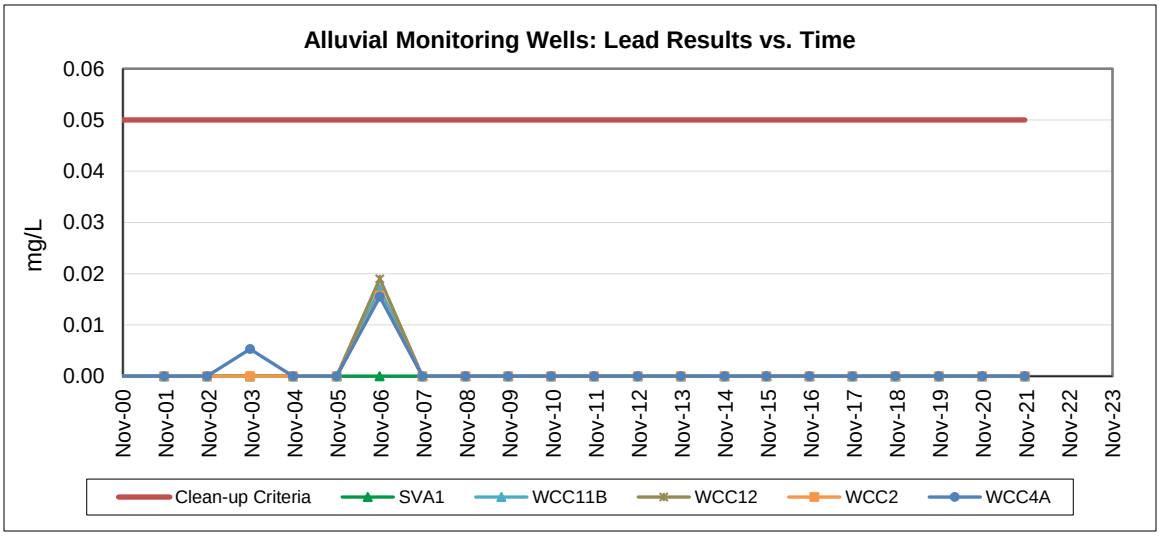
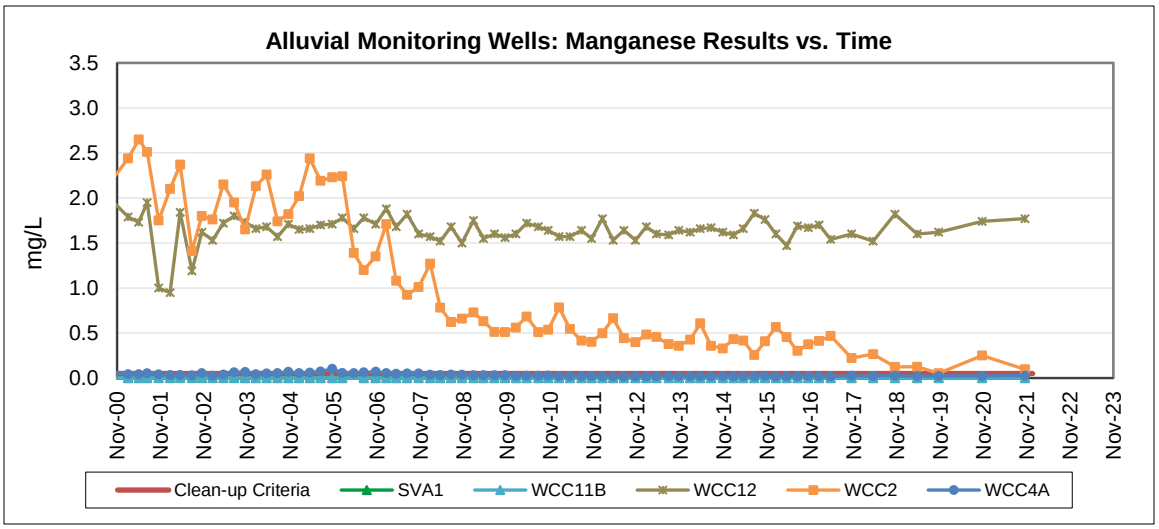


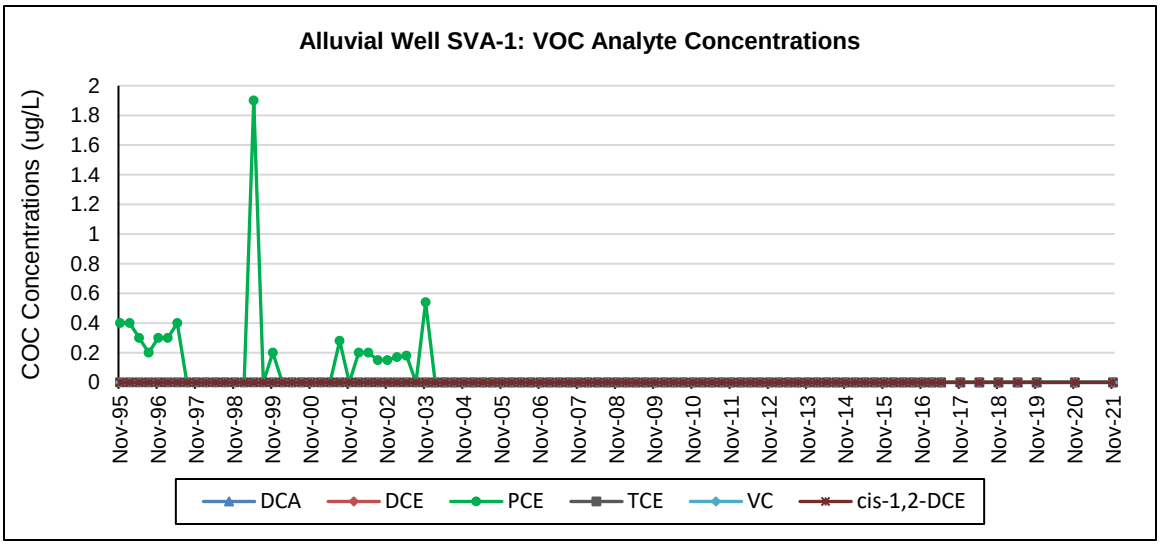
Figure 2-10: Alluvial Wells – Inorganics Concentration Graphs (cont.)

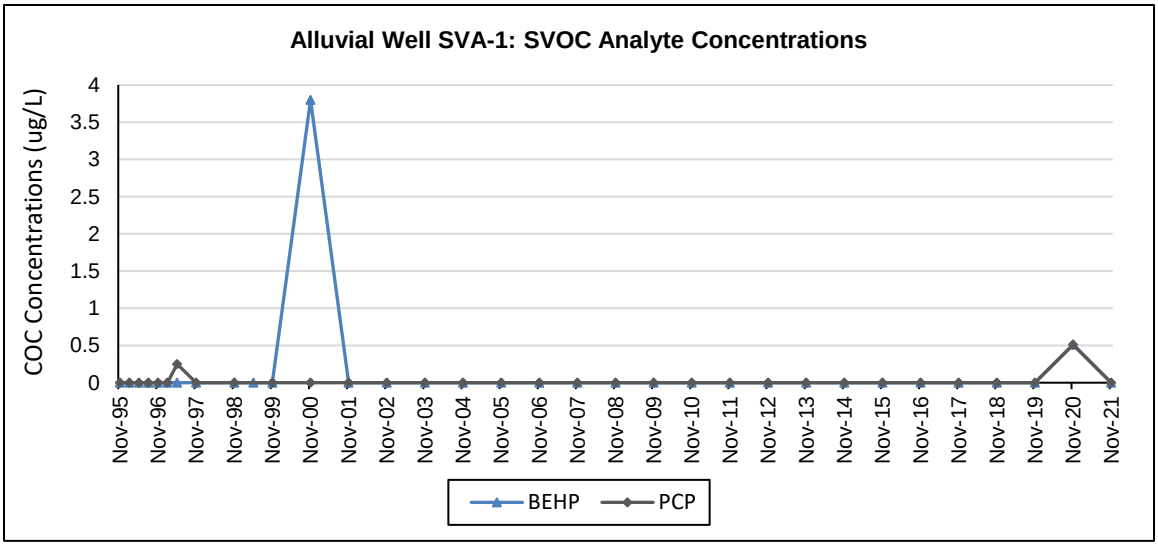




Individual Alluvial Monitoring Wells: Analyte Time-Series Graphs

Figure 2-11: Alluvial Well SVA-1 Analyte Concentration Graphs





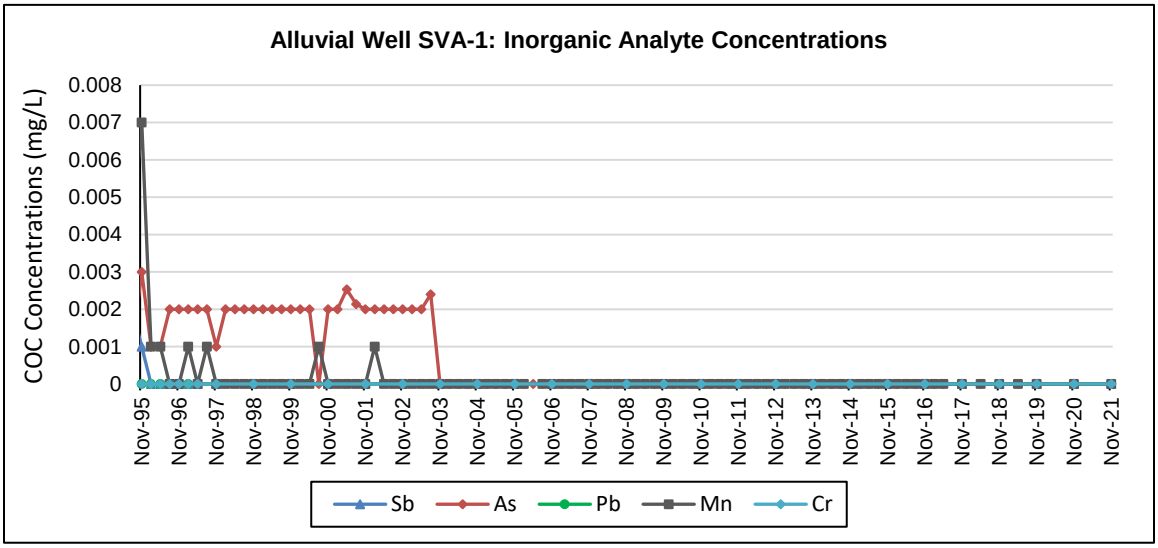
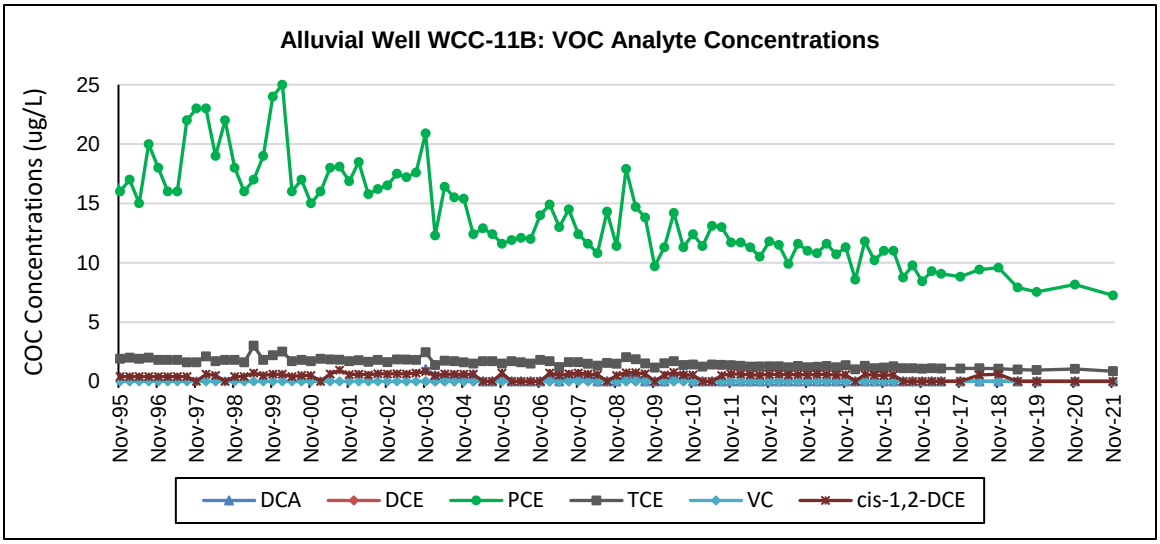
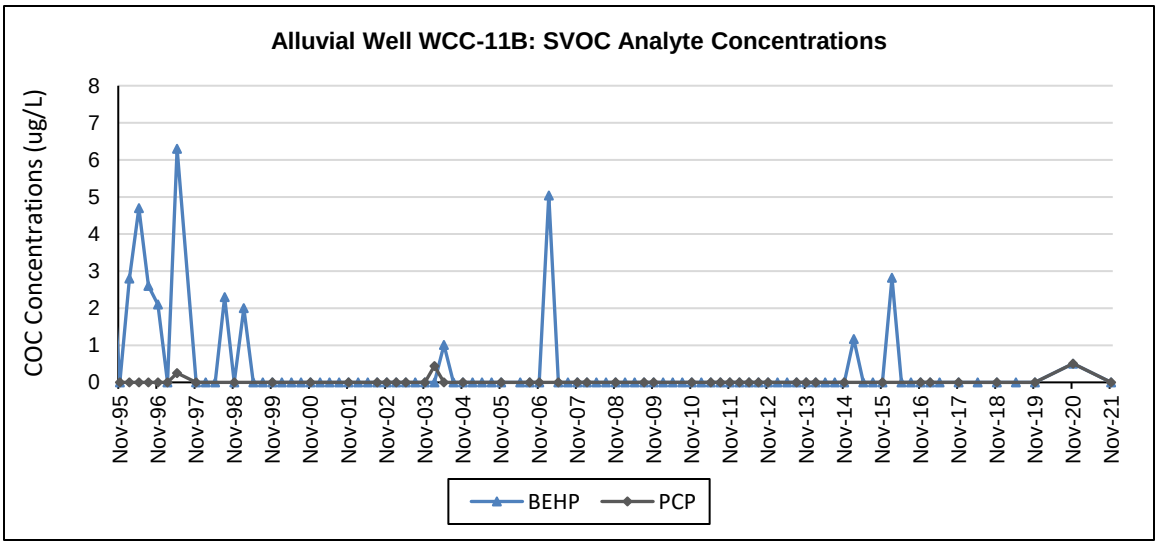


Figure 2-12: Alluvial Well WCC-11B Analyte Concentration Graphs





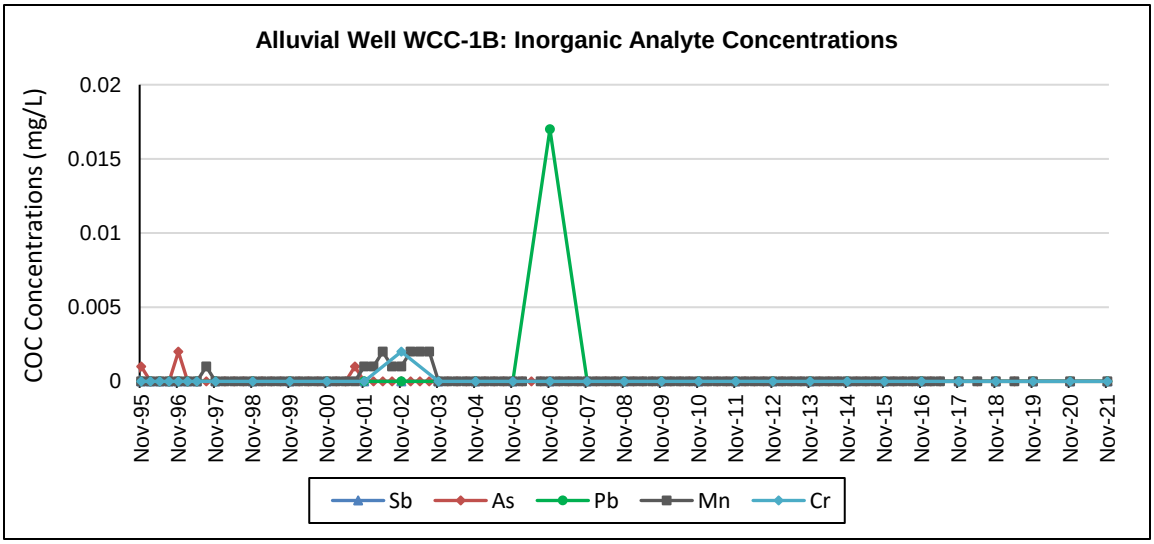
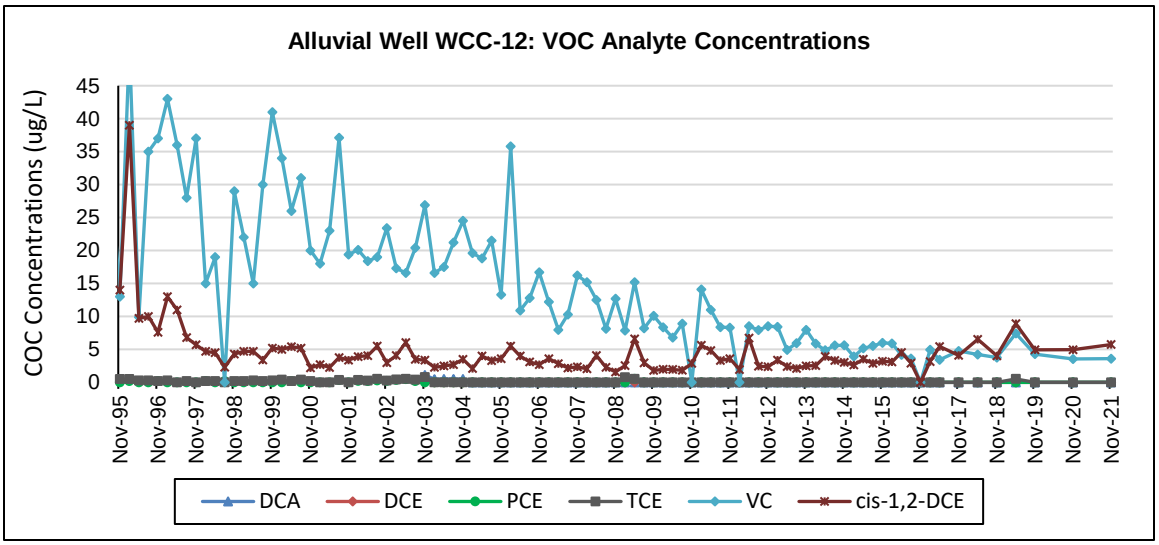
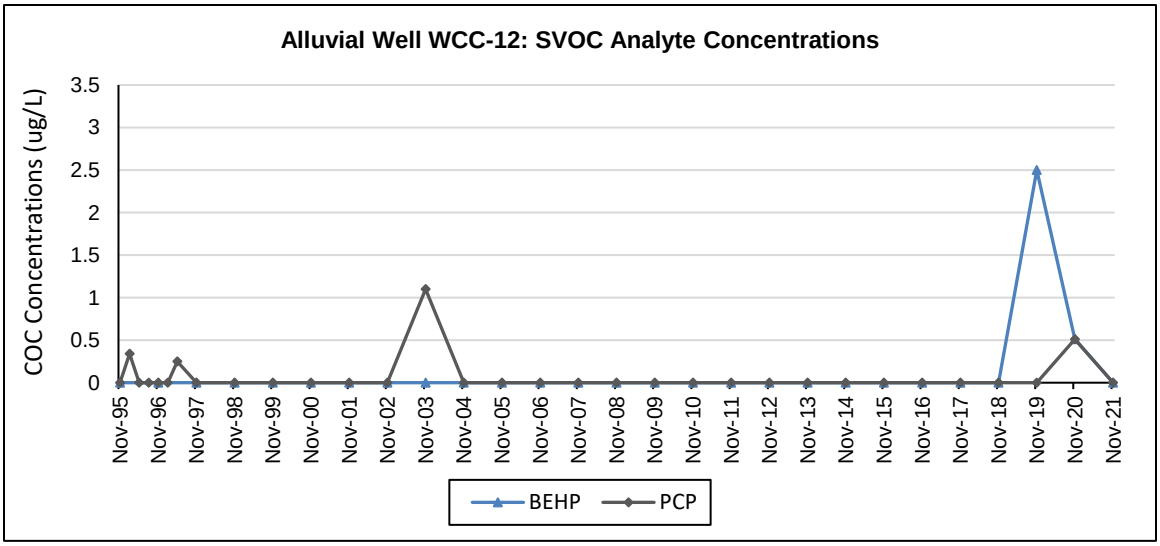


Figure 2-13: Alluvial Well WCC-12 Analyte Concentration Graphs





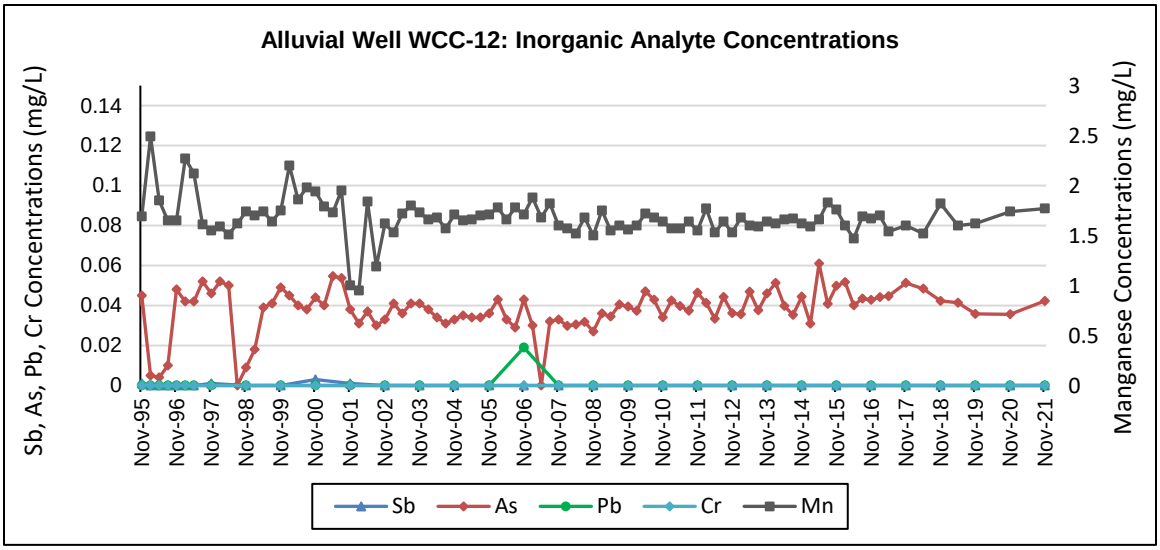
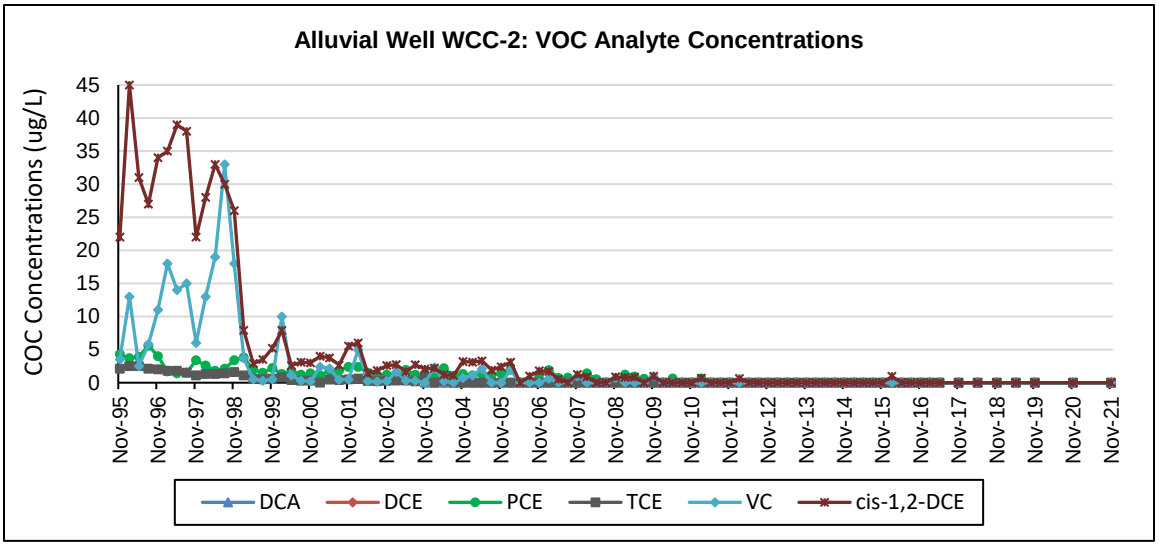
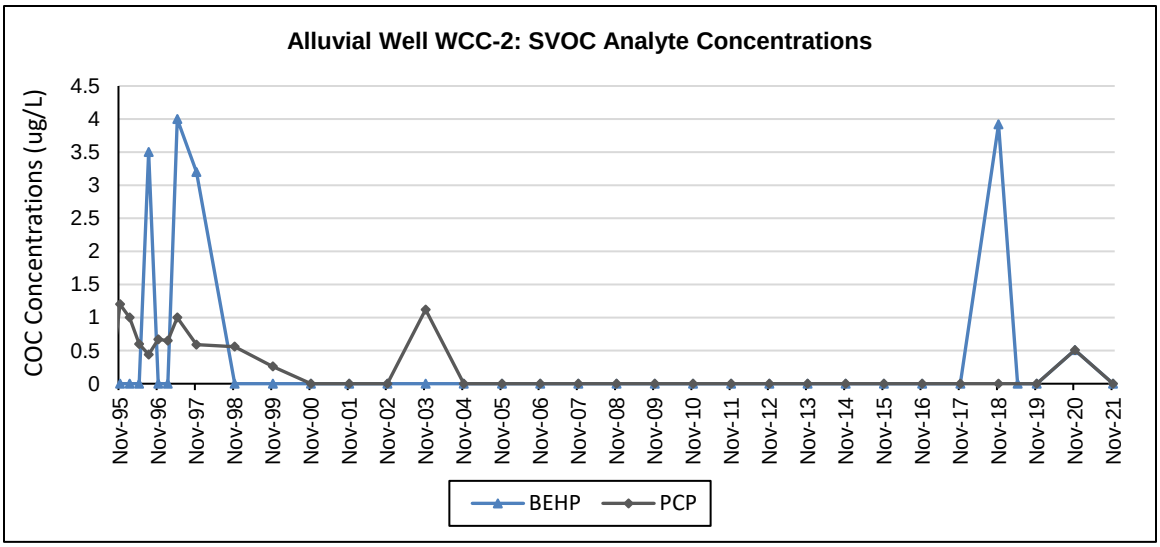


