

**MICA LANDFILL ANNUAL REMEDIAL ACTION PERFORMANCE REPORT
SEPTEMBER 2017**



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1 INTRODUCTION

1.1 MICA LANDFILL INFORMATION SUMMARY

SITE:	Mica Landfill, Spokane County, WA S.11, 14 & 15 T.24 R.44
REPORTING PERIOD:	October 2016 through September 2017
REGULATORY AUTHORITY:	Washington State Department of Ecology, EPA Scope of work for Remedial Action as stated in the Final Cleanup Action Plan (CAP) 2002.
TECHNOLOGY:	Impermeable cover system with passive landfill gas collection and flare stations. Leachate collection system conveying leachate to local sewer for treatment and disposal.
CRITERIA:	Criteria were established as stated in the Consent Decree and outlined in the Remedial Action Plan (2002). See Table 1-1.
SAMPLING PROGRAMS:	<u>Compliance Monitoring Program:</u> Groundwater and leachate sampling done in accordance with Final Cleanup Action Plan (CAP). Landfill gas monitoring done in accordance with the Compliance Monitoring Plan SAP (contained within the Remedial Action Plan, 2002). See Figure 1-1 for site locations. See Table 1-2 for well designations and Table 1-3 sampling schedule.

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

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

LEACHATE		
Parameter	Units	Daily Maximum
Benzene	mg/L	Sum total of the four results shall be less than or equal to 1.4
Toluene	mg/L	
Ethylbenzene	mg/L	
Xylene	mg/L	

Figure 1-1 Mica Landfill Site

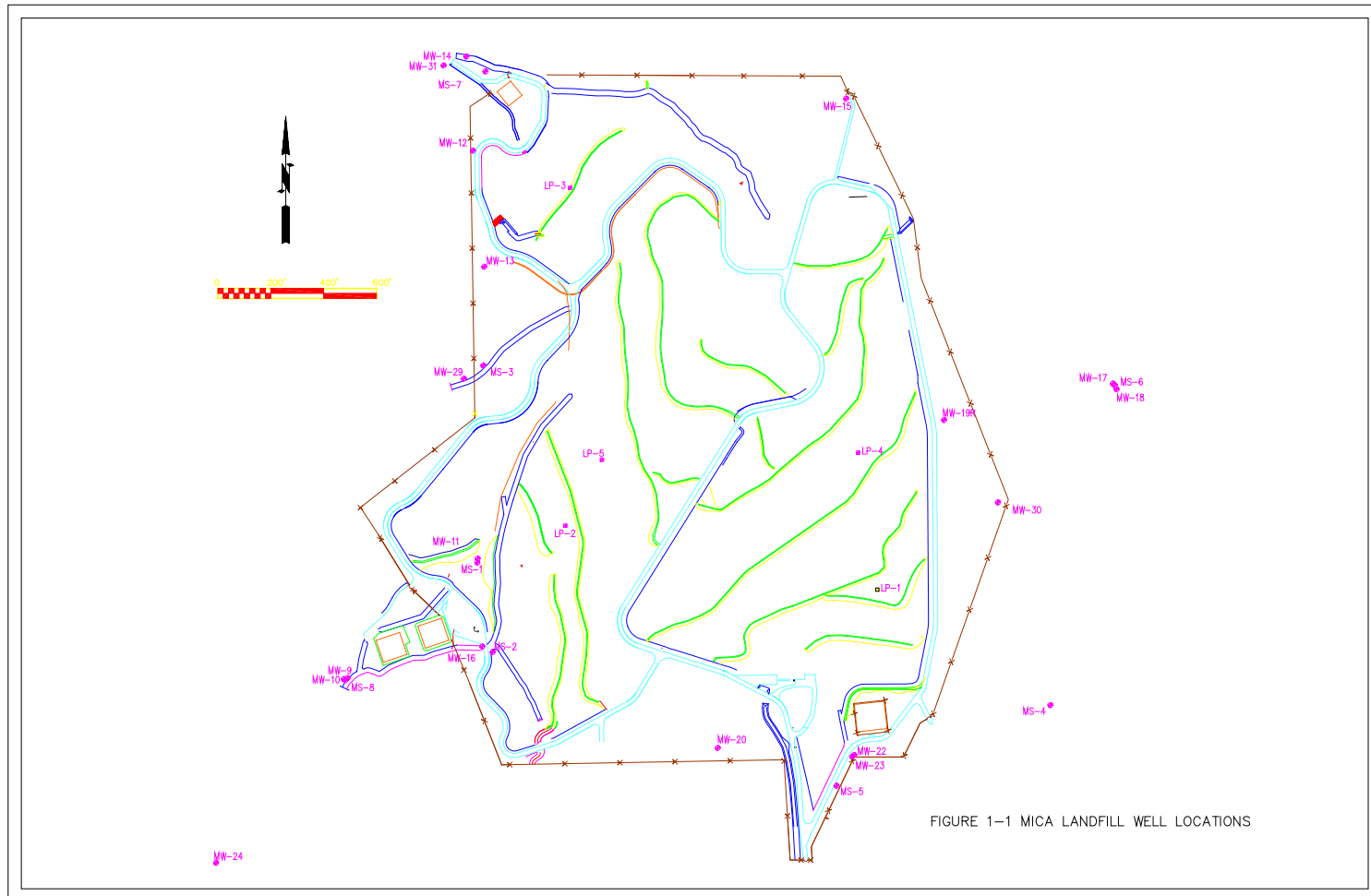


FIGURE 1-1 MICA LANDFILL WELL LOCATIONS

Table 1-2 Mica Landfill Summary of RA Compliance Monitoring Wells

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

Table 1-3 Mica Landfill Sampling Schedule

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

2 GROUNDWATER

2.1 GROUNDWATER DATA

2.1.1 PROBLEMS/ DEVIATIONS

Monitoring wells MS-4, MW-13, MW-19R and MW-29 are low producing wells that are purged once and allowed to recharge before obtaining samples. The groundwater level in MW-31 was below the pump intakes during September and a sample was unobtainable in that well.

2.1.2 FIELD DATA

Field parameters for this report are shown in Table 2-1. Hydrographs are presented in Figure 2-1 and Figure 2-2. Water level readings are shown in Table 2-2.

2.1.3 CRITERIA EXCEEDANCES

Detected analyte concentrations and clean-up criteria exceedances for this annual report are presented in Table 2-2 through Table 2-5. Clean-up criteria were presented previously in Table 1-1.

NORTHWEST DRAINAGE (MW-13, MW-14, MW-29 and MW-31)

Nitrate concentrations in MW-29 and MW-31 exceeded the regulatory criteria during this annual reporting period.

SOUTHWEST DRAINAGE (MW-9, MW-10 and MW-16)

Concentrations in samples collected from monitoring well MW-16 consistently exceeded six different VOC's, as well as arsenic and barium during this annual reporting period.

SOUTH DRAINAGE (MS-5, MW-20 and MW-23)

MW-20 exhibited lead and arsenic concentrations above criteria. Nitrate concentrations in MS-5 and MW-20 exceeded criteria.

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

Nitrate concentrations in both southeast area wells were above the cleanup criteria.

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

Nitrate levels at DW-2 and DW-3 exceeded the clean-up criteria for each sample round during this year. Zinc levels were above clean up criteria in DW-1 during December and March sampling. This well had new piping repairs completed in 2012 that contributed to the zinc levels. Since the initial repair, the trend in zinc concentrations is decreasing.

2.1.4 CHEMICAL DATA AND STATISTICAL TRENDS

All laboratory data collected during this annual reporting period is shown in Appendix A. Volatile organic detections for this reporting period are presented in Table 2-2. Detected concentrations of semi-volatile organics are shown in Table 2-3. Inorganic detections are presented in Table 2-4 and conventional parameters detected concentrations are in Table 2-5. Data summary analyses are presented in Appendix B. Data validation performed for the September 2017 sample round is presented in Appendix C.

STATISTICAL ANALYSIS: Trend analyses were performed on chemical data from 1994 to present date using Sen's non-parametric trend test. Statistically significant trends are included in Table 2-6. Due to the change in filtered versus non-filtered metals analysis (dissolved versus total) after March 2002, statistical analysis for metals was performed only on the unfiltered data collected after that date. Because of this, the statistical analysis calculated for metals may produce a trend that does not reflect the overall historic changes for that constituent.

NORTHWEST DRAINAGE (MW-13, MW-14, MW-29 and MW-31)

Time series plots for northwest area analyte concentrations are presented in Figure 2-3 through Figure 2-8. Statistically significant trends for the northwest area are presented in Table 2-6. The northwest drainage wells show little to no detections of VOC's. Monitoring well MW-29 located in the southern area of the northwest drainage indicate increasing trends in a majority of the conventionals.

SOUTHWEST DRAINAGE (MW-9, MW-10 and MW-16)

Time series plots for southwest area monitoring well analyte concentrations are presented in Figures 2-9 through 2-25. Statistically significant trends for the southwest area are shown in Table 2-6.

Monitoring wells MW-9 and MW-10 show no detections of VOC's. Out of all wells monitored at the Mica Landfill, MW-16 typically has the highest concentrations of analytes and statistical analysis shows increasing concentrations for the majority of these. Monitoring well MW-16 also exhibits decreasing trends for MC and TCE while increasing trends for five other VOC's indicating VOC degradation.

Monitoring well MW-9 shows mainly decreasing trends in conventionals.

SOUTH DRAINAGE (MS-5, MW-20 and MW-23)

Time series plots for the south area monitoring well analyte concentrations are presented in Figures 2-26 through 2-34. Statistically significant trends for the south area are shown in Table 2-6.

Decreasing PCE, MC, and TCE trends are indicated in MW-23. Monitoring well MS-5 exhibits increasing conventionals, except for nitrate which is statistically decreasing in concentration. Statistical analysis shows a slightly increasing trend for alkalinity in MW-20.

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

Time series plots for the south area monitoring well analyte concentrations are presented in Figures 2-35 through 2-40. Statistically significant trends are shown in Table 2-6.

Monitoring well MS-4 shows some increasing trends in conventionals. Monitoring well MW-19R indicates decreasing trends in conventionals.

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

Time series plots for the south area monitoring well analyte concentrations are presented in Figures 2-41 through 2-44. Statistically significant trends are shown in Table 2-6.

Data from DW-1 and DW-3 show statistically increasing trends for nitrate.

2.1.5 CONTINGENCY RESPONSE ACTIONS

Nitrate levels at domestic well DW-2 were over clean-up criteria during this year. The statistical analysis for nitrate at this well indicates a decreasing trend. As stated in previous reports, these levels of nitrate are historically found in this well and further confirmation of the analyte presence is not needed.

The nitrate concentration in DW-3 exceeded the cleanup criteria each sample round during this annual reporting period. This well has exhibited an increasing trend for nitrate since 2006.

Table 2-1 Mica Landfill Field Parameters Summary

StationID	SampleDate	Temperature	pH	Conductivity	Turbidity	WElev
DW-001	6/6/2017	11.8	6.9	284	0.77	
DW-001	9/13/2017	14.8	6.88	272	0.19	
DW-001	12/6/2016	11.4	6.67	283	0.88	
DW-001	3/7/2017	10.6	6.61	293	0.41	
DW-002	6/6/2017	11.5	6.7	322	0.09	
DW-002	12/6/2016	11.2	6.85	302	0.32	
DW-002	3/7/2017	10.8	6.82	328	0.39	
DW-002	9/13/2017	11.5	7.07	405	0.77	
DW-003	3/7/2017	10.8	7.31	368	0.35	2391.74
DW-003	12/6/2016	11	7.42	331	0.18	2393.2
DW-003	9/13/2017	11.8	7.37	479	0.36	2391.54
DW-003	6/6/2017	11.4	7.33	343	0.13	2393.53
MS-004	12/6/2016	9.4	6.91	197	1.58	2511.640049
MS-004	3/8/2017	8.7	6.79	183	1.48	2514.590049
MS-004	9/13/2017	9.9	6.9	317	2.76	2512.880049
MS-004	6/6/2017	9.5	6.91	252	1.08	2515.640049
MS-005	3/8/2017	9.9	6.53	410	0.39	2561.940098
MS-005	12/6/2016	10.7	6.51	430	0.41	2559.490098
MS-005	9/14/2017	11	6.55	362	0.55	2564.250098
MS-005	6/6/2017	11.1	6.5	393	0.41	2565.640098
MS-005	9/20/2017	10.7	6.57	408	0.31	2564.230098
MW-009	6/6/2017	9	6.57	448	1.2	2494.830029
MW-009	9/13/2017	11.1	6.61	542	1.14	2494.910029
MW-009	12/6/2016	8.2	6.72	392	3.28	2492.430029
MW-009	3/8/2017	6.2	6.78	504	1.19	2494.740029
MW-010	3/8/2017	8.9	7.28	178	0.51	2493.389883
MW-010	12/6/2016	8.3	7.13	127	0.17	2492.079883
MW-010	6/6/2017	9.6	6.89	125	0.58	2494.069883
MW-010	9/13/2017	10.3	6.93	127	0.5	2494.109883
MW-013	9/13/2017	11.7	6.88	415	1.21	2674.079941
MW-013	3/7/2017	9.2	6.76	411	1.42	2671.409941
MW-014	12/6/2016	10.5	6.92	161	0.97	2591.060059
MW-014	9/13/2017	11.7	6.97	147	0.91	2575.200059
MW-014	6/6/2017	9.9	6.93	137	0.95	2588.470059
MW-014	3/7/2017	9.6	6.93	147	1.09	2591.060059
MW-016	6/7/2017	12	6.96	2	0.73	2536.569922
MW-016	3/8/2017	9.7	6.99	2600	158	2536.629922
MW-016	9/14/2017	11.2	6.89	1919	1.2	2536.619922
MW-016	9/20/2017	11.7	6.92	2510	0.92	2538.329922
MW-016	12/7/2016	11.9	6.81	1918	1.9	2536.749922
MW-019R	3/7/2017	10	6.71	204	1.11	2697.77002
MW-019R	6/6/2017	12.5	6.91	199	7.12	2649.42002
MW-019R	9/13/2017	11.8	6.49	190	7.2	2687.23002
MW-019R	12/6/2016	10.5	6.7	196	7.4	2684.62002
MW-020	9/13/2017	12.1	7.04	579	221	2597.930049
MW-020	3/7/2017	9.9	7.05	574	511	2587.760049
MW-023	12/7/2016	10.4	6.72	873	0.11	2560.900039
MW-023	3/8/2017	9.8	6.85	978	5.72	2563.480039
MW-023	9/20/2017	10.8	6.93	928	1.89	2565.850039
MW-023	9/14/2017	11.1	6.96	870	3.66	2565.820039
MW-023	6/7/2017	11.3	6.87	957	4.05	2567.680039
MW-029	12/6/2016	9	6.23	682	1.82	2589.67002
MW-029	9/13/2017	11	6.2	654	0.87	2592.77002
MW-029	6/6/2017	10.3	6.25	687	0.86	2592.02002
MW-029	3/7/2017	7.9	6.16	698	0.88	2589.37002
MW-031	12/6/2016	10.4	6.36	155	1.03	2589.779961
MW-031	6/6/2017	10.7	6.53	142	1.07	2585.489961
MW-031	3/7/2017	9.3	6.39	132	1.12	2590.009961

Temp: Degrees C, Conductivity: umhos/cm, Turbidity: NTU, WElev: ft above MSL

Figure 2-1 Hydrographs

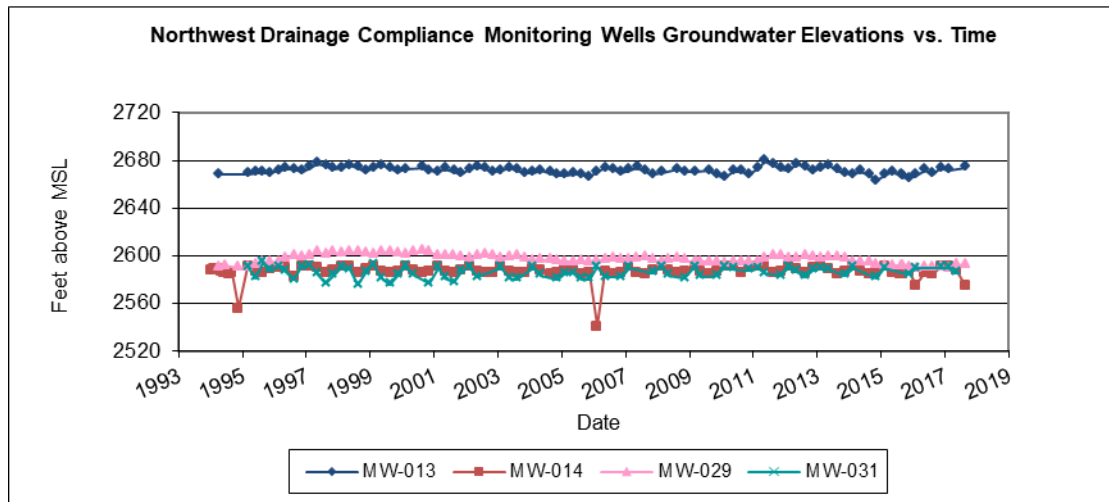
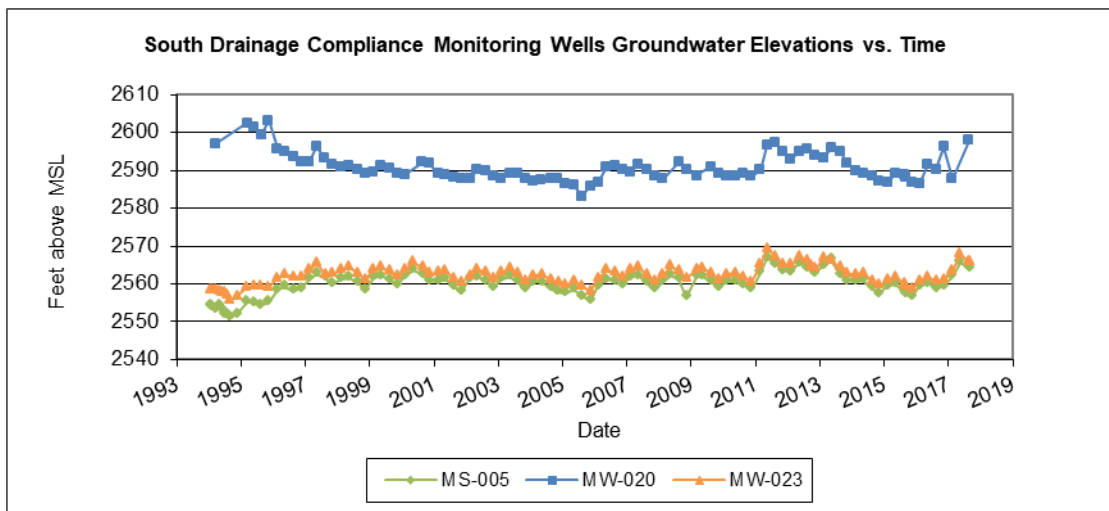
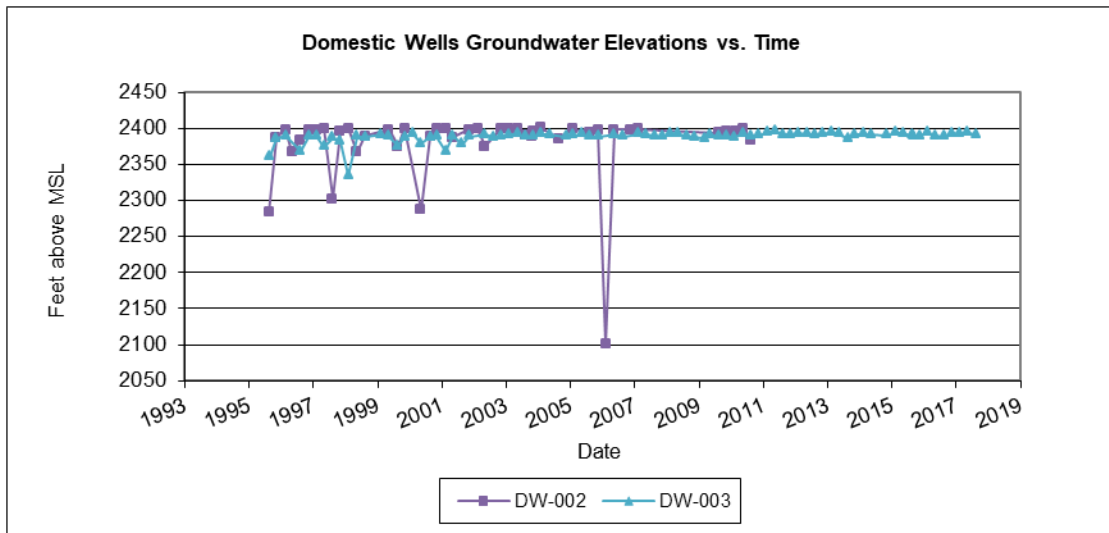


Table 2-2 Volatile Organic Detections for the Reporting Period (ug/L)

StationID	SampleDate	1,2-DCA	1,2-DCP	Acetone	Benzene	cis-1,2-DCE	PCE	Toluene	TCE	VC
MW-016	12/7/2016		12.3	1620	14.9	32.8		41.7		
MW-016	3/8/2017		13.1	3090	16.7	36.3		50.5		6.65
MW-016	6/7/2017	3.29	15.9	1280	15.3	40.3		58.5	2.84	5.5
MW-016	9/14/2017	2.8	12.8	1410	12.9	19.9		30.8		4.8
MW-019R	3/7/2017				0.5			0.62		
MW-023	12/7/2016				0.52	0.82			0.51	
MW-023	6/7/2017					0.73				
MW-023	9/14/2017					0.62			0.51	
MW-029	12/6/2016						0.6			
MW-029	3/7/2017						0.66			
MW-029	6/6/2017						0.51			
MW-029	9/13/2017						0.54			

Clean-up level exceedances are in **red**.