Figure 2-14: Alluvial Well WCC-2 Analyte Concentration Graphs





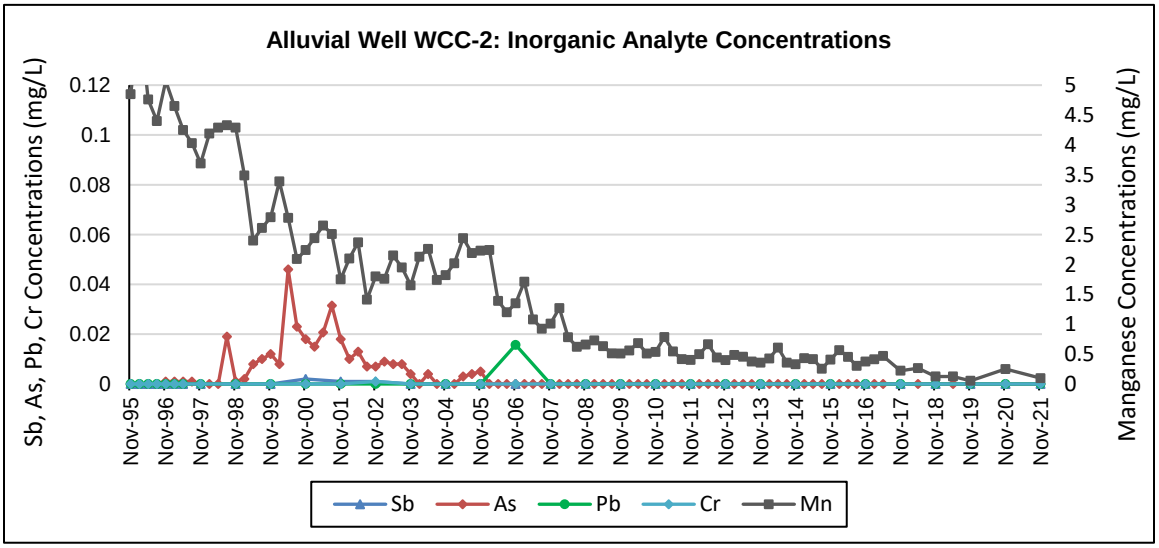
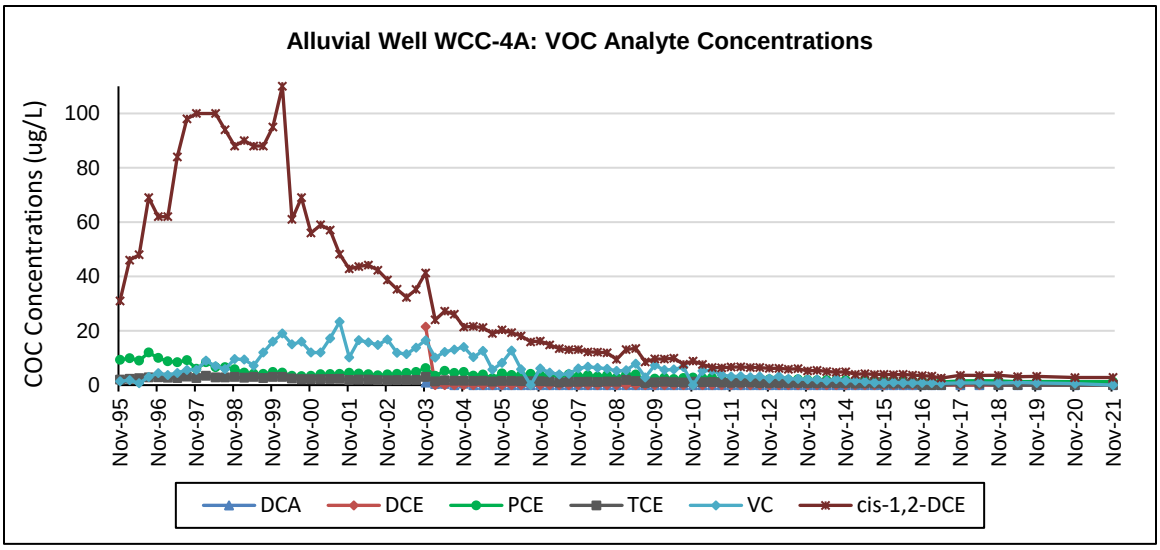
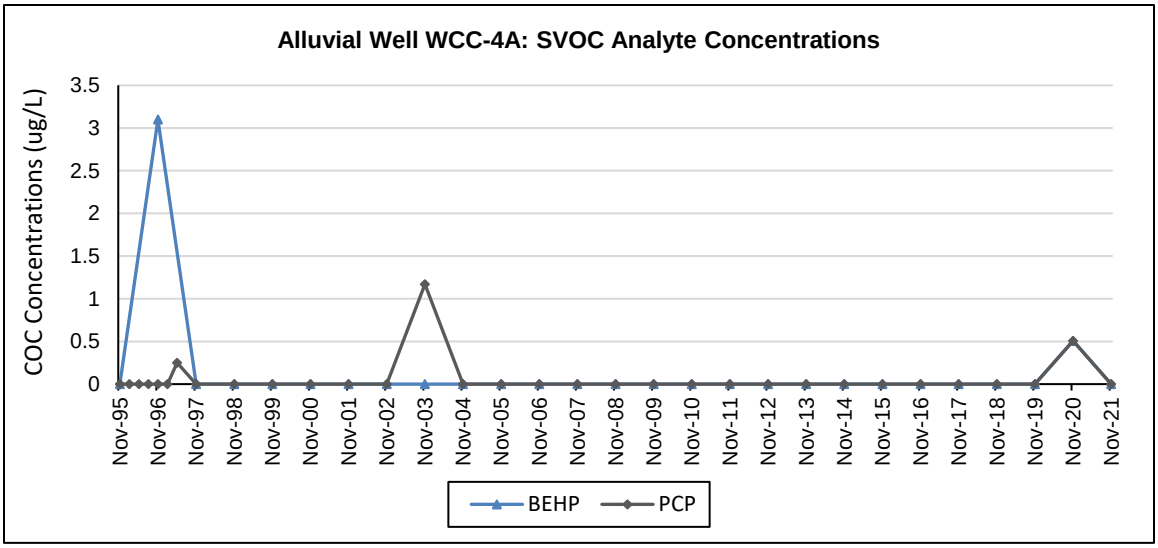
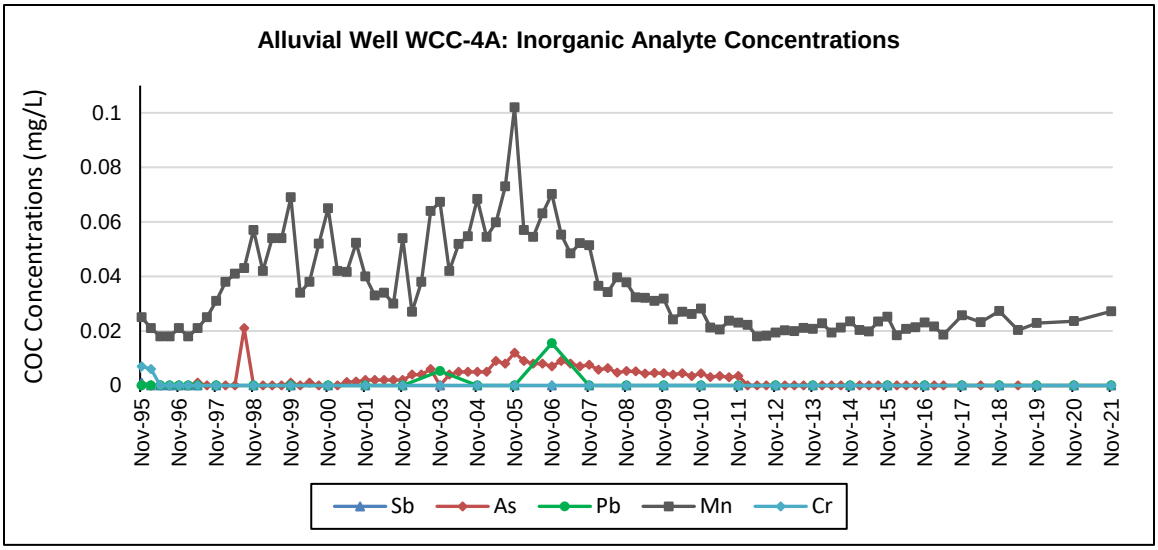


Figure 2-15: Alluvial Well WCC-4A Analyte Concentration Graphs







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

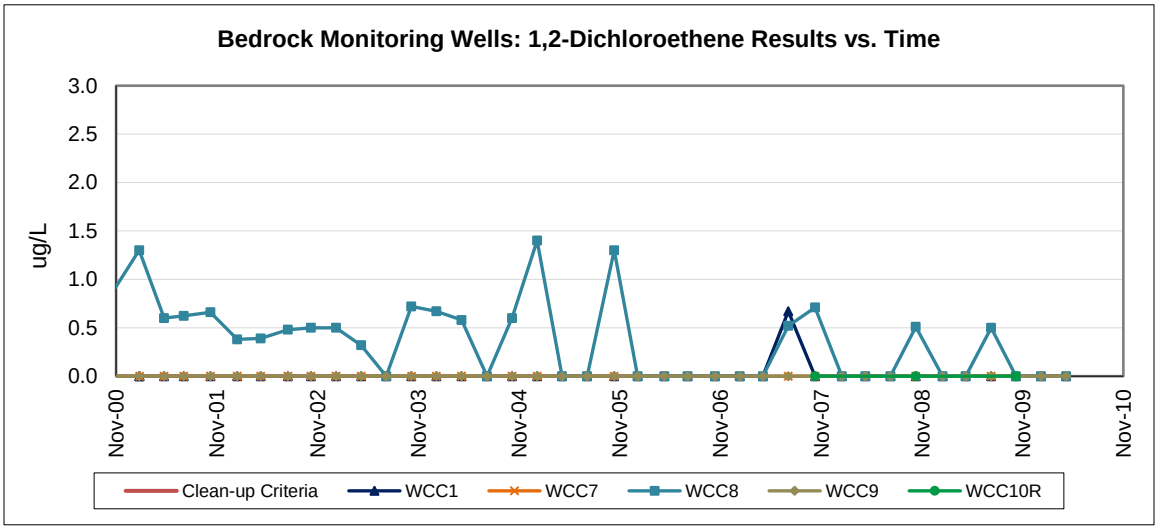
StationID	Unit	Analyte	- 5 Year Results	- 1 Year Results	Current Year Results	5-Year Difference	1-Year Difference	Units	AnalyteCat
WCC2	Alluvial Aquifer	NO3	1.2	1.71	1.39	0.19	-0.32	mg/L	C
SVA1	Alluvial Aquifer	As	0	0	0	0	0	mg/L	I
SVA1	Alluvial Aquifer	Cr	0	0	0	0	0	mg/L	I
SVA1	Alluvial Aquifer	Mn	0	0	0	0	0	mg/L	I
SVA1	Alluvial Aquifer	Pb	0	0	0	0	0	mg/L	I
SVA1	Alluvial Aquifer	Sb	0	0	0	0	0	mg/L	I
WCC11B	Alluvial Aquifer	As	0	0	0	0	0	mg/L	I
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	Sb	0	0	0	0	0	mg/L	I
WCC12	Alluvial Aquifer	As	0.0428	0.0356	0.0423	-0.0005	0.0067	mg/L	I
WCC12	Alluvial Aquifer	Cr	0	0	0	0	0	mg/L	I
WCC12	Alluvial Aquifer	Mn	1.67	1.74	1.77	0.1	0.03	mg/L	I
WCC12	Alluvial Aquifer	Pb	0	0	0	0	0	mg/L	I
WCC12	Alluvial Aquifer	Sb	0	0	0	0	0	mg/L	I
WCC2	Alluvial Aquifer	As	0	0	0	0	0	mg/L	I
WCC2	Alluvial Aquifer	Cr	0	0	0	0	0	mg/L	I
WCC2	Alluvial Aquifer	Mn	0.375	0.25	0.0971	-0.2779	-0.1529	mg/L	I
WCC2	Alluvial Aquifer	Pb	0	0	0	0	0	mg/L	I
WCC2	Alluvial Aquifer	Sb	0	0	0	0	0	mg/L	I
WCC4A	Alluvial Aquifer	As	0	0	0	0	0	mg/L	I
WCC4A	Alluvial Aquifer	Cr	0	0	0	0	0	mg/L	I
WCC4A	Alluvial Aquifer	Mn	0.0231	0.0236	0.0272	0.0041	0.0036	mg/L	I
WCC4A	Alluvial Aquifer	Pb	0	0	0	0	0	mg/L	I
WCC4A	Alluvial Aquifer	Sb	0	0	0	0	0	mg/L	I
SVA1	Alluvial Aquifer	BEHP	0	0	0	0	0	ug/L	S
SVA1	Alluvial Aquifer	PCP	0	0	0	0	0	ug/L	S
WCC11B	Alluvial Aquifer	BEHP	0	0	0	0	0	ug/L	S
WCC11B	Alluvial Aquifer	PCP	0	0	0	0	0	ug/L	S
WCC12	Alluvial Aquifer	BEHP	0	0	0	0	0	ug/L	S

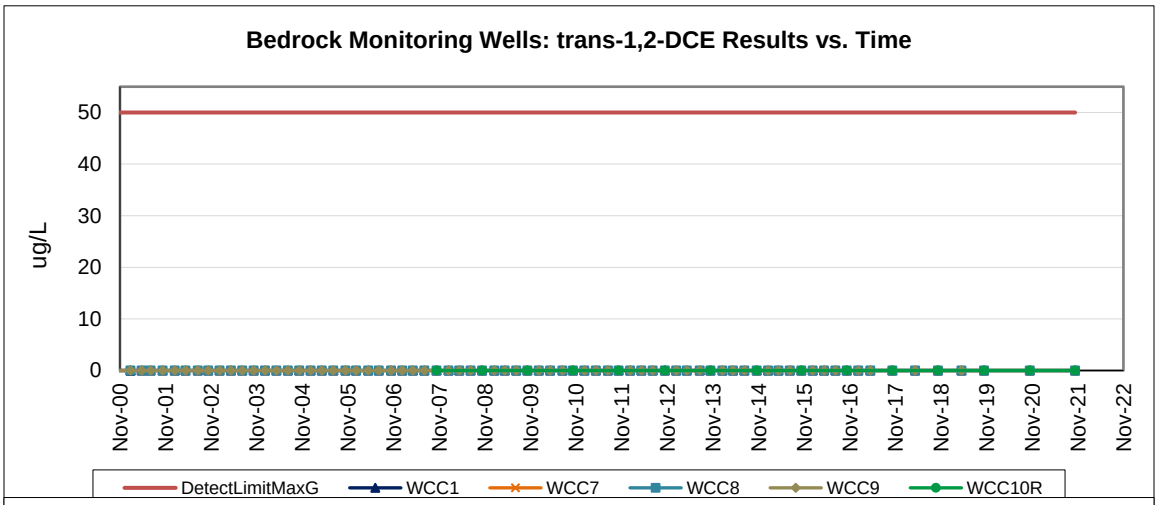
WCC12	Alluvial Aquifer	PCP	0	0	0	0	0	ug/L	S
WCC2	Alluvial Aquifer	BEHP	0	0	0	0	0	ug/L	S
WCC2	Alluvial Aquifer	PCP	0	0	0	0	0	ug/L	S
WCC4A	Alluvial Aquifer	BEHP	0	0	0	0	0	ug/L	S
WCC4A	Alluvial Aquifer	PCP	0	0	0	0	0	ug/L	S
SVA1	Alluvial Aquifer	1,2-DCA	0	0	0	0	0	ug/L	V
SVA1	Alluvial Aquifer	cis-1,2-DCE	0	0	0	0	0	ug/L	V
SVA1	Alluvial Aquifer	PCE	0	0	0	0	0	ug/L	V
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	cis-1,2-DCE	0	0	0	0	0	ug/L	V
WCC11B	Alluvial Aquifer	PCE	8.43	8.16	7.24	-1.19	-0.92	ug/L	V
WCC11B	Alluvial Aquifer	TCE	1.07	1.05	0.86	-0.21	-0.19	ug/L	V
WCC11B	Alluvial Aquifer	VC	0	0	0	0	0	ug/L	V
WCC12	Alluvial Aquifer	1,2-DCA	0	1.38	1.71	1.71	0.33	ug/L	V
WCC12	Alluvial Aquifer	cis-1,2-DCE	0	4.95	5.74	5.74	0.79	ug/L	V
WCC12	Alluvial Aquifer	PCE	0	0	0	0	0	ug/L	V
WCC12	Alluvial Aquifer	TCE	0	0	0	0	0	ug/L	V
WCC12	Alluvial Aquifer	VC	0	3.55	3.6	3.6	0.05	ug/L	V
WCC2	Alluvial Aquifer	1,2-DCA	0	0	0	0	0	ug/L	V
WCC2	Alluvial Aquifer	cis-1,2-DCE	0	0	0	0	0	ug/L	V
WCC2	Alluvial Aquifer	PCE	0	0	0	0	0	ug/L	V
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	cis-1,2-DCE	3.5	2.77	2.8	-0.7	0.03	ug/L	V
WCC4A	Alluvial Aquifer	PCE	1.44	1.29	1.24	-0.2	-0.05	ug/L	V
WCC4A	Alluvial Aquifer	TCE	0	0	0	0	0	ug/L	V
WCC4A	Alluvial Aquifer	VC	0.81	0.55	0	-0.81	-0.55	ug/L	V

Analytes that exceeded clean-up criteria this reporting period are displayed in Orange.

Bedrock Monitoring Wells: VOCs/SVOCs Time-Series Graphs

Figure 2-16: Bedrock Wells – VOCs/SVOCs Concentration Graphs





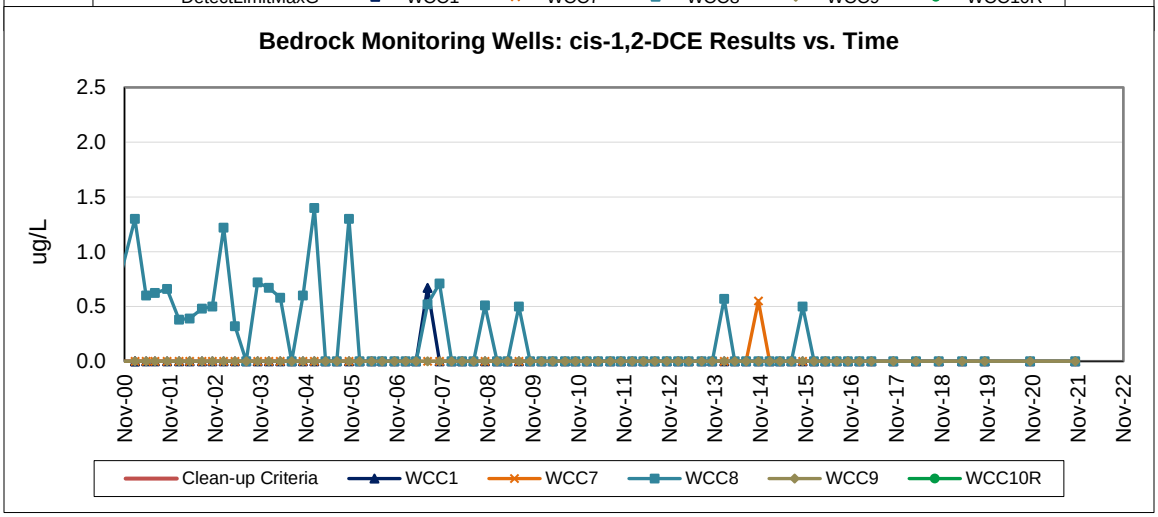
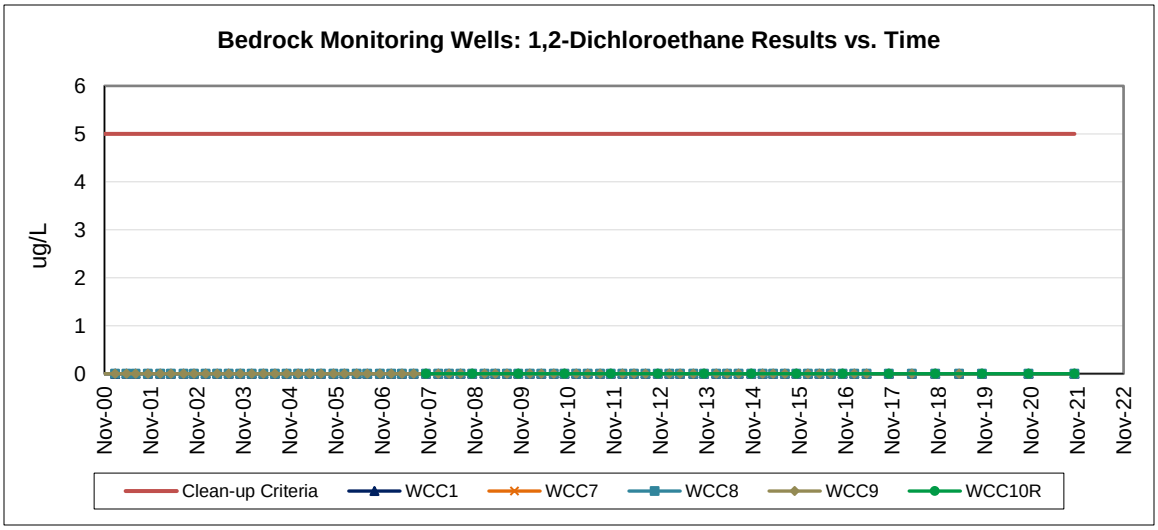
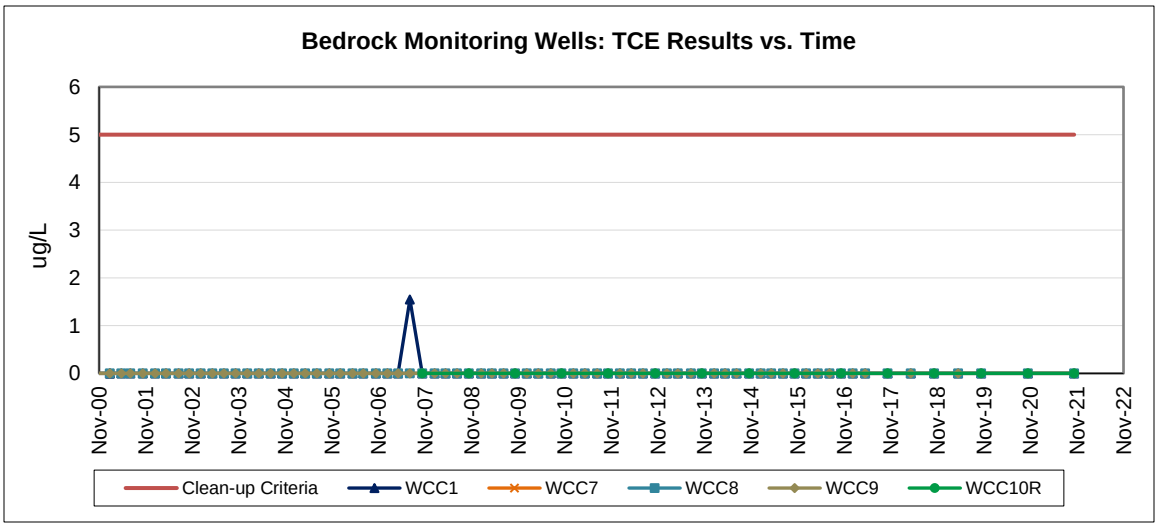


Figure 2-17: Bedrock Wells – VOCs/SVOCs Concentration Graphs (cont.)





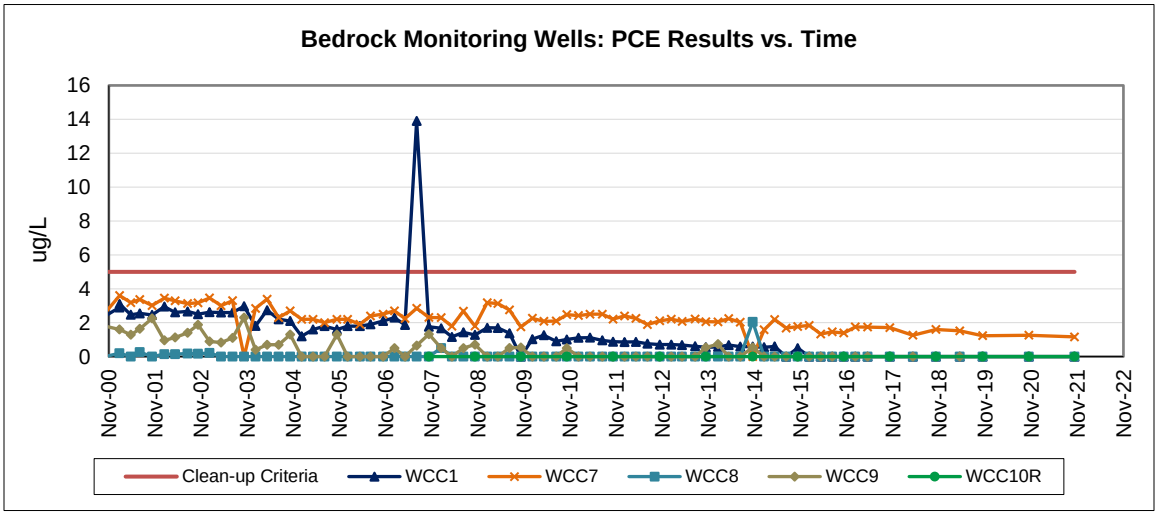
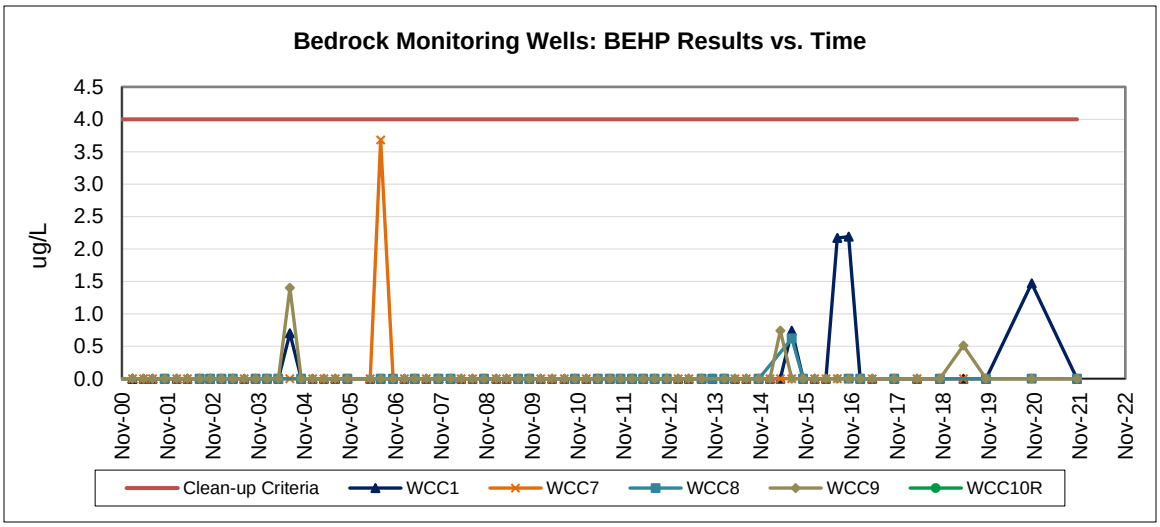
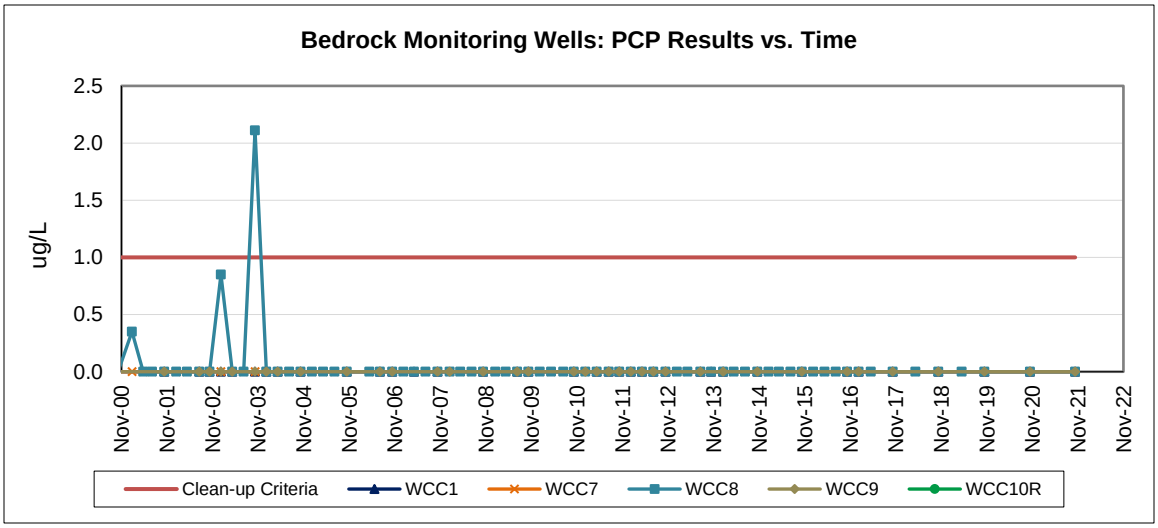


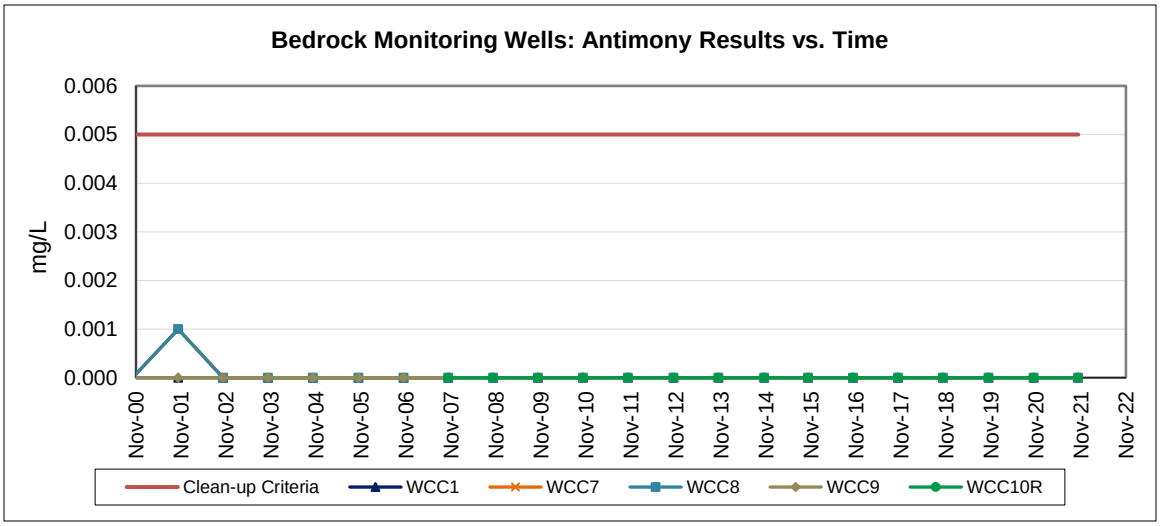
Figure 2-18: Bedrock Wells – VOCs/SVOCs Concentration Graphs (cont.)

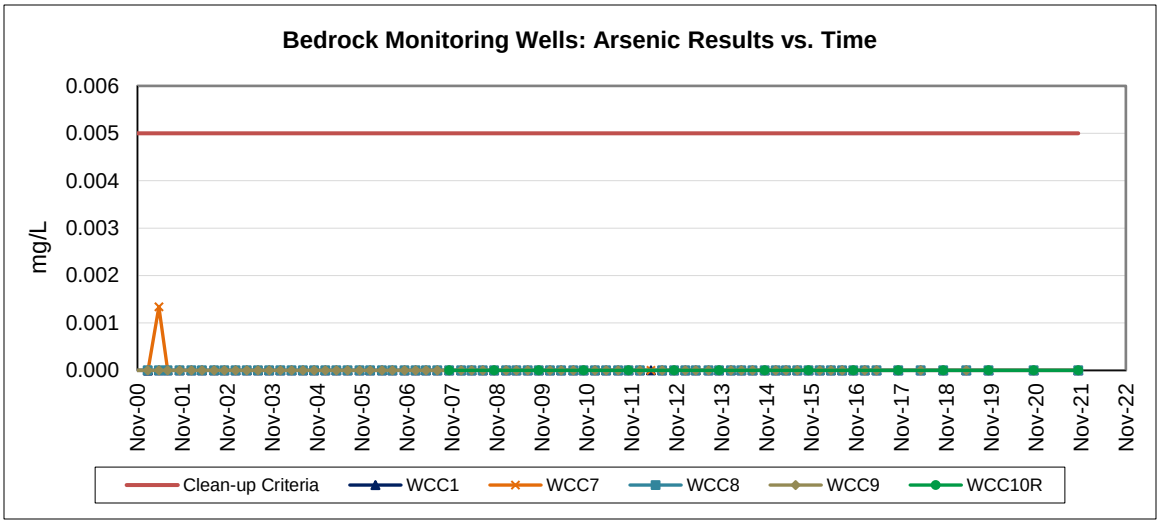




Bedrock Monitoring Wells – Inorganics Time-Series Graphs

Figure 2-19: Bedrock Wells – Inorganics Concentration Graphs





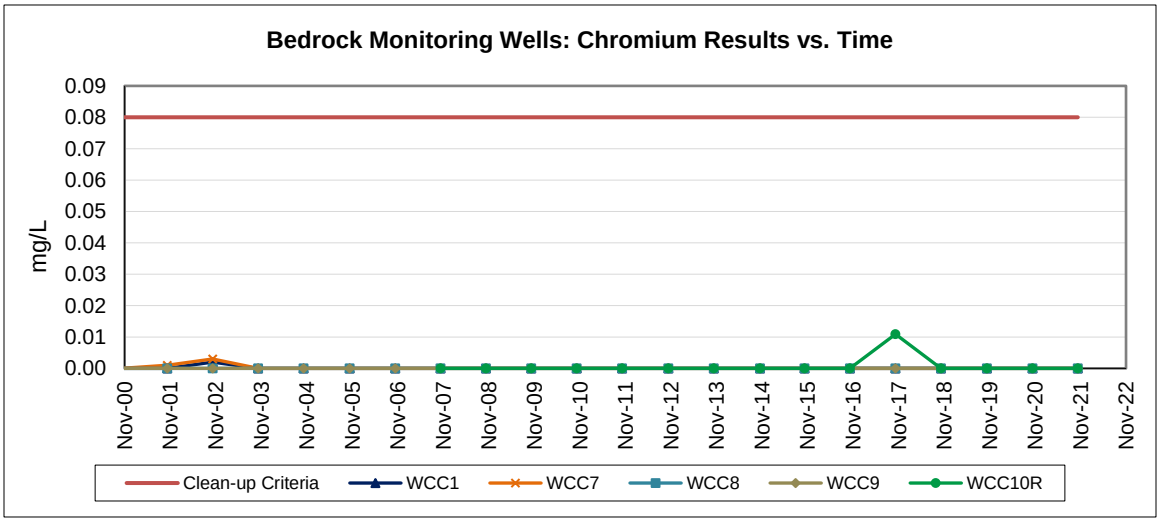
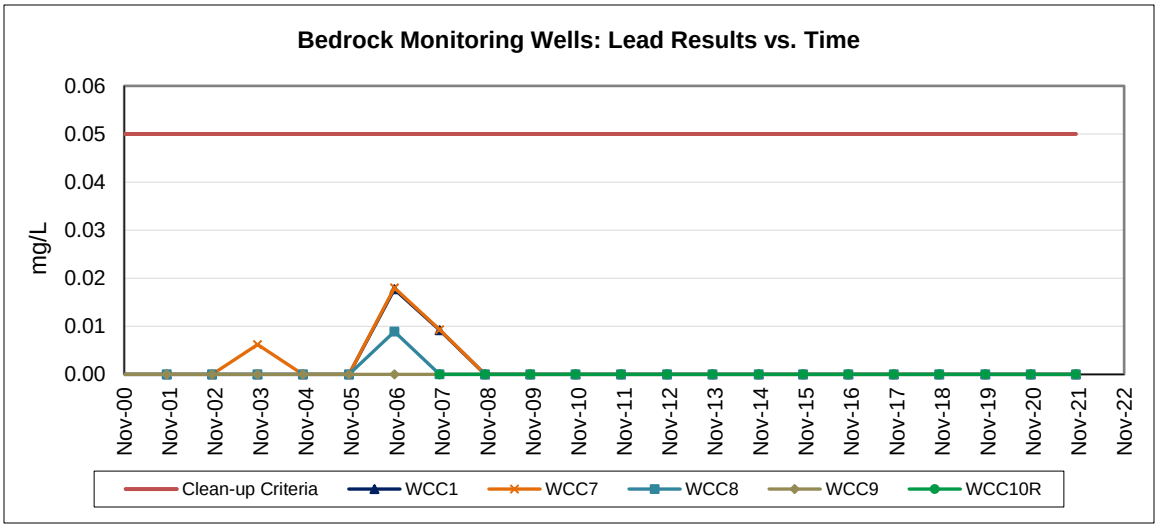
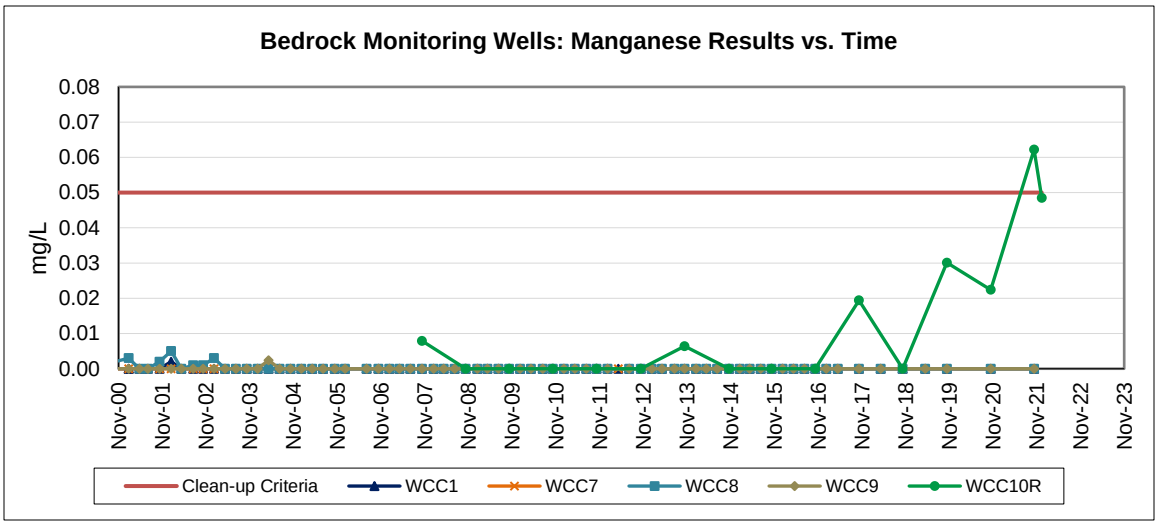


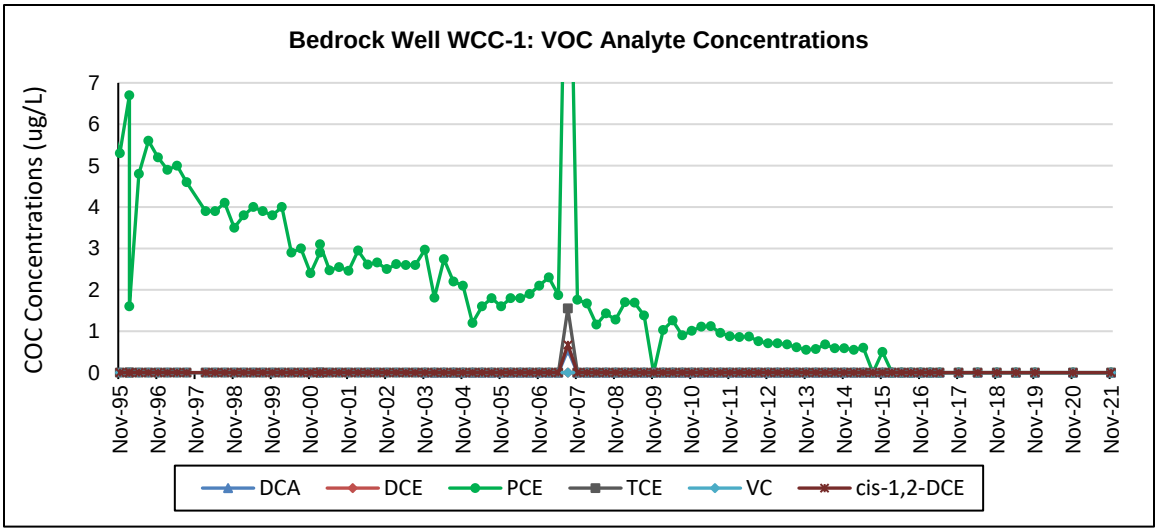
Figure 2-20: Bedrock Wells – Inorganics Concentration Graphs (cont.)

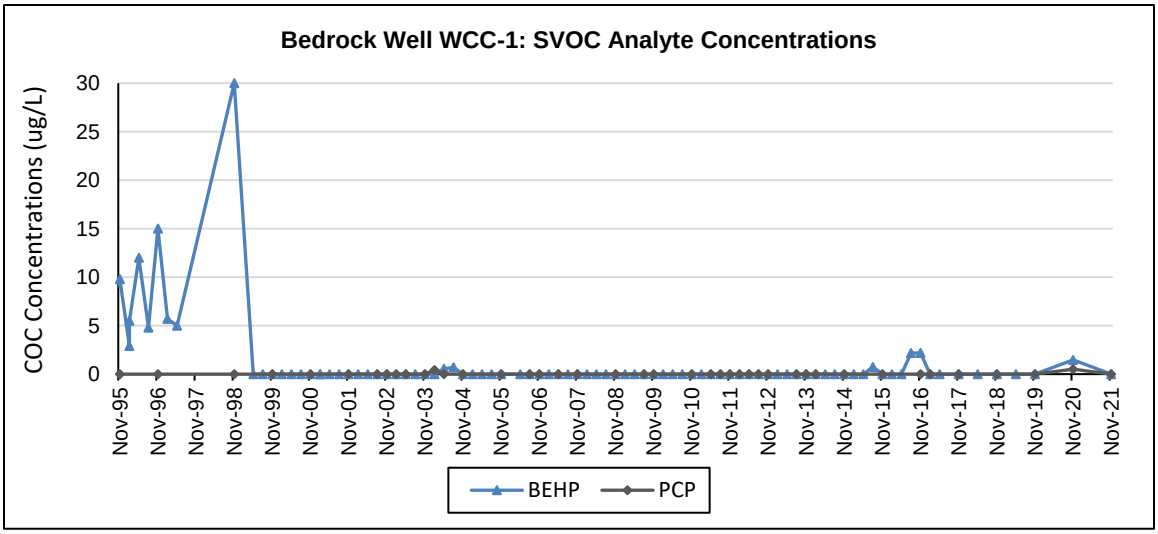




Individual Bedrock Monitoring Wells: Analyte Time-Series Graphs

Figure 2-21: Bedrock Well WCC-1 Analyte Concentration Graphs





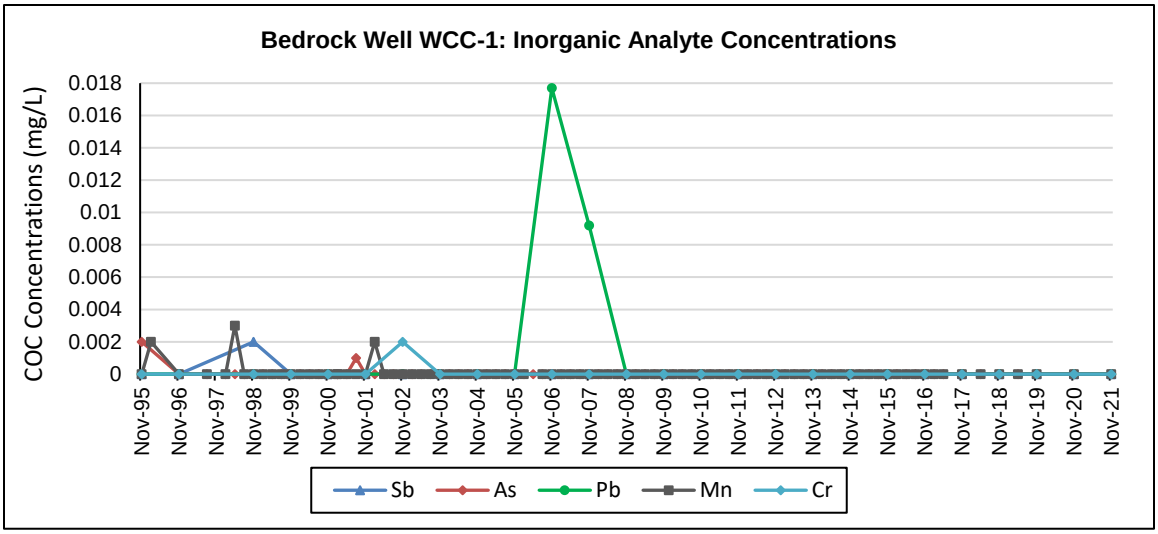
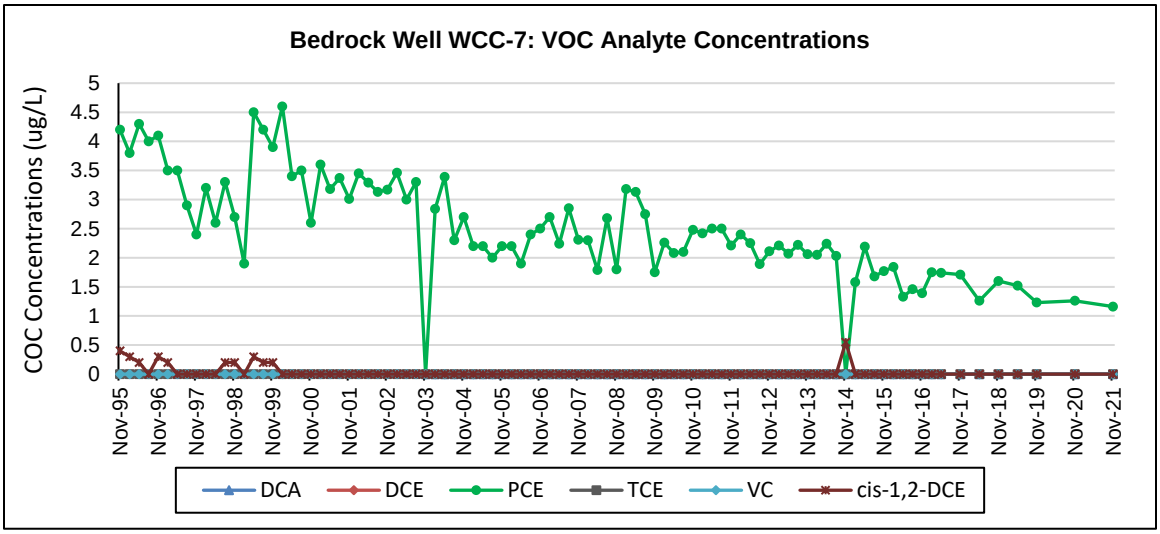
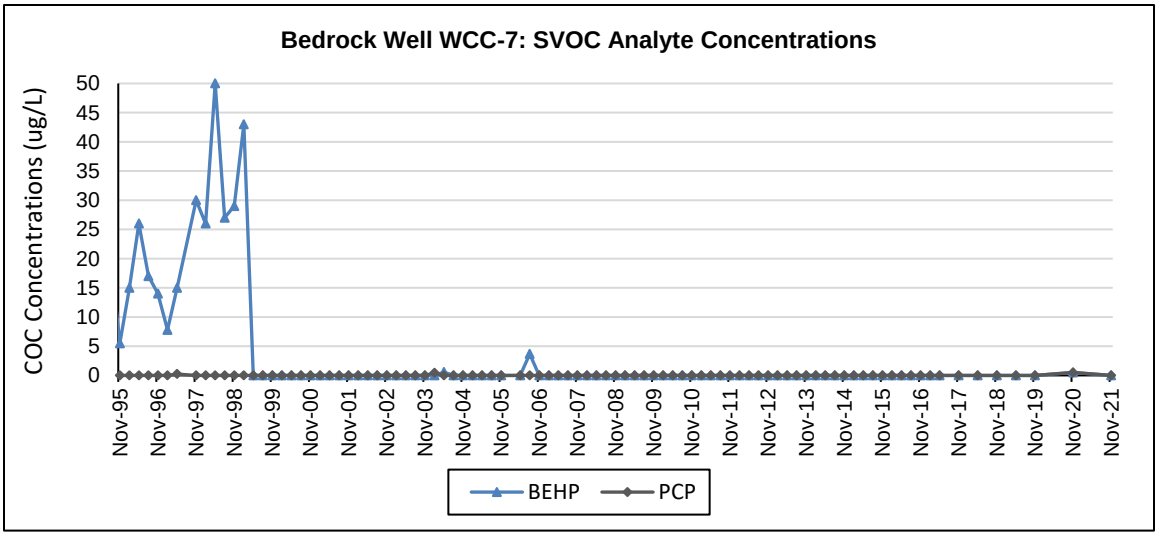


Figure 2-22: Bedrock Well WCC-7 Analyte Concentration Graphs





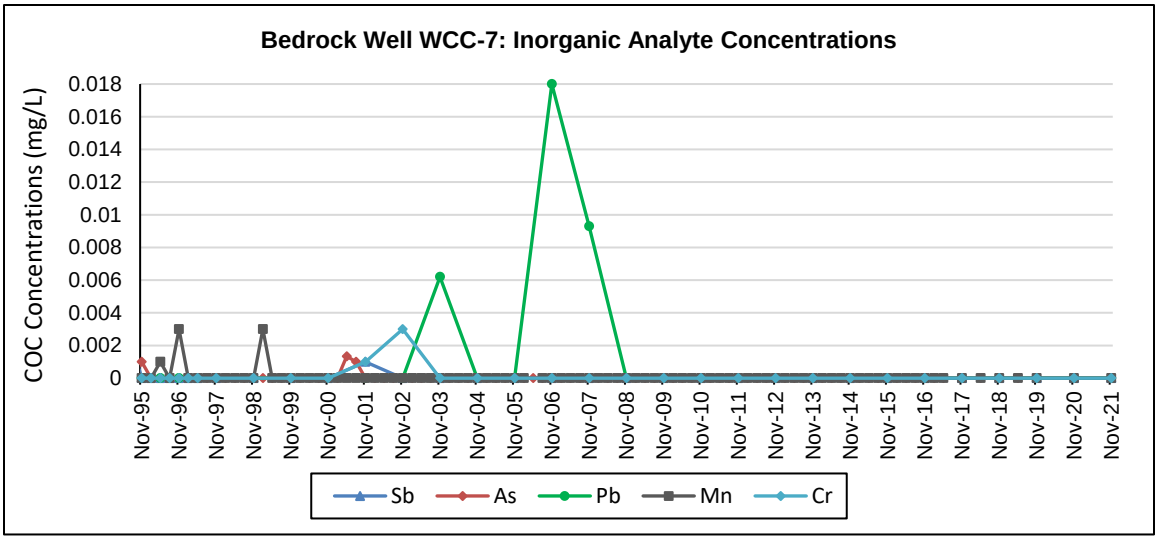
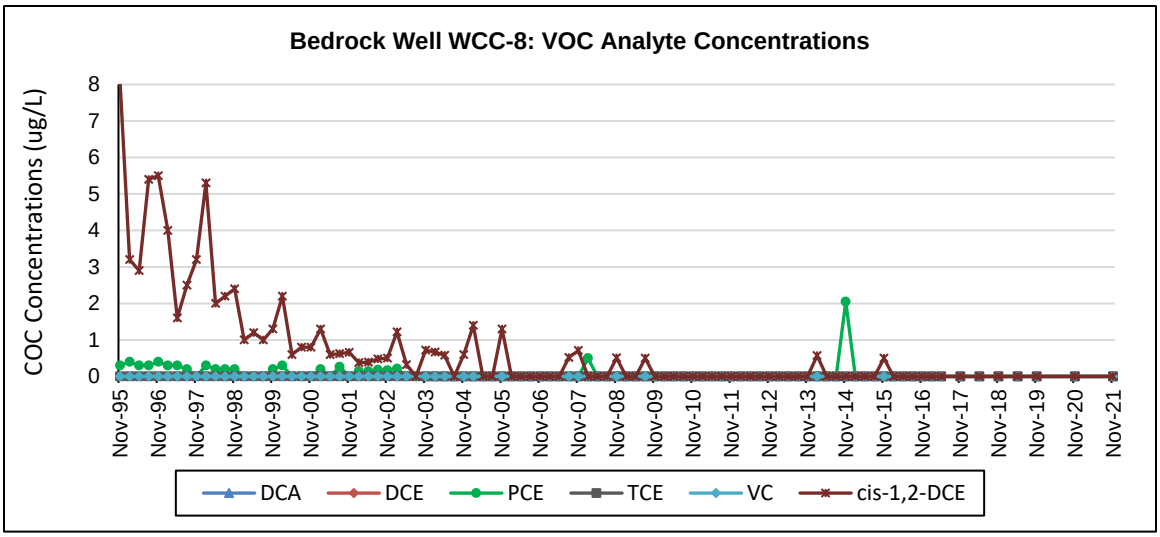
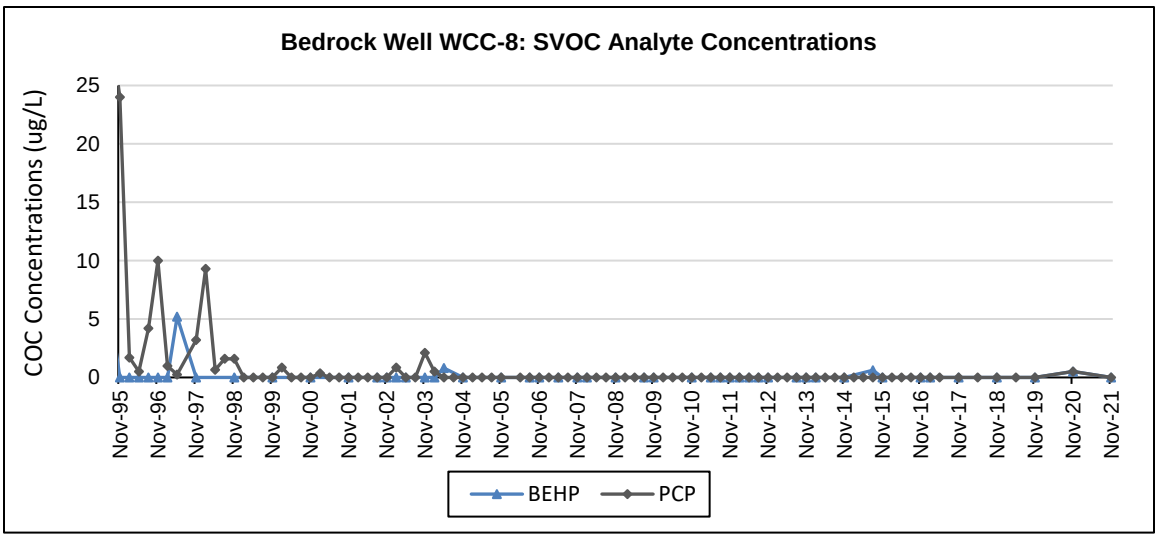


Figure 2-23: Bedrock Well WCC-8 Analyte Concentration Graphs





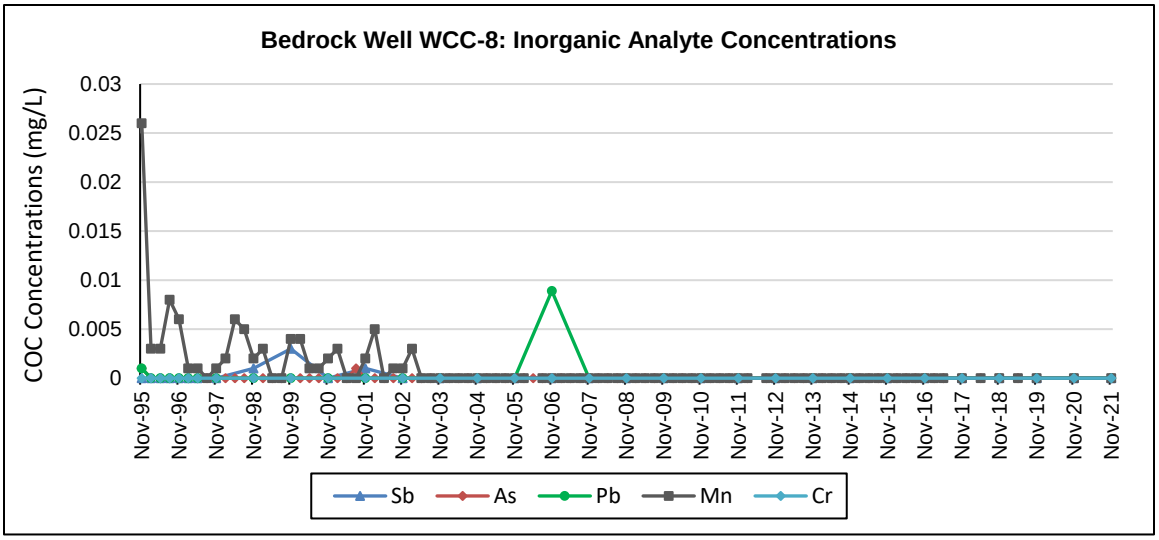
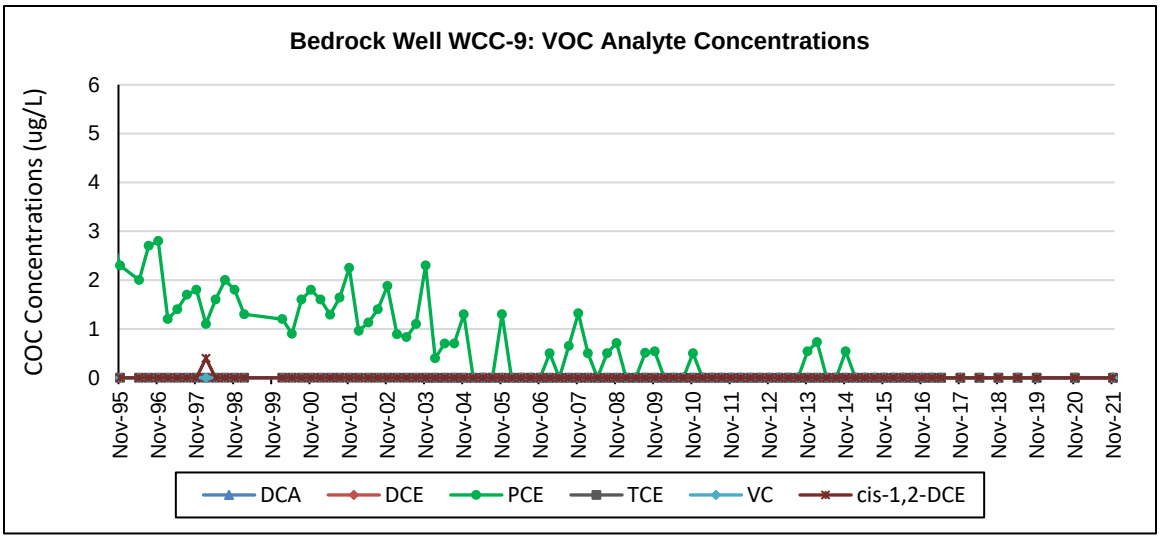
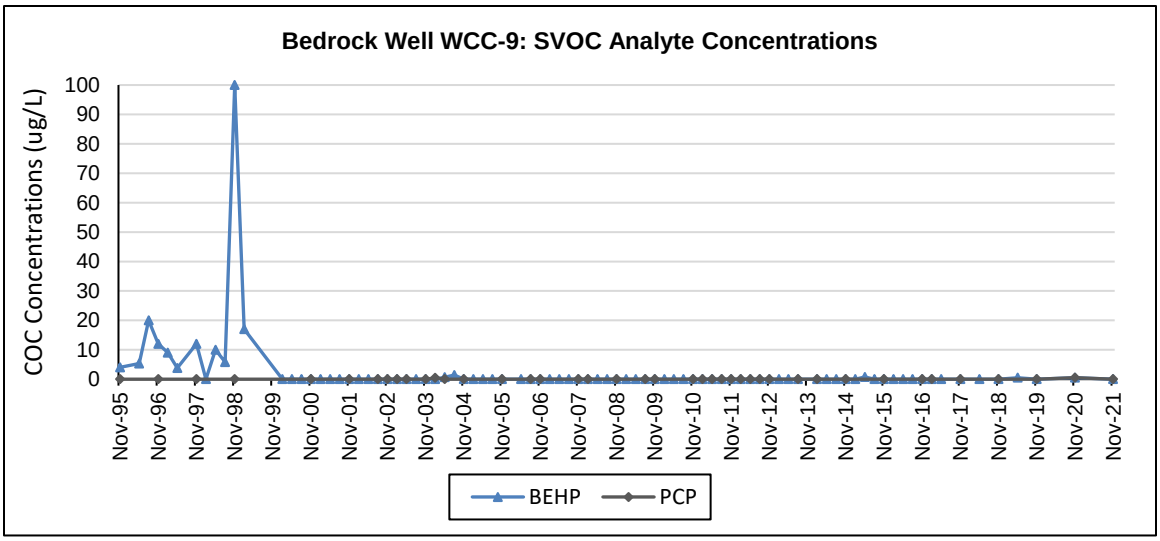