Table 2-3 Semi-Volatile Organic Detections for the Reporting Period (ug/L)

StationID	bis(2-Ethylhexyl)Phthalate	Units	Date
DW-001	0.5U	ug/L	3-2017
DW-002	0.5U	ug/L	3-2017
DW-003	0.5U	ug/L	3-2017
MS-004	0.5U	ug/L	3-2017
MS-005	0.5U	ug/L	3-2017
MW-009	0.5U	ug/L	3-2017
MW-029	0.5U	ug/L	3-2017
MS-004	0.5U	ug/L	9-2017

Clean-up level exceedances are in **red**.

Table 2-4 Inorganic Detections for the Reporting Period (mg/L)

StationID	SampleDate	Arsenic	Barium	Lead	Manganese	Vanadium	Zinc
DW-001	12/6/2016		0.0193				0.794
DW-001	3/7/2017		0.0223		0.0119		0.938
DW-001	6/6/2017		0.0101		0.0114		0.201
DW-002	12/6/2016		0.0384				
DW-002	3/7/2017		0.0311		0.0143	0.0054	0.04
DW-002	6/6/2017		0.037				0.022
DW-003	12/6/2016		0.0296				0.17
DW-003	3/7/2017		0.0299				0.131
DW-003	6/6/2017		0.0285				0.152
MS-004	12/6/2016		0.0538		0.0084		
MS-004	3/8/2017		0.0502				
MS-004	6/6/2017		0.0529				
MS-005	12/6/2016		0.0673				
MS-005	3/8/2017		0.061				
MS-005	6/6/2017		0.0655				
MS-005	9/14/2017		0.0615				
MW-009	12/6/2016		0.117		0.144		
MW-009	3/8/2017		0.139		0.193		
MW-009	6/6/2017		0.132		0.258		
MW-010	12/6/2016		0.044				
MW-010	3/8/2017		0.0435				
MW-010	6/6/2017		0.045				
MW-013	3/7/2017		0.0524				
MW-014	12/6/2016				0.11		
MW-014	3/7/2017				0.239		
MW-014	6/6/2017				0.34		
MW-016	12/7/2016	0.0566	0.702		0.928		
MW-016	3/8/2017	0.0584	0.724		1.05		
MW-016	6/7/2017	0.0578	0.71		1.01		
MW-016	9/14/2017	0.0524	0.625		0.573		
MW-019R	12/6/2016		0.0419				
MW-019R	3/7/2017		0.041				
MW-019R	6/6/2017		0.0522		0.0105		
MW-020	3/7/2017	0.00694	0.412	0.0515	0.222	0.0075	0.099
MW-023	12/7/2016		0.172		1.15		
MW-023	3/8/2017		0.178		1.09		
MW-023	6/7/2017		0.161		1.03		
MW-023	9/14/2017	0.00334	0.165		1.11		
MW-029	12/6/2016		0.108				
MW-029	3/7/2017		0.105				
MW-029	6/6/2017		0.107				
MW-031	12/6/2016		0.0478		0.032		
MW-031	3/7/2017		0.0323				
MW-031	6/6/2017		0.0438				

Clean-up level exceedances are in **red**

Table 2-5 Conventional Detections for the Reporting Period (mg/L)

StationID	SampleDate	Alkalinity	Ammonia	Chloride	N-Nitrate	Sulfate	Total Dissolved Solids	Total Organic Carbon
DW-001	12/6/2016	145		7.39		8.45		1.67
DW-001	3/7/2017			7.94	0.241	8.71		3.54
DW-001	6/6/2017			2.52	0.051	10.9		
DW-002	12/6/2016	155		8.3	1.4	4.95		
DW-002	3/7/2017			7.22	1.03	6.88		
DW-002	6/6/2017			7.83	1.2	5.55		
DW-003	12/6/2016	186		0.82	2.78	1.7		
DW-003	3/7/2017			0.83	2.66	1.8		
DW-003	6/6/2017			0.73	2.44	1.46		
MS-004	12/6/2016							1.3
MS-004	3/8/2017			0.44	4.75	12.8	204	1.34
MS-004	6/6/2017							1.01
MS-005	12/6/2016							1.74
MS-005	3/8/2017			36.2	1.8	26.2	297	1.65
MS-005	6/6/2017							1.58
MS-005	9/14/2017			40.8		25.5	281	1.46
MS-005	9/20/2017				1.61			
MW-009	12/6/2016							3
MW-009	3/8/2017			16.8		3.61	291	2.51
MW-009	6/6/2017							2.43
MW-010	3/8/2017			0.35	0.257	0.64	127	
MW-013	3/7/2017			10.4	0.221	4.99	269	1.47
MW-014	3/7/2017			0.74		9.4	126	
MW-016	12/7/2016		0.165					138
MW-016	3/8/2017		0.187	167	0.583	1.06	1690	161
MW-016	6/7/2017		0.241					159
MW-016	9/14/2017		0.245	155			1530	82.1
MW-016	9/20/2017				1.45			
MW-019R	12/6/2016							1.39
MW-019R	3/7/2017			9.82	1.49	6.69	187	1.38
MW-019R	6/6/2017							1.37
MW-020	3/7/2017			9.07	3.76	10.9	381	1.5
MW-023	12/7/2016							3.87
MW-023	3/8/2017			78.9		7.19	633	3.09
MW-023	6/7/2017							3.9
MW-023	9/14/2017			75.8		7.43	596	3.44
MW-029	3/7/2017			163	1.05	6.75	464	
MW-031	12/6/2016							5.88
MW-031	3/7/2017			2.19	2.44	4.8	111	5.78
MW-031	6/6/2017							4.38

Clean-up level exceedances are in **red**

Table 2-6 Mica Landfill Statistically Significant Trends (Sen's Test) 2017

Drainage:	Northwest				Southwest			South			Southeast		Domestic		
Analyte	MW-13	MW-14	MW-29	MW-31	MW-9	MW-10	MW-16	MS-5	MW-20	MW-23	MS-4	MW-19R	DW-1	DW-2	DW-3
Alkalinity	▲		▲	▼		▲	▲	▲	▲		▲	▼	▼		▼
Ammonia							▲								
Chloride	▲		▲		▼	▼	▲	▲				▼	▲	▲	
Nitrate	▼		▲			▲		▼		▼	▲	▲	▲	▼	▲
Sulfate			▲		▼	▼		▲	▼		▲	▼			
TDS			▲	▼	▼						▲	▼			
TOC				▼								▼			
Arsenic							▲*								
Barium	▼*		▲*		▲*				▲*	▼*		▼*	▲*	▲*	
Manganese					▼*		▼*			▲*	▼*				
Zinc															▼*
1,2-DCA										▼					
1,2-DCP							▲								
Acetone							▲								
Benzene							▲								
Cis-1,2-DCE							▲					▼			
MC							▼			▼					
PCE	▼		▲					▼		▼					
TCE							▼	▼		▼					
Toluene															
VC							▲								

▼ = decreasing trend

▲ = increasing trend

* Statistical analysis calculated on metals data collected after March 2002. May not reflect overall historical trend.
(99% Confidence level)

Figure 2-2 Northwest Drainage Monitoring Wells VOC Concentrations

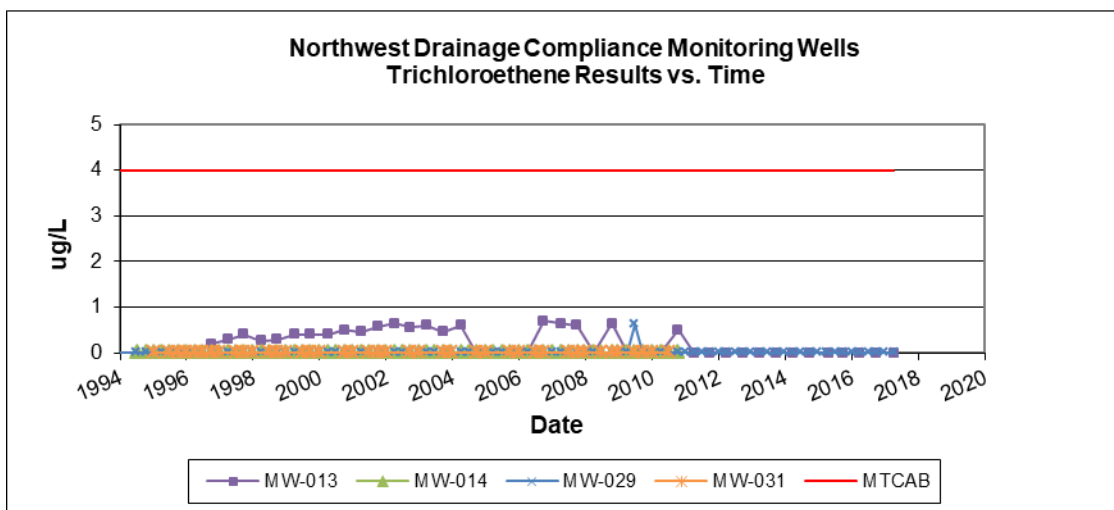
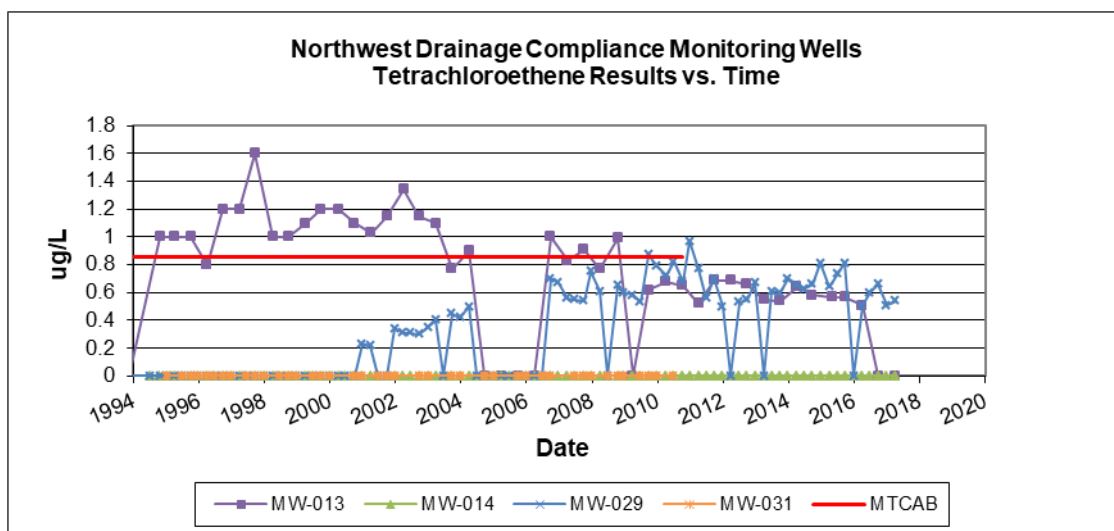
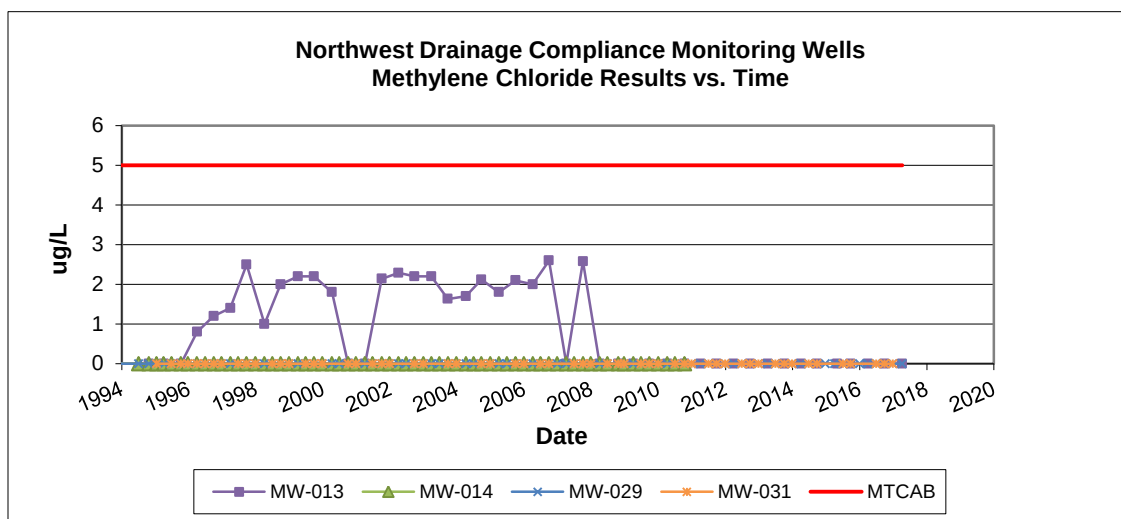


Figure 2-3 Northwest Drainage Area Monitoring Well Inorganic Concentrations

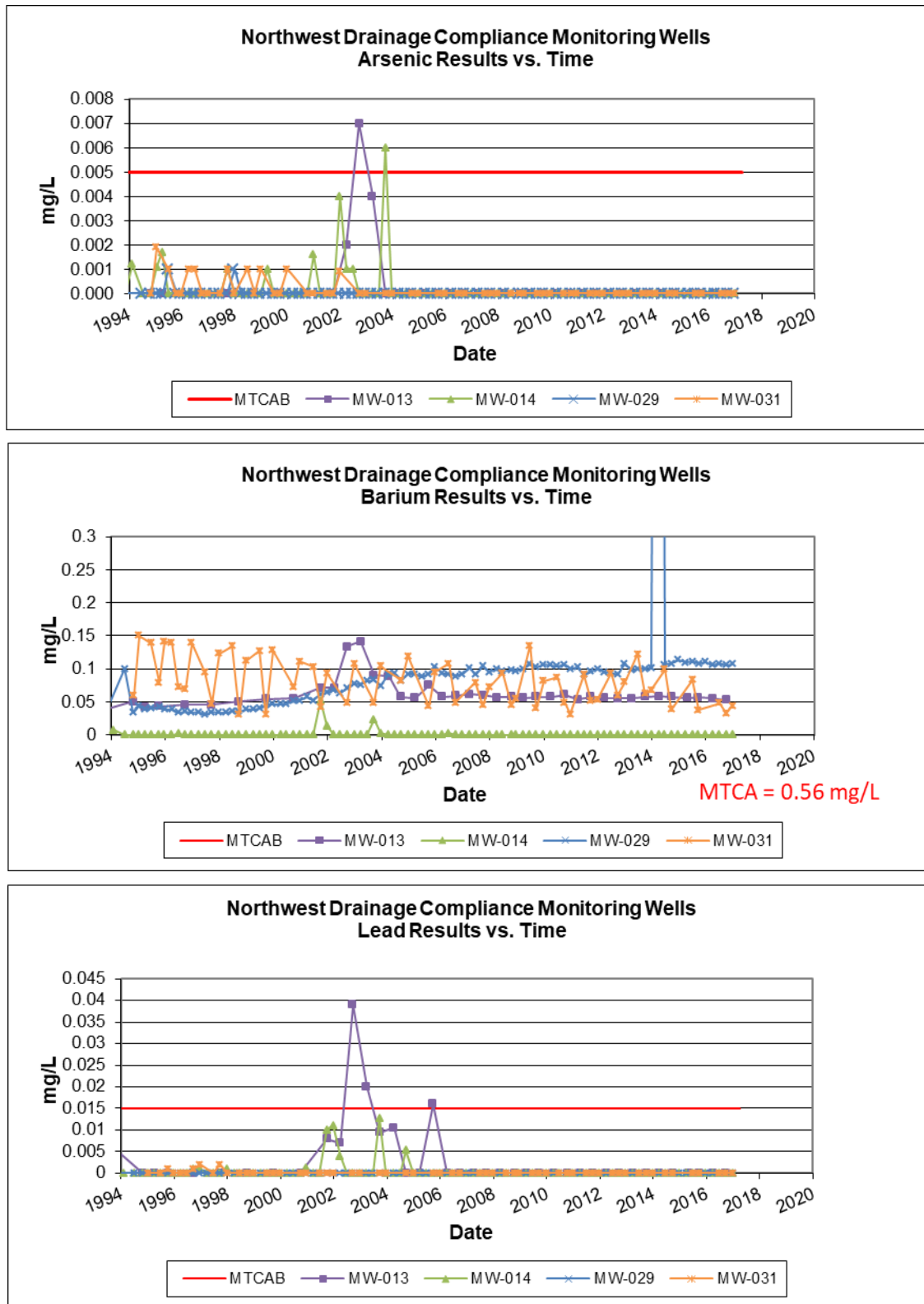


Figure 2-4 Northwest Drainage Area Monitoring Well Inorganic Concentrations

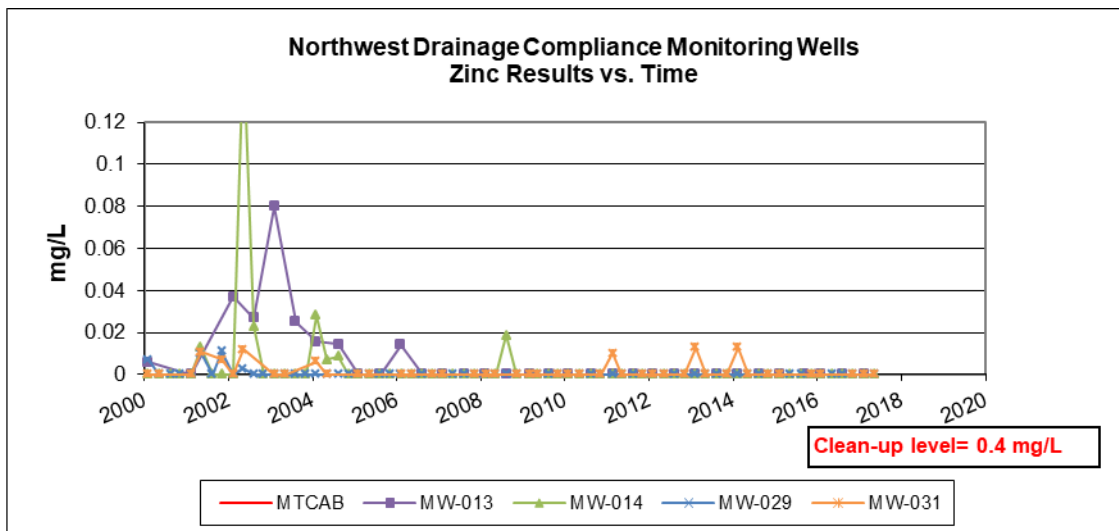
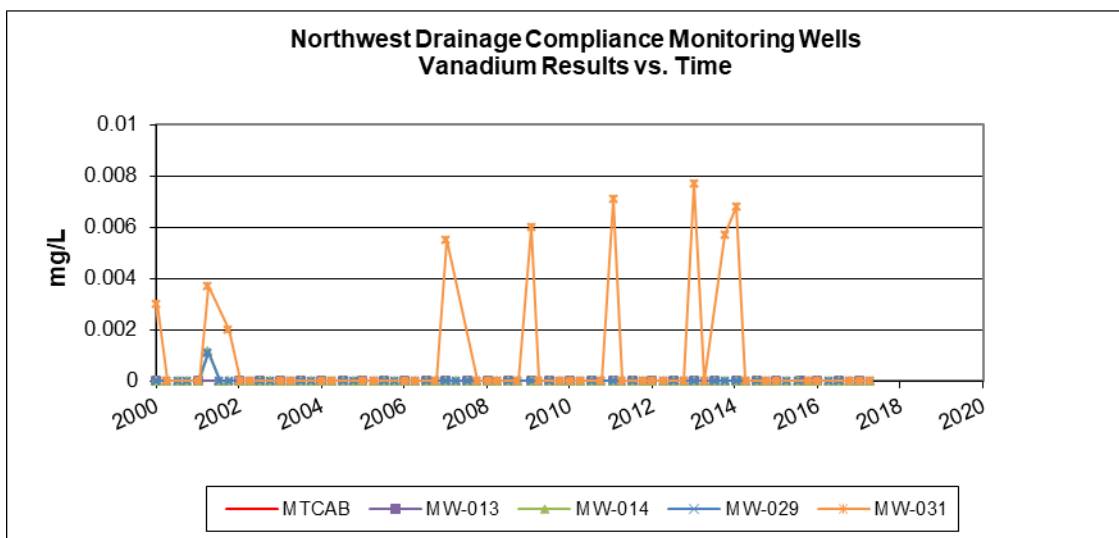
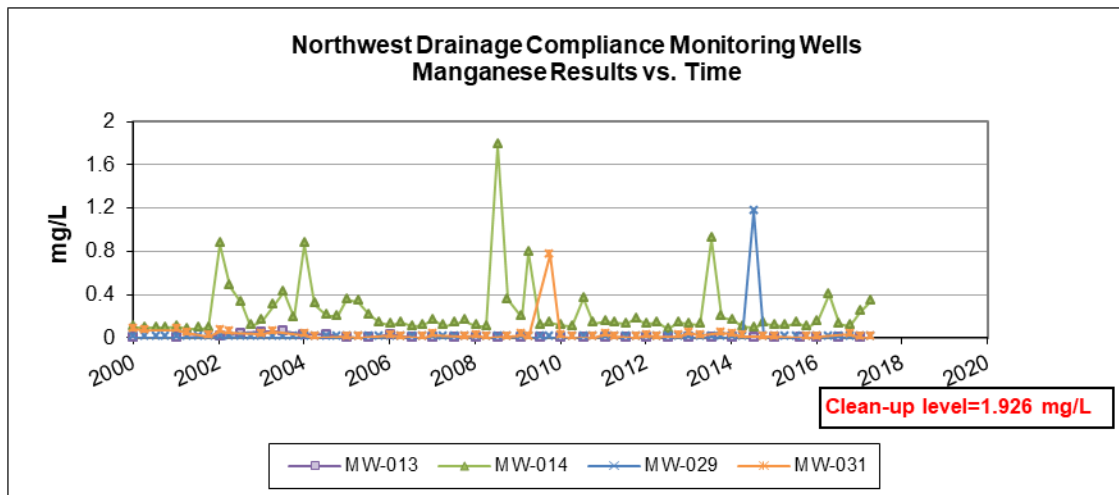