Figure 2-24: Bedrock Well WCC-9 Analyte Concentration Graphs





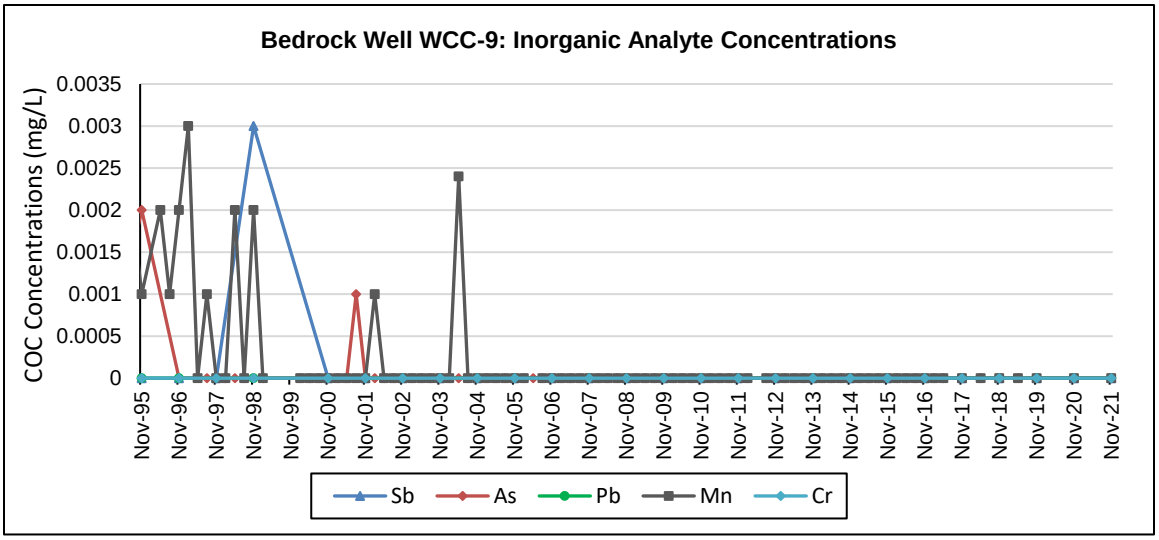
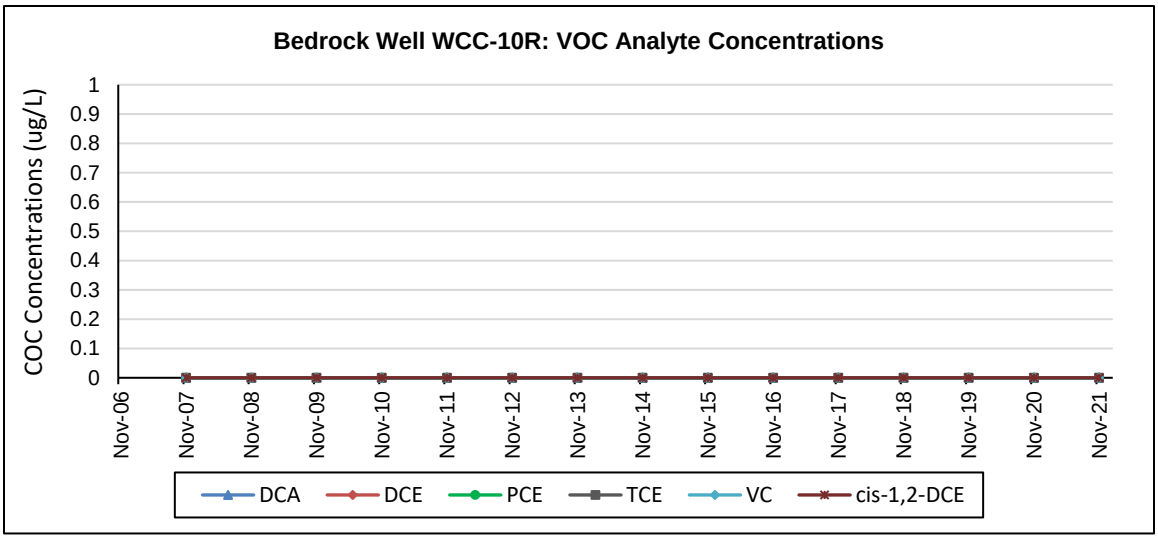
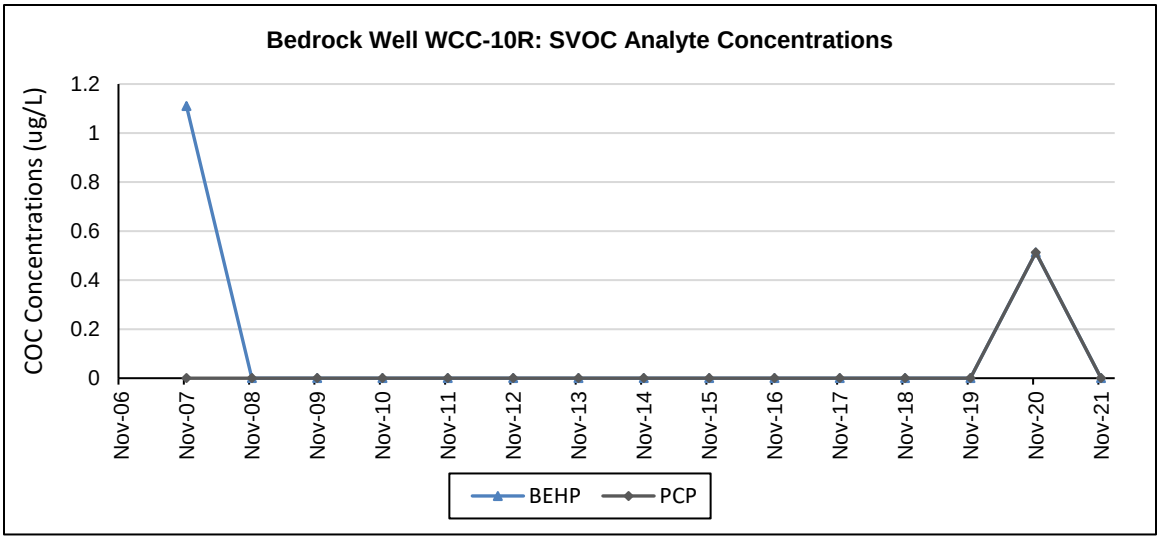
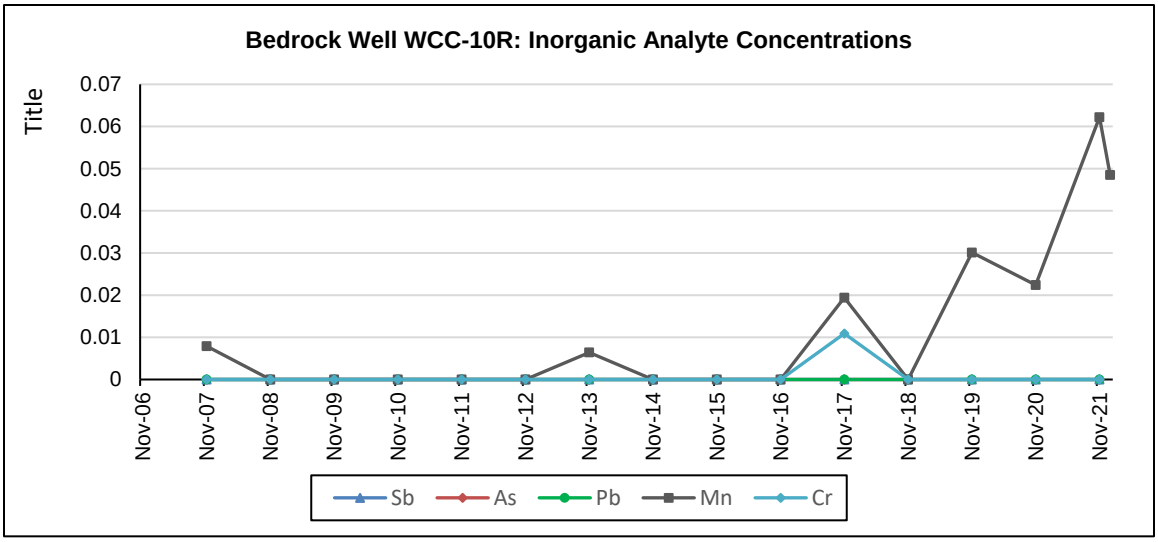


Figure 2-25: Bedrock Well WCC-10R Analyte Concentration Graphs







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

StationID	Unit	Analyte	- 5 Year Results	- 1 Year Results	Current Year Results	5-Year Difference	1-Year Difference	Units	AnalyteCat
WCC10R	Bedrock Aquifer	NO3	5.6	1.38	1.07	-4.53	-0.31	mg/L	C
WCC8	Bedrock Aquifer	NO3	1.35	1.41	1.3	-0.05	-0.11	mg/L	C
WCC9	Bedrock Aquifer	NO3	5.31	1.95	2.03	-3.28	0.08	mg/L	C
WCC1	Bedrock Aquifer	As	0	0	0	0	0	mg/L	I
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	Sb	0	0	0	0	0	mg/L	I
WCC10R	Bedrock Aquifer	As	0	0	0	0	0	mg/L	I
WCC10R	Bedrock Aquifer	Cr	0	0	0	0	0	mg/L	I
WCC10R	Bedrock Aquifer	Mn	0	0.0224	0.0622	0.0622	0.0398	mg/L	I
WCC10R	Bedrock Aquifer	Pb	0	0	0	0	0	mg/L	I
WCC10R	Bedrock Aquifer	Sb	0	0	0	0	0	mg/L	I
WCC7	Bedrock Aquifer	As	0	0	0	0	0	mg/L	I
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	Sb	0	0	0	0	0	mg/L	I
WCC8	Bedrock Aquifer	As	0	0	0	0	0	mg/L	I
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	Pb	0	0	0	0	0	mg/L	I
WCC8	Bedrock Aquifer	Sb	0	0	0	0	0	mg/L	I
WCC9	Bedrock Aquifer	As	0	0	0	0	0	mg/L	I
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	Pb	0	0	0	0	0	mg/L	I
WCC9	Bedrock Aquifer	Sb	0	0	0	0	0	mg/L	I
WCC1	Bedrock Aquifer	BEHP	2.19	1.47	0	-2.19	-1.47	ug/L	S
WCC1	Bedrock Aquifer	PCP	0	0	0	0	0	ug/L	S
WCC10R	Bedrock Aquifer	BEHP	0	0	0	0	0	ug/L	S

WCC10R	Bedrock Aquifer	PCP	0	0	0	0	0	ug/L	S
WCC7	Bedrock Aquifer	BEHP	0	0	0	0	0	ug/L	S
WCC7	Bedrock Aquifer	PCP	0	0	0	0	0	ug/L	S
WCC8	Bedrock Aquifer	BEHP	0	0	0	0	0	ug/L	S
WCC8	Bedrock Aquifer	PCP	0	0	0	0	0	ug/L	S
WCC9	Bedrock Aquifer	BEHP	0	0	0	0	0	ug/L	S
WCC9	Bedrock Aquifer	PCP	0	0	0	0	0	ug/L	S
WCC1	Bedrock Aquifer	1,2-DCA	0	0	0	0	0	ug/L	V
WCC1	Bedrock Aquifer	cis-1,2-DCE	0	0	0	0	0	ug/L	V
WCC1	Bedrock Aquifer	PCE	0	0	0	0	0	ug/L	V
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	cis-1,2-DCE	0	0	0	0	0	ug/L	V
WCC10R	Bedrock Aquifer	PCE	0	0	0	0	0	ug/L	V
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	cis-1,2-DCE	0	0	0	0	0	ug/L	V
WCC7	Bedrock Aquifer	PCE	1.39	1.26	1.16	**-0.23**	**-0.1**	ug/L	V
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	cis-1,2-DCE	0	0	0	0	0	ug/L	V
WCC8	Bedrock Aquifer	PCE	0	0	0	0	0	ug/L	V
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	cis-1,2-DCE	0	0	0	0	0	ug/L	V
WCC9	Bedrock Aquifer	PCE	0	0	0	0	0	ug/L	V
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**.

3. GREENACRES LANDFILL GAS

Greenacres Landfill Gas Probe Locations

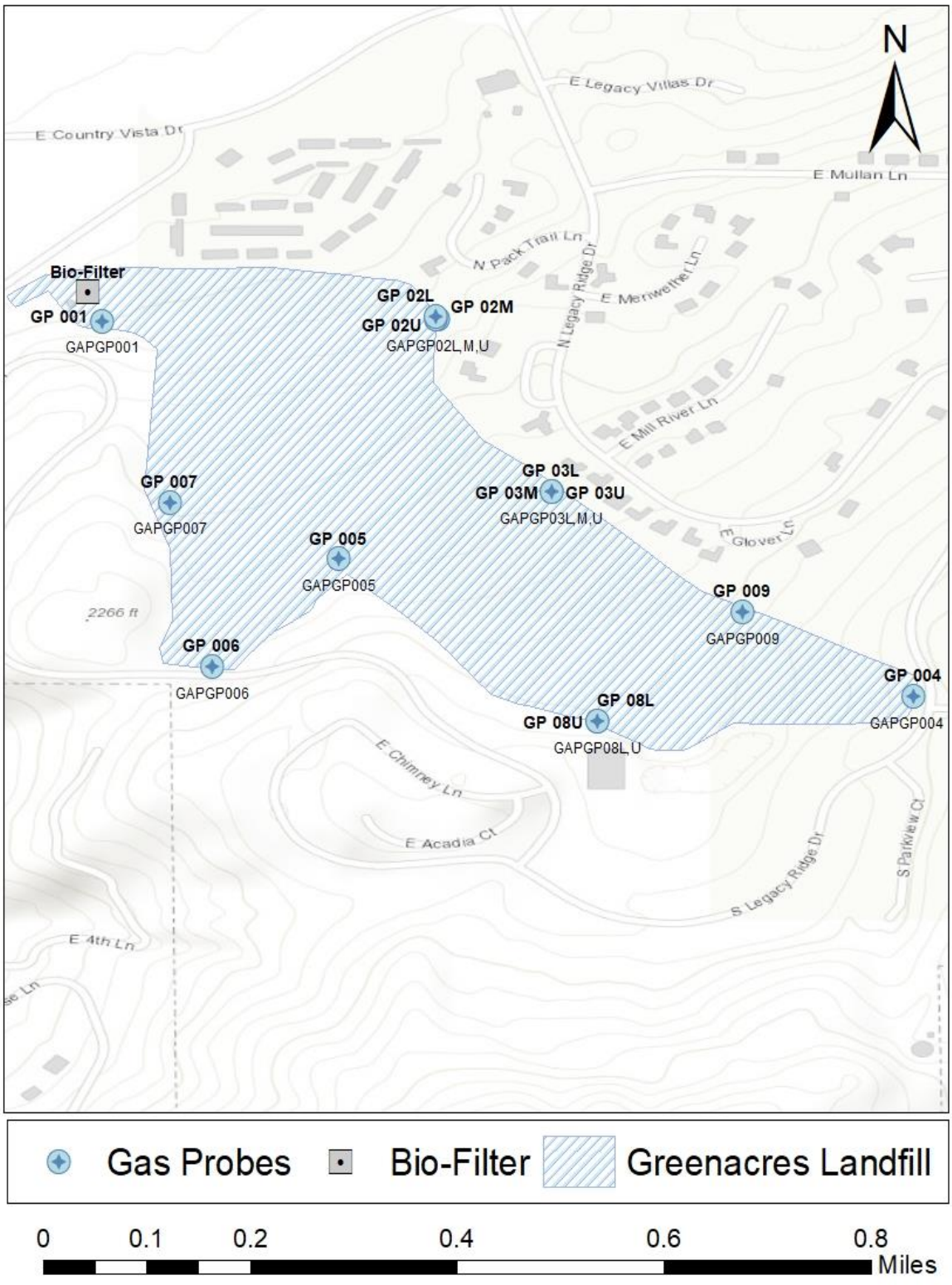


Figure 3-1: Greenacres Landfill Gas Probe Locations

GREENACRES LANDFILL GAS SUMMARY

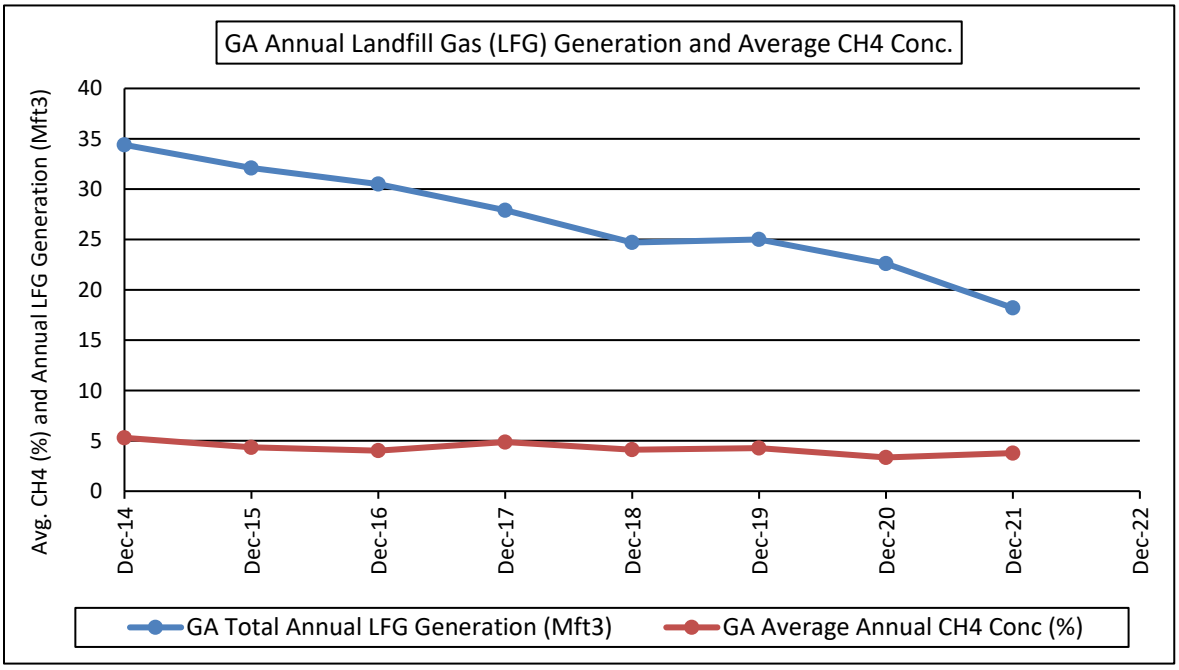
The Greenacres Landfill gas generation/average methane concentration summary is presented below in Table 3-1. Greenacres Landfill produced an estimated 18.2 million cubic feet of landfill gas in 2021. The average methane concentration was approximately 3.78%.

Landfill Gas Toxic Organics (TO-15) sampling was conducted on 6/4/2021 and TO-15 sampling results were analyzed by the Spokane Regional Clean Air Agency. All landfill gas toxic organic concentrations were below their designated criteria during this reporting period.

GREENACRES PERIMETER GAS PROBES

Spokane County was unable to calculate the perimeter gas probe summary for 2021 due to a compromise in data integrity. The perimeter gas probe summary presented below in Table 3-2 was calculated using quality-assured data from the 2020 reporting period and the most recent data collected in January, February, and March 2022. Table 3-3 presents a summary comparing the perimeter gas probe data collected from the 2020 reporting period to the most recent perimeter probe data collected in January - March 2022. The perimeter gas probe data used to calculate/create the perimeter gas probe summary and comparison tables are presented in *Appendix C: Landfill Gas Probe Measurements.*

Due to the Greenacres Landfill gas collection system being a steady-state system with minimal monthly variation and low gas production/CH4 concentrations, along with County personnel effectively operating and maintaining the landfill, Spokane County can conclude that the gas collection system is effectively capturing/directing the generated landfill gas to the biofilter and preventing offsite landfill gas migration.



Greenacres Landfill Gas Emission

Table 3-1: Greenacres Landfill Gas Emission Point Summary

Greenacres landfill Emission Point Summary: 2021		
Date	**Flow (cfm)**	**%CH4**
Jan	36	3.2
Feb	35	3.3
Mar	34	3.1
Apr	33	3.8
May	36	4.1
Jun	28	2.3
Jul	29	2.6
Aug	34	3.5
Sep	32	3.7
Oct	30	4.9
Nov	44	5.9
Dec	45	4.9
Total	416	45.3
Average	34.67	3.78
34.67	* 525,600 / 10^6	= 18.2 Mft3

The Greenacres Landfill Gas Emissions summary from the Greenacres Landfill gas emission point (Greenacres bio-filter) is presented above in Table 3-1.

The Greenacres Landfill produced an estimated 18.2 million cubic feet of landfill gas in 2021, with an average CH4 concentration of 3.78%.

Greenacres Landfill Perimeter Gas Probes

Table 3-2: Greenacres Landfill Perimeter Gas Probe Summary

Greenacres landfill Probe Summary: May 2020*, January - March 2022*									
	CH4			CO2			O2		
Probe ID	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max
GAPGP001	0.00	0.00	0.00	3.43	1.90	4.70	12.95	8.80	17.20
GAPGP004	0.00	0.00	0.00	0.40	0.30	0.50	20.63	20.50	20.80
GAPGP005	0.00	0.00	0.00	1.17	0.20	1.80	18.30	16.90	20.40
GAPGP006	0.00	0.00	0.00	0.50	0.00	1.20	20.20	19.40	20.60
GAPGP007	0.00	0.00	0.00	0.35	0.20	0.50	20.45	20.30	20.60
GAPGP009	0.00	0.00	0.00	0.20	0.00	0.60	20.43	20.30	20.60
GAPGP02L	0.00	0.00	0.00	4.05	3.20	4.80	15.50	14.50	16.10
GAPGP02M	0.00	0.00	0.00	1.08	0.90	1.30	19.63	19.40	19.80
GAPGP02U	0.00	0.00	0.00	0.20	0.10	0.50	20.48	20.40	20.60
GAPGP03L	0.00	0.00	0.00	0.77	0.70	0.80	18.07	16.50	19.50
GAPGP03M	0.00	0.00	0.00	0.47	0.40	0.50	19.97	19.90	20.10
GAPGP03U	0.00	0.00	0.00	0.17	0.00	0.50	20.53	20.40	20.70
GAPGP08L	0.00	0.00	0.00	0.07	0.00	0.20	20.60	20.40	20.80
GAPGP08U	0.00	0.00	0.00	0.47	0.10	1.10	20.33	20.10	20.60

***** The perimeter landfill gas probe summaries were calculated using quality-assured data collected from the 2020 reporting period (5/7/2020), and the most recent data collected (1/28/2022, 2/2/2022, and 3/1/2022).

Table 3-3: Greenacres landfill Gas Perimeter Probe Data Comparison

Greenacres landfill Gas Probe Data Comparison - Before/After Data Compromise*						
	CH4		CO2		O2	
Probe ID	Before	After	Before	After	Before	After
GAPGP001	0.00	0.00	1.90	3.93	15.10	12.23
GAPGP004	0.00	0.00	0.50	0.35	20.80	20.55
GAPGP005	0.00	0.00	1.80	0.85	17.60	18.65
GAPGP006	0.00	0.00	1.20	0.15	19.40	20.60
GAPGP007	0.00	0.00	0.50	0.20	20.60	20.30
GAPGP009	0.00	0.00	0.60	0.00	20.30	20.50
GAPGP02L	0.00	0.00	3.20	4.33	16.10	15.30
GAPGP02M	0.00	0.00	0.90	1.13	19.80	19.57
GAPGP02U	0.00	0.00	0.50	0.10	20.40	20.50
GAPGP03L	0.00	0.00	0.80	0.75	19.50	17.35
GAPGP03M	0.00	0.00	0.40	0.50	20.10	19.90
GAPGP03U	0.00	0.00	0.50	0.00	20.50	20.55
GAPGP08L	0.00	0.00	0.20	0.00	20.40	20.70
GAPGP08U	0.00	0.00	1.10	0.15	20.10	20.45

***** The perimeter gas probe summary presented above compares the difference between the quality-assured data collected from the 2020 reporting period (5/7/2020) to the averages of the most recent data collected (1/28/2022, 2/2/2022, and 3/1/2022).

Appendix A: Groundwater Sampling Field Sheets

GREENACRES LANDFILL
ANNUAL GROUNDWATER SAMPLING FIELD SHEET 2021

DATE: 11/2/2021	WELL ID: SVA-1	FIELD TEAM: (MT) GF, KM
SAMPLE ID: W-SVA1-211102	QA / QC SAMPLE ID: -NA-	
FIELD CONDITIONS: CLOUDY LOW 40's		
DEDICATED BLADDER: X	DISPOSABLE BAILER:	OTHER:

TIMES

START TIME:	0745	QA / QC SAMPLE TIME:	-NA-
SAMPLE TIME:	0845	END TIME:	0850

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):	5 GAL
TOTAL DEPTH OF WELL (FT):	127.00'	3 CASING VOLUME (GAL):	15 GAL
INITIAL DEPTH TO WATER (SWL):	99.52'	PURGE RATE:	
PACKER DEPTH:	-NA-		
COW ABOVE PACKER (FT):	27.48'	PACKER INFORMATION:	
CALCULATION: 27.48 (COW) X 0.17 = 4.67 (GAL) = 5 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
5GAL / 0805	11.5	7.89	295	CLEAR
10GAL / 0824	11.6	7.91	291	CLEAR
15GAL / 0843	11.5	7.92	294	CLEAR
/				
			TURBIDITY: 0.19	NTU (meas in field lab)

COMMENTS:

GREENACRES LANDFILL
ANNUAL GROUNDWATER SAMPLING FIELD SHEET 2021

DATE: 11/2/2021	WELL ID: WCC-1	FIELD TEAM: MT, GE, KM
SAMPLE ID: W-WCC1-211102	QA / QC SAMPLE ID: WS-1-1-211102	
FIELD CONDITIONS: Cloudy 41° F		
DEDICATED BLADDER: X	DISPOSABLE BAILER:	OTHER:

TIMES

START TIME: 0735	QA / QC SAMPLE TIME: 0927
SAMPLE TIME: 0817	END TIME: 0820

FIELD MEASUREMENT EQUIPMENT

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH pH 100	476115	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			

PURGING INFORMATION

WELL DIAMETER (IN): 2"	1 CASING VOLUME (GAL):
TOTAL DEPTH OF WELL (FT): 124.00'	3 CASING VOLUME (GAL):
INITIAL DEPTH TO WATER (SWL): 98.11	PURGE RATE:
PACKER DEPTH:	
COW ABOVE PACKER (FT): 25.89	PACKER INFORMATION:
CALCULATION: 25.89 (COW) X 0.17 = 4.40 = 5 gal. (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
5 gal / 0748	11.9	8.02	439	Clear
10 gal / 0801	11.6	8.01	440	Clear
15 gal / 0814	11.5	8.02	442	Clear
/				
			TURBIDITY: 0.39	NTU (meas in field lab)

COMMENTS: *DUPE TAKEN HERE

GREENACRES LANDFILL
ANNUAL GROUNDWATER SAMPLING FIELD SHEET 2021

DATE: 11/2/2021	WELL ID: WCC-2	FIELD TEAM: MT , GR, KM
SAMPLE ID: W-WCC2-211102	QA / QC SAMPLE ID: - NA -	
FIELD CONDITIONS: Cloudy 45° F		
DEDICATED BLADDER: X	DISPOSABLE BAILER:	OTHER:

TIMES

START TIME: 1039	QA / QC SAMPLE TIME:
SAMPLE TIME: 1119	END TIME: 1124

FIELD MEASUREMENT EQUIPMENT

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH pH 100	476115	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			

PURGING INFORMATION

WELL DIAMETER (IN): 2"	1 CASING VOLUME (GAL):
TOTAL DEPTH OF WELL (FT): 123.00'	3 CASING VOLUME (GAL):
INITIAL DEPTH TO WATER (SWL): 103.39	PURGE RATE:
PACKER DEPTH:	
COW ABOVE PACKER (FT): 19.61	PACKER INFORMATION:
CALCULATION: 19.61 (COW) X 0.17 = 3.33 = 4 Gal (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
4 Gal / 1051	9.4	7.45	428	Sediment in the water
8 Gal / 1104	9.6	7.47	429	Clear
12 Gal / 1116	9.6	7.49	431	Clear
/				
			TURBIDITY: 0.39	NTU (meas in field lab)

COMMENTS:

2
4

GREENACRES LANDFILL
ANNUAL GROUNDWATER SAMPLING FIELD SHEET 2021

DATE: 11/2/2021	WELL ID: WCC-4A	FIELD TEAM: MT , GR, KM
SAMPLE ID: W-WCC4A-211102	QA / QC SAMPLE ID: -NA-	
FIELD CONDITIONS: Cloudy 51°F		
DEDICATED BLADDER: X	DISPOSABLE BAILER:	OTHER:

TIMES

START TIME: 1143	QA / QC SAMPLE TIME: —
SAMPLE TIME: 1221	END TIME: 1225

FIELD MEASUREMENT EQUIPMENT

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH pH 100	476115	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTestr 11+	1213423	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): 6
TOTAL DEPTH OF WELL (FT): 138.00'	3 CASING VOLUME (GAL): 18
INITIAL DEPTH TO WATER (SWL): 107.42	PURGE RATE:
PACKER DEPTH:	
COW ABOVE PACKER (FT): 30.58	PACKER INFORMATION:
CALCULATION: 30.58 (COW) X 0.17 = 5.19 (GAL) = 6 gallons	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 / 1154	10.2	6.90	6660	Clear
12 / 1206	10.2	6.91	659	Clear
18 / 1219	10.2	6.91	6660	Clear
/				
			TURBIDITY: 0.41	NTU (meas in field lab)

COMMENTS:

GREENACRES LANDFILL
ANNUAL GROUNDWATER SAMPLING FIELD SHEET 2021

DATE: 11/2/2021	WELL ID: WCC-7	FIELD TEAM: MT, (GF), KM
SAMPLE ID: W-WCC7-211102	QA / QC SAMPLE ID: - NA-	
FIELD CONDITIONS: mstly cldy, 48°		
DEDICATED BLADDER: X	DISPOSABLE BAILER:	OTHER:

TIMES

START TIME:	1113	QA / QC SAMPLE TIME:	NA
SAMPLE TIME:	1131	END TIME:	

FIELD MEASUREMENT EQUIPMENT

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH pH 100	476085	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):	2.5
TOTAL DEPTH OF WELL (FT):	86.00'	3 CASING VOLUME (GAL):	7.5
INITIAL DEPTH TO WATER (SWL):	71.63	PURGE RATE:	
PACKER DEPTH:	NA		
COW ABOVE PACKER (FT):	NA	PACKER INFORMATION:	
CALCULATION: 14.37 (COW) X 0.17 = 2.4 (GAL) use 2.5 g/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
2.5 / 1117	12.1	7.40	780	Clear
5.0 / 1122	12.1	7.43	788	Clear
7.5 / 1129	12.0	7.49	7.95	Clear
/				
			TURBIDITY: 0.13	NTU (meas in field lab)

COMMENTS:

GREENACRES LANDFILL
ANNUAL GROUNDWATER SAMPLING FIELD SHEET 2021

DATE: 11/2/2021	WELL ID: WCC-8	FIELD TEAM: (MT), GF, KM
SAMPLE ID: W-WCC8-211102	QA / QC SAMPLE ID: MS/MSD TAKEN	
FIELD CONDITIONS: CLOUDY LOW 40S		
DEDICATED BLADDER: X	DISPOSABLE BAILER:	OTHER:

TIMES NEW PUMP INSTALL

START TIME: 0940 0945		QA / QC SAMPLE TIME: SAME AS SAMPLE	
SAMPLE TIME: 1045		END TIME: 1105	

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):	3 GAL
TOTAL DEPTH OF WELL (FT):	111.00'	3 CASING VOLUME (GAL):	9 GAL
INITIAL DEPTH TO WATER (SWL):	62.90'	PURGE RATE:	
PACKER DEPTH:	97.00'		
COW ABOVE PACKER (FT):	34.10' = 50PSI	PACKER INFORMATION:	
CALCULATION: 14' (COW) X 0.17 = 2.38GAL (GAL) = 3GAL		COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI) 50PSI 111.00' - 97' = 14' x .17 = 2.38 = 3GAL	

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

VOL. PURGED(GAL) / TIME	TEMP °C	pH	CONDUCTIVITY (umhos)	APPEARANCE
3GAL / 1004	11.1	6.82	130.1	CLEAR
6GAL / 1021	11.0	6.84	129.7	CLEAR
9GAL / 1037	11.0	6.84	130.2	CLEAR
/				
			TURBIDITY: 072	NTU (~~meas in field lab~~)

COMMENTS:

MS/MSD TAKEN HERE, FILLED 2 EXTRA SETS FOR EACH PARAMETER

* MT/GF HAD TO REPLACE PUMP

GREENACRES LANDFILL
ANNUAL GROUNDWATER SAMPLING FIELD SHEET 2021

DATE: 11/2/2021	WELL ID: WCC-9	FIELD TEAM: MT, GF, KM
SAMPLE ID: W-WCC9-211102	QA / QC SAMPLE ID: — NA-	
FIELD CONDITIONS: cldy, 43°		
DEDICATED BLADDER: X	DISPOSABLE BAILER:	OTHER:

TIMES

START TIME: 1013	QA / QC SAMPLE TIME:
SAMPLE TIME: 1026	END TIME: 1031

FIELD MEASUREMENT EQUIPMENT

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH pH 100	476085	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): 2
TOTAL DEPTH OF WELL (FT): 45.00'	3 CASING VOLUME (GAL): 6
INITIAL DEPTH TO WATER (SWL): 35.58	PURGE RATE:
PACKER DEPTH: NA	
COW ABOVE PACKER (FT): NA	PACKER INFORMATION:
CALCULATION: 9.42 X 0.17 = 1.6 use 2.0 (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
2 / 1017	11.0	6.54	126	Clear
4 / 1021	11.2	6.48	125	Clear
6 / 1025	11.3	6.45	125	Clear
/				
			TURBIDITY: 0.07	NTU (meas in field lab)

COMMENTS:

GREENACRES LANDFILL
ANNUAL GROUNDWATER SAMPLING FIELD SHEET 2021

DATE: 11/2/2021	WELL ID: WCC-10R	FIELD TEAM: MT, GF, KM
SAMPLE ID: W-WCC10R-211102	QA / QC SAMPLE ID: NA	
FIELD CONDITIONS: Cldy, 40°		
DEDICATED BLADDER: X	DISPOSABLE BAILER:	OTHER:

TIMES

START TIME: 0809	QA / QC SAMPLE TIME: NA
SAMPLE TIME: 0850	END TIME: 0855

FIELD MEASUREMENT EQUIPMENT

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH pH 100	476085	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):	13.06	PURGE RATE:	
PACKER DEPTH:	NA		
COW ABOVE PACKER (FT):	NA	PACKER INFORMATION:	
CALCULATION: 28.34 (COW) X 0.17 = 4.8 use 5.0 (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
5 / 0817	11.9	7.55	242	sl. brn
10 / 0831	11.6	7.60	220	sl. brn
15 / 0849	11.6	7.67	222	sl. tan color
/				
			TURBIDITY: 50.6	NTU (meas in field lab)

COMMENTS:

GREENACRES LANDFILL
ANNUAL GROUNDWATER SAMPLING FIELD SHEET 2021

DATE: 11/2/2021	WELL ID: WCC-11B	FIELD TEAM: MT, GF, KM
SAMPLE ID: W-WCC11B-211102	QA / QC SAMPLE ID: -NA-	
FIELD CONDITIONS: mstly cldy, 50°		
DEDICATED BLADDER: X	DISPOSABLE BAILER:	OTHER:

TIMES

START TIME: 1222	QA / QC SAMPLE TIME: NA
SAMPLE TIME: 1333	END TIME:

FIELD MEASUREMENT EQUIPMENT

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH pH 100	476085	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTestr 11+	780	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): 7
TOTAL DEPTH OF WELL (FT): 140.00'	3 CASING VOLUME (GAL): 21
INITIAL DEPTH TO WATER (SWL): 99.47	PURGE RATE:
PACKER DEPTH: NA	
COW ABOVE PACKER (FT): NA	PACKER INFORMATION:
CALCULATION: 40.53 (COW) X 0.17 = 6.9 use 7.0 (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
7 / 1245	11.3	7.49	770	Clear
14 / 1308	11.3	7.50	772	
21 / 1331	11.4	7.51	773	
/				
			TURBIDITY: 0.16	NTU (meas in field lab)

COMMENTS:

WL @ WCC-11A = 99.62'

GREENACRES LANDFILL
ANNUAL GROUNDWATER SAMPLING FIELD SHEET 2021

DATE: 11/2/2021	WELL ID: WCC-12	FIELD TEAM: (MT), GF, KM
SAMPLE ID: W-WCC12-211102	QA / QC SAMPLE ID: - NA-	
FIELD CONDITIONS: P. CLOUDY 40s		
DEDICATED BLADDER: X	DISPOSABLE BAILER:	OTHER:

TIMES

START TIME:	1141	QA / QC SAMPLE TIME:	- NA-
SAMPLE TIME:	1215	END TIME:	1221

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):	2 GAL
TOTAL DEPTH OF WELL (FT):	106.00'	3 CASING VOLUME (GAL):	6 GAL
INITIAL DEPTH TO WATER (SWL):	96.95'	PURGE RATE:	
PACKER DEPTH:			
COW ABOVE PACKER (FT):	9.05	PACKER INFORMATION:	
CALCULATION: 9.05 (COW) X 0.17 = 1.53 ≈ 2 GAL (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
2GAL / 1153	14.6	6.72	994	CLEAR
4GAL / 1203	14.5	6.67	991	CLEAR
6GAL / 1212	14.5	6.67	996	CLEAR
/				
			TURBIDITY: 1.12	NTU (~~meas in field lab~~)

COMMENTS:

WL e 6A = 93.55'

WL e 6B 62.67'

WLe MW2 = 38.38'

WLe WCC-134071

GREENACRES LANDFILL
ANNUAL GROUNDWATER SAMPLING FIELD SHEET

DATE: 1-5-2022	WELL ID: WCC10R	FIELD TEAM: MT, GF, KM
SAMPLE ID: W-WCC10R-220105	QA / QC SAMPLE ID: WS-1-1-220105	
FIELD CONDITIONS: Cldy, 28°F		
DEDICATED BLADDER: X	DISPOSABLE BAILER:	OTHER:

TIMES

START TIME: 0931	QA / QC SAMPLE TIME: 1029
SAMPLE TIME: 1045	END TIME: 1050

FIELD MEASUREMENT EQUIPMENT

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH pH 100	467085	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): 12.91'	PURGE RATE: NA
PACKER DEPTH: NA	
COW (FT): 28.49'	PACKER INFORMATION:
CALCULATION: 28.49 (COW) X 0.17 = 4.84 use 5.0 gal/vol (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
5 / 0939	11.9	7.45	1213	very brn silty
10 / 0957	11.6	7.77	411	lt brn
15 / 1019	11.5	7.82	342	very lt tan
20 / 1043	11.5	7.79	320	very lt tan
			TURBIDITY: 6.7	NTU (meas in field lab)

COMMENTS:

* 2 day rush analysis as requested by Austin Stewart
Mn analysis only for this resample

Appendix B: Laboratory Results

Anatek Labs, Inc.

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Client:	Spokane County Utilities	Work Order:	MBK0143
Address:	22515 N. Elk Chattaroy Rd	Project:	X1K0078
	Colbert, WA 99005	Reported:	11/23/2021 14:20
Attn:	Dave Tryon		

Analytical Results Report

Sample Location:	X1K0078-01 (W-SVA1-211102)		
Lab/Sample Number:	MBK0143-01	Collect Date:	11/02/21 08:45
Date Received:	11/03/21 10:51	Collected By:	KM/GF/MT
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Semivolatiles							
Di (2-ethylhexyl) phthalate	ND	ug/L	0.500	11/13/21 0:29	MAH	EPA 8270D	
Pentachlorophenol	ND	ug/L	0.500	11/13/21 0:29	MAH	EPA 8270D	
Surrogate: 2,4,6-Tribromophenol	*78.7%*		*48-120*	*11/13/21 0:29*	*MAH*	*EPA 8270D*	
Surrogate: 2-Fluorobiphenyl	*82.5%*		*57-113*	*11/13/21 0:29*	*MAH*	*EPA 8270D*	
Surrogate: 2-Fluorophenol	*81.7%*		*37-110*	*11/13/21 0:29*	*MAH*	*EPA 8270D*	
Surrogate: Nitrobenzene-d5	*84.5%*		*65-110*	*11/13/21 0:29*	*MAH*	*EPA 8270D*	
Surrogate: Phenol-2,3,4,5,6-d5	*80.6%*		*51-112*	*11/13/21 0:29*	*MAH*	*EPA 8270D*	
Surrogate: Terphenyl-d14	*79.7%*		*57-133*	*11/13/21 0:29*	*MAH*	*EPA 8270D*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
1,1,2-Trichlorethane	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
1,1-Dichloroethylene	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
1,1-Dichloropropene	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
2-hexanone	ND	ug/L	2.50	11/11/21 13:43	TGT	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X1K0078-01 (W-SVA1-211102)
Lab/Sample Number: MBK0143-01 Collect Date: 11/02/21 08:45
Date Received: 11/03/21 10:51 Collected By: KM/GF/MT
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Acetone	ND	ug/L	2.50	11/11/21 13:43	TGT	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
Benzene	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
Bromoform	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
Bromomethane	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
Chlorobenzene (Monochlorobenzene)	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
Chloroethane	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
Chloroform	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
Chloromethane	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
cis-1,2-Dichloroethylene	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
DBCP (screening)	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
EDB (screening)	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
m/p Xylenes (MCL for total)	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
m-Dichlorobenzene	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	11/11/21 13:43	TGT	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	11/11/21 13:43	TGT	EPA 8260D	
Methylene Chloride (Dichloromethane)	ND	ug/L	2.50	11/11/21 13:43	TGT	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
Naphthalene	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
o-Chlorotoluene	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
o-Xylene (MCL for total)	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
p-Chlorotoluene	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
Styrene	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
Tetrachloroethylene	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
Toluene	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
trans-1,2 Dichloroethylene	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X1K0078-01 (W-SVA1-211102)
Lab/Sample Number: MBK0143-01 Collect Date: 11/02/21 08:45
Date Received: 11/03/21 10:51 Collected By: KM/GF/MT
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Trichloroflouromethane	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	11/11/21 13:43	TGT	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*105%*		*70-130*	*11/11/21 13:43*	*TGT*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*97.8%*		*70-130*	*11/11/21 13:43*	*TGT*	*EPA 8260D*	
Surrogate: Toluene-d8	*99.9%*		*70-130*	*11/11/21 13:43*	*TGT*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location: X1K0078-02 (W-WCC)-211102
Lab/Sample Number: MBK0143-02 Collect Date: 11/02/21 08:17
Date Received: 11/03/21 10:51 Collected By: KM/GF/MT
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Semivolatiles							
Di (2-ethylhexyl) phthalate	ND	ug/L	0.500	11/13/21 0:56	MAH	EPA 8270D	
Pentachlorophenol	ND	ug/L	0.500	11/13/21 0:56	MAH	EPA 8270D	
Surrogate: 2,4,6-Tribromophenol	*80.3%*		*48-120*	*11/13/21 0:56*	*MAH*	*EPA 8270D*	
Surrogate: 2-Fluorobiphenyl	*85.1%*		*57-113*	*11/13/21 0:56*	*MAH*	*EPA 8270D*	
Surrogate: 2-Fluorophenol	*85.8%*		*37-110*	*11/13/21 0:56*	*MAH*	*EPA 8270D*	
Surrogate: Nitrobenzene-d5	*87.2%*		*65-110*	*11/13/21 0:56*	*MAH*	*EPA 8270D*	
Surrogate: Phenol-2,3,4,5,6-d5	*83.4%*		*51-112*	*11/13/21 0:56*	*MAH*	*EPA 8270D*	
Surrogate: Terphenyl-d14	*83.3%*		*57-133*	*11/13/21 0:56*	*MAH*	*EPA 8270D*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
1,1,2-Trichlorethane	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
1,1-Dichloroethylene	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
1,1-Dichloropropene	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
2-hexanone	ND	ug/L	2.50	11/11/21 14:12	TGT	EPA 8260D	
Acetone	ND	ug/L	2.50	11/11/21 14:12	TGT	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
Benzene	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
Bromoform	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
Bromomethane	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X1K0078-02 (W-WCC)-211102
Lab/Sample Number: MBK0143-02 Collect Date: 11/02/21 08:17
Date Received: 11/03/21 10:51 Collected By: KM/GF/MT
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Carbon disulfide	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
Chlorobenzene (Monochlorobenzene)	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
Chloroethane	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
Chloroform	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
Chloromethane	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
cis-1,2-Dichloroethylene	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
DBCP (screening)	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
EDB (screening)	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
m/p Xylenes (MCL for total)	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
m-Dichlorobenzene	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	11/11/21 14:12	TGT	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	11/11/21 14:12	TGT	EPA 8260D	
Methylene Chloride (Dichloromethane)	ND	ug/L	2.50	11/11/21 14:12	TGT	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
Naphthalene	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
o-Chlorotoluene	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
o-Xylene (MCL for total)	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
p-Chlorotoluene	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
Styrene	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
Tetrachloroethylene	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
Toluene	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
trans-1,2 Dichloroethylene	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
Trichloroflouromethane	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	11/11/21 14:12	TGT	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*108%*		*70-130*	*11/11/21 14:12*	*TGT*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*97.7%*		*70-130*	*11/11/21 14:12*	*TGT*	*EPA 8260D*	
Surrogate: Toluene-d8	*99.2%*		*70-130*	*11/11/21 14:12*	*TGT*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	X1K0078-02 (W-WCC)-211102		
Lab/Sample Number:	MBK0143-02	Collect Date:	11/02/21 08:17
Date Received:	11/03/21 10:51	Collected By:	KM/GF/MT
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

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Analytical Results Report

(Continued)

Sample Location: X1K0078-03 (W-WCC2-211102)
Lab/Sample Number: MBK0143-03 Collect Date: 11/02/21 11:19
Date Received: 11/03/21 10:51 Collected By: KM/GF/MT
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Semivolatiles							
Di (2-ethylhexyl) phthalate	ND	ug/L	0.500	11/13/21 1:23	MAH	EPA 8270D	
Pentachlorophenol	ND	ug/L	0.500	11/13/21 1:23	MAH	EPA 8270D	
Surrogate: 2,4,6-Tribromophenol	*79.1%*		*48-120*	*11/13/21 1:23*	*MAH*	*EPA 8270D*	
Surrogate: 2-Fluorobiphenyl	*83.0%*		*57-113*	*11/13/21 1:23*	*MAH*	*EPA 8270D*	
Surrogate: 2-Fluorophenol	*49.6%*		*37-110*	*11/13/21 1:23*	*MAH*	*EPA 8270D*	
Surrogate: Nitrobenzene-d5	*82.8%*		*65-110*	*11/13/21 1:23*	*MAH*	*EPA 8270D*	
Surrogate: Phenol-2,3,4,5,6-d5	*46.8%*		*51-112*	*11/13/21 1:23*	*MAH*	*EPA 8270D*	*S15*
Surrogate: Terphenyl-d14	*81.9%*		*57-133*	*11/13/21 1:23*	*MAH*	*EPA 8270D*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
1,1,2-Trichlorethane	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
1,1-Dichloroethylene	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
1,1-Dichloropropene	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
2-hexanone	ND	ug/L	2.50	11/11/21 14:41	TGT	EPA 8260D	
Acetone	ND	ug/L	2.50	11/11/21 14:41	TGT	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
Benzene	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
Bromoform	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
Bromomethane	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X1K0078-03 (W-WCC2-211102)
Lab/Sample Number: MBK0143-03 Collect Date: 11/02/21 11:19
Date Received: 11/03/21 10:51 Collected By: KM/GF/MT
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Carbon disulfide	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
Chlorobenzene (Monochlorobenzene)	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
Chloroethane	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
Chloroform	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
Chloromethane	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
cis-1,2-Dichloroethylene	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
DBCP (screening)	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
EDB (screening)	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
m/p Xylenes (MCL for total)	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
m-Dichlorobenzene	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	11/11/21 14:41	TGT	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	11/11/21 14:41	TGT	EPA 8260D	
Methylene Chloride (Dichloromethane)	ND	ug/L	2.50	11/11/21 14:41	TGT	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
Naphthalene	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
o-Chlorotoluene	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
o-Xylene (MCL for total)	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
p-Chlorotoluene	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
Styrene	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
Tetrachloroethylene	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
Toluene	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
trans-1,2 Dichloroethylene	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
Trichloroflouromethane	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	11/11/21 14:41	TGT	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*106%*		*70-130*	*11/11/21 14:41*	*TGT*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*98.6%*		*70-130*	*11/11/21 14:41*	*TGT*	*EPA 8260D*	
Surrogate: Toluene-d8	*99.3%*		*70-130*	*11/11/21 14:41*	*TGT*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	X1K0078-03 (W-WCC2-211102)		
Lab/Sample Number:	MBK0143-03	Collect Date:	11/02/21 11:19
Date Received:	11/03/21 10:51	Collected By:	KM/GF/MT
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

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Analytical Results Report

(Continued)

Sample Location: X1K0078-04 (W-WCC4A-211102)
Lab/Sample Number: MBK0143-04 Collect Date: 11/02/21 12:21
Date Received: 11/03/21 10:51 Collected By: KM/GF/MT
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Semivolatiles							
Di (2-ethylhexyl) phthalate	ND	ug/L	0.500	11/13/21 1:50	MAH	EPA 8270D	
Pentachlorophenol	ND	ug/L	0.500	11/13/21 1:50	MAH	EPA 8270D	
Surrogate: 2,4,6-Tribromophenol	*86.1%*		*48-120*	*11/13/21 1:50*	*MAH*	*EPA 8270D*	
Surrogate: 2-Fluorobiphenyl	*86.8%*		*57-113*	*11/13/21 1:50*	*MAH*	*EPA 8270D*	
Surrogate: 2-Fluorophenol	*85.4%*		*37-110*	*11/13/21 1:50*	*MAH*	*EPA 8270D*	
Surrogate: Nitrobenzene-d5	*87.8%*		*65-110*	*11/13/21 1:50*	*MAH*	*EPA 8270D*	
Surrogate: Phenol-2,3,4,5,6-d5	*84.3%*		*51-112*	*11/13/21 1:50*	*MAH*	*EPA 8270D*	
Surrogate: Terphenyl-d14	*83.0%*		*57-133*	*11/13/21 1:50*	*MAH*	*EPA 8270D*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
1,1,2-Trichlorethane	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
1,1-Dichloroethylene	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
1,1-Dichloropropene	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
2-hexanone	ND	ug/L	2.50	11/11/21 15:11	TGT	EPA 8260D	
Acetone	ND	ug/L	2.50	11/11/21 15:11	TGT	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
Benzene	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
Bromoform	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
Bromomethane	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X1K0078-04 (W-WCC4A-211102)
Lab/Sample Number: MBK0143-04 Collect Date: 11/02/21 12:21
Date Received: 11/03/21 10:51 Collected By: KM/GF/MT
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Carbon disulfide	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
Chlorobenzene (Monochlorobenzene)	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
Chloroethane	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
Chloroform	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
Chloromethane	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
cis-1,2-Dichloroethylene	2.80	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
DBCP (screening)	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
Dichlorodifluoromethane	0.540	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
EDB (screening)	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
m/p Xylenes (MCL for total)	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
m-Dichlorobenzene	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	11/11/21 15:11	TGT	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	11/11/21 15:11	TGT	EPA 8260D	
Methylene Chloride (Dichloromethane)	ND	ug/L	2.50	11/11/21 15:11	TGT	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
Naphthalene	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
o-Chlorotoluene	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
o-Xylene (MCL for total)	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
p-Chlorotoluene	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
Styrene	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
Tetrachloroethylene	1.24	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
Toluene	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
trans-1,2 Dichloroethylene	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
Trichloroflouromethane	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	11/11/21 15:11	TGT	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*105%*		*70-130*	*11/11/21 15:11*	*TGT*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*97.6%*		*70-130*	*11/11/21 15:11*	*TGT*	*EPA 8260D*	
Surrogate: Toluene-d8	*98.3%*		*70-130*	*11/11/21 15:11*	*TGT*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	X1K0078-04 (W-WCC4A-211102)		
Lab/Sample Number:	MBK0143-04	Collect Date:	11/02/21 12:21
Date Received:	11/03/21 10:51	Collected By:	KM/GF/MT
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

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Analytical Results Report

(Continued)

Sample Location: X1K0078-05 (W-WCC7-211102)
Lab/Sample Number: MBK0143-05 Collect Date: 11/02/21 11:31
Date Received: 11/03/21 10:51 Collected By: KM/GF/MT
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Semivolatiles							
Di (2-ethylhexyl) phthalate	ND	ug/L	0.500	11/13/21 2:17	MAH	EPA 8270D	
Pentachlorophenol	ND	ug/L	0.500	11/13/21 2:17	MAH	EPA 8270D	
Surrogate: 2,4,6-Tribromophenol	*75.3%*		*48-120*	*11/13/21 2:17*	*MAH*	*EPA 8270D*	
Surrogate: 2-Fluorobiphenyl	*84.6%*		*57-113*	*11/13/21 2:17*	*MAH*	*EPA 8270D*	
Surrogate: 2-Fluorophenol	*82.3%*		*37-110*	*11/13/21 2:17*	*MAH*	*EPA 8270D*	
Surrogate: Nitrobenzene-d5	*87.5%*		*65-110*	*11/13/21 2:17*	*MAH*	*EPA 8270D*	
Surrogate: Phenol-2,3,4,5,6-d5	*82.4%*		*51-112*	*11/13/21 2:17*	*MAH*	*EPA 8270D*	
Surrogate: Terphenyl-d14	*82.1%*		*57-133*	*11/13/21 2:17*	*MAH*	*EPA 8270D*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
1,1,2-Trichlorethane	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
1,1-Dichloroethylene	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
1,1-Dichloropropene	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
2-hexanone	ND	ug/L	2.50	11/11/21 15:40	TGT	EPA 8260D	
Acetone	ND	ug/L	2.50	11/11/21 15:40	TGT	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
Benzene	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
Bromoform	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
Bromomethane	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X1K0078-05 (W-WCC7-211102)
Lab/Sample Number: MBK0143-05 Collect Date: 11/02/21 11:31
Date Received: 11/03/21 10:51 Collected By: KM/GF/MT
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Carbon disulfide	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
Chlorobenzene (Monochlorobenzene)	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
Chloroethane	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
Chloroform	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
Chloromethane	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
cis-1,2-Dichloroethylene	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
DBCP (screening)	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
EDB (screening)	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
m/p Xylenes (MCL for total)	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
m-Dichlorobenzene	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	11/11/21 15:40	TGT	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	11/11/21 15:40	TGT	EPA 8260D	
Methylene Chloride (Dichloromethane)	ND	ug/L	2.50	11/11/21 15:40	TGT	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
Naphthalene	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
o-Chlorotoluene	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
o-Xylene (MCL for total)	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
p-Chlorotoluene	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
Styrene	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
Tetrachloroethylene	1.16	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
Toluene	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
trans-1,2 Dichloroethylene	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
Trichloroflouromethane	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	11/11/21 15:40	TGT	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*106%*		*70-130*	*11/11/21 15:40*	*TGT*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*99.1%*		*70-130*	*11/11/21 15:40*	*TGT*	*EPA 8260D*	
Surrogate: Toluene-d8	*99.6%*		*70-130*	*11/11/21 15:40*	*TGT*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	X1K0078-05 (W-WCC7-211102)		
Lab/Sample Number:	MBK0143-05	Collect Date:	11/02/21 11:31
Date Received:	11/03/21 10:51	Collected By:	KM/GF/MT
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