Figure 2-5 Northwest Drainage Area Monitoring Well Conventional Concentrations

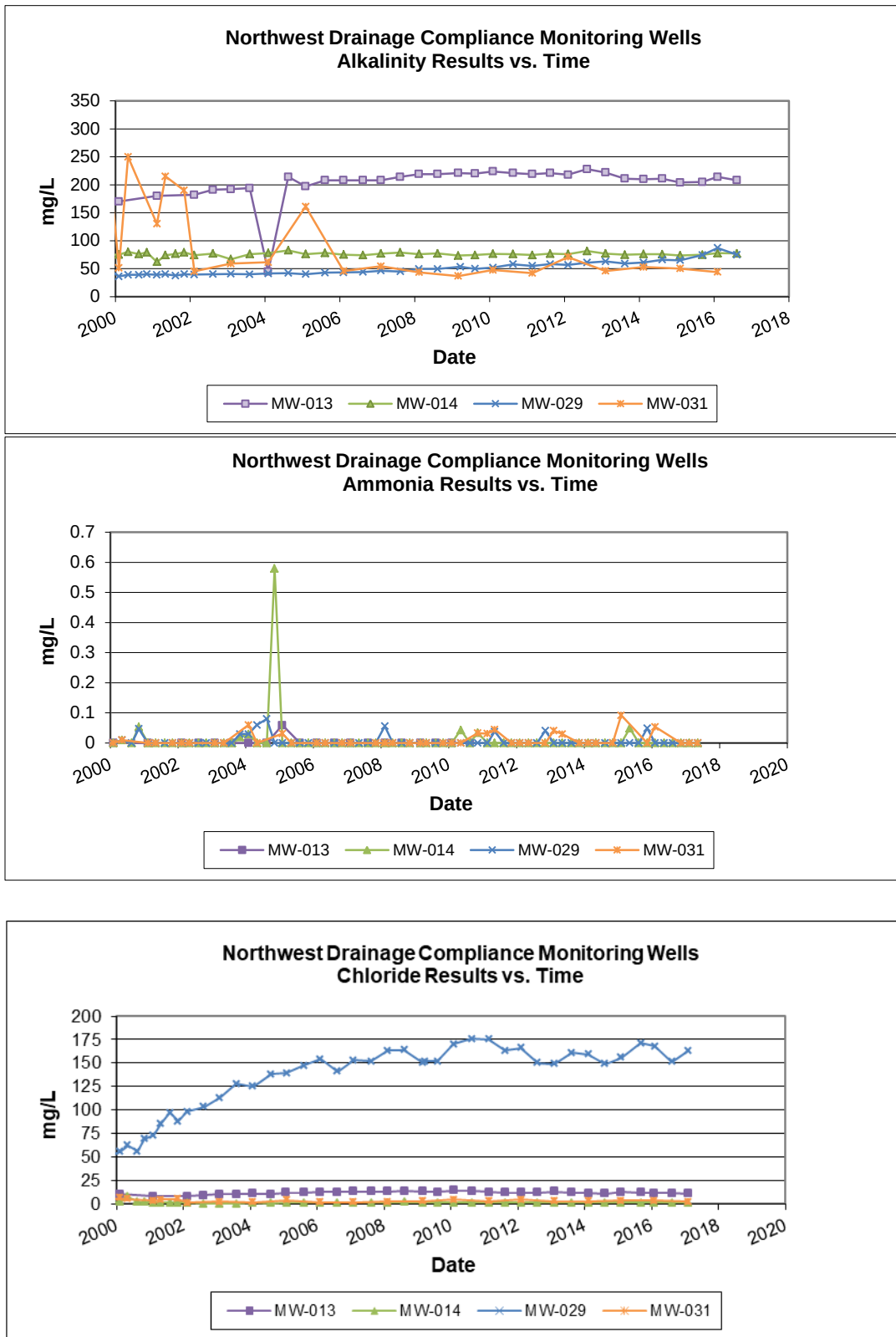


Figure 2-6 Northwest Drainage Area Monitoring Well Conventional Concentrations

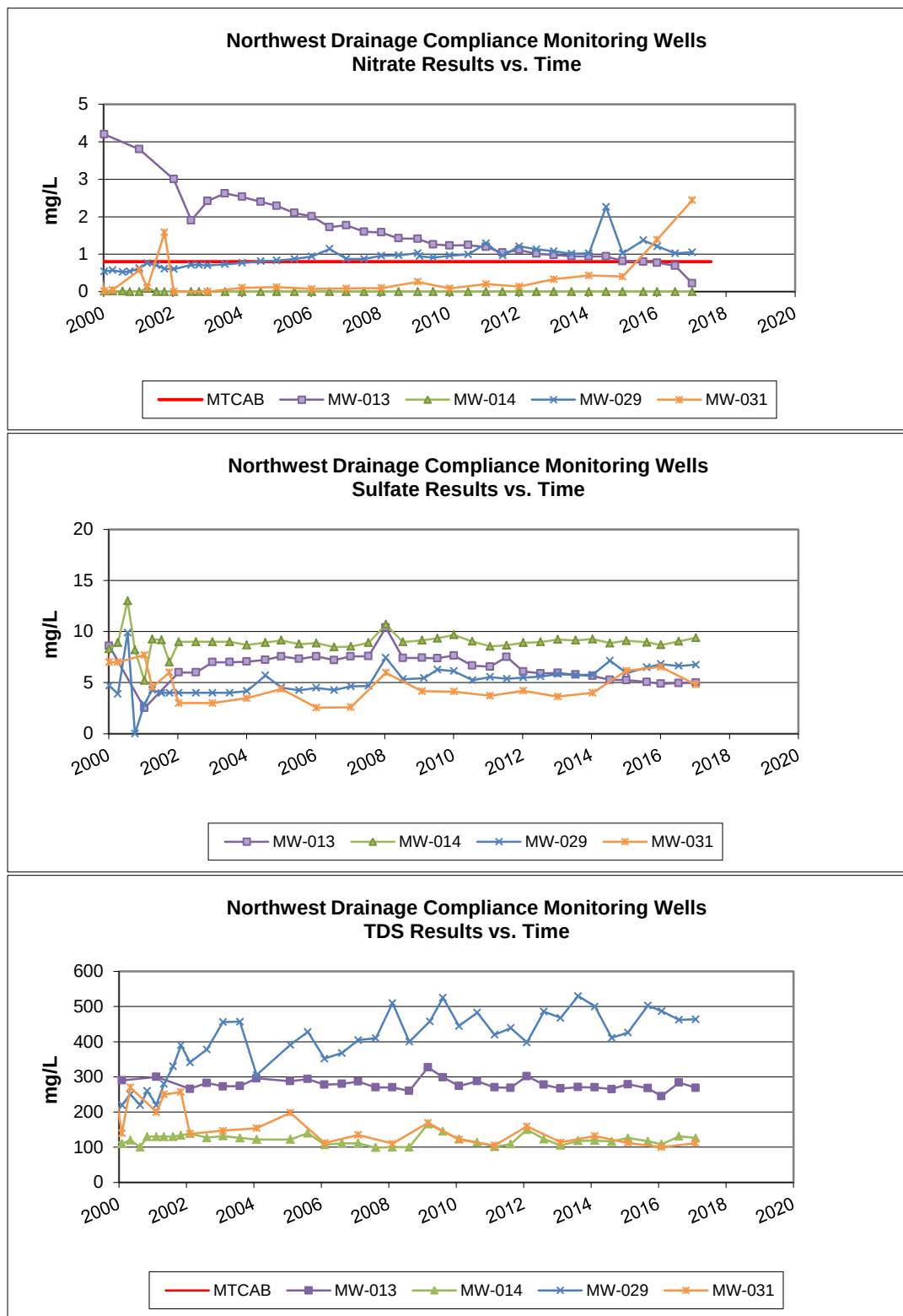


Figure 2-7 Northwest Drainage Area Monitoring Well Conventional Concentrations

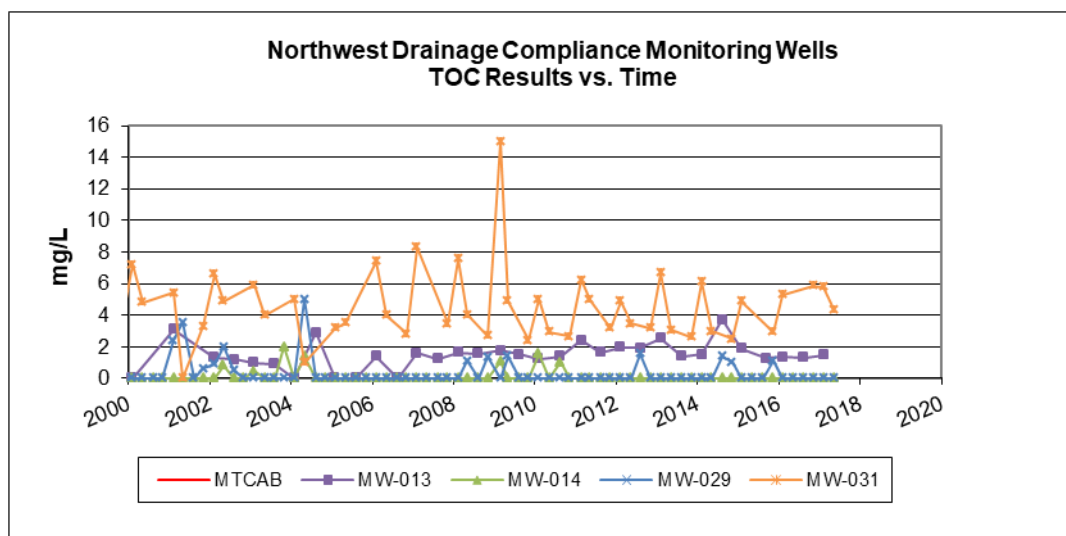


Figure 2-8 Southwest Drainage Area Monitoring Wells VOC Concentrations

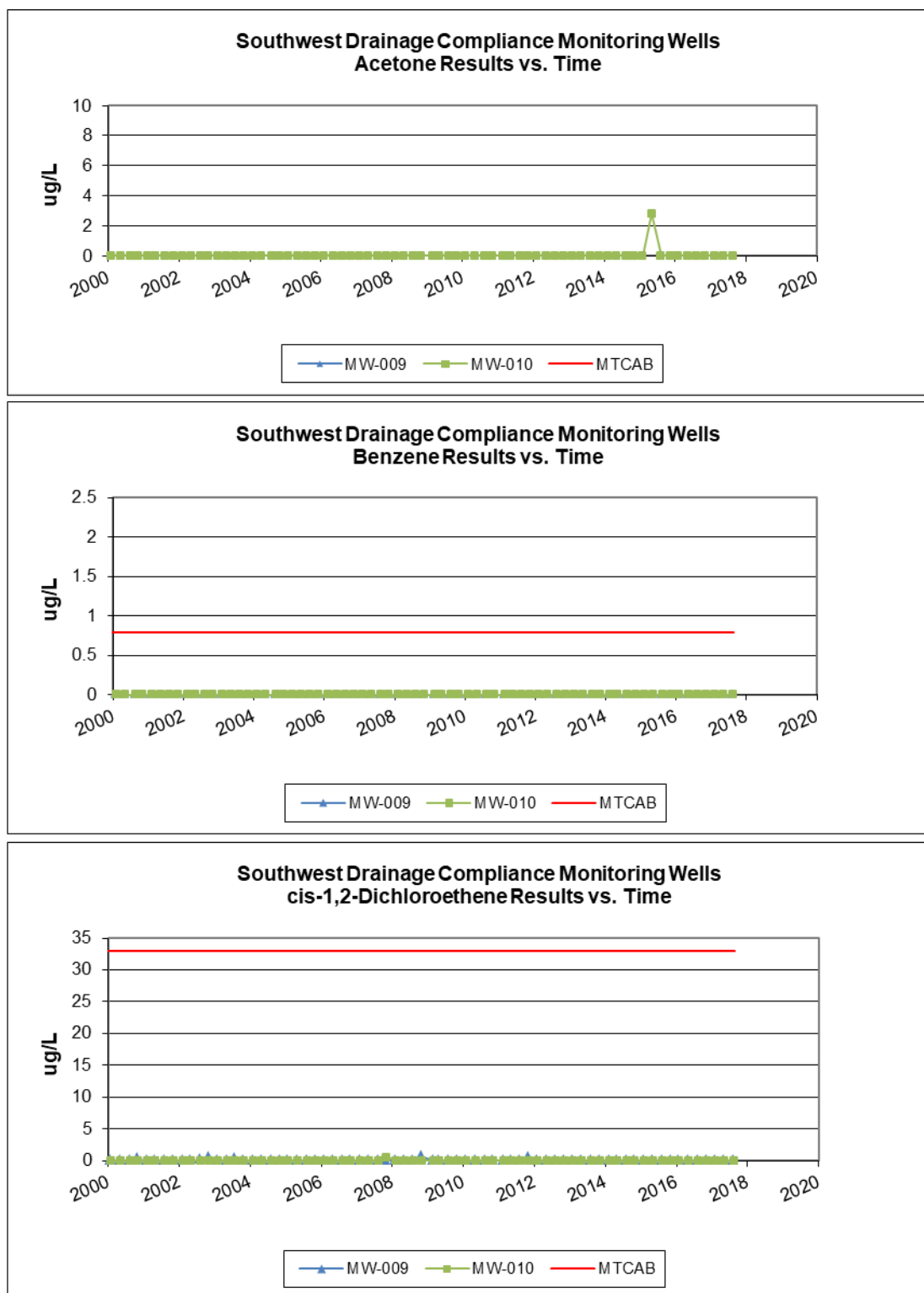


Figure 2-9 Southwest Drainage Area Monitoring Wells VOC Concentrations

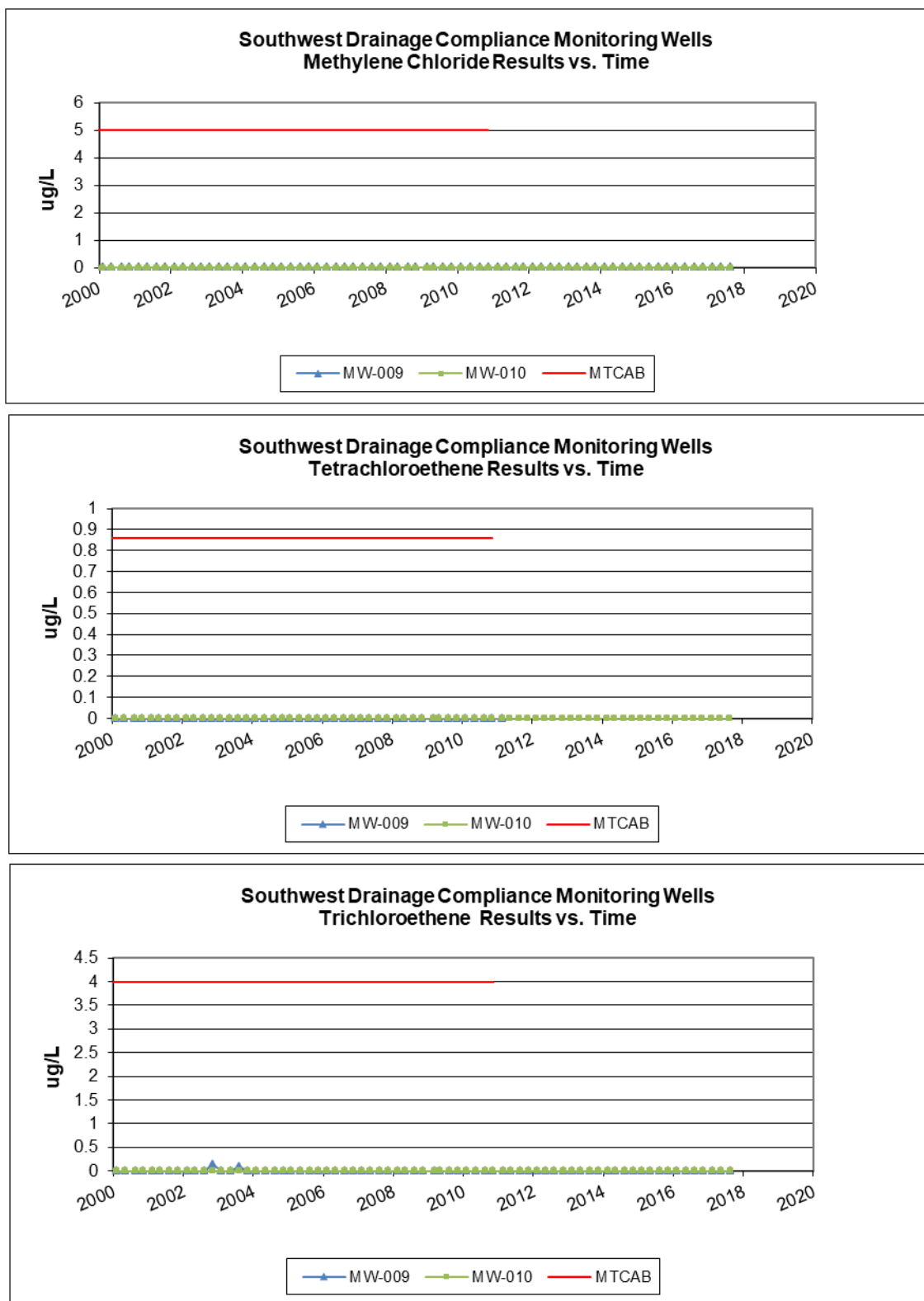


Figure 2-10 Southwest Drainage Area Monitoring Wells VOC Concentrations

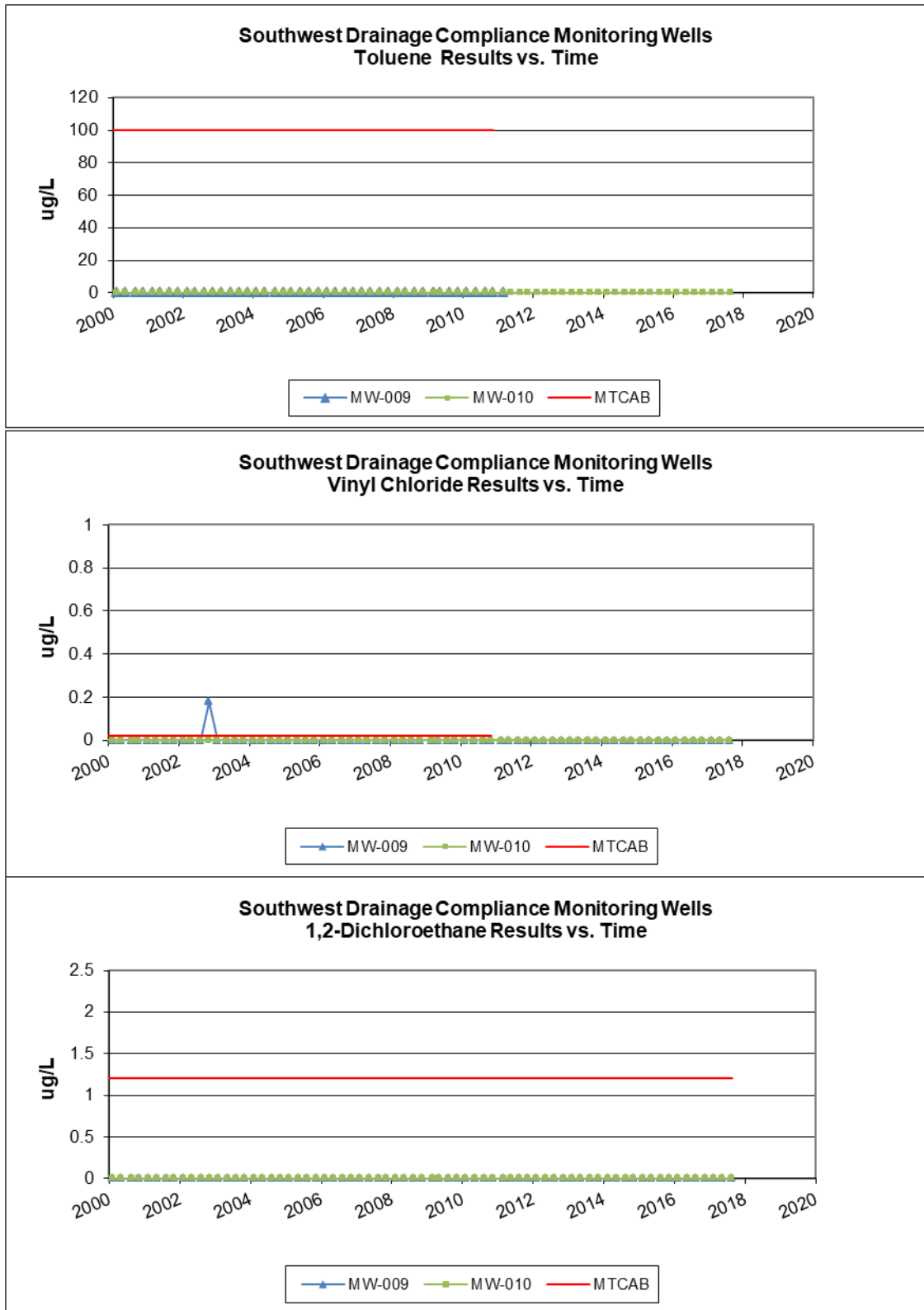


Figure 2-11 Southwest Drainage Area Monitoring Wells VOC Concentrations

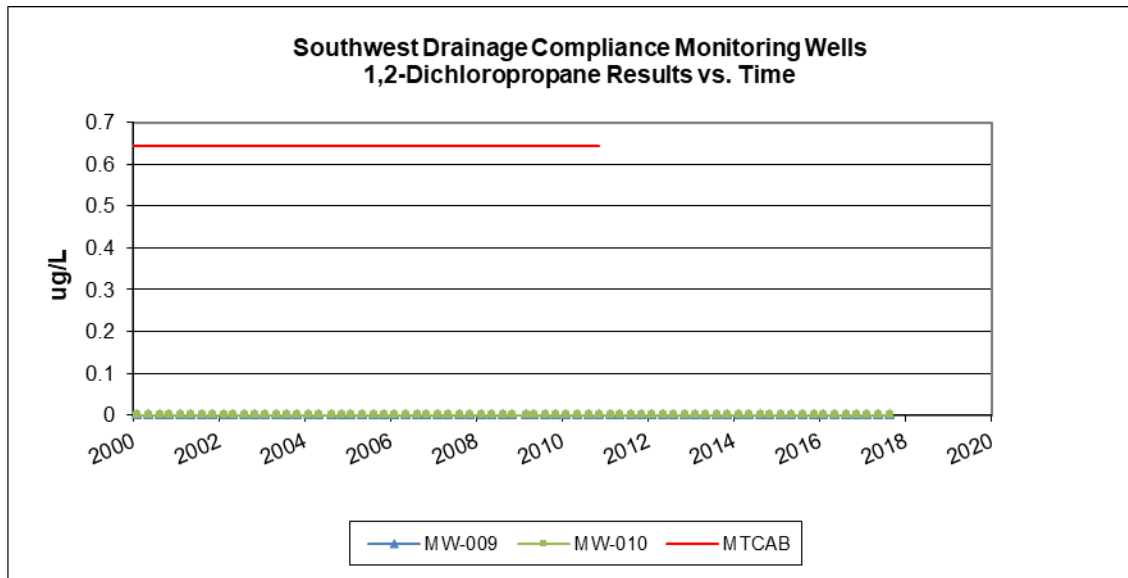


Figure 2-12 Southwest Drainage Area Monitoring Wells Inorganic Concentrations

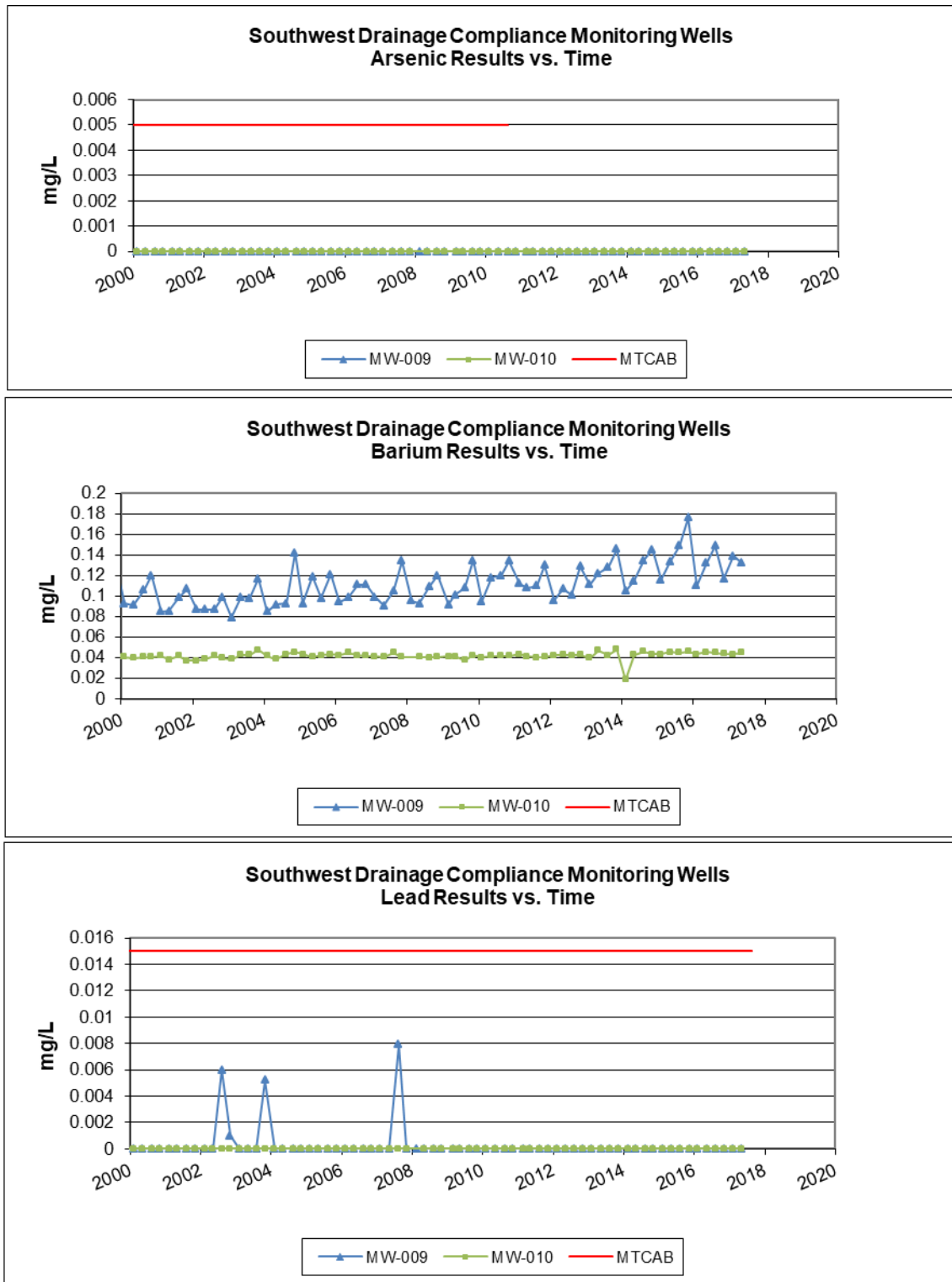


Figure 2-13 Southwest Drainage Monitoring Wells Inorganic Concentrations

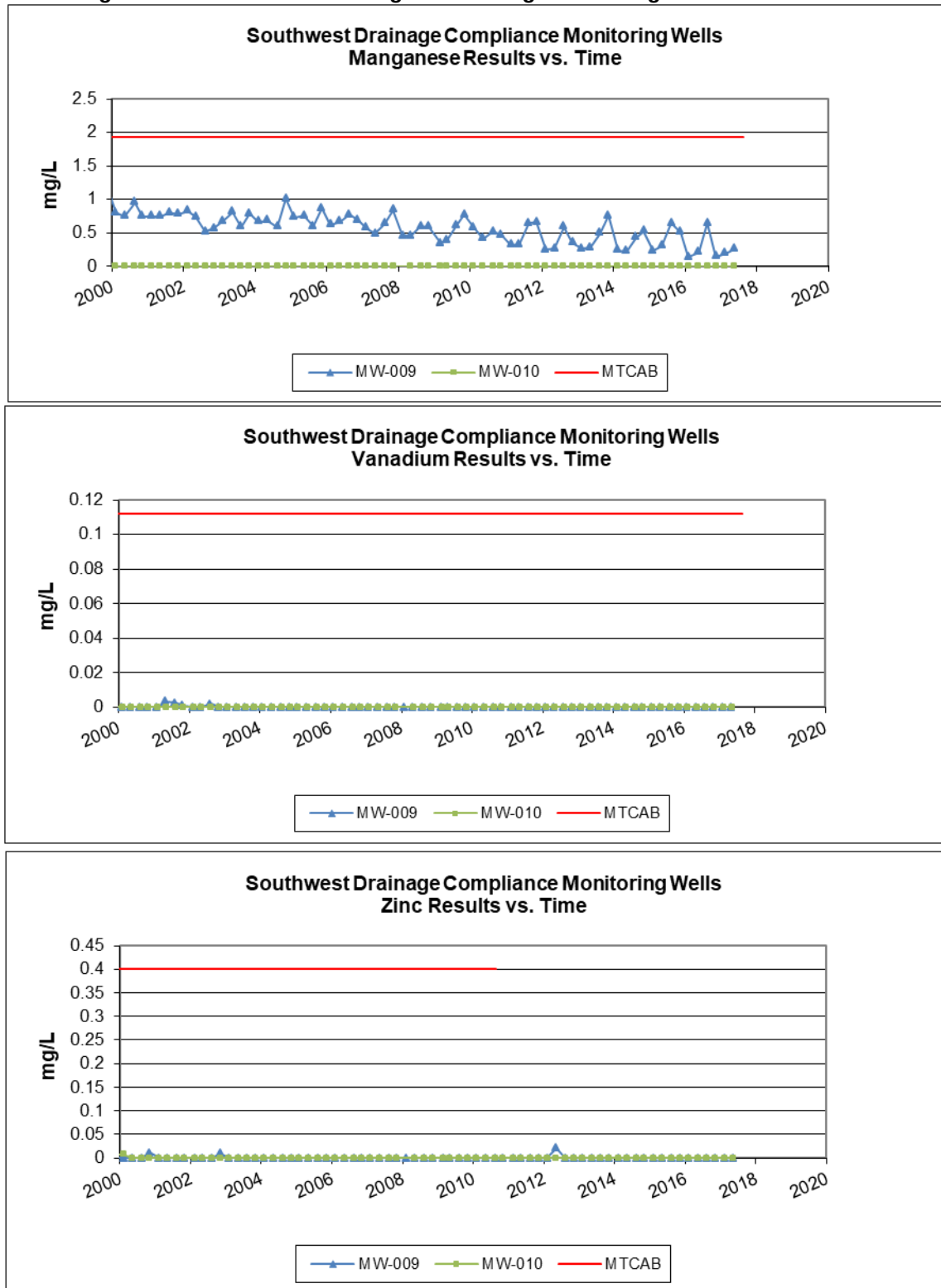


Figure 2-14 Southwest Drainage Monitoring Wells Conventional Concentrations