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Analytical Results Report

(Continued)

Sample Location: X1K0078-06 (W-WCC8-211102)
Lab/Sample Number: MBK0143-06 Collect Date: 11/02/21 10:45
Date Received: 11/03/21 10:51 Collected By: KM/GF/MT
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Semivolatiles							
Di (2-ethylhexyl) phthalate	ND	ug/L	0.500	11/13/21 2:44	MAH	EPA 8270D	
Pentachlorophenol	ND	ug/L	0.500	11/13/21 2:44	MAH	EPA 8270D	
Surrogate: 2,4,6-Tribromophenol	*82.0%*		*48-120*	*11/13/21 2:44*	*MAH*	*EPA 8270D*	
Surrogate: 2-Fluorobiphenyl	*85.9%*		*57-113*	*11/13/21 2:44*	*MAH*	*EPA 8270D*	
Surrogate: 2-Fluorophenol	*86.1%*		*37-110*	*11/13/21 2:44*	*MAH*	*EPA 8270D*	
Surrogate: Nitrobenzene-d5	*88.4%*		*65-110*	*11/13/21 2:44*	*MAH*	*EPA 8270D*	
Surrogate: Phenol-2,3,4,5,6-d5	*82.9%*		*51-112*	*11/13/21 2:44*	*MAH*	*EPA 8270D*	
Surrogate: Terphenyl-d14	*82.0%*		*57-133*	*11/13/21 2:44*	*MAH*	*EPA 8270D*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
1,1,2-Trichlorethane	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
1,1-Dichloroethylene	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
1,1-Dichloropropene	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
2-hexanone	ND	ug/L	2.50	11/11/21 16:10	TGT	EPA 8260D	
Acetone	ND	ug/L	2.50	11/11/21 16:10	TGT	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
Benzene	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
Bromoform	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
Bromomethane	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X1K0078-06 (W-WCC8-211102)
Lab/Sample Number: MBK0143-06 Collect Date: 11/02/21 10:45
Date Received: 11/03/21 10:51 Collected By: KM/GF/MT
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Carbon disulfide	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
Chlorobenzene (Monochlorobenzene)	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
Chloroethane	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
Chloroform	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
Chloromethane	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
cis-1,2-Dichloroethylene	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
DBCP (screening)	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
EDB (screening)	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
m/p Xylenes (MCL for total)	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
m-Dichlorobenzene	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	11/11/21 16:10	TGT	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	11/11/21 16:10	TGT	EPA 8260D	
Methylene Chloride (Dichloromethane)	ND	ug/L	2.50	11/11/21 16:10	TGT	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
Naphthalene	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
o-Chlorotoluene	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
o-Xylene (MCL for total)	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
p-Chlorotoluene	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
Styrene	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
Tetrachloroethylene	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
Toluene	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
trans-1,2 Dichloroethylene	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
Trichloroflouromethane	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	11/11/21 16:10	TGT	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*106%*		*70-130*	*11/11/21 16:10*	*TGT*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*97.6%*		*70-130*	*11/11/21 16:10*	*TGT*	*EPA 8260D*	
Surrogate: Toluene-d8	*98.6%*		*70-130*	*11/11/21 16:10*	*TGT*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	X1K0078-06 (W-WCC8-211102)		
Lab/Sample Number:	MBK0143-06	Collect Date:	11/02/21 10:45
Date Received:	11/03/21 10:51	Collected By:	KM/GF/MT
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

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Analytical Results Report

(Continued)

Sample Location: X1K0078-07 (W-WCC9-211102)
Lab/Sample Number: MBK0143-07 Collect Date: 11/02/21 10:26
Date Received: 11/03/21 10:51 Collected By: KM/GF/MT
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Semivolatiles							
Di (2-ethylhexyl) phthalate	ND	ug/L	0.500	11/13/21 3:11	MAH	EPA 8270D	
Pentachlorophenol	ND	ug/L	0.500	11/13/21 3:11	MAH	EPA 8270D	
Surrogate: 2,4,6-Tribromophenol	*81.8%*		*48-120*	*11/13/21 3:11*	*MAH*	*EPA 8270D*	
Surrogate: 2-Fluorobiphenyl	*83.8%*		*57-113*	*11/13/21 3:11*	*MAH*	*EPA 8270D*	
Surrogate: 2-Fluorophenol	*83.8%*		*37-110*	*11/13/21 3:11*	*MAH*	*EPA 8270D*	
Surrogate: Nitrobenzene-d5	*84.8%*		*65-110*	*11/13/21 3:11*	*MAH*	*EPA 8270D*	
Surrogate: Phenol-2,3,4,5,6-d5	*81.3%*		*51-112*	*11/13/21 3:11*	*MAH*	*EPA 8270D*	
Surrogate: Terphenyl-d14	*80.4%*		*57-133*	*11/13/21 3:11*	*MAH*	*EPA 8270D*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
1,1,2-Trichlorethane	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
1,1-Dichloroethylene	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
1,1-Dichloropropene	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
2-hexanone	ND	ug/L	2.50	11/11/21 16:39	TGT	EPA 8260D	
Acetone	ND	ug/L	2.50	11/11/21 16:39	TGT	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
Benzene	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
Bromoform	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
Bromomethane	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X1K0078-07 (W-WCC9-211102)
Lab/Sample Number: MBK0143-07 Collect Date: 11/02/21 10:26
Date Received: 11/03/21 10:51 Collected By: KM/GF/MT
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Carbon disulfide	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
Chlorobenzene (Monochlorobenzene)	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
Chloroethane	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
Chloroform	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
Chloromethane	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
cis-1,2-Dichloroethylene	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
DBCP (screening)	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
EDB (screening)	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
m/p Xylenes (MCL for total)	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
m-Dichlorobenzene	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	11/11/21 16:39	TGT	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	11/11/21 16:39	TGT	EPA 8260D	
Methylene Chloride (Dichloromethane)	ND	ug/L	2.50	11/11/21 16:39	TGT	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
Naphthalene	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
o-Chlorotoluene	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
o-Xylene (MCL for total)	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
p-Chlorotoluene	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
Styrene	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
Tetrachloroethylene	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
Toluene	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
trans-1,2 Dichloroethylene	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
Trichloroflouromethane	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	11/11/21 16:39	TGT	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*107%*		*70-130*	*11/11/21 16:39*	*TGT*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*98.9%*		*70-130*	*11/11/21 16:39*	*TGT*	*EPA 8260D*	
Surrogate: Toluene-d8	*99.6%*		*70-130*	*11/11/21 16:39*	*TGT*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	X1K0078-07 (W-WCC9-211102)		
Lab/Sample Number:	MBK0143-07	Collect Date:	11/02/21 10:26
Date Received:	11/03/21 10:51	Collected By:	KM/GF/MT
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

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Analytical Results Report

(Continued)

Sample Location: X1K0078-08 (W-WCC10R-211102)
Lab/Sample Number: MBK0143-08 Collect Date: 11/02/21 08:50
Date Received: 11/03/21 10:51 Collected By: KM/GF/MT
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Semivolatiles							
Di (2-ethylhexyl) phthalate	ND	ug/L	0.500	11/13/21 3:38	MAH	EPA 8270D	
Pentachlorophenol	ND	ug/L	0.500	11/13/21 3:38	MAH	EPA 8270D	
Surrogate: 2,4,6-Tribromophenol	*85.2%*		*48-120*	*11/13/21 3:38*	*MAH*	*EPA 8270D*	
Surrogate: 2-Fluorobiphenyl	*82.7%*		*57-113*	*11/13/21 3:38*	*MAH*	*EPA 8270D*	
Surrogate: 2-Fluorophenol	*79.9%*		*37-110*	*11/13/21 3:38*	*MAH*	*EPA 8270D*	
Surrogate: Nitrobenzene-d5	*82.8%*		*65-110*	*11/13/21 3:38*	*MAH*	*EPA 8270D*	
Surrogate: Phenol-2,3,4,5,6-d5	*79.4%*		*51-112*	*11/13/21 3:38*	*MAH*	*EPA 8270D*	
Surrogate: Terphenyl-d14	*58.8%*		*57-133*	*11/13/21 3:38*	*MAH*	*EPA 8270D*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
1,1,2-Trichlorethane	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
1,1-Dichloroethylene	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
1,1-Dichloropropene	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
2-hexanone	ND	ug/L	2.50	11/11/21 17:08	TGT	EPA 8260D	
Acetone	ND	ug/L	2.50	11/11/21 17:08	TGT	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
Benzene	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
Bromoform	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
Bromomethane	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X1K0078-08 (W-WCC10R-211102)
Lab/Sample Number: MBK0143-08 Collect Date: 11/02/21 08:50
Date Received: 11/03/21 10:51 Collected By: KM/GF/MT
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Carbon disulfide	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
Chlorobenzene (Monochlorobenzene)	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
Chloroethane	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
Chloroform	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
Chloromethane	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
cis-1,2-Dichloroethylene	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
DBCP (screening)	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
EDB (screening)	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
m/p Xylenes (MCL for total)	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
m-Dichlorobenzene	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	11/11/21 17:08	TGT	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	11/11/21 17:08	TGT	EPA 8260D	
Methylene Chloride (Dichloromethane)	ND	ug/L	2.50	11/11/21 17:08	TGT	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
Naphthalene	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
o-Chlorotoluene	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
o-Xylene (MCL for total)	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
p-Chlorotoluene	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
Styrene	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
Tetrachloroethylene	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
Toluene	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
trans-1,2 Dichloroethylene	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
Trichloroflouromethane	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	11/11/21 17:08	TGT	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*106%*		*70-130*	*11/11/21 17:08*	*TGT*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*98.1%*		*70-130*	*11/11/21 17:08*	*TGT*	*EPA 8260D*	
Surrogate: Toluene-d8	*101%*		*70-130*	*11/11/21 17:08*	*TGT*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	X1K0078-08 (W-WCC10R-211102)		
Lab/Sample Number:	MBK0143-08	Collect Date:	11/02/21 08:50
Date Received:	11/03/21 10:51	Collected By:	KM/GF/MT
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

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Analytical Results Report

(Continued)

Sample Location: X1K0078-09 (W-WCC11B-211102)
Lab/Sample Number: MBK0143-09 Collect Date: 11/02/21 13:33
Date Received: 11/03/21 10:51 Collected By: KM/GF/MT
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Semivolatiles							
Di (2-ethylhexyl) phthalate	ND	ug/L	0.500	11/13/21 4:05	MAH	EPA 8270D	
Pentachlorophenol	ND	ug/L	0.500	11/13/21 4:05	MAH	EPA 8270D	
Surrogate: 2,4,6-Tribromophenol	*80.5%*		*48-120*	*11/13/21 4:05*	*MAH*	*EPA 8270D*	
Surrogate: 2-Fluorobiphenyl	*85.7%*		*57-113*	*11/13/21 4:05*	*MAH*	*EPA 8270D*	
Surrogate: 2-Fluorophenol	*83.0%*		*37-110*	*11/13/21 4:05*	*MAH*	*EPA 8270D*	
Surrogate: Nitrobenzene-d5	*87.9%*		*65-110*	*11/13/21 4:05*	*MAH*	*EPA 8270D*	
Surrogate: Phenol-2,3,4,5,6-d5	*81.7%*		*51-112*	*11/13/21 4:05*	*MAH*	*EPA 8270D*	
Surrogate: Terphenyl-d14	*78.7%*		*57-133*	*11/13/21 4:05*	*MAH*	*EPA 8270D*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
1,1,2-Trichlorethane	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
1,1-Dichloroethylene	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
1,1-Dichloropropene	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
2-hexanone	ND	ug/L	2.50	11/11/21 17:38	TGT	EPA 8260D	
Acetone	ND	ug/L	2.50	11/11/21 17:38	TGT	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
Benzene	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
Bromoform	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
Bromomethane	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X1K0078-09 (W-WCC11B-211102)
Lab/Sample Number: MBK0143-09 Collect Date: 11/02/21 13:33
Date Received: 11/03/21 10:51 Collected By: KM/GF/MT
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Carbon disulfide	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
Chlorobenzene (Monochlorobenzene)	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
Chloroethane	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
Chloroform	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
Chloromethane	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
cis-1,2-Dichloroethylene	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
DBCP (screening)	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
Dichlorodifluoromethane	1.29	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
EDB (screening)	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
m/p Xylenes (MCL for total)	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
m-Dichlorobenzene	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	11/11/21 17:38	TGT	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	11/11/21 17:38	TGT	EPA 8260D	
Methylene Chloride (Dichloromethane)	ND	ug/L	2.50	11/11/21 17:38	TGT	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
Naphthalene	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
o-Chlorotoluene	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
o-Xylene (MCL for total)	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
p-Chlorotoluene	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
Styrene	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
Tetrachloroethylene	7.24	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
Toluene	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
trans-1,2 Dichloroethylene	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
Trichloroethene	0.860	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
Trichloroflouromethane	0.500	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	11/11/21 17:38	TGT	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*106%*		*70-130*	*11/11/21 17:38*	*TGT*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*98.9%*		*70-130*	*11/11/21 17:38*	*TGT*	*EPA 8260D*	
Surrogate: Toluene-d8	*99.3%*		*70-130*	*11/11/21 17:38*	*TGT*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	X1K0078-09 (W-WCC11B-211102)		
Lab/Sample Number:	MBK0143-09	Collect Date:	11/02/21 13:33
Date Received:	11/03/21 10:51	Collected By:	KM/GF/MT
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

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Analytical Results Report

(Continued)

Sample Location: X1K0078-10 (W-WCC12-211102)
Lab/Sample Number: MBK0143-10 Collect Date: 11/02/21 12:15
Date Received: 11/03/21 10:51 Collected By: KM/GF/MT
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Semivolatiles							
Di (2-ethylhexyl) phthalate	ND	ug/L	0.500	11/13/21 4:31	MAH	EPA 8270D	
Pentachlorophenol	ND	ug/L	0.500	11/13/21 4:31	MAH	EPA 8270D	
Surrogate: 2,4,6-Tribromophenol	*92.7%*		*48-120*	*11/13/21 4:31*	*MAH*	*EPA 8270D*	
Surrogate: 2-Fluorobiphenyl	*84.2%*		*57-113*	*11/13/21 4:31*	*MAH*	*EPA 8270D*	
Surrogate: 2-Fluorophenol	*84.5%*		*37-110*	*11/13/21 4:31*	*MAH*	*EPA 8270D*	
Surrogate: Nitrobenzene-d5	*87.2%*		*65-110*	*11/13/21 4:31*	*MAH*	*EPA 8270D*	
Surrogate: Phenol-2,3,4,5,6-d5	*81.1%*		*51-112*	*11/13/21 4:31*	*MAH*	*EPA 8270D*	
Surrogate: Terphenyl-d14	*76.0%*		*57-133*	*11/13/21 4:31*	*MAH*	*EPA 8270D*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
1,1,2-Trichlorethane	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
1,1-Dichloroethylene	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
1,1-Dichloropropene	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
1,2-Dichloroethane	1.71	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
2-hexanone	ND	ug/L	2.50	11/11/21 18:07	TGT	EPA 8260D	
Acetone	ND	ug/L	2.50	11/11/21 18:07	TGT	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
Benzene	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
Bromoform	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
Bromomethane	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X1K0078-10 (W-WCC12-211102)
Lab/Sample Number: MBK0143-10 Collect Date: 11/02/21 12:15
Date Received: 11/03/21 10:51 Collected By: KM/GF/MT
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Carbon disulfide	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
Chlorobenzene (Monochlorobenzene)	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
Chloroethane	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
Chloroform	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
Chloromethane	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
cis-1,2-Dichloroethylene	5.74	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
DBCP (screening)	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
EDB (screening)	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
m/p Xylenes (MCL for total)	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
m-Dichlorobenzene	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	11/11/21 18:07	TGT	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	11/11/21 18:07	TGT	EPA 8260D	
Methylene Chloride (Dichloromethane)	ND	ug/L	2.50	11/11/21 18:07	TGT	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
Naphthalene	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
o-Chlorotoluene	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
o-Xylene (MCL for total)	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
p-Chlorotoluene	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
Styrene	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
Tetrachloroethylene	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
Toluene	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
trans-1,2 Dichloroethylene	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
Trichloroflouromethane	ND	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
Vinyl Chloride	3.60	ug/L	0.500	11/11/21 18:07	TGT	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*108%*		*70-130*	*11/11/21 18:07*	*TGT*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*98.6%*		*70-130*	*11/11/21 18:07*	*TGT*	*EPA 8260D*	
Surrogate: Toluene-d8	*96.6%*		*70-130*	*11/11/21 18:07*	*TGT*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	X1K0078-10 (W-WCC12-211102)		
Lab/Sample Number:	MBK0143-10	Collect Date:	11/02/21 12:15
Date Received:	11/03/21 10:51	Collected By:	KM/GF/MT
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

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Analytical Results Report

(Continued)

Sample Location: X1K0078-11 (WS-1-1-211102)
Lab/Sample Number: MBK0143-11 Collect Date: 11/02/21 09:27
Date Received: 11/03/21 10:51 Collected By: KM/GF/MT
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Semivolatiles							
Di (2-ethylhexyl) phthalate	ND	ug/L	0.500	11/13/21 4:59	MAH	EPA 8270D	
Pentachlorophenol	ND	ug/L	0.500	11/13/21 4:59	MAH	EPA 8270D	
Surrogate: 2,4,6-Tribromophenol	*79.0%*		*48-120*	*11/13/21 4:59*	*MAH*	*EPA 8270D*	
Surrogate: 2-Fluorobiphenyl	*88.3%*		*57-113*	*11/13/21 4:59*	*MAH*	*EPA 8270D*	
Surrogate: 2-Fluorophenol	*82.1%*		*37-110*	*11/13/21 4:59*	*MAH*	*EPA 8270D*	
Surrogate: Nitrobenzene-d5	*89.4%*		*65-110*	*11/13/21 4:59*	*MAH*	*EPA 8270D*	
Surrogate: Phenol-2,3,4,5,6-d5	*73.8%*		*51-112*	*11/13/21 4:59*	*MAH*	*EPA 8270D*	
Surrogate: Terphenyl-d14	*82.8%*		*57-133*	*11/13/21 4:59*	*MAH*	*EPA 8270D*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
1,1,2-Trichlorethane	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
1,1-Dichloroethylene	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
1,1-Dichloropropene	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
2-hexanone	ND	ug/L	2.50	11/11/21 18:36	TGT	EPA 8260D	
Acetone	ND	ug/L	2.50	11/11/21 18:36	TGT	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
Benzene	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
Bromoform	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
Bromomethane	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X1K0078-11 (WS-1-1-211102)
Lab/Sample Number: MBK0143-11 Collect Date: 11/02/21 09:27
Date Received: 11/03/21 10:51 Collected By: KM/GF/MT
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Carbon disulfide	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
Chlorobenzene (Monochlorobenzene)	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
Chloroethane	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
Chloroform	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
Chloromethane	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
cis-1,2-Dichloroethylene	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
DBCP (screening)	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
EDB (screening)	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
m/p Xylenes (MCL for total)	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
m-Dichlorobenzene	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	11/11/21 18:36	TGT	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	11/11/21 18:36	TGT	EPA 8260D	
Methylene Chloride (Dichloromethane)	ND	ug/L	2.50	11/11/21 18:36	TGT	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
Naphthalene	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
o-Chlorotoluene	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
o-Xylene (MCL for total)	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
p-Chlorotoluene	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
Styrene	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
Tetrachloroethylene	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
Toluene	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
trans-1,2 Dichloroethylene	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
Trichloroflouromethane	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	11/11/21 18:36	TGT	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*108%*		*70-130*	*11/11/21 18:36*	*TGT*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*94.5%*		*70-130*	*11/11/21 18:36*	*TGT*	*EPA 8260D*	
Surrogate: Toluene-d8	*97.2%*		*70-130*	*11/11/21 18:36*	*TGT*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	X1K0078-11 (WS-1-1-211102)		
Lab/Sample Number:	MBK0143-11	Collect Date:	11/02/21 09:27
Date Received:	11/03/21 10:51	Collected By:	KM/GF/MT
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

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Analytical Results Report

(Continued)

Sample Location: X1K0078-12 (WS-2-1-211102)
Lab/Sample Number: MBK0143-12 Collect Date: 11/02/21 00:00
Date Received: 11/03/21 10:51 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
1,1,2-Trichlorethane	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
1,1-Dichloroethylene	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
1,1-Dichloropropene	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
2-Chloroethyl vinyl ether	ND	ug/L	2.50	11/11/21 13:13	TGT	EPA 8260D	
2-hexanone	ND	ug/L	2.50	11/11/21 13:13	TGT	EPA 8260D	
Acetone	ND	ug/L	2.50	11/11/21 13:13	TGT	EPA 8260D	
Acrolein	ND	ug/L	2.50	11/11/21 13:13	TGT	EPA 8260D	
Acrylonitrile	ND	ug/L	2.50	11/11/21 13:13	TGT	EPA 8260D	
Benzene	ND	ug/L	0.200	11/11/21 13:13	TGT	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.200	11/11/21 13:13	TGT	EPA 8260D	
Bromoform	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
Bromomethane	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
Carbon disulfide	ND	ug/L	2.50	11/11/21 13:13	TGT	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.200	11/11/21 13:13	TGT	EPA 8260D	
Chlorobenzene (Monochlorobenzene)	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
Chloroethane	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
Chloroform	ND	ug/L	0.200	11/11/21 13:13	TGT	EPA 8260D	
Chloromethane	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
cis-1,2-Dichloroethylene	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.200	11/11/21 13:13	TGT	EPA 8260D	
DBCP (screening)	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
EDB (screening)	ND	ug/L	0.200	11/11/21 13:13	TGT	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X1K0078-12 (WS-2-1-211102)
Lab/Sample Number: MBK0143-12 Collect Date: 11/02/21 00:00
Date Received: 11/03/21 10:51 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
m/p Xylenes (MCL for total)	ND	ug/L	1.00	11/11/21 13:13	TGT	EPA 8260D	
m-Dichlorobenzene	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	11/11/21 13:13	TGT	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	11/11/21 13:13	TGT	EPA 8260D	
Methylene Chloride (Dichloromethane)	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
Naphthalene	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
o-Chlorotoluene	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
o-Xylene (MCL for total)	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
p-Chlorotoluene	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
Styrene	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
Tetrachloroethylene	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
Toluene	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
Total Xylenes	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
trans-1,2 Dichloroethylene	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.200	11/11/21 13:13	TGT	EPA 8260D	
trans-1-4-Dichloro-2-butene	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
Trichloroflouromethane	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
Vinyl acetate	ND	ug/L	0.500	11/11/21 13:13	TGT	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.200	11/11/21 13:13	TGT	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*106%*		*70-130*	*11/11/21 13:13*	*TGT*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*99.4%*		*70-130*	*11/11/21 13:13*	*TGT*	*EPA 8260D*	
Surrogate: Toluene-d8	*99.6%*		*70-130*	*11/11/21 13:13*	*TGT*	*EPA 8260D*	

Authorized Signature,

Justin Doty For Todd Taruscio, Laboratory Manager

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M1	Matrix spike recovery was high; the associated blank spike recovery was acceptable. Potential matrix effect
S15	Surrogate recovery for one of the six surrogates was below laboratory and method acceptance limits. Potential matrix effect.
PQL	Practical Quantitation Limit
ND	Not Detected
MCL	EPA's Maximum Contaminant Level
Dry	Sample results reported on a dry weight basis
*	Not a state-certified analyte

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

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Quality Control Data

Semivolatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBK0265 - SVOC Water										
Blank (BBK0265-BLK1)					Prepared: 11/8/2021 Analyzed: 11/12/2021					
Di (2-ethylhexyl) phthalate	ND		0.500	ug/L						
Pentachlorophenol	ND		0.500	ug/L						
Surrogate: Phenol-2,3,4,5,6-d5			*35.7*	*ug/L*	*50.5*		*70.7*	*51-112*		
Surrogate: Nitrobenzene-d5			*19.8*	*ug/L*	*25.0*		*79.3*	*65-110*		
Surrogate: Terphenyl-d14			*22.5*	*ug/L*	*25.8*		*87.4*	*57-133*		
Surrogate: 2-Fluorophenol			*29.8*	*ug/L*	*50.0*		*59.6*	*37-110*		
Surrogate: 2-Fluorobiphenyl			*17.8*	*ug/L*	*25.5*		*69.7*	*57-113*		
Surrogate: 2,4,6-Tribromophenol			*38.1*	*ug/L*	*51.8*		*73.5*	*48-120*		
LCS (BBK0265-BS1)					Prepared: 11/8/2021 Analyzed: 11/12/2021					
Di (2-ethylhexyl) phthalate	4.17		0.500	ug/L	5.00		83.4	60-144		
Pentachlorophenol	4.89		0.500	ug/L	5.00		97.8	51-118		
LCS Dup (BBK0265-BSD1)					Prepared: 11/8/2021 Analyzed: 11/12/2021					
Di (2-ethylhexyl) phthalate	4.01		0.500	ug/L	5.00		80.2	60-144	3.91	32
Pentachlorophenol	4.96		0.500	ug/L	5.00		99.2	51-118	1.42	25
Matrix Spike (BBK0265-MS1)		**Source: MBK0143-06**			Prepared: 11/8/2021 Analyzed: 11/12/2021					
Di (2-ethylhexyl) phthalate	3.97		0.500	ug/L	5.00	ND	79.4	50-130		
Pentachlorophenol	4.84		0.500	ug/L	5.00	ND	96.8	50-130		
Matrix Spike Dup (BBK0265-MSD1)		**Source: MBK0143-06**			Prepared: 11/8/2021 Analyzed: 11/12/2021					
Pentachlorophenol	4.75		0.500	ug/L	5.00	ND	95.0	50-130	1.88	40
Di (2-ethylhexyl) phthalate	3.46		0.500	ug/L	5.00	ND	69.2	50-130	13.7	40

Quality Control Data

Volatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBK0448 - VOC										
Blank (BBK0448-BLK1)					Prepared & Analyzed: 11/11/2021					
cis-1,3-Dichloropropene	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						
Carbon Tetrachloride	ND		0.500	ug/L						
Dibromochloromethane	ND		0.500	ug/L						
Tetrachloroethylene	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						
Chloroethane	ND		0.500	ug/L						
Chlorobenzene (Monochlorobenzene)	ND		0.500	ug/L						
Methyl isobutyl ketone (MIBK)	ND		2.50	ug/L						
Dibromomethane	ND		0.500	ug/L						
tert-Butylbenzene	ND		0.500	ug/L						

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBK0448 - VOC (Continued)										
Blank (BBK0448-BLK1)					Prepared & Analyzed: 11/11/2021					
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						
Styrene	ND		0.500	ug/L						
Naphthalene	ND		0.500	ug/L						
Methylene Chloride (Dichloromethane)	ND		2.50	ug/L						
Carbon disulfide	ND		0.500	ug/L						
sec-Butylbenzene	ND		0.500	ug/L						
p-isopropyltoluene	ND		0.500	ug/L						
o-Xylene (MCL for total)	ND		0.500	ug/L						
n-Butylbenzene	ND		0.500	ug/L						
methyl-t-butyl ether (MTBE)	ND		0.500	ug/L						
Toluene	ND		0.500	ug/L						
1,2,3-Trichlorobenzene	ND		0.500	ug/L						
1,1,1,2-Tetrachloroethane	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-Dichloroethane	ND		0.500	ug/L						
1,2,3-Trichloropropane	ND		0.500	ug/L						
1,1-Dichloroethylene	ND		0.500	ug/L						
1,1-Dichloropropene	ND		0.500	ug/L						
1,1-Dichloroethane	ND		0.500	ug/L						
1,1,2,2-Tetrachloroethane	ND		0.500	ug/L						
1,1,1-Trichloroethane	ND		0.500	ug/L						
Bromomethane	ND		0.500	ug/L						
n-Propylbenzene	ND		0.500	ug/L						
1,2,4-Trichlorobenzene	ND		0.500	ug/L						
Benzene	ND		0.500	ug/L						
Bromoform	ND		0.500	ug/L						
Bromodichloromethane	ND		0.500	ug/L						
1,1,2-Trichlorethane	ND		0.500	ug/L						
1,2-Dichloropropane	ND		0.500	ug/L						
Bromochloromethane	ND		0.500	ug/L						
Bromobenzene	ND		0.500	ug/L						
Acrylonitrile	ND		0.500	ug/L						
Acetone	ND		2.50	ug/L						
p-Chlorotoluene	ND		0.500	ug/L						
2-hexanone	ND		2.50	ug/L						
o-Chlorotoluene	ND		0.500	ug/L						
1,3,5-Trimethylbenzene	ND		0.500	ug/L						
2,2-Dichloropropane	ND		0.500	ug/L						
m-Dichlorobenzene	ND		0.500	ug/L						
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND		0.500	ug/L						
1,3-Dichloropropane	ND		0.500	ug/L						
Surrogate: Toluene-d8			*24.5*	*ug/L*	*25.0*		*97.8*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*23.6*	*ug/L*	*25.0*		*94.4*	*70-130*		

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBK0448 - VOC (Continued)										
Blank (BBK0448-BLK1)					Prepared & Analyzed: 11/11/2021					
Surrogate: 1,2-Dichlorobenzene-d4			*20.2*	*ug/L*	*19.0*		*106*	*70-130*		
LCS (BBK0448-BS1)					Prepared & Analyzed: 11/11/2021					
Carbon disulfide	9.84		0.500	ug/L	10.0		98.4	80-120		
cis-1,3-Dichloropropene	10.2		0.500	ug/L	10.0		102	79-123		
cis-1,2-Dichloroethylene	9.81		0.500	ug/L	10.0		98.1	80-120		
Chloroform	10.5		0.500	ug/L	10.0		105	80-120		
Chloroethane	9.69		0.500	ug/L	10.0		96.9	78-120		
Chlorobenzene (Monochlorobenzene)	10.1		0.500	ug/L	10.0		101	80-120		
Bromodichloromethane	10.0		0.500	ug/L	10.0		100	80-120		
Carbon Tetrachloride	10.3		0.500	ug/L	10.0		103	80-120		
Bromoform	9.21		0.500	ug/L	10.0		92.1	68-133		
Dibromochloromethane	9.47		0.500	ug/L	10.0		94.7	80-121		
methyl-t-butyl ether (MTBE)	10.0		0.500	ug/L	10.0		100	71-130		
Bromochloromethane	9.01		0.500	ug/L	10.0		90.1	80-120		
Bromobenzene	8.95		0.500	ug/L	10.0		89.5	80-120		
Dibromomethane	9.06		0.500	ug/L	10.0		90.6	80-120		
Dichlorodifluoromethane	11.6		0.500	ug/L	10.0		116	57-130		
Ethylbenzene	11.1		0.500	ug/L	10.0		111	80-120		
Hexachlorobutadiene	11.5		0.500	ug/L	10.0		115	80-120		
Isopropylbenzene	10.4		0.500	ug/L	10.0		104	80-120		
m/p Xylenes (MCL for total)	22.7		0.500	ug/L	20.0		113	80-120		
Methyl isobutyl ketone (MIBK)	10.0		2.50	ug/L	10.0		100	70-136		
Naphthalene	10.8		0.500	ug/L	10.0		108	66-133		
n-Butylbenzene	12.3		0.500	ug/L	10.0		123	74-125		
n-Propylbenzene	11.0		0.500	ug/L	10.0		110	80-120		
Benzene	10.7		0.500	ug/L	10.0		107	80-120		
1,2,4-Trichlorobenzene	10.4		0.500	ug/L	10.0		104	80-120		
o-Xylene (MCL for total)	11.2		0.500	ug/L	10.0		112	80-120		
Methyl ethyl ketone (MEK)	9.92		2.50	ug/L	10.0		99.2	55-154		
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	10.2		0.500	ug/L	10.0		102	80-120		
Styrene	10.4		0.500	ug/L	10.0		104	80-120		
sec-Butylbenzene	10.6		0.500	ug/L	10.0		106	80-120		
1,1,1,2-Tetrachloroethane	9.43		0.500	ug/L	10.0		94.3	80-120		
1,1,1-Trichloroethane	10.5		0.500	ug/L	10.0		105	80-120		
1,1,2,2-Tetrachloroethane	11.2		0.500	ug/L	10.0		112	77-123		
1,1,2-Trichlorethane	10.6		0.500	ug/L	10.0		106	80-120		
1,1-Dichloroethane	10.4		0.500	ug/L	10.0		104	80-120		
1,1-Dichloroethylene	10.3		0.500	ug/L	10.0		103	70-129		
1,1-Dichloropropene	11.2		0.500	ug/L	10.0		112	80-120		
1,2,3-Trichlorobenzene	11.0		0.500	ug/L	10.0		110	78-120		
1,2,3-Trichloropropane	10.6		0.500	ug/L	10.0		106	80-120		
DBCP (screening)	10.0		0.500	ug/L	10.0		100	71-128		
EDB (screening)	9.87		0.500	ug/L	10.0		98.7	70-130		
Acrylonitrile	10.1		0.500	ug/L	10.0		101	73-131		
1,2-Dichloroethane	10.1		0.500	ug/L	10.0		101	80-120		
1,2-Dichloropropane	10.5		0.500	ug/L	10.0		105	80-120		
1,3,5-Trimethylbenzene	10.4		0.500	ug/L	10.0		104	80-121		
m-Dichlorobenzene	10.3		0.500	ug/L	10.0		103	80-120		
1,3-Dichloropropane	11.1		0.500	ug/L	10.0		111	80-120		

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBK0448 - VOC (Continued)										
LCS (BBK0448-BS1)					Prepared & Analyzed: 11/11/2021					
1,4-Dichlorobenzene (para-Dichlorobenzene)	10.2		0.500	ug/L	10.0		102	80-120		
2,2-Dichloropropane	10.4		0.500	ug/L	10.0		104	80-120		
o-Chlorotoluene	10.5		0.500	ug/L	10.0		105	80-120		
2-hexanone	10.8		2.50	ug/L	10.0		108	65-140		
p-Chlorotoluene	10.6		0.500	ug/L	10.0		106	80-124		
1,2,4-Trimethylbenzene	10.4		0.500	ug/L	10.0		104	80-120		
Trichloroethene	9.07		0.500	ug/L	10.0		90.7	80-120		
Trichloroflouromethane	11.6		0.500	ug/L	10.0		116	61-140		
p-isopropyltoluene	9.93		0.500	ug/L	10.0		99.3	80-120		
trans-1,3-Dichloropropene	11.1		0.500	ug/L	10.0		111	69-130		
trans-1,2 Dichloroethylene	10.5		0.500	ug/L	10.0		105	80-120		
Toluene	10.4		0.500	ug/L	10.0		104	80-120		
Tetrachloroethylene	9.14		0.500	ug/L	10.0		91.4	80-120		
tert-Butylbenzene	10.7		0.500	ug/L	10.0		107	80-120		
Vinyl Chloride	10.4		0.500	ug/L	10.0		104	75-120		
Surrogate: 4-Bromofluorobenzene			*27.1*	*ug/L*	*25.0*		*108*	*70-130*		
Surrogate: Toluene-d8			*25.2*	*ug/L*	*25.0*		*101*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*19.0*	*ug/L*	*19.0*		*100*	*70-130*		
Matrix Spike (BBK0448-MS1)		**Source: MBK0143-06**			Prepared & Analyzed: 11/11/2021					
Dibromomethane	9.62		0.500	ug/L	10.0	ND	96.2	70-130		
Methyl ethyl ketone (MEK)	9.75		2.50	ug/L	10.0	ND	97.5	47-165		
m/p Xylenes (MCL for total)	24.5		0.500	ug/L	20.0	ND	122	57-130		
Isopropylbenzene	11.1		0.500	ug/L	10.0	ND	111	70-130		
Hexachlorobutadiene	13.7	M1	0.500	ug/L	10.0	ND	137	70-130		
Ethylbenzene	11.9		0.500	ug/L	10.0	ND	119	70-130		
Dichlorodifluoromethane	10.5		0.500	ug/L	10.0	ND	105	57-136		
Dibromochloromethane	10.1		0.500	ug/L	10.0	ND	101	70-130		
cis-1,3-Dichloropropene	11.1		0.500	ug/L	10.0	ND	111	74-124		
cis-1,2-Dichloroethylene	10.8		0.500	ug/L	10.0	ND	108	70-130		
Methyl isobutyl ketone (MIBK)	9.97		2.50	ug/L	10.0	ND	99.7	53-167		
Chloroethane	10.8		0.500	ug/L	10.0	ND	108	68-138		
p-isopropyltoluene	11.0		0.500	ug/L	10.0	ND	110	70-130		
Chlorobenzene (Monochlorobenzene)	10.9		0.500	ug/L	10.0	ND	109	70-130		
Carbon Tetrachloride	10.9		0.500	ug/L	10.0	ND	109	70-130		
Chloroform	11.6		0.500	ug/L	10.0	ND	116	70-130		
Styrene	10.5		0.500	ug/L	10.0	ND	105	30-130		
Vinyl Chloride	10.4		0.500	ug/L	10.0	ND	104	70-130		
Trichloroflouromethane	11.4		0.500	ug/L	10.0	ND	114	50-154		
Trichloroethene	9.94		0.500	ug/L	10.0	ND	99.4	70-130		
trans-1,2 Dichloroethylene	11.3		0.500	ug/L	10.0	ND	113	70-130		
Toluene	11.6		0.500	ug/L	10.0	ND	116	70-130		
n-Propylbenzene	11.8		0.500	ug/L	10.0	ND	118	70-130		
tert-Butylbenzene	11.7		0.500	ug/L	10.0	ND	117	70-130		
methyl-t-butyl ether (MTBE)	10.7		0.500	ug/L	10.0	ND	107	57-138		
sec-Butylbenzene	11.5		0.500	ug/L	10.0	ND	115	70-130		
o-Xylene (MCL for total)	12.1		0.500	ug/L	10.0	ND	121	62-127		
Carbon disulfide	10.6		0.500	ug/L	10.0	ND	106	70-130		
n-Butylbenzene	13.2	M1	0.500	ug/L	10.0	ND	132	67-130		
Naphthalene	10.5		0.500	ug/L	10.0	ND	105	56-147		

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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: BBK0448 - VOC (Continued)										
Matrix Spike (BBK0448-MS1)	**Source: MBK0143-06**				Prepared & Analyzed: 11/11/2021					
Tetrachloroethylene	9.35		0.500	ug/L	10.0	ND	93.5	70-130		
1,1-Dichloroethylene	11.1		0.500	ug/L	10.0	ND	111	70-130		
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	10.9		0.500	ug/L	10.0	ND	109	70-130		
EDB (screening)	10.3		0.500	ug/L	10.0	ND	103	70-130		
DBCP (screening)	9.44		0.500	ug/L	10.0	ND	94.4	55-146		
1,2,4-Trimethylbenzene	11.4		0.500	ug/L	10.0	ND	114	40-140		
1,2,4-Trichlorobenzene	10.5		0.500	ug/L	10.0	ND	105	70-130		
1,2,3-Trichloropropane	10.8		0.500	ug/L	10.0	ND	108	69-137		
1,1-Dichloropropene	11.8		0.500	ug/L	10.0	ND	118	70-130		
1,1,1-Trichloroethane	11.3		0.500	ug/L	10.0	ND	113	70-130		
1,1-Dichloroethane	11.5		0.500	ug/L	10.0	ND	115	70-130		
1,1,2-Trichlorethane	11.3		0.500	ug/L	10.0	ND	113	70-130		
1,1,2,2-Tetrachloroethane	11.3		0.500	ug/L	10.0	ND	113	67-136		
1,1,1,2-Tetrachloroethane	10.2		0.500	ug/L	10.0	ND	102	70-130		
Bromoform	9.59		0.500	ug/L	10.0	ND	95.9	59-140		
trans-1,3-Dichloropropene	11.4		0.500	ug/L	10.0	ND	114	61-131		
1,2,3-Trichlorobenzene	10.1		0.500	ug/L	10.0	ND	101	67-134		
p-Chlorotoluene	11.5		0.500	ug/L	10.0	ND	115	70-130		
1,2-Dichloroethane	11.1		0.500	ug/L	10.0	ND	111	70-130		
Bromochloromethane	9.97		0.500	ug/L	10.0	ND	99.7	70-130		
Bromodichloromethane	11.1		0.500	ug/L	10.0	ND	111	70-130		
Benzene	11.7		0.500	ug/L	10.0	ND	117	70-130		
Acrylonitrile	10.1		0.500	ug/L	10.0	ND	101	65-137		
Bromobenzene	9.61		0.500	ug/L	10.0	ND	96.1	70-130		
2-hexanone	10.4		2.50	ug/L	10.0	ND	104	43-175		
o-Chlorotoluene	11.4		0.500	ug/L	10.0	ND	114	70-130		
2,2-Dichloropropane	11.1		0.500	ug/L	10.0	ND	111	70-130		
1,4-Dichlorobenzene (para-Dichlorobenzene)	11.0		0.500	ug/L	10.0	ND	110	70-130		
1,3-Dichloropropane	11.8		0.500	ug/L	10.0	ND	118	70-130		
m-Dichlorobenzene	10.9		0.500	ug/L	10.0	ND	109	70-130		
1,3,5-Trimethylbenzene	11.3		0.500	ug/L	10.0	ND	113	40-140		
1,2-Dichloropropane	11.5		0.500	ug/L	10.0	ND	115	70-130		
Surrogate: Toluene-d8			*25.9*	*ug/L*	*25.0*		*104*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*26.8*	*ug/L*	*25.0*		*107*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*18.6*	*ug/L*	*19.0*		*97.9*	*70-130*		

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - 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: BBK0448 - VOC (Continued)										
Matrix Spike Dup (BBK0448-MSD1)	**Source: MBK0143-06**				Prepared & Analyzed: 11/11/2021					
Ethylbenzene	11.7		0.500	ug/L	10.0	ND	117	70-130	2.37	25
Methyl ethyl ketone (MEK)	9.76		2.50	ug/L	10.0	ND	97.6	47-165	0.103	25
m/p Xylenes (MCL for total)	24.1		0.500	ug/L	20.0	ND	120	57-130	1.81	25
Isopropylbenzene	11.2		0.500	ug/L	10.0	ND	112	70-130	0.359	25
Hexachlorobutadiene	13.9	M1	0.500	ug/L	10.0	ND	139	70-130	1.09	25
Methyl isobutyl ketone (MIBK)	10.3		2.50	ug/L	10.0	ND	103	53-167	2.96	25
Dichlorodifluoromethane	12.5		0.500	ug/L	10.0	ND	125	57-136	17.3	25
Dibromomethane	9.48		0.500	ug/L	10.0	ND	94.8	70-130	1.47	25
Dibromochloromethane	10.0		0.500	ug/L	10.0	ND	100	70-130	0.498	25
cis-1,3-Dichloropropene	10.9		0.500	ug/L	10.0	ND	109	74-124	2.37	25
cis-1,2-Dichloroethylene	10.6		0.500	ug/L	10.0	ND	106	70-130	2.15	25
Chloroethane	10.9		0.500	ug/L	10.0	ND	109	68-138	0.644	25
Styrene	9.83		0.500	ug/L	10.0	ND	98.3	30-130	6.11	25
Chlorobenzene (Monochlorobenzene)	10.6		0.500	ug/L	10.0	ND	106	70-130	2.14	25
Chloroform	11.1		0.500	ug/L	10.0	ND	111	70-130	3.96	25
tert-Butylbenzene	11.7		0.500	ug/L	10.0	ND	117	70-130	0.257	25
Trichloroflouromethane	12.6		0.500	ug/L	10.0	ND	126	50-154	10.1	25
1,2-Dichloroethane	10.8		0.500	ug/L	10.0	ND	108	70-130	2.75	25
Carbon Tetrachloride	11.1		0.500	ug/L	10.0	ND	111	70-130	2.36	25
trans-1,3-Dichloropropene	11.3		0.500	ug/L	10.0	ND	113	61-131	1.32	25
trans-1,2 Dichloroethylene	11.1		0.500	ug/L	10.0	ND	111	70-130	2.33	25
p-isopropyltoluene	10.8		0.500	ug/L	10.0	ND	108	70-130	1.84	25
Tetrachloroethylene	9.60		0.500	ug/L	10.0	ND	96.0	70-130	2.64	25
methyl-t-butyl ether (MTBE)	10.6		0.500	ug/L	10.0	ND	106	57-138	1.13	25
sec-Butylbenzene	11.5		0.500	ug/L	10.0	ND	115	70-130	0.0872	25
Trichloroethene	9.69		0.500	ug/L	10.0	ND	96.9	70-130	2.55	25
o-Xylene (MCL for total)	11.8		0.500	ug/L	10.0	ND	118	62-127	2.59	25
n-Propylbenzene	11.6		0.500	ug/L	10.0	ND	116	70-130	1.28	25
n-Butylbenzene	13.3	M1	0.500	ug/L	10.0	ND	133	67-130	0.979	25
Naphthalene	10.8		0.500	ug/L	10.0	ND	108	56-147	2.53	25
Toluene	11.2		0.500	ug/L	10.0	ND	112	70-130	3.41	25
1,1-Dichloroethylene	11.5		0.500	ug/L	10.0	ND	115	70-130	3.46	25
EDB (screening)	10.2		0.500	ug/L	10.0	ND	102	70-130	0.390	25
DBCP (screening)	10.3		0.500	ug/L	10.0	ND	103	55-146	8.32	25
1,2,4-Trimethylbenzene	11.0		0.500	ug/L	10.0	ND	110	40-140	3.57	25
1,2,4-Trichlorobenzene	10.3		0.500	ug/L	10.0	ND	103	70-130	2.50	25
1,2,3-Trichloropropane	10.8		0.500	ug/L	10.0	ND	108	69-137	0.741	25
1,3,5-Trimethylbenzene	11.1		0.500	ug/L	10.0	ND	111	40-140	2.14	25
1,1-Dichloropropene	12.0		0.500	ug/L	10.0	ND	120	70-130	1.68	25
1,2-Dichloropropane	11.5		0.500	ug/L	10.0	ND	115	70-130	0.522	25
1,1-Dichloroethane	11.0		0.500	ug/L	10.0	ND	110	70-130	3.92	25
1,1,2-Trichlorethane	11.1		0.500	ug/L	10.0	ND	111	70-130	1.25	25
1,1,2,2-Tetrachloroethane	11.2		0.500	ug/L	10.0	ND	112	67-136	0.888	25
1,1,1-Trichloroethane	11.4		0.500	ug/L	10.0	ND	114	70-130	0.704	25
1,1,1,2-Tetrachloroethane	9.97		0.500	ug/L	10.0	ND	99.7	70-130	2.67	25
Vinyl Chloride	11.4		0.500	ug/L	10.0	ND	114	70-130	8.79	25
1,2,3-Trichlorobenzene	10.6		0.500	ug/L	10.0	ND	106	67-134	5.04	25
2-hexanone	10.8		2.50	ug/L	10.0	ND	108	43-175	4.05	25
Bromoform	9.51		0.500	ug/L	10.0	ND	95.1	59-140	0.838	25
Bromodichloromethane	10.9		0.500	ug/L	10.0	ND	109	70-130	2.00	25

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: BBK0448 - VOC (Continued)										
Matrix Spike Dup (BBK0448-MSD1)	**Source: MBK0143-06**				Prepared & Analyzed: 11/11/2021					
Bromochloromethane	9.42		0.500	ug/L	10.0	ND	94.2	70-130	5.67	25
Bromobenzene	9.44		0.500	ug/L	10.0	ND	94.4	70-130	1.78	25
Benzene	11.4		0.500	ug/L	10.0	ND	114	70-130	2.42	25
Acrylonitrile	10.2		0.500	ug/L	10.0	ND	102	65-137	0.691	25
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	10.7		0.500	ug/L	10.0	ND	107	70-130	1.49	25
o-Chlorotoluene	11.2		0.500	ug/L	10.0	ND	112	70-130	1.77	25
2,2-Dichloropropane	10.9		0.500	ug/L	10.0	ND	109	70-130	1.45	25
1,4-Dichlorobenzene (para-Dichlorobenzene)	10.7		0.500	ug/L	10.0	ND	107	70-130	3.22	25
1,3-Dichloropropane	11.6		0.500	ug/L	10.0	ND	116	70-130	1.11	25
m-Dichlorobenzene	10.8		0.500	ug/L	10.0	ND	108	70-130	0.918	25
Carbon disulfide	11.4		0.500	ug/L	10.0	ND	114	70-130	7.47	25
p-Chlorotoluene	11.2		0.500	ug/L	10.0	ND	112	70-130	2.82	25
Surrogate: Toluene-d8			*25.8*	*ug/L*	*25.0*		*103*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*26.7*	*ug/L*	*25.0*		*107*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*18.8*	*ug/L*	*19.0*		*99.1*	*70-130*		

MBK0143

Subcontract Order

Due: 11/17/21

9 9 8

X1K0078

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 Laboratory:
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: X1K0078-01 Client ID: **W-SVA1-211102**			**Water**	**Sampled: 02-Nov-21 08:45**
Sub Pesticides Screen by EPA 8270C	17-Nov-21	09-Nov-21 08:45		
Sub VOC 8260B	17-Nov-21	16-Nov-21 08:45		
Containers Supplied:				
Raw Amber Glass (A)				
Raw Amber Glass (B)				
HCl VOA glass (C)				
HCl VOA glass (D)				
HCl VOA glass (E)				
SVL ID: X1K0078-02 Client ID: **W-WCC1-211102**			**Water**	**Sampled: 02-Nov-21 00:00**
Sub Pesticides Screen by EPA 8270C	17-Nov-21	09-Nov-21 00:00		
Sub VOC 8260B	17-Nov-21	16-Nov-21 00:00		
Containers Supplied:				
Raw Amber Glass (A)				
Raw Amber Glass (B)				
HCl VOA glass (C)				
HCl VOA glass (D)				
HCl VOA glass (E)				
SVL ID: X1K0078-03 Client ID: **W-WCC2-211102**			**Water**	**Sampled: 02-Nov-21 11:19**
Sub Pesticides Screen by EPA 8270C	17-Nov-21	09-Nov-21 11:19		
Sub VOC 8260B	17-Nov-21	16-Nov-21 11:19		
Containers Supplied:				
Raw Amber Glass (A)				
Raw Amber Glass (B)				
HCl VOA glass (C)				
HCl VOA glass (D)				
HCl VOA glass (E)				
SVL ID: X1K0078-04 Client ID: **W-WCC4A-211102**			**Water**	**Sampled: 02-Nov-21 12:21**
Sub Pesticides Screen by EPA 8270C	17-Nov-21	09-Nov-21 12:21		
Sub VOC 8260B	17-Nov-21	16-Nov-21 12:21		
Containers Supplied:				
Raw Amber Glass (A)				
Raw Amber Glass (B)				
HCl VOA glass (C)				
HCl VOA glass (D)				
HCl VOA glass (E)				

shipped directly to Anatek

Relinquished by: _____ Date/Time: 11/03 PM Received by: _____ Date/Time: _____

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

MBK0143

Subcontract Order

Due: 11/17/21

X1K0078

Analysis	Due	HT Expires

SVL ID: X1K0078-05 Client ID: **W-WCC7-211102** **Water** **Sampled: 02-Nov-21 11:31**

Sub Pesticides Screen by EPA 8270C	17-Nov-21	09-Nov-21 11:31
Sub VOC 8260B	17-Nov-21	16-Nov-21 11:31

Containers Supplied:
Raw Amber Glass (A)
Raw Amber Glass (B)
HCl VOA glass (C)
HCl VOA glass (D)
HCl VOA glass (E)

SVL ID: X1K0078-06 Client ID: **W-WCC8-211102** **Water** **Sampled: 02-Nov-21 10:45**

Sub Pesticides Screen by EPA 8270C	17-Nov-21	09-Nov-21 10:45
Sub VOC 8260B	17-Nov-21	16-Nov-21 10:45

Containers Supplied:
Raw Amber Glass (A)
Raw Amber Glass (B)
HCl VOA glass (C)
HCl VOA glass (D)
HCl VOA glass (E)
Raw Amber Glass (F)
Raw Amber Glass (G)
Raw Amber Glass (H)
Raw Amber Glass (I)
HCl VOA glass (J)
HCl VOA glass (K)
HCl VOA glass (L)
HCl VOA glass (M)
HCl VOA glass (N)
HCl VOA glass (O)

SVL ID: X1K0078-07 Client ID: **W-WCC9-211102** **Water** **Sampled: 02-Nov-21 10:26**

Sub Pesticides Screen by EPA 8270C	17-Nov-21	09-Nov-21 10:26
Sub VOC 8260B	17-Nov-21	16-Nov-21 10:26

Containers Supplied:
Raw Amber Glass (A)
Raw Amber Glass (B)
HCl VOA glass (C)
HCl VOA glass (D)
HCl VOA glass (E)

SVL ID: X1K0078-08 Client ID: **W-WCC10R-211102** **Water** **Sampled: 02-Nov-21 08:50**

Sub Pesticides Screen by EPA 8270C	17-Nov-21	09-Nov-21 08:50
Sub VOC 8260B	17-Nov-21	16-Nov-21 08:50

Containers Supplied:
Raw Amber Glass (A)
Raw Amber Glass (B)
HCl VOA glass (C)
HCl VOA glass (D)
HCl VOA glass (E)

Relinquished by: _____ Date/Time: 11/02/21 Received by: _____ Date/Time: _____

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

MBK0143

Due: 11/17/21

Subcontract Order

X1K0078

Analysis	Due	HT Expires		
SVL ID: X1K0078-09 Client ID: **W-WCC11B-211102**			**Water**	**Sampled: 02-Nov-21 13:33**
Sub Pesticides Screen by EPA 8270C	17-Nov-21	09-Nov-21 13:33		
Sub VOC 8260B	17-Nov-21	16-Nov-21 13:33		
Containers Supplied:				
Raw Amber Glass (A)				
Raw Amber Glass (B)				
HCl VOA glass (C)				
HCl VOA glass (D)				
HCl VOA glass (E)				
SVL ID: X1K0078-10 Client ID: **W-WCC12-211102**			**Water**	**Sampled: 02-Nov-21 12:15**
Sub Pesticides Screen by EPA 8270C	17-Nov-21	09-Nov-21 12:15		
Sub VOC 8260B	17-Nov-21	16-Nov-21 12:15		
Containers Supplied:				
Raw Amber Glass (A)				
Raw Amber Glass (B)				
HCl VOA glass (C)				
HCl VOA glass (D)				
HCl VOA glass (E)				
SVL ID: X1K0078-11 Client ID: **WS-1-1-211102**			**Water**	**Sampled: 02-Nov-21 09:27**
Sub Pesticides Screen by EPA 8270C	17-Nov-21	09-Nov-21 09:27		
Sub VOC 8260B	17-Nov-21	16-Nov-21 09:27		
Containers Supplied:				
Raw Amber Glass (A)				
Raw Amber Glass (B)				
HCl VOA glass (C)				
HCl VOA glass (D)				
HCl VOA glass (E)				
SVL ID: X1K0078-12 Client ID: **WS-2-1-211102**			**Water**	**Sampled: 02-Nov-21 00:00**
Sub VOC 8260B	17-Nov-21	16-Nov-21 00:00		
Containers Supplied:				
HCl VOA glass (A)				
HCl VOA glass (B)				

Relinquished by: _____ Date/Time: 11/03/21 Received by: _____ Date/Time: _____

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

MBK0143

Due: 11/17/21

SPOKANE COUNTY ENVIRONMENTAL SERVICES LANDFILL CLOSURE
CHAIN OF CUSTODY RECORD 2021

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: 4140, 4159 & 4168
NUMBER OF COOLERS: 3

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	2-1 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:	8260B1 *	8270C	300.0	Mn 6010	As 7060A	Sb 7041	Pb 6010	Cr 6010

SAMPLER'S:
Mike Terris
Gordie Fisette
Kevan McClarty
DATE: 11/02/2021

SAMPLE ID:	DATE:	TIME:	VOC'S	BEHP / PCP	NITRATE	Mn	As	Sb	Pb	Cr	# BOTTLES	COOLER#	COMMENTS:
W-SVA1-211102	11/2/2021	0845	X	X							5	4	
W-WCC1-211102	11/2/2021	0817	X	X							5	4	
W-WCC2-211102	11/2/2021	1119	X	X							5	4	
W-WCC4A-211102	11/2/2021	1221	X	X							5	4	
W-WCC7-211102	11/2/2021	1131	X	X							5	14	
W-WCC8-211102	11/2/2021	1045	X	X							15	14	MS/MSD
W-WCC9-211102	11/2/2021	1026	X	X							5	14	
W-WCC10R-211102	11/2/2021	0850	X	X							5	8	
W-WCC11B-211102	11/2/2021	1333	X	X							5	8	
W-WCC12-211102	11/2/2021	1215	X	X							5	8	
WS-1-1-211102	11/2/2021	0927	X	X							5	4	
WS-2-1-211102	11/2/2021	—	X								2	8	TRIP-BLANKS

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

RELINQUISHED BY:
SIGNATURE: Mike Terris
PRINT NAME: Mike Terris
SPOKANE COUNTY UTILITIES LANDFILL CLOSURE
DATE: 11/2/2021
TIME: 1530

RECEIVED BY: ER
SIGNATURE: Elizabeth B
PRINT NAME: Elizabeth
COMPANY ANATEK
DATE: 11/03/21
TIME: 10:51

* ALL VOC'S ARE PLACED INTO COOLER #8

MBK0143

Due: 11/17/21

Anatek Labs, Inc.