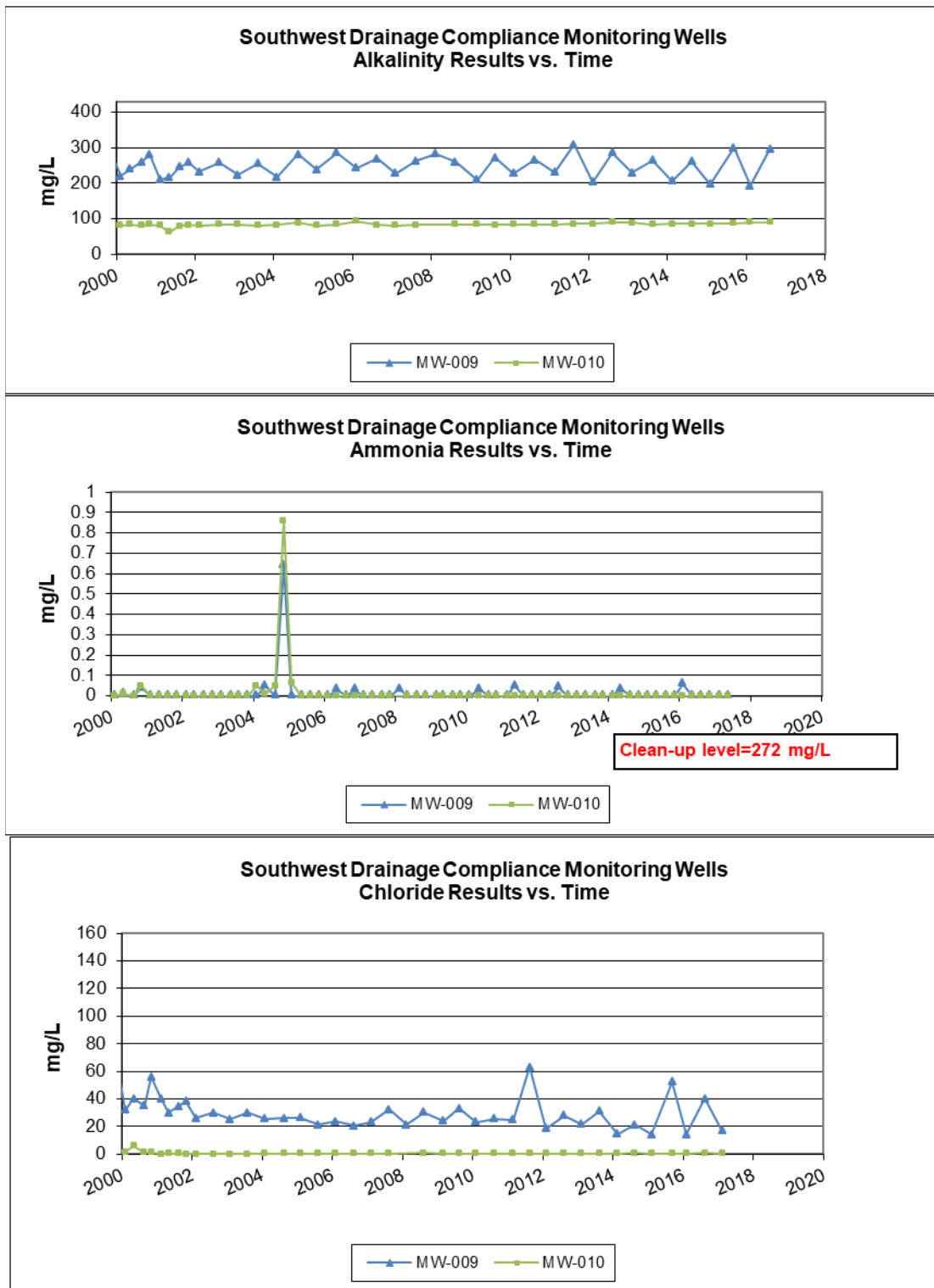


Figure 2-15 Southwest Drainage Area Monitoring Wells Conventional Concentrations

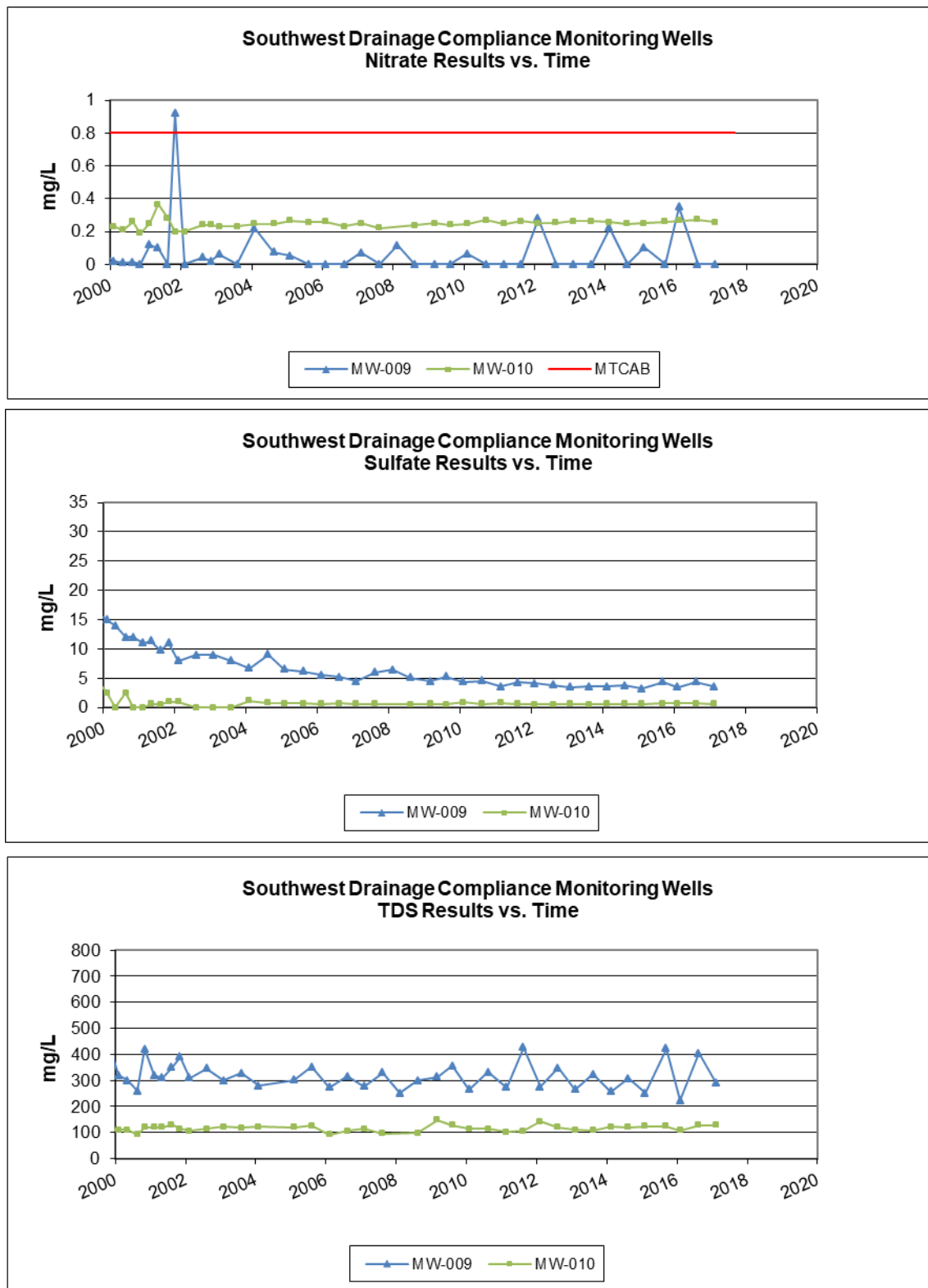


Figure 2-16 Southwest Drainage Area Monitoring Wells Conventional Concentrations

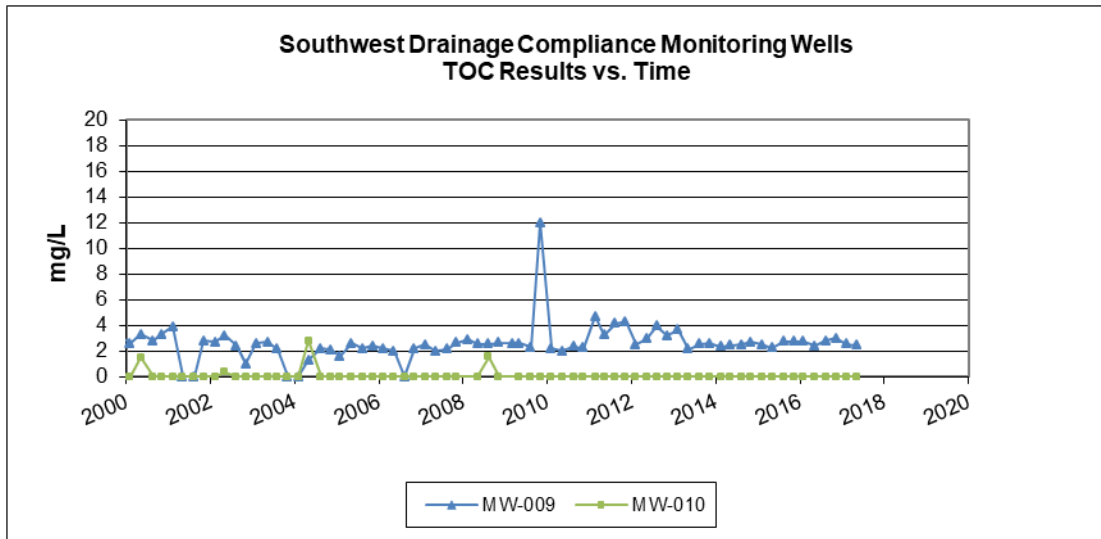


Figure 2-17 Southwest Drainage Area Monitoring Well MW-016 VOC Concentrations

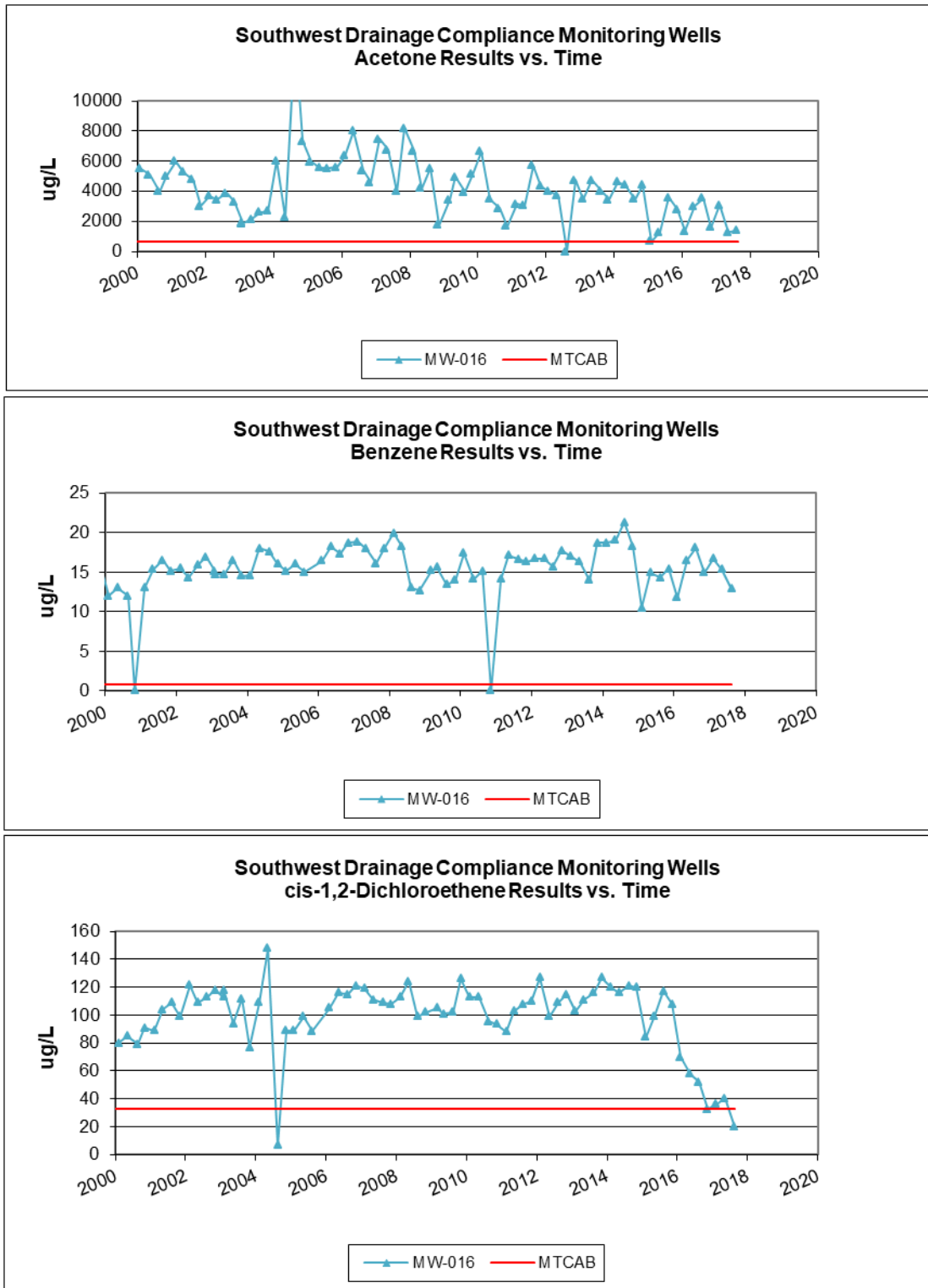


Figure 2-18 Southwest Drainage Area Monitoring Well MW-016 VOC Concentrations

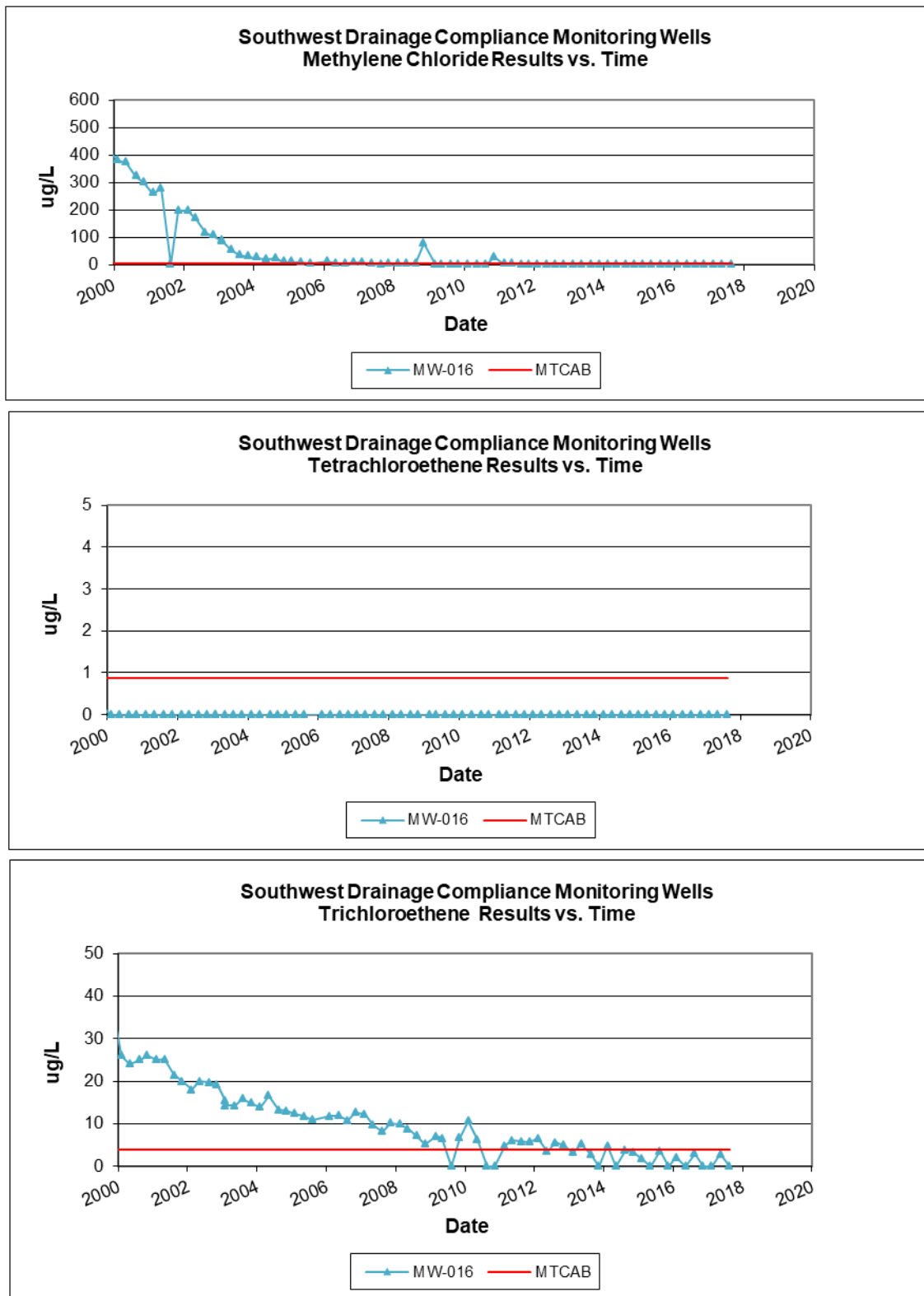
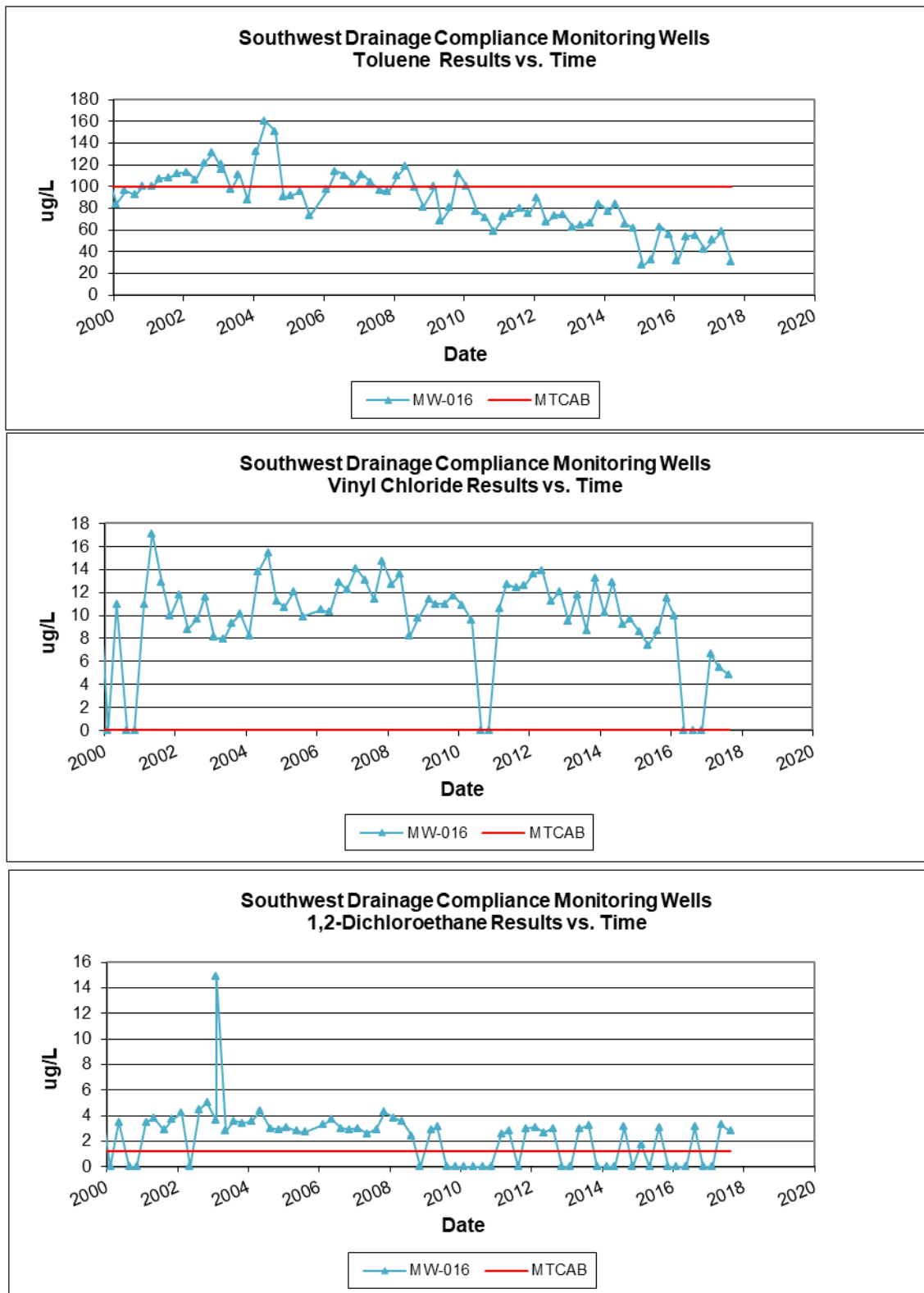


Figure 2-19 Southwest Drainage Area Monitoring Well MW-016 VOC Concentrations



**Southwest Drainage Compliance Monitoring Wells
1,2-Dichloropropane Results vs. Time**

The graph displays the concentration of 1,2-Dichloropropane in ug/L over time for monitoring well MW-016. The Y-axis ranges from 0 to 20 ug/L, and the X-axis shows dates from 2000 to 2019. A red horizontal line indicates the MTCAB (Maximum Tolerable Concentration) at 1 ug/L. The MW-016 data shows significant fluctuations, with concentrations generally staying between 10 and 18 ug/L, but dropping to near 0 ug/L at several points, notably around 2001, 2011, and 2013.

Date (Approx.)	MW-016 (ug/L)	MTCAB (ug/L)
2000-01-01	12	1
2000-06-01	14	1
2000-11-01	11	1
2001-04-01	0	1
2001-09-01	15	1
2002-02-01	17	1
2002-07-01	16	1
2002-11-01	14	1
2003-04-01	18	1
2003-09-01	4	1
2004-02-01	12	1
2004-07-01	14	1
2004-11-01	16	1
2005-04-01	15	1
2005-09-01	14	1
2006-02-01	11	1
2006-07-01	15	1
2006-11-01	14	1
2007-04-01	15	1
2007-09-01	12	1
2008-02-01	12	1
2008-07-01	16	1
2008-11-01	13	1
2009-04-01	10	1
2009-09-01	9	1
2010-02-01	12	1
2010-07-01	10	1
2010-11-01	15	1
2011-04-01	12	1
2011-09-01	0	1
2012-02-01	10	1
2012-07-01	13	1
2012-11-01	14	1
2013-04-01	13	1
2013-09-01	0	1
2014-02-01	11	1
2014-07-01	10	1
2014-11-01	14	1
2015-04-01	12	1
2015-09-01	7	1
2016-02-01	9	1
2016-07-01	14	1
2016-11-01	12	1
2017-04-01	8	1
2017-09-01	15	1
2018-02-01	12	1

Figure 2-21 Southwest Drainage Area Monitoring Well MW-016 Inorganic Concentrations

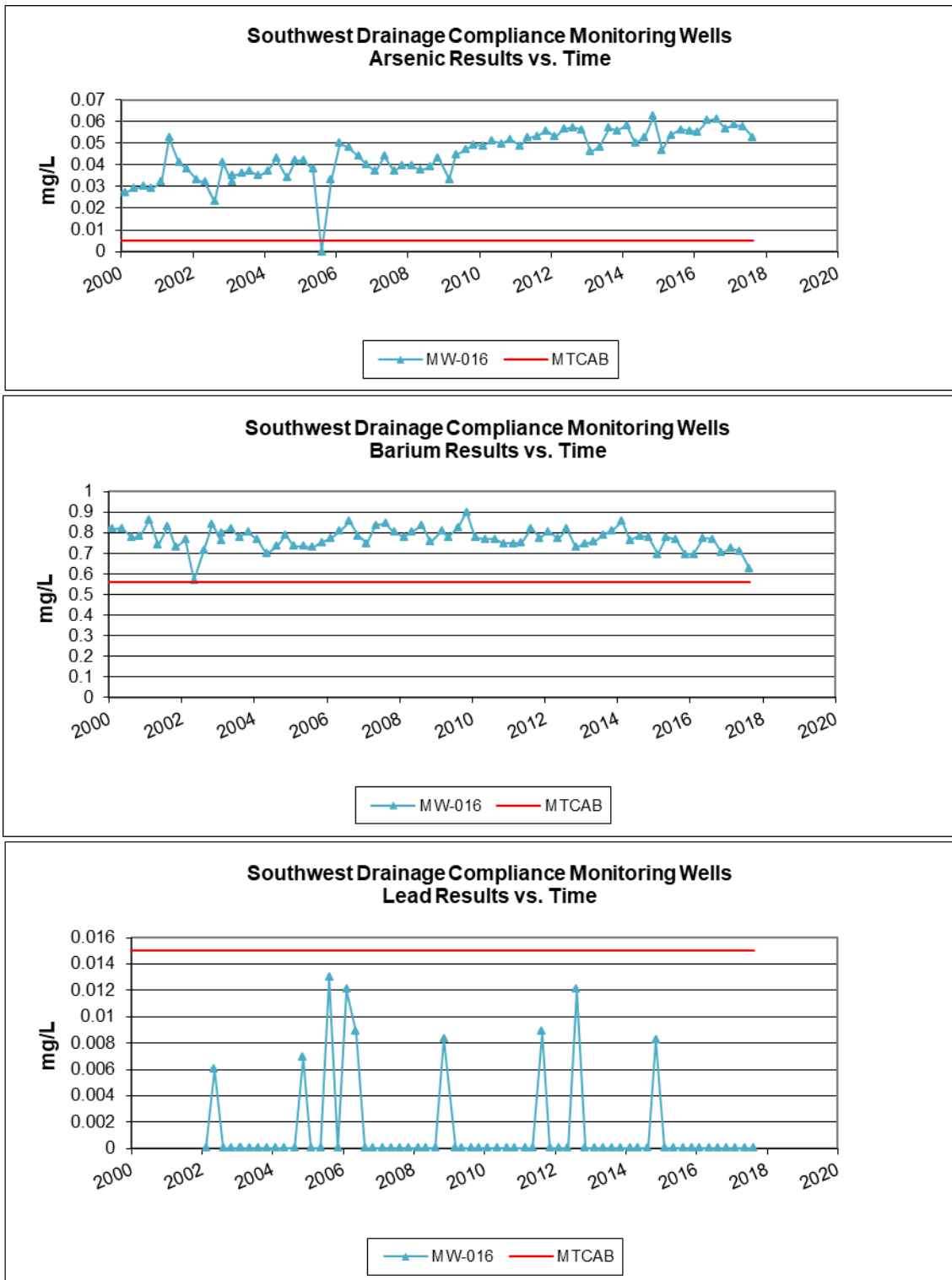


Figure 2-22 Southwest Drainage Area Monitoring Well MW-016 Inorganic Concentrations

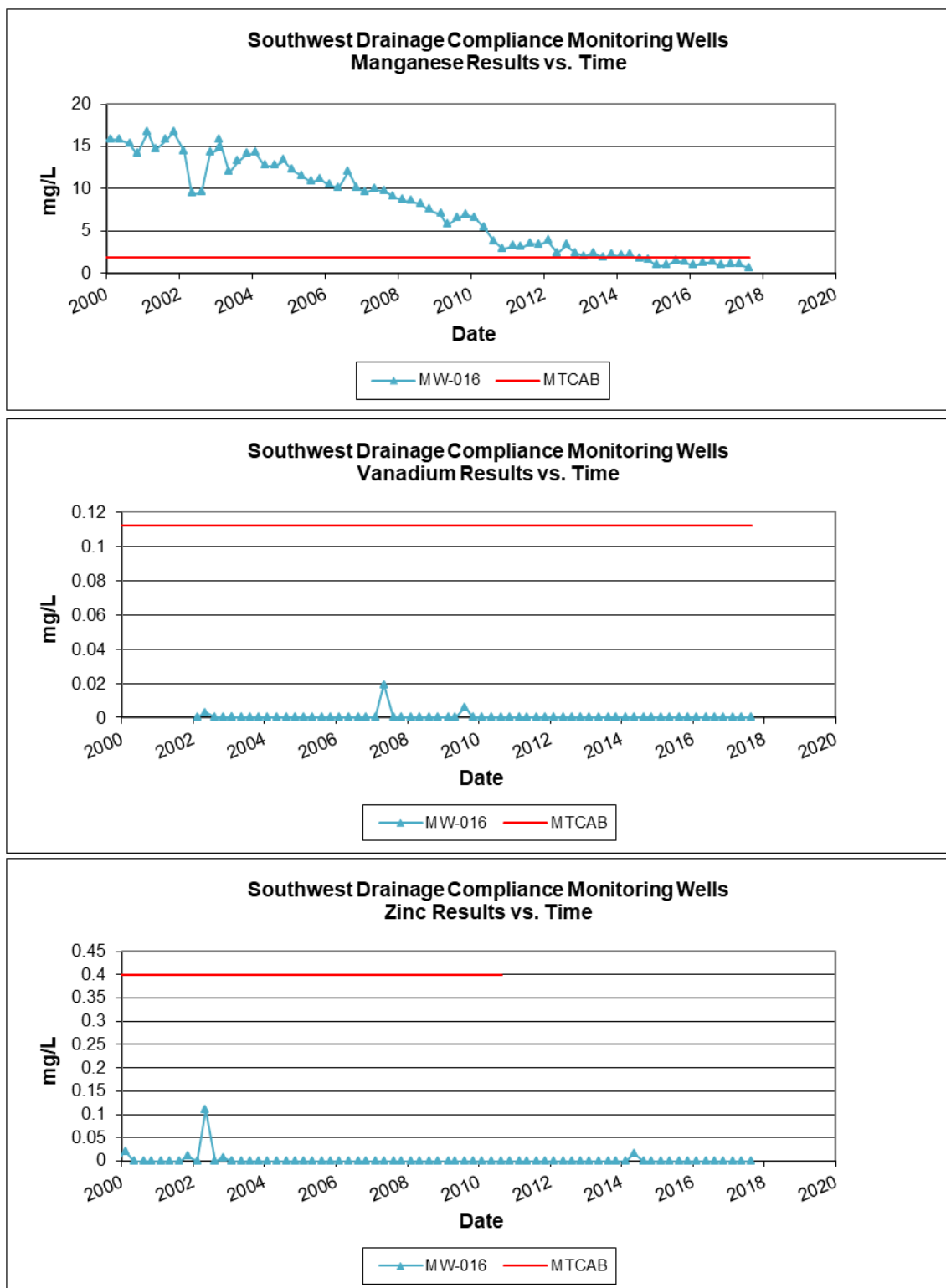


Figure 2-23 Southwest Drainage Area Monitoring Well MW-016 Conventional Concentrations

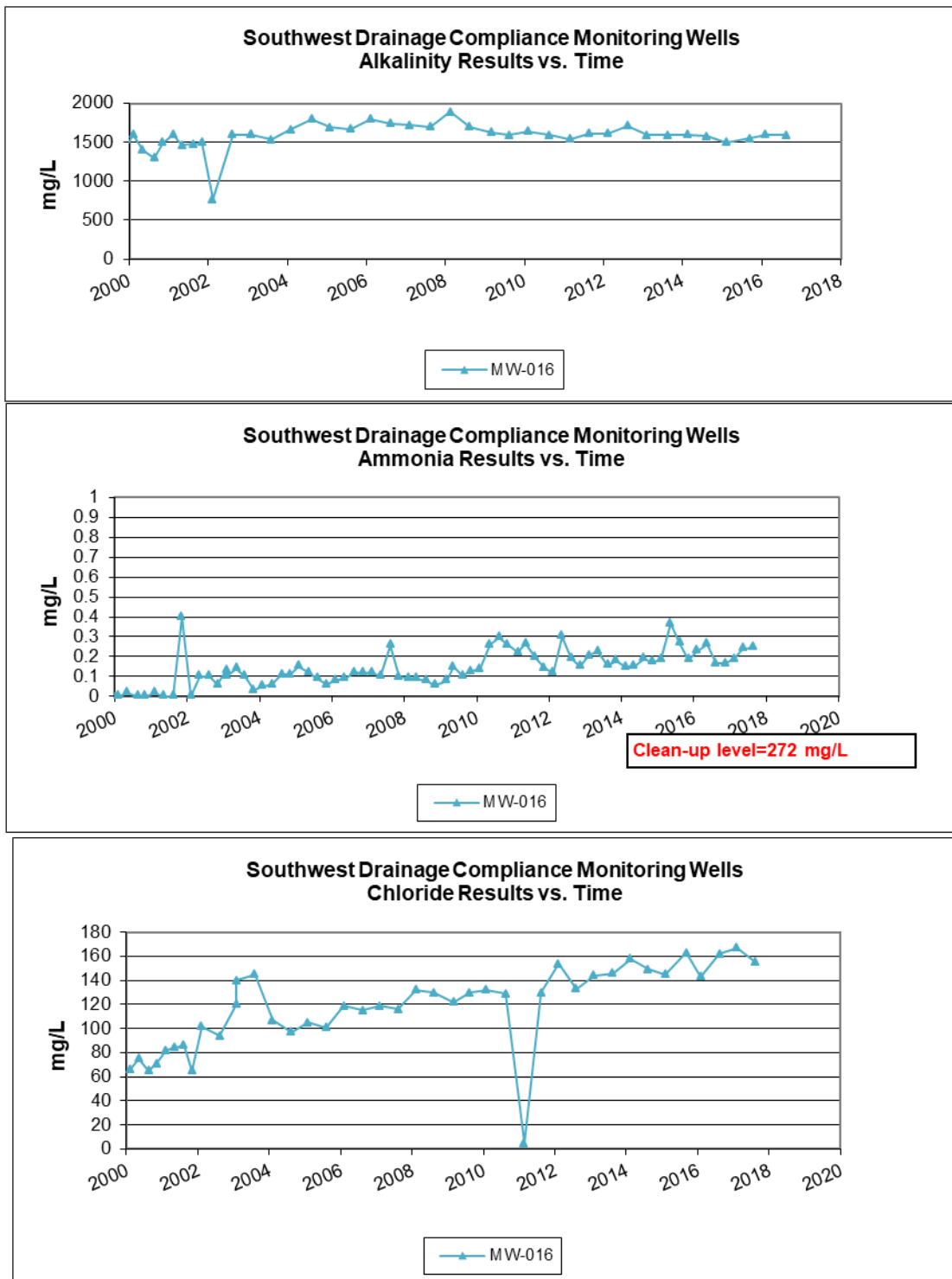


Figure 2-24 Southwest Drainage Area Monitoring Well MW-016 Conventional Concentrations

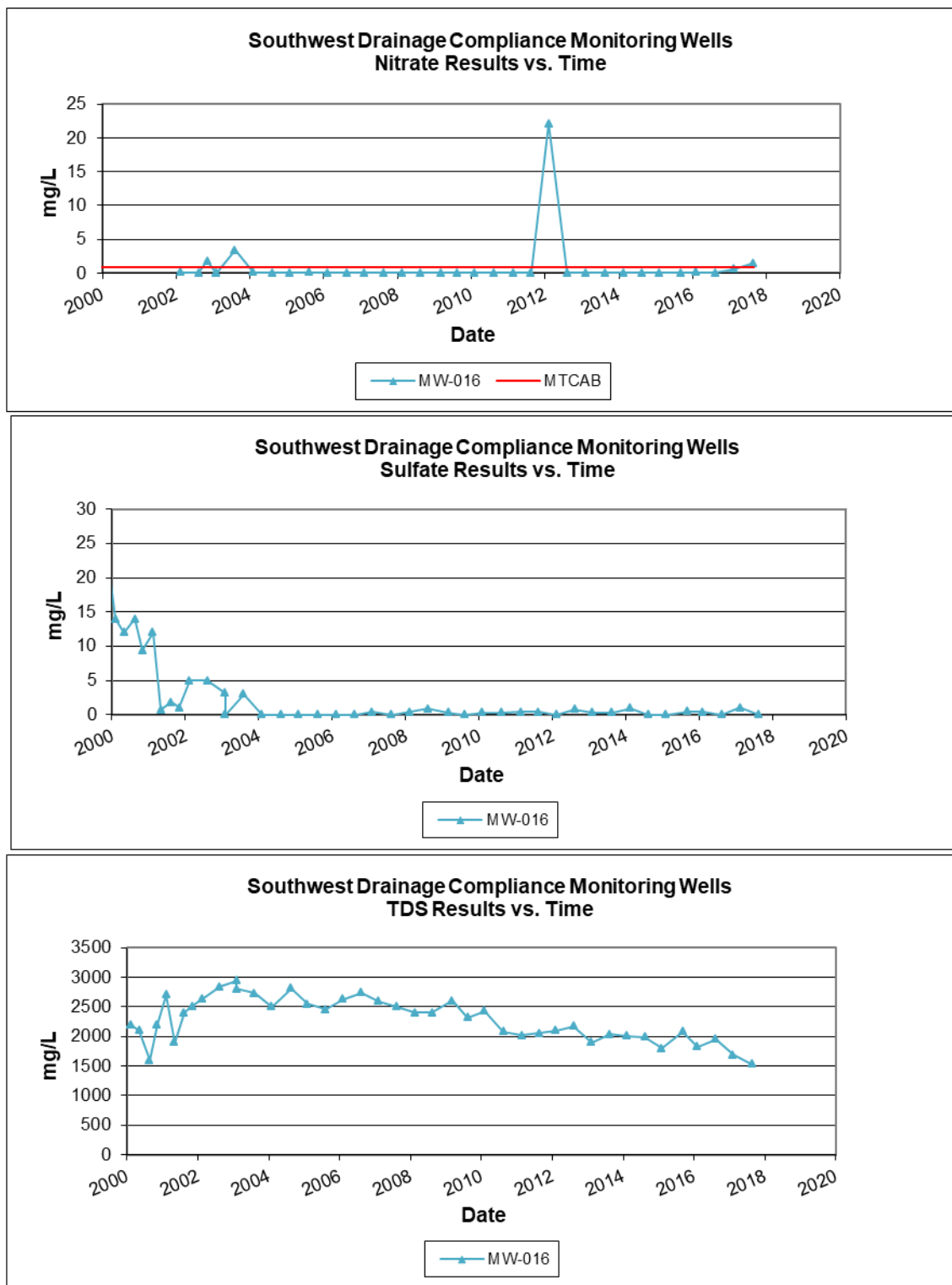


Figure 2-25 Southwest Drainage Area Monitoring Well MW-016 Conventional Concentrations

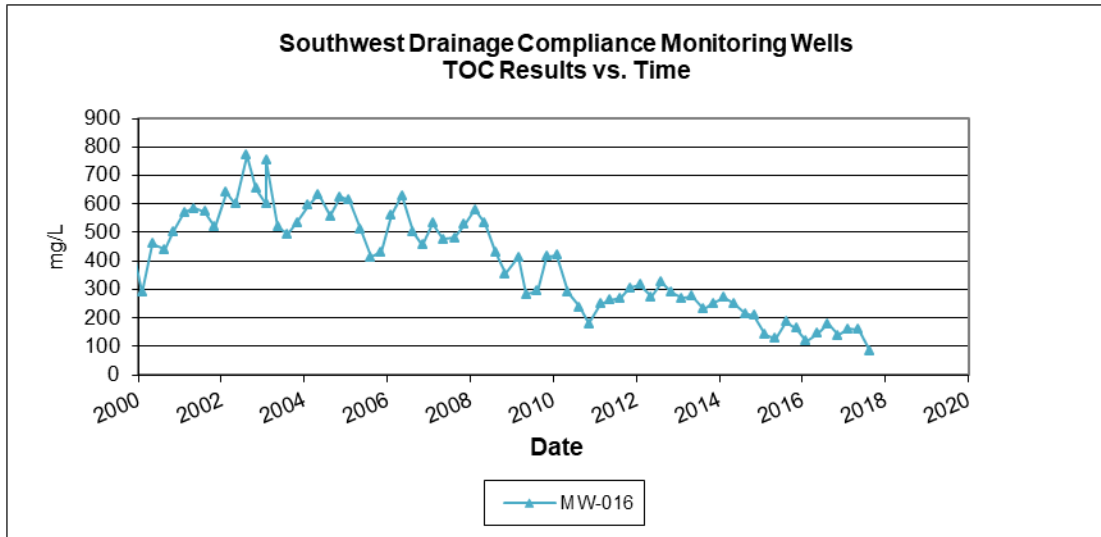


Figure 2-26 South Drainage Area Monitoring Wells VOC Concentrations

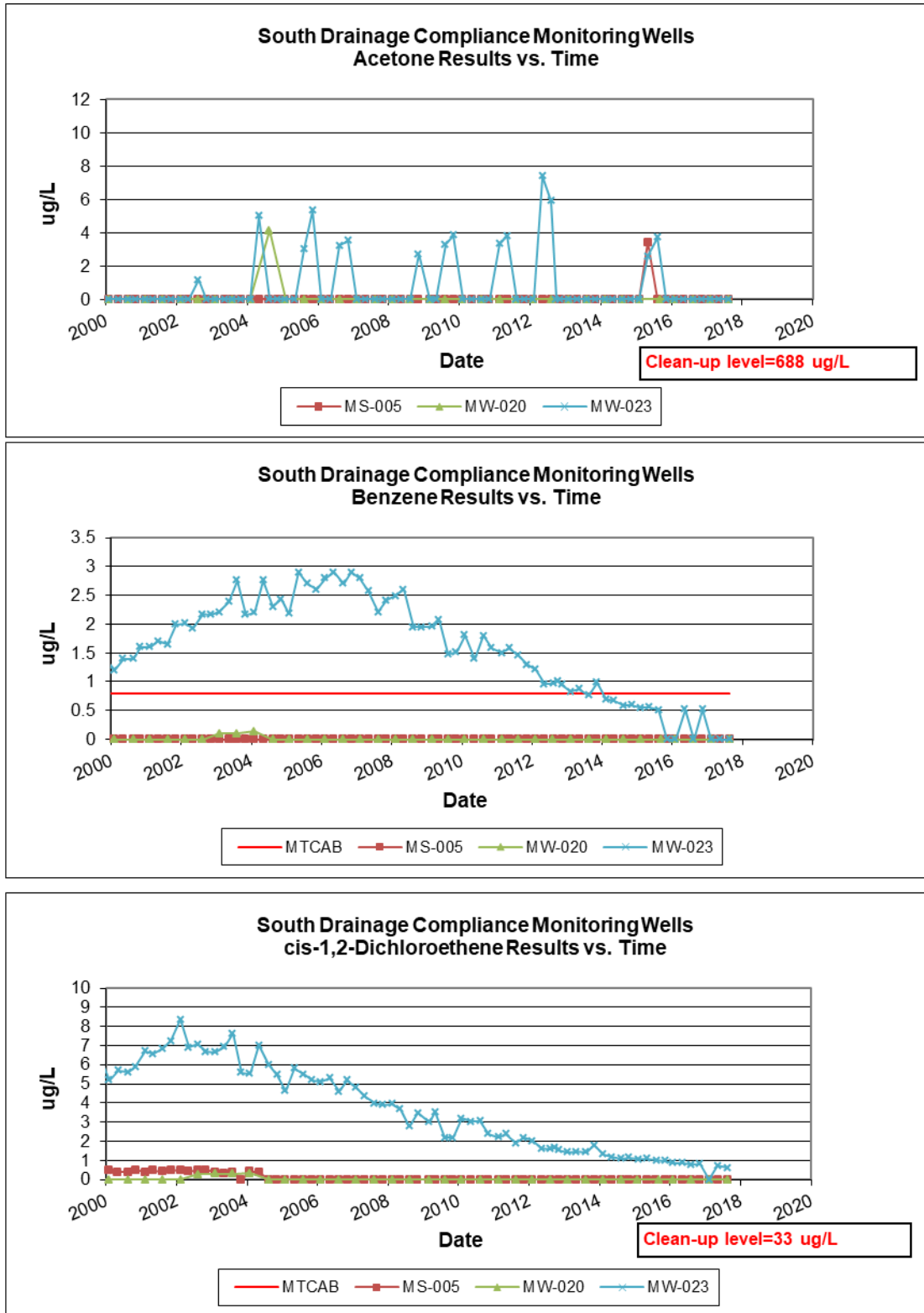


Figure 2-27 South Drainage Area Monitoring Well VOC Concentrations

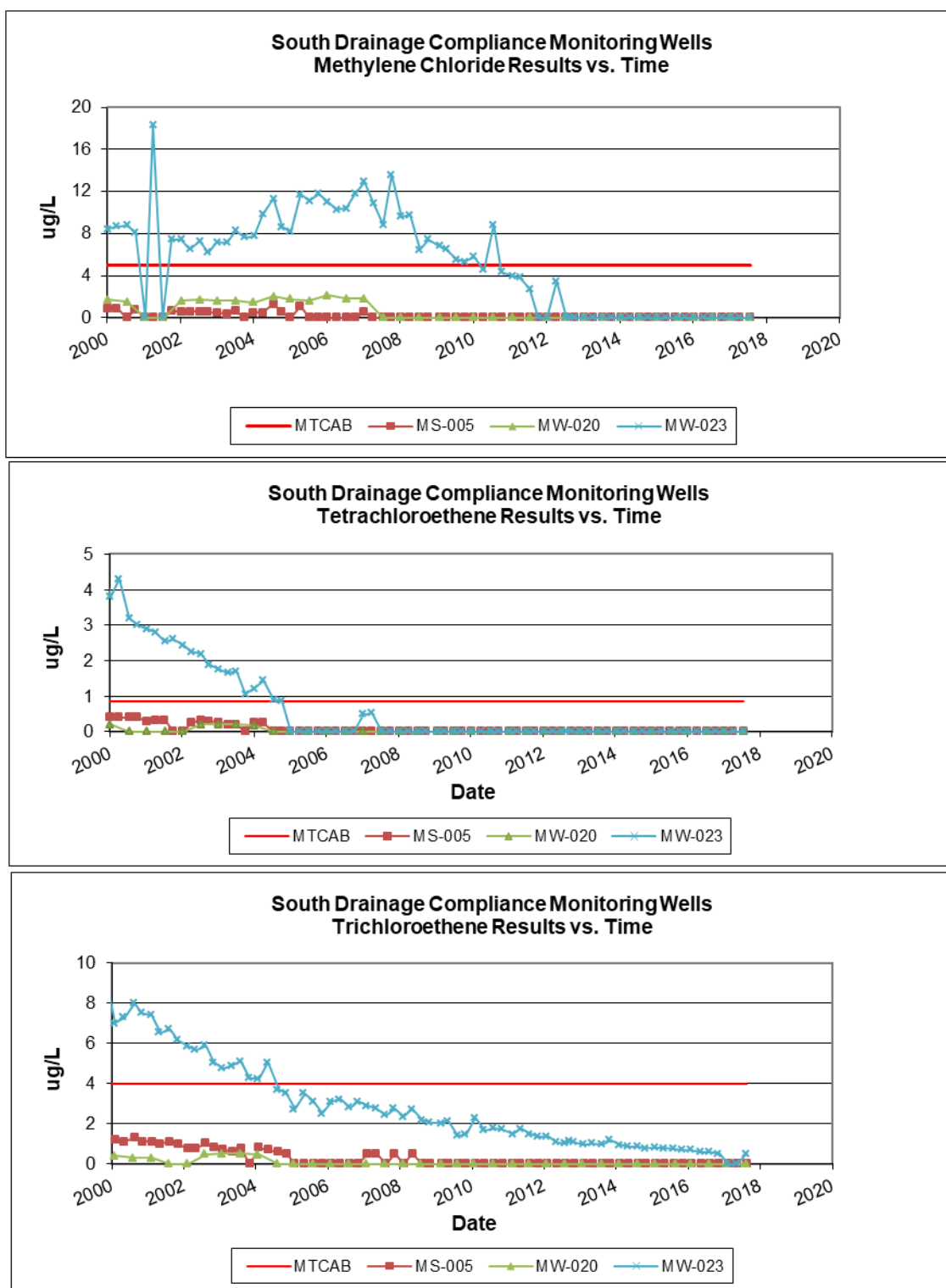


Figure 2-28 South Drainage Area Monitoring Wells VOC Concentrations

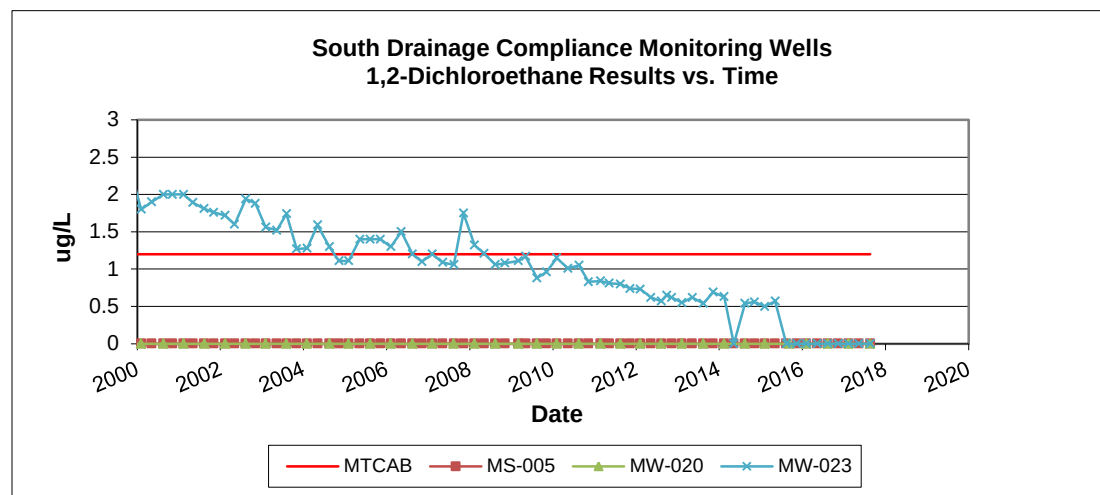
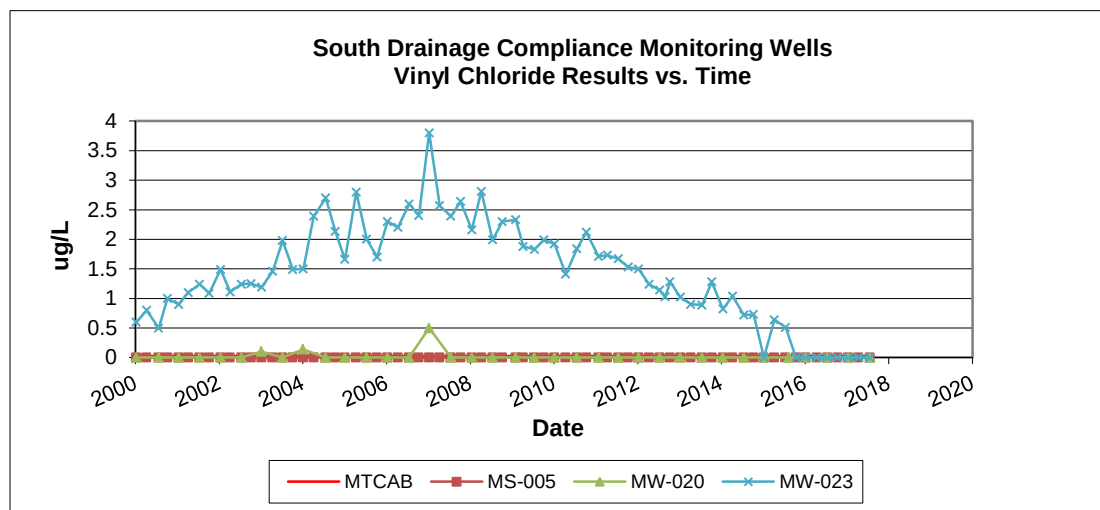
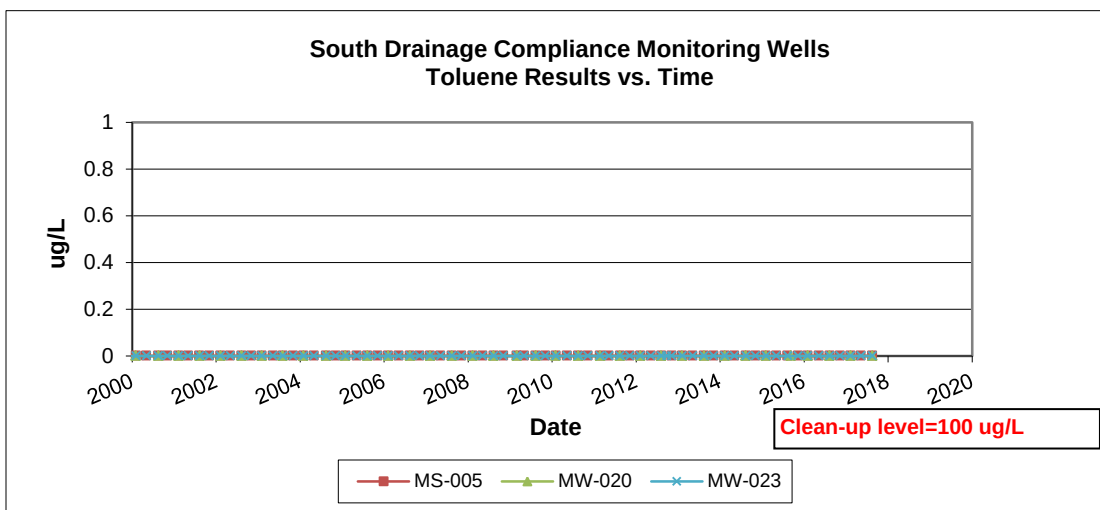


Figure 2-29 South Drainage Monitoring Wells VOC Concentrations

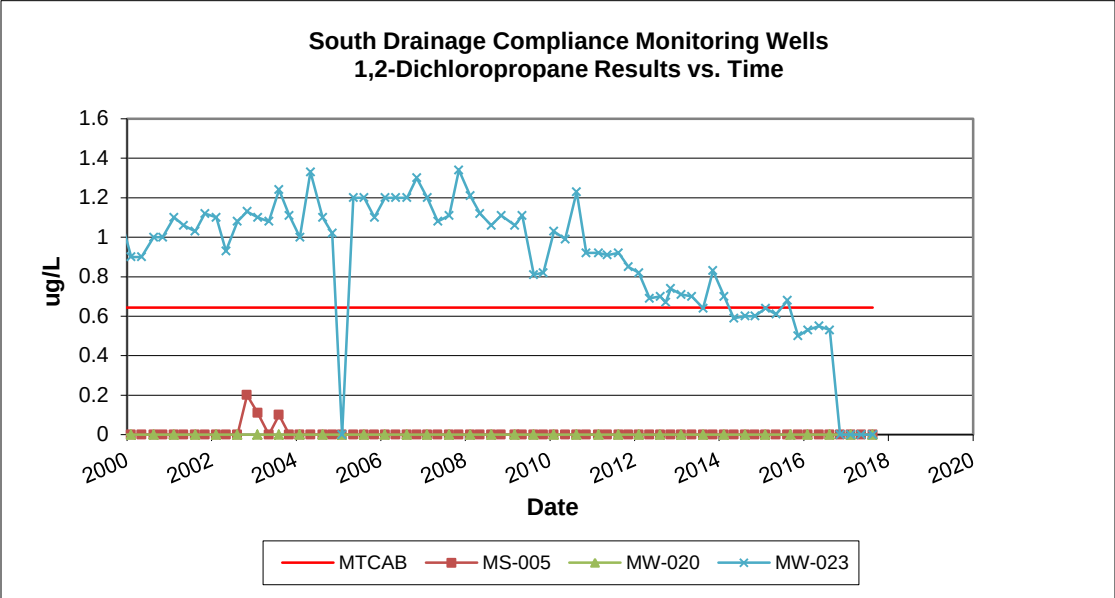


Figure 2-30 South Drainage Monitoring Wells Inorganic Concentrations

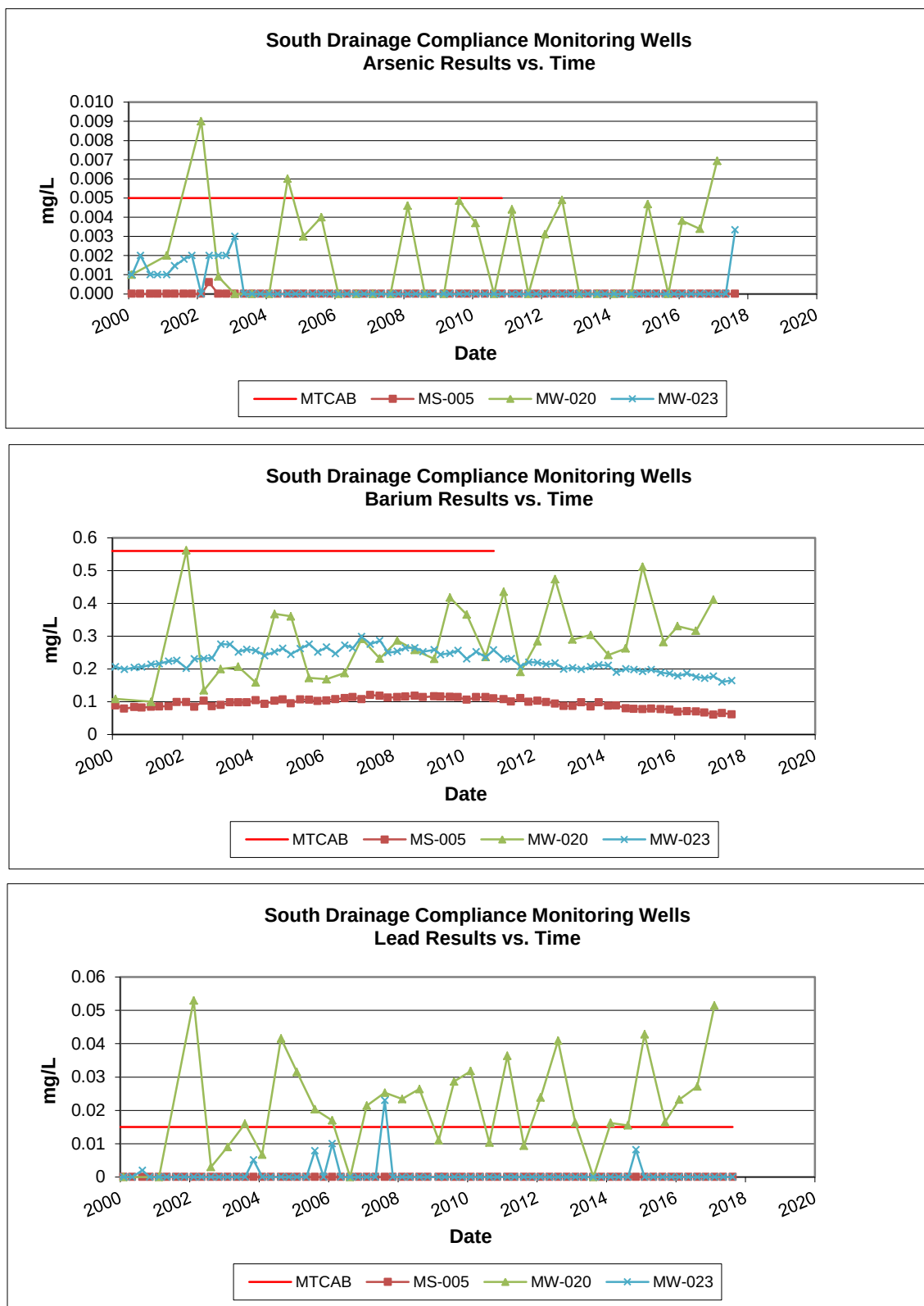


Figure 2-31 South Drainage Monitoring Wells Inorganic Concentrations

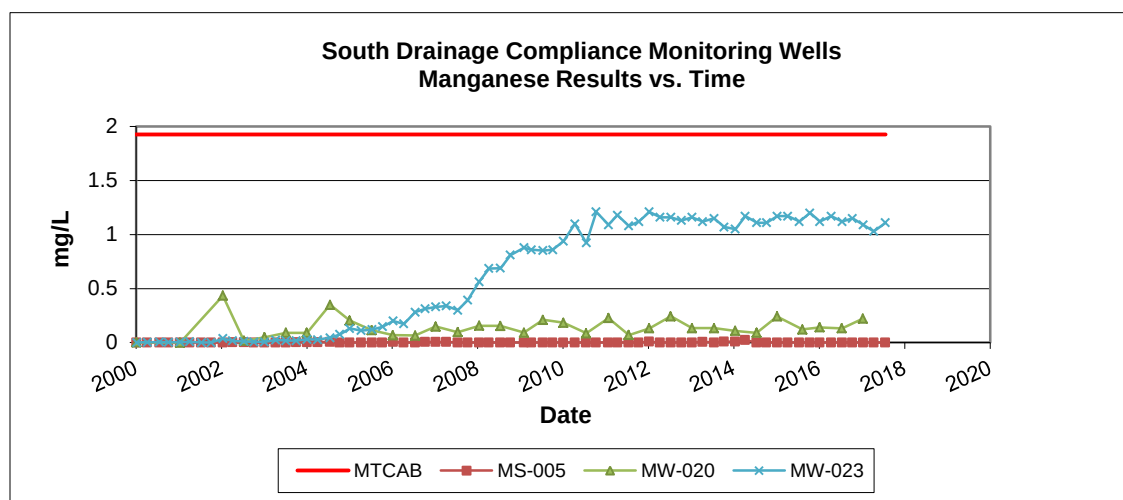
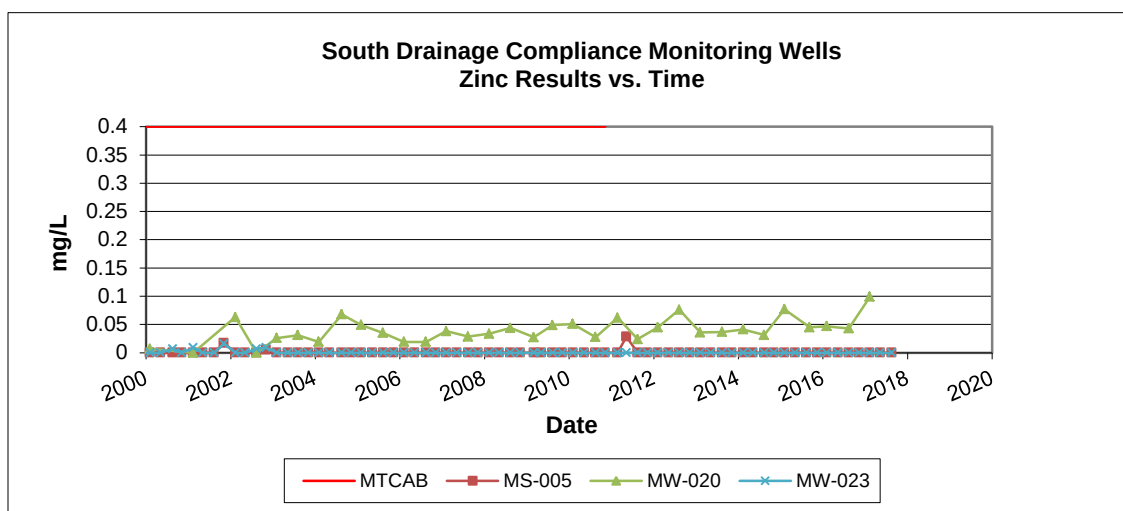
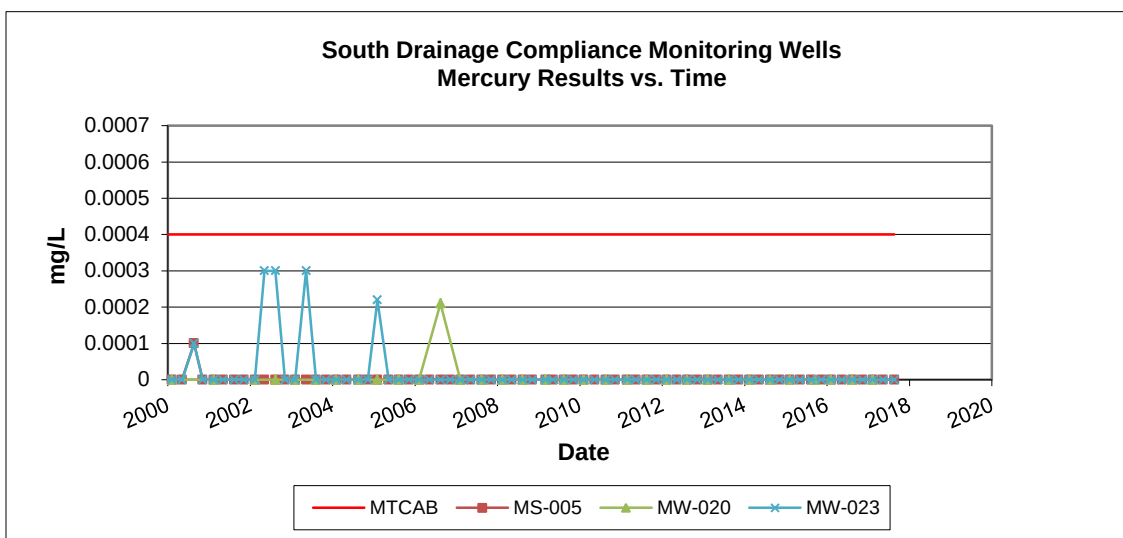


Figure 2-32 South Drainage Monitoring Wells Conventional Concentrations

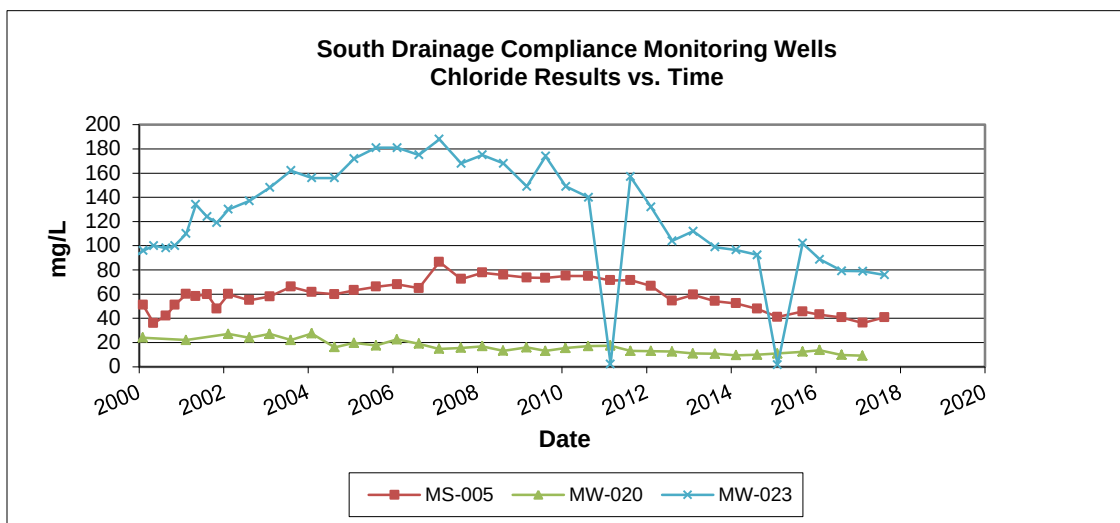
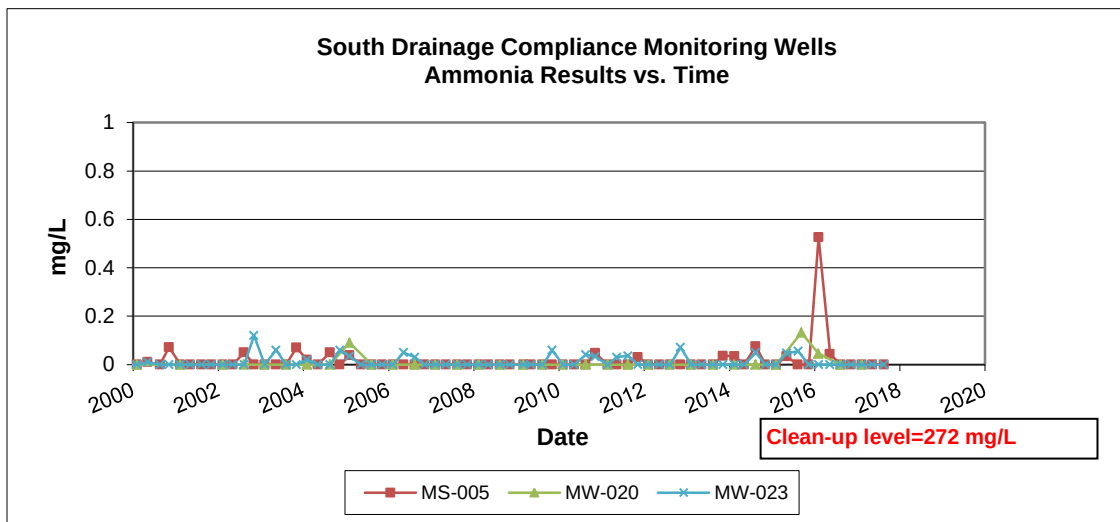
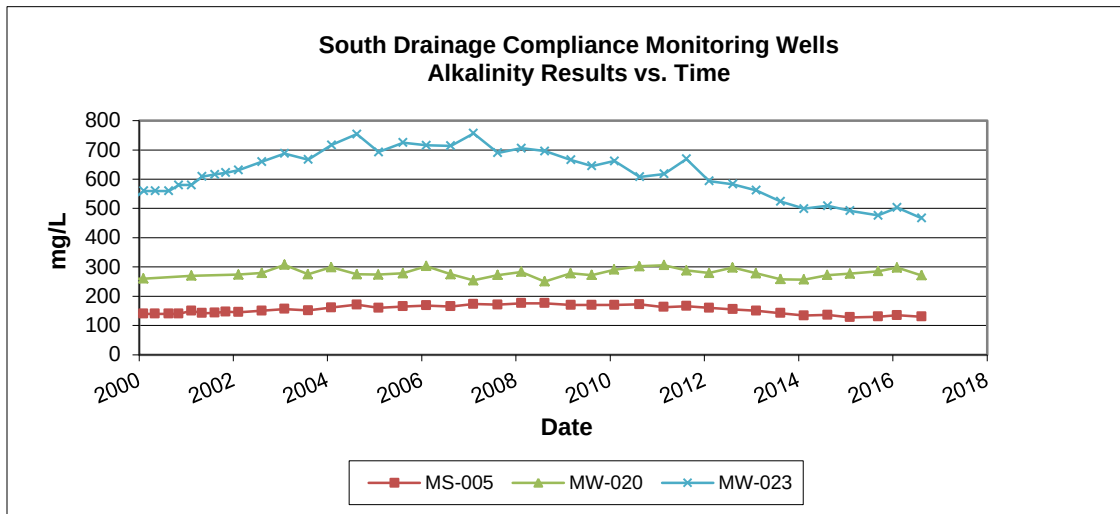


Figure 2-33 South Drainage Monitoring Wells Conventional Concentrations

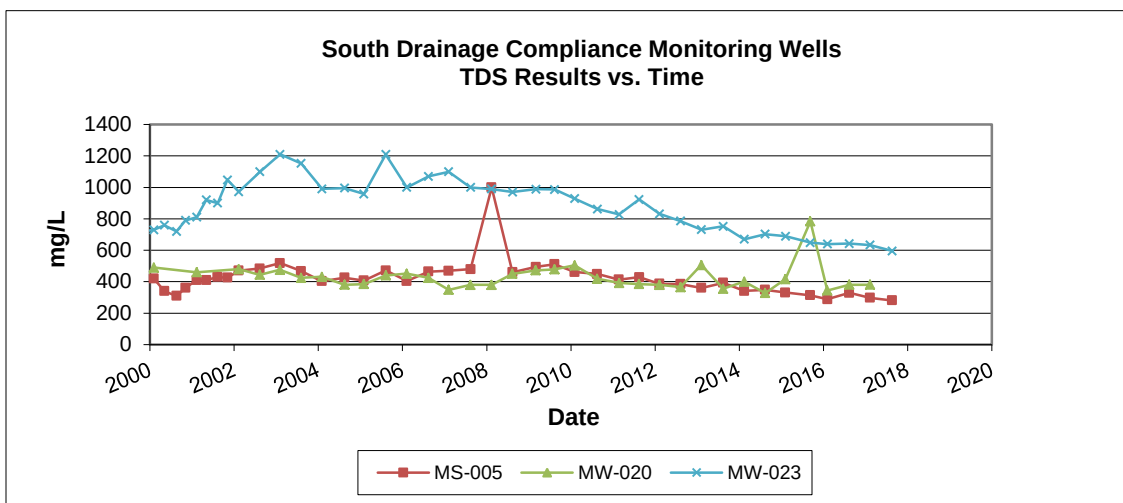
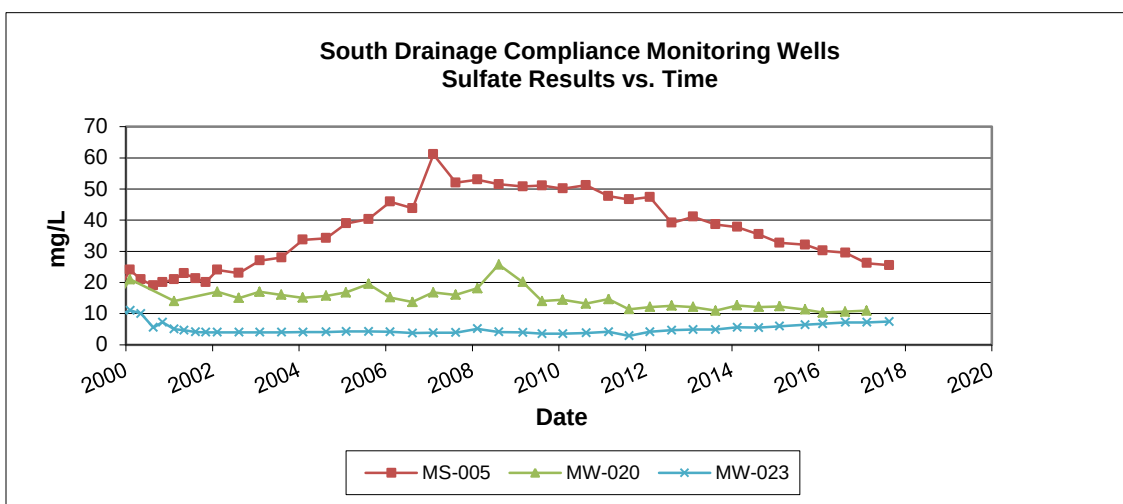
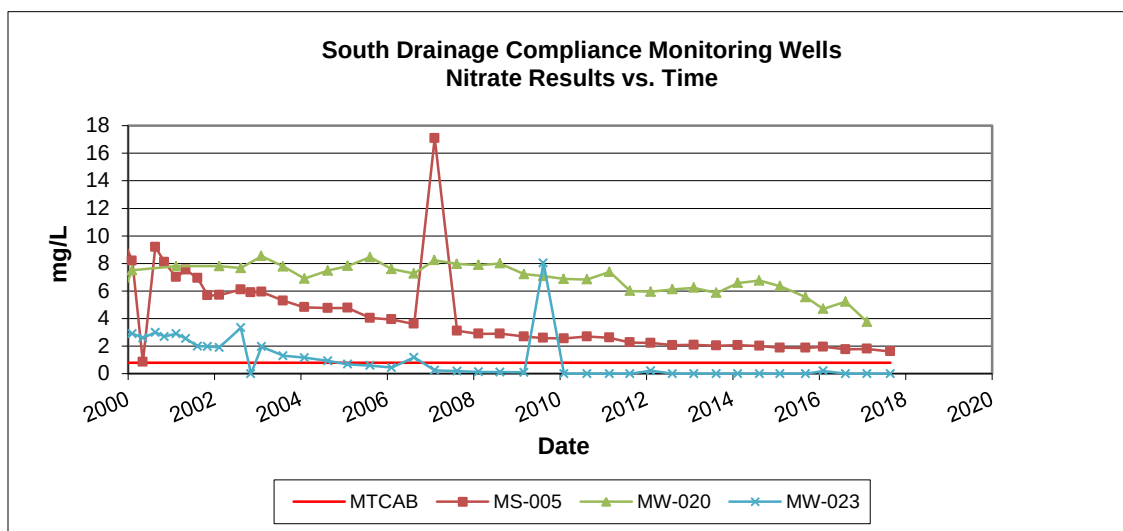


Figure 2-34 South Drainage Monitoring Wells Conventional Concentrations

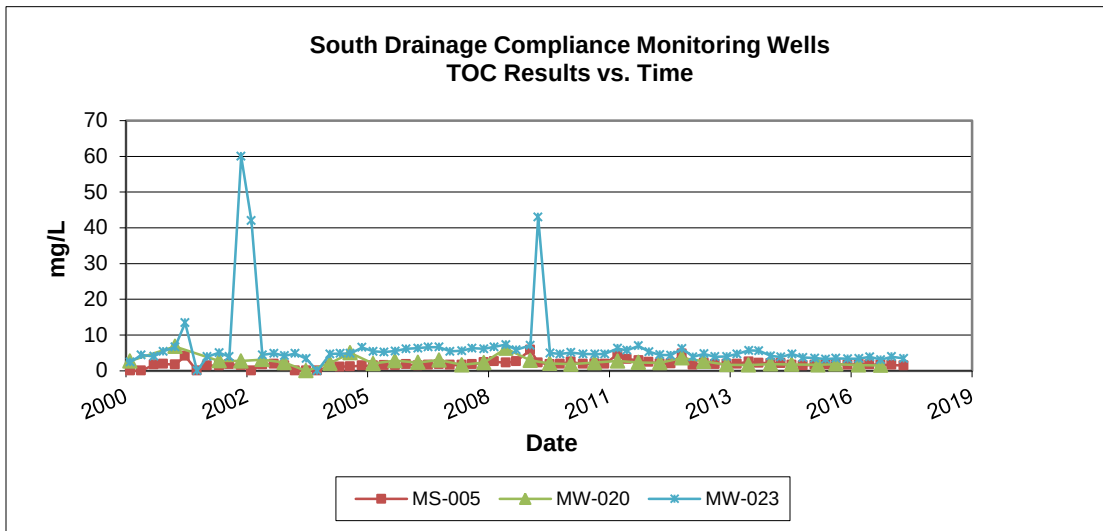


Figure 2-35 Southeast Drainage Monitoring Wells VOC Concentrations

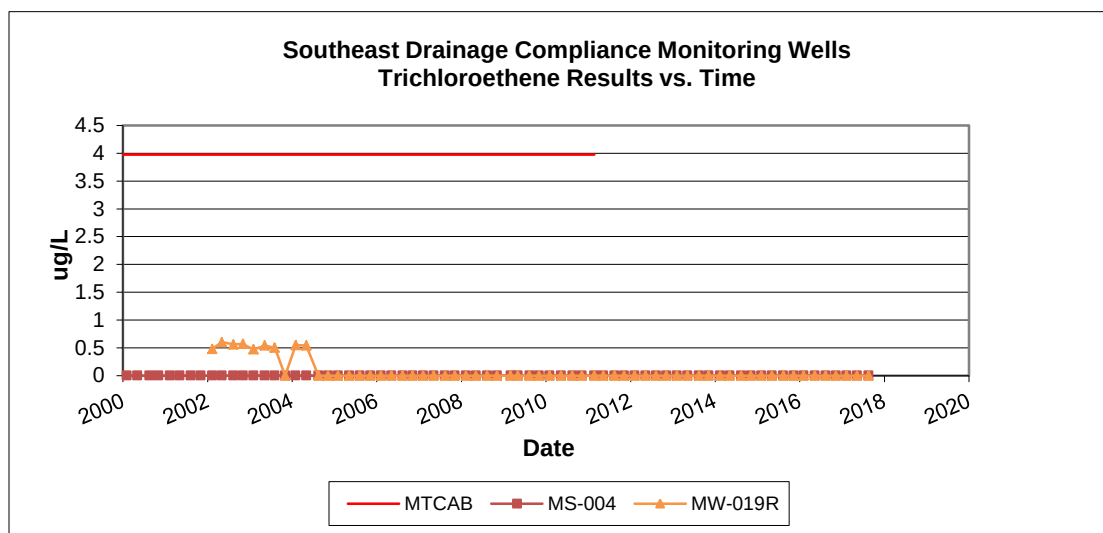
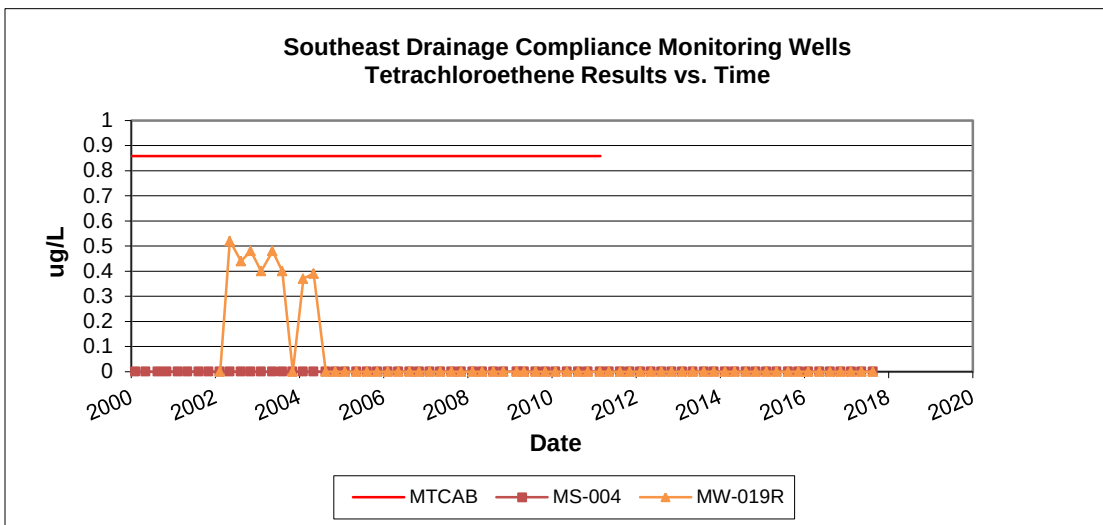
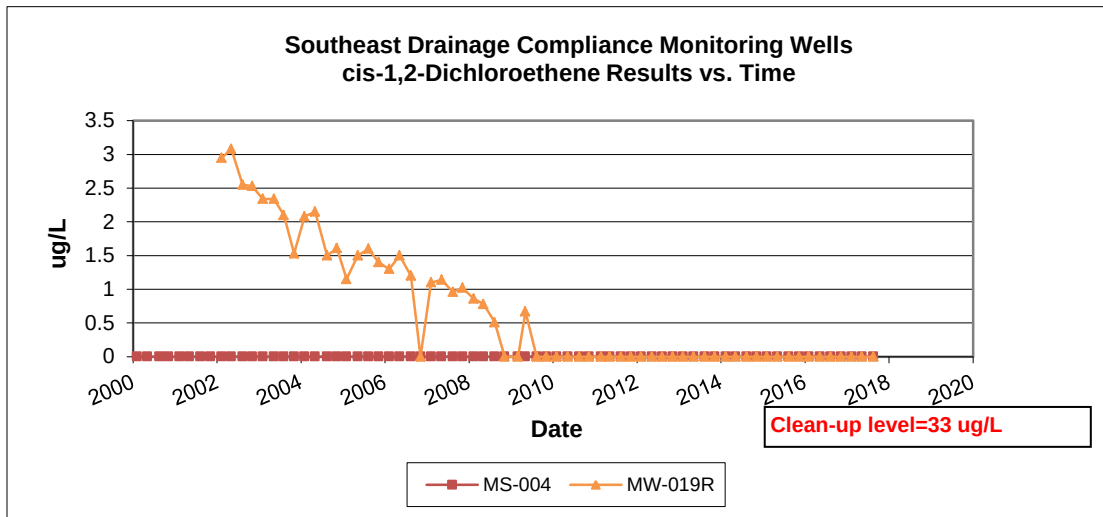


Figure 2-36 Southeast Drainage Monitoring Wells VOC Concentrations

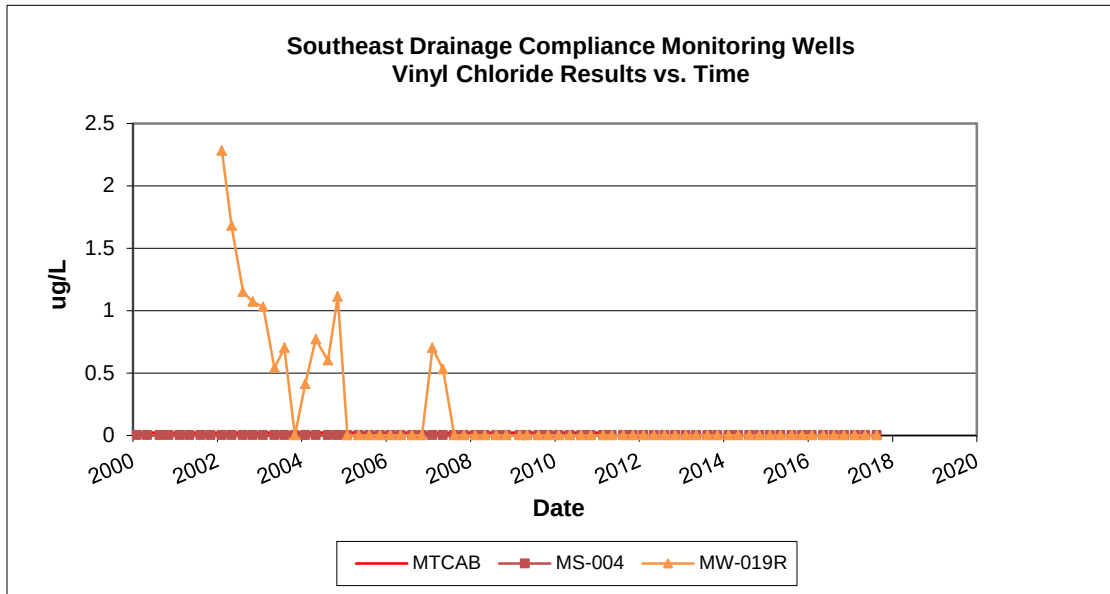


Figure 2-37 Southeast Drainage Monitoring Wells Inorganic Concentrations

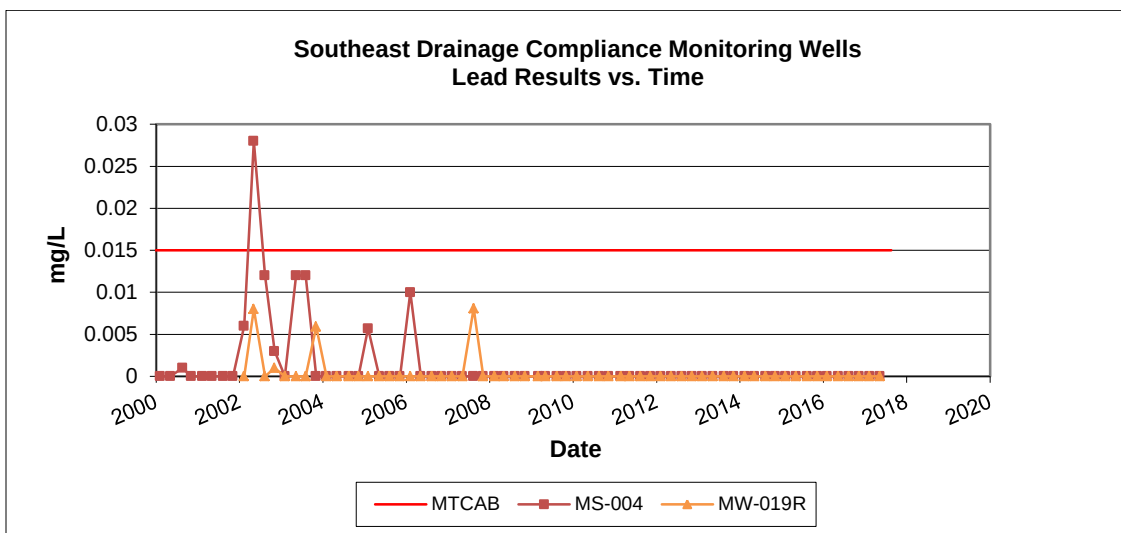
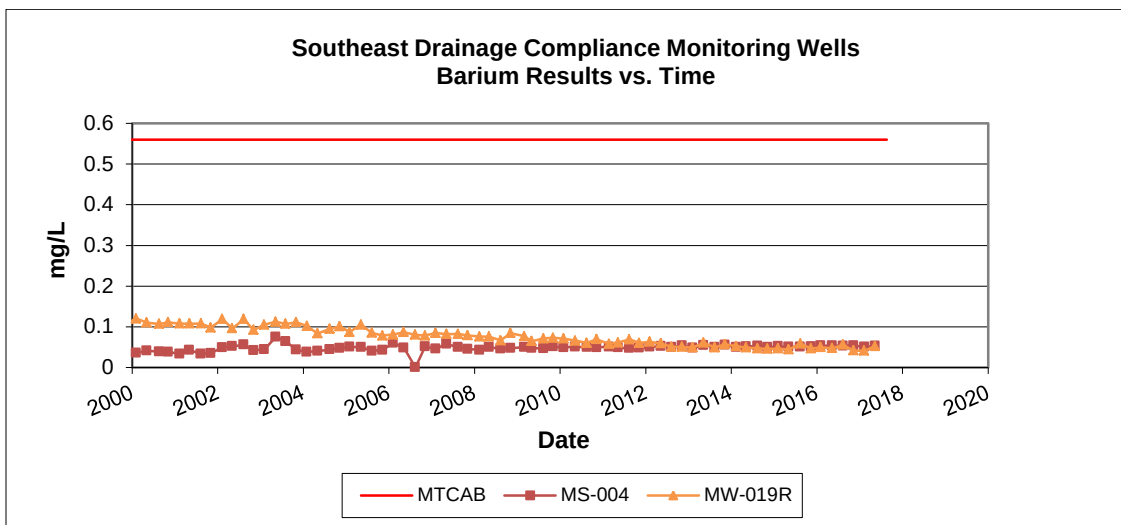