Sample Receipt and Preservation Form

Client Name: Spokane County Environ Project:

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: 3 Type of Ice: (Ice/Ice Packs) Blue Ice Dry Ice None

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

Cooler Temp As Read (°C): 1.9 C Cooler Temp Corrected (°C): _____ Thermometer Used: IR 5

				Comments:
Samples Received Intact?	(Yes)	No	N/A	
Chain of Custody Present?	(Yes)	No	N/A	
Samples Received Within Hold Time?	(Yes)	No	N/A	
Samples Properly Preserved?	(Yes)	No	N/A	
VOC Vials Free of Headspace (<6mm)?	(Yes)	No	N/A	
VOC Trip Blanks Present?	(Yes)	No	N/A	
Labels and Chains Agree?	(Yes)	No	N/A	
Total Number of Sample Bottles Received: 67				

Chain of Custody Fully Completed?	(Yes)	No	N/A	
Correct Containers Received?	(Yes)	No	N/A	
Anatek Bottles Used?	Yes	(No)	Unknown	

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

HCL - VOC - g vial x 39 + 2 Trip blank HCL

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

8270C - g 1L x 26

Received/Inspected By: ER Date/Time: 11/03/21 10:51

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

Work Order: **X1K0116**
Reported: 26-Nov-21 14:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
W-SVA1-211102	X1K0116-01	Water	02-Nov-21 08:45	MT/GF/ KM	05-Nov-2021	
W-WCC1-211102	X1K0116-02	Water	02-Nov-21 08:17	MT/GF/ KM	05-Nov-2021	
W-WCC2-211102	X1K0116-03	Water	02-Nov-21 11:19	MT/GF/ KM	05-Nov-2021	
W-WCC4A-211102	X1K0116-04	Water	02-Nov-21 12:21	MT/GF/ KM	05-Nov-2021	
W-WCC7-211102	X1K0116-05	Water	02-Nov-21 11:31	MT/GF/ KM	05-Nov-2021	
W-WCC8-211102	X1K0116-06	Water	02-Nov-21 10:45	MT/GF/ KM	05-Nov-2021	
W-WCC9-211102	X1K0116-07	Water	02-Nov-21 10:26	MT/GF/ KM	05-Nov-2021	
W-WCC10R-211102	X1K0116-08	Water	02-Nov-21 08:50	MT/GF/ KM	05-Nov-2021	
W-WCC11B-211102	X1K0116-09	Water	02-Nov-21 13:33	MT/GF/ KM	05-Nov-2021	
W-WCC12-211102	X1K0116-10	Water	02-Nov-21 12:15	MT/GF/ KM	05-Nov-2021	
WS-1-1-211102	X1K0116-11	Water	02-Nov-21 09:27	MT/GF/ KM	05-Nov-2021	

Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested.
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: **X1K0116**
Reported: 26-Nov-21 14:53

Client Sample ID: **W-SVA1-211102**
SVL Sample ID: **X1K0116-01 (Water)**

Sampled: 02-Nov-21 08:45
Received: 05-Nov-21
Sampled By: MT/GF/KM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Dissolved)										
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X146076	AS	11/22/21 16:55	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X146076	AS	11/22/21 16:55	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X146076	AS	11/22/21 16:55	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00072		X146047	AS	11/26/21 10:16	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X146047	AS	11/26/21 10:16	

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

Herman J. Haring
Project Manager

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

Work Order: **X1K0116**
Reported: 26-Nov-21 14:53

Client Sample ID: **W-WCC1-211102**
SVL Sample ID: **X1K0116-02 (Water)**

Sampled: 02-Nov-21 08:17
Received: 05-Nov-21
Sampled By: MT/GF/KM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Dissolved)										
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X146076	AS	11/22/21 16:59	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X146076	AS	11/22/21 16:59	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X146076	AS	11/22/21 16:59	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00072		X146047	AS	11/26/21 10:19	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X146047	AS	11/26/21 10:19	

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

Work Order: **X1K0116**
Reported: 26-Nov-21 14:53

Client Sample ID: **W-WCC2-211102**
SVL Sample ID: **X1K0116-03 (Water)**

Sampled: 02-Nov-21 11:19
Received: 05-Nov-21
Sampled By: MT/GF/KM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Dissolved)										
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X146076	AS	11/22/21 17:03	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X146076	AS	11/22/21 17:03	
EPA 6010D	**Manganese**	0.0971	mg/L	0.0080	0.0034		X146076	AS	11/22/21 17:03	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00072		X146047	AS	11/26/21 10:22	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X146047	AS	11/26/21 10:22	
Anions by Ion Chromatography										
EPA 300.0	**Nitrate as N**	1.39	mg/L	0.050	0.043		X145251	RS	11/05/21 17:02	H3

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Colbert, WA 99005

Work Order: **X1K0116**
Reported: 26-Nov-21 14:53

Client Sample ID: **W-WCC4A-211102**
SVL Sample ID: **X1K0116-04 (Water)**

Sampled: 02-Nov-21 12:21
Received: 05-Nov-21
Sampled By: MT/GF/KM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Dissolved)										
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X146076	AS	11/22/21 17:07	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X146076	AS	11/22/21 17:07	
EPA 6010D	**Manganese**	0.0272	mg/L	0.0080	0.0034		X146076	AS	11/22/21 17:07	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00072		X146047	AS	11/26/21 10:25	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X146047	AS	11/26/21 10:25	

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Colbert, WA 99005

Work Order: **X1K0116**
Reported: 26-Nov-21 14:53

Client Sample ID: **W-WCC7-211102**
SVL Sample ID: **X1K0116-05 (Water)**

Sampled: 02-Nov-21 11:31
Received: 05-Nov-21
Sampled By: MT/GF/KM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Dissolved)										
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X146076	AS	11/22/21 17:11	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X146076	AS	11/22/21 17:11	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X146076	AS	11/22/21 17:11	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00072		X146047	AS	11/26/21 10:27	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X146047	AS	11/26/21 10:27	

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Colbert, WA 99005

Work Order: **X1K0116**
Reported: 26-Nov-21 14:53

Client Sample ID: **W-WCC8-211102**
SVL Sample ID: **X1K0116-06 (Water)**

Sampled: 02-Nov-21 10:45
Received: 05-Nov-21
Sampled By: MT/GF/KM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Dissolved)										
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X146076	AS	11/22/21 17:15	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X146076	AS	11/22/21 17:15	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X146076	AS	11/22/21 17:15	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00072		X146047	AS	11/26/21 10:30	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X146047	AS	11/26/21 10:30	
Anions by Ion Chromatography										
EPA 300.0	**Nitrate as N**	1.30	mg/L	0.050	0.043		X145251	RS	11/05/21 17:18	H3,M1

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Colbert, WA 99005

Work Order: **X1K0116**
Reported: 26-Nov-21 14:53

Client Sample ID: **W-WCC9-211102**
SVL Sample ID: **X1K0116-07 (Water)**

Sampled: 02-Nov-21 10:26
Received: 05-Nov-21
Sampled By: MT/GF/KM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Dissolved)										
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X146076	AS	11/22/21 17:38	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X146076	AS	11/22/21 17:38	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X146076	AS	11/22/21 17:38	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00072		X146047	AS	11/26/21 10:43	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X146047	AS	11/26/21 10:43	
Anions by Ion Chromatography										
EPA 300.0	**Nitrate as N**	2.03	mg/L	0.050	0.043		X145251	RS	11/05/21 18:16	H3

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

Work Order: **X1K0116**
Reported: 26-Nov-21 14:53

Client Sample ID: **W-WCC10R-211102**
SVL Sample ID: **X1K0116-08 (Water)**

Sampled: 02-Nov-21 08:50
Received: 05-Nov-21
Sampled By: MT/GF/KM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Dissolved)										
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X146076	AS	11/22/21 17:43	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X146076	AS	11/22/21 17:43	
EPA 6010D	**Manganese**	0.0622	mg/L	0.0080	0.0034		X146076	AS	11/22/21 17:43	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00072		X146047	AS	11/26/21 10:46	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X146047	AS	11/26/21 10:46	
Anions by Ion Chromatography										
EPA 300.0	**Nitrate as N**	1.07	mg/L	0.050	0.043		X145251	RS	11/05/21 18:36	H3

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

Work Order: **X1K0116**
Reported: 26-Nov-21 14:53

Client Sample ID: **W-WCC11B-211102**
SVL Sample ID: **X1K0116-09 (Water)**

Sampled: 02-Nov-21 13:33
Received: 05-Nov-21
Sampled By: MT/GF/KM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Dissolved)										
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X146076	AS	11/22/21 17:47	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X146076	AS	11/22/21 17:47	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X146076	AS	11/22/21 17:47	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00072		X146047	AS	11/26/21 10:49	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X146047	AS	11/26/21 10:49	

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

Work Order: **X1K0116**
Reported: 26-Nov-21 14:53

Client Sample ID: **W-WCC12-211102**
SVL Sample ID: **X1K0116-10 (Water)**

Sampled: 02-Nov-21 12:15
Received: 05-Nov-21
Sampled By: MT/GF/KM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Dissolved)										
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X146076	AS	11/22/21 17:51	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X146076	AS	11/22/21 17:51	
EPA 6010D	**Manganese**	1.77	mg/L	0.0080	0.0034		X146076	AS	11/22/21 17:51	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00072		X146047	AS	11/26/21 10:52	
EPA 6020B	**Arsenic**	0.0423	mg/L	0.00300	0.00021		X146047	AS	11/26/21 10:52	

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

Work Order: **X1K0116**
Reported: 26-Nov-21 14:53

Client Sample ID: **WS-1-1-211102**
SVL Sample ID: **X1K0116-11 (Water)**

Sampled: 02-Nov-21 09:27
Received: 05-Nov-21
Sampled By: MT/GF/KM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Dissolved)										
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X146076	AS	11/22/21 17:55	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X146076	AS	11/22/21 17:55	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X146076	AS	11/22/21 17:55	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00072		X146047	AS	11/26/21 10:55	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X146047	AS	11/26/21 10:55	

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

Work Order: **X1K0116**
Reported: 26-Nov-21 14:53

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	X146076	22-Nov-21	
EPA 6010D	Lead	mg/L	<0.0150	0.0049	0.0150	X146076	22-Nov-21	
EPA 6010D	Manganese	mg/L	<0.0080	0.0034	0.0080	X146076	22-Nov-21	
EPA 6020B	Antimony	mg/L	<0.00300	0.00072	0.00300	X146047	26-Nov-21	
EPA 6020B	Arsenic	mg/L	<0.00300	0.00021	0.00300	X146047	26-Nov-21	
Anions by Ion Chromatography								
EPA 300.0	Nitrate as N	mg/L	<0.050	0.043	0.050	X145251	05-Nov-21	

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	0.942	1.00	94.2	80 - 120	X146076	22-Nov-21	
EPA 6010D	Lead	mg/L	0.952	1.00	95.2	80 - 120	X146076	22-Nov-21	
EPA 6010D	Manganese	mg/L	0.923	1.00	92.3	80 - 120	X146076	22-Nov-21	
EPA 6020B	Antimony	mg/L	0.0235	0.0250	94.1	80 - 120	X146047	26-Nov-21	
EPA 6020B	Arsenic	mg/L	0.0241	0.0250	96.3	80 - 120	X146047	26-Nov-21	
Anions by Ion Chromatography									
EPA 300.0	Nitrate as N	mg/L	2.12	2.00	106	90 - 110	X145251	05-Nov-21	

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	0.977	<0.0060	1.00	97.7	75 - 125	X146076 - X1K0116-06	22-Nov-21	
EPA 6010D	Lead	mg/L	0.982	<0.0150	1.00	98.2	75 - 125	X146076 - X1K0116-06	22-Nov-21	
EPA 6010D	Manganese	mg/L	0.957	<0.0080	1.00	95.7	75 - 125	X146076 - X1K0116-06	22-Nov-21	
EPA 6020B	Antimony	mg/L	0.0231	<0.00300	0.0250	92.6	75 - 125	X146047 - X1K0116-06	26-Nov-21	
EPA 6020B	Arsenic	mg/L	0.0268	<0.00300	0.0250	107	75 - 125	X146047 - X1K0116-06	26-Nov-21	
Anions by Ion Chromatography										
EPA 300.0	Nitrate as N	mg/L	3.60	1.30	2.00	115	90 - 110	X145251 - X1K0116-06	05-Nov-21	M1

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

Work Order: **X1K0116**
Reported: 26-Nov-21 14:53

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	0.903	0.977	1.00	7.8	20	90.3	X146076 - X1K0116-06	
EPA 6010D	Lead	mg/L	0.894	0.982	1.00	9.3	20	89.4	X146076 - X1K0116-06	
EPA 6010D	Manganese	mg/L	0.869	0.957	1.00	9.6	20	86.9	X146076 - X1K0116-06	
EPA 6020B	Antimony	mg/L	0.0235	0.0231	0.0250	1.7	20	94.1	X146047 - X1K0116-06	
EPA 6020B	Arsenic	mg/L	0.0265	0.0268	0.0250	1.0	20	106	X146047 - X1K0116-06	
Anions by Ion Chromatography										
EPA 300.0	Nitrate as N	mg/L	3.70	3.60	2.00	2.9	20	120	X145251 - X1K0116-06	M1

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Spokane County Environmental Services (Colbert)		
22515 N. Elk Chattaroy Road	Work Order:	**X1K0116**
Colbert, WA 99005	Reported:	26-Nov-21 14:53

Notes and Definitions

H3	Sample was received and/or analysis requested past holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

SPOKANE COUNTY ENVIRONMENTAL SERVICES LANDFILL CLOSURE
CHAIN OF CUSTODY RECORD 2021

Work Order: **X1K0116**
Spokane County Environmental Services ((

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: K273614 4195
NUMBER OF COOLERS: 1 2.0°C

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	2-1 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:	8260B	8270C	300.0	Mn 6010	As 7060A	Sb 7041	Pb 6010	Cr 6010

SAMPLER'S:
Mike Terris
Gordie Fisette
Kevan McClarty
DATE: 11/02/2021

SAMPLE ID:	DATE:	TIME:	# BOTTLES	COOLER#	COMMENTS:
W-SVA1-211102	11/2/2021	0845	1	13	
W-WCC1-211102	11/2/2021	0817	1	13	
W-WCC2-211102	11/2/2021	1119	2	13	
W-WCC4A-211102	11/2/2021	1221	1	13	
W-WCC7-211102	11/2/2021	1131	1	13	
W-WCC8-211102	11/2/2021	1045	6	13	MS/MSD
W-WCC9-211102	11/2/2021	1026	2	13	
W-WCC10R-211102	11/2/2021	0850	2	13	
W-WCC11B-211102	11/2/2021	1333	1	13	
W-WCC12-211102	11/2/2021	1215	1	13	
WS-1-1-211102	11/2/2021	0927	1	13	

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

RELINQUISHED BY:
SIGNATURE: Mike Terris
PRINT NAME: Mike Terris
SPOKANE COUNTY UTILITIES LANDFILL CLOSURE
DATE: 11/2/2021
TIME: 1530

RECEIVED BY:
SIGNATURE: C. Flores
PRINT NAME: C. FLORES
COMPANY SVL
DATE: 11/3/2021
TIME: 9:00

SAMPLE RECEIPT/CHAIN-OF-CUSTODY CHECKLIST

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

Date of acceptance: 11/5/2021 By C. Flores

SVL Work No: X1K0116

Item	Description	V	NA	Comments
1	Client or project name	✓		SPOKANE COUNTY
2	Date and time of receipt at lab	✓		11/5/2021 9:00
3	Received by	✓		C. FLORES
4	Temperature blank or cooler temperature	✓		Temp 2.0 °C
5	Were the sample(s) received on ice	✓		YES
6	Custody tape/bottle seals	✓		YES
7	Shipper's air bill	✓		
8	Condition of samples upon receipt (leaking; bubbles in VOA vials)	✓		GOOD
9	Analysis requested for each sample	✓		
10	Sample matrix description	✓		
11	The correct preservative for the analysis requested	✓		
12	Did an SVL employee preserve sample(s) upon receipt		✓	
13	Additional Information		✓	

V- Verified NA- Not Applicable

Comments:

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: **X2A0061**
Reported: 10-Jan-22 12:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
WS-1-1-220105	X2A0061-01	Water	05-Jan-22 10:29	GF	06-Jan-2022	
W-WCC10R-220105	X2A0061-02	Water	05-Jan-22 10:45	GF	06-Jan-2022	

Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested.
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: **X2A0061**
Reported: 10-Jan-22 12:35

Client Sample ID: **WS-1-1-220105**
SVL Sample ID: **X2A0061-01 (Water)**

Sampled: 05-Jan-22 10:29
Received: 06-Jan-22
Sampled By: GF

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Dissolved)										
EPA 6010D	**Manganese**	0.0484	mg/L	0.0080	0.0034		X202134	ATM	01/10/22 09:50	

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

Dave Tryon
Project Manager

One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X2A0061**
Reported: 10-Jan-22 12:35

Client Sample ID: **W-WCC10R-220105**
SVL Sample ID: **X2A0061-02 (Water)**

Sampled: 05-Jan-22 10:45
Received: 06-Jan-22
Sampled By: GF

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Dissolved)										
EPA 6010D	**Manganese**	0.0485	mg/L	0.0080	0.0034		X202134	ATM	01/10/22 10:01	

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: **X2A0061**
Reported: 10-Jan-22 12:35

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Dissolved)								
EPA 6010D	Manganese	mg/L	<0.0080	0.0034	0.0080	X202134	10-Jan-22	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Dissolved)									
EPA 6010D	Manganese	mg/L	0.986	1.00	98.6	80 - 120	X202134	10-Jan-22	

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	Manganese	mg/L	1.05	0.0484	1.00	100	75 - 125	X202134 - X2A0061-01	10-Jan-22	

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	Manganese	mg/L	1.03	1.05	1.00	1.8	20	98.4	X202134 - X2A0061-01	

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Spokane County Environmental Services (Colbert)		
22515 N. Elk Chattaroy Road	Work Order:	**X2A0061**
Colbert, WA 99005	Reported:	10-Jan-22 12:35

Notes and Definitions

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

Appendix C: Landfill Gas Probe Measurements

Greenacres Landfill Gas Measurements
Tech: KM
Date: 5/7/2020
Temp: 52-55 deg
Weather: cloudy
Baro. Pres: 30.39 @ 930
Qualifier: F

Filename: GP20E071.XLS
Inst. Used: Landtec Gem 500 # 547
Time Gem Calib: 915
Time Gem Checked:
Baro. Pres: 30.38 @ 1100

Gas Extraction Monitoring Data

Code	Time	Date	CH4	CO2	O2	Bal	Static Pre	Differenti	Temp	Refere	Adjus	Valve Pos:	Comments
GAPGP02L	9:32	5/7/2020	0	3.2	16.1	80.7	0	-0.03	>>>	>>>	>>>	>>>	
GAPGP02M	9:35	5/7/2020	0	0.9	19.8	79.3	0	-0.02	>>>	>>>	>>>	>>>	
GAPGP02U	9:37	5/7/2020	0	0.5	20.4	79.1	0	0	>>>	>>>	>>>	>>>	
GAPGP03L	9:44	5/7/2020	0	0.8	19.5	79.7	0	-0.03	>>>	>>>	>>>	>>>	
GAPGP03M	9:46	5/7/2020	0	0.4	20.1	79.5	0	-0.03	>>>	>>>	>>>	>>>	
GAPGP03U	9:49	5/7/2020	0	0.5	20.5	79	0	0	>>>	>>>	>>>	>>>	
GAPGP009	9:54	5/7/2020	0	0.6	20.3	79.1	0	-0.01	>>>	>>>	>>>	>>>	
GAPGP004	9:59	5/7/2020	0	0.5	20.8	78.7	0	-0.02	>>>	>>>	>>>	>>>	
GAPGP08L	10:06	5/7/2020	0	0.2	20.4	79.4	0	0	>>>	>>>	>>>	>>>	
GAPGP08U	10:10	5/7/2020	0	1.1	20.1	78.8	0	0	>>>	>>>	>>>	>>>	
GAPGP005	10:14	5/7/2020	0	1.8	17.6	80.6	0	-0.11	>>>	>>>	>>>	>>>	
GAPGP006	10:18	5/7/2020	0	1.2	19.4	79.4	0	0	>>>	>>>	>>>	>>>	
GAPGP007	10:25	5/7/2020	0	0.5	20.6	78.9	0	-0.1	>>>	>>>	>>>	>>>	
GAPGP001	10:35	5/7/2020	0	1.9	15.1	83	0	-0.01	>>>	>>>	>>>	>>>	

Greenacres Landfill Gas Measurements
Tech: GF
Date: 1/28/2022
Temp: 28 deg F
Weather: ptly cldy
Baro. Pres: 30.32 @ 1343
Qualifier: Falling
Gas Extraction Monitoring Data

Filename: GG220128.XLXS
Inst. Used: Landtec Gem 500 # 760
Time Gem Calib: 955

Code	Time	Date	CH4	CO2	O2	Bal	Static Pre	Different	Tempe	Refere	Adjus	Valve Pos:	Comments
GAPGP02L	10:03	1/28/2022	0	4	16	80	0	0	>>>	>>>	>>>	>>>	
GAPGP02M	10:05	1/28/2022	0	1	19.8	79.2	0	0	>>>	>>>	>>>	>>>	
GAPGP02U	10:06	1/28/2022	0	0.1	20.5	79.4	0	0	>>>	>>>	>>>	>>>	
GAPGP001	10:11	1/28/2022	0	4.1	10.7	85.2	0	0	>>>	>>>	>>>	>>>	
GAGW0002	10:17	1/28/2022	4.6	21.5	0	73.9	-0.2	0	35	0	0		
GATR0003	10:21	1/28/2022	8.5	18.2	0	73.3	0	0.01	32	0	1		
GATR0002	10:24	1/28/2022	9.1	17.4	0	73.5	0	0	32	0	0		
GATR0001	10:29	1/28/2022	0	12.2	6.9	80.9	0	0	35	0	0		closed valve some to reduce O2
GAGW0001	10:34	1/28/2022	0	11.5	8.6	79.9	1.2	-1.22	32	0	0		closed valve some to reduce O2
GABF0001	10:42	1/28/2022	5.4	13	2.5	79.1	0	0	58	57	57		
GABF0002	10:45	1/28/2022	5.5	13.1	2.5	78.9	0	0.15	66	57	57		
GES00001	10:50	1/28/2022	6.4	14.8	0.2	78.6	0	0	68	51	51		
GES00002	10:53	1/28/2022	6.4	14.9	0.2	78.5	0	-26.42	68	51	51		

Greenacres Landfill Gas Measurements | Filename: GP220202.XLXS
Tech: GF | Inst. Used: Landtec Gem 500 # 760
Date: 2/2/2022 | Time Gem Calib: 1015
Temp: 20-22 deg F
Weather: ptly cldy
Baro. Pres: 30.28 @ 930 | Baro. Pres: 30.28 @ 1140
Qualifier: Steady
Gas Extraction Monitoring Data

Code	Time	Date	CH4	CO2	O2	Bal	Static Pres	Different	Temp	Refere	Adjus	Valve Pos:	Comments
GAPGP02L	10:22	2/2/2022	0	4.2	15.4	80.4	0	0	>>>	>>>	>>>	>>>	
GAPGP02M	10:23	2/2/2022	0	1.1	19.4	79.5	0	0	>>>	>>>	>>>	>>>	
GAPGP02U	10:25	2/2/2022	0	0.1	20.6	79.3	0	0	>>>	>>>	>>>	>>>	
GAPGP03L	10:32	2/2/2022	0	0.8	18.2	81	0	0.03	>>>	>>>	>>>	>>>	
GAPGP03M	10:33	2/2/2022	0	0.5	19.9	79.6	0	0.02	>>>	>>>	>>>	>>>	
GAPGP03U	10:36	2/2/2022	0	0	20.7	79.3	0	0	>>>	>>>	>>>	>>>	
GAPGP009	10:42	2/2/2022	0	0	20.6	79.4	0	0.01	>>>	>>>	>>>	>>>	
GAPGP004	10:47	2/2/2022	0	0.4	20.6	79	0	0	>>>	>>>	>>>	>>>	
GAPGP08L	10:52	2/2/2022	0	0	20.8	79.2	0	0	>>>	>>>	>>>	>>>	
GAPGP08U	10:54	2/2/2022	0	0.1	20.6	79.3	0	0	>>>	>>>	>>>	>>>	
GAPGP005	11:01	2/2/2022	0	0.2	20.4	79.4	0	0.05	>>>	>>>	>>>	>>>	
GAPGP006	11:07	2/2/2022	0	0.3	20.6	79.1	0	0	>>>	>>>	>>>	>>>	
GAPGP007	11:11	2/2/2022							>>>	>>>	>>>	>>>	groundwater in screens, no sample
GAPGP001	11:16	2/2/2022	0	4.7	8.8	86.5	0	0.02	>>>	>>>	>>>	>>>	

Greenacres Landfill Gas Measurements
Filename: GP220301.XLXS
Tech: GF
Inst. Used: Landtec Gem 500 # 547
Date: 3/1/2022
Time Gem Calib: 930
Temp: 58 deg F
Weather: windy, mstly cldy
Baro. Pres: 30.19 @ 1230
Baro. Pres: 30.18 @ 1510
Qualifier: Falling
Gas Extraction Monitoring Data

Code	Time	Date	CH4	CO2	O2	Bal	Static Pres	Different	Temp	Referer	Adjus	Valve Pos:	Comments
GAPGP02L	13:50	3/1/2022	0	4.8	14.5	80.7	0	-0.02	>>>	>>>	>>>	>>>	
GAPGP02M	13:52	3/1/2022	0	1.3	19.5	79.2	0	0	>>>	>>>	>>>	>>>	
GAPGP02U	13:54	3/1/2022	0	0.1	20.4	79.5	0	0	>>>	>>>	>>>	>>>	
GAPGP03L	14:00	3/1/2022	0	0.7	16.5	82.8	0	0	>>>	>>>	>>>	>>>	
GAPGP03M	14:01	3/1/2022	0	0.5	19.9	79.6	0	0	>>>	>>>	>>>	>>>	
GAPGP03U	14:03	3/1/2022	0	0	20.4	79.6	0	0	>>>	>>>	>>>	>>>	
GAPGP009	14:06	3/1/2022	0	0	20.4	79.6	0	0	>>>	>>>	>>>	>>>	
GAPGP004	14:11	3/1/2022	0	0.3	20.5	79.2	0	-0.01	>>>	>>>	>>>	>>>	
GAPGP08L	14:18	3/1/2022	0	0	20.6	79.4	0	0	>>>	>>>	>>>	>>>	
GAPGP08U	14:21	3/1/2022	0	0.2	20.3	79.5	0	-0.02	>>>	>>>	>>>	>>>	
GAPGP005	14:26	3/1/2022	0	1.5	16.9	81.6	0	-0.07	>>>	>>>	>>>	>>>	
GAPGP006	14:32	3/1/2022	0	0	20.6	79.4	0	0	>>>	>>>	>>>	>>>	
GAPGP007	14:38	3/1/2022	0	0.2	20.3	79.5	0	0.04	>>>	>>>	>>>	>>>	
GAPGP001	14:43	3/1/2022	0	3	17.2	79.8	0	-0.02	>>>	>>>	>>>	>>>	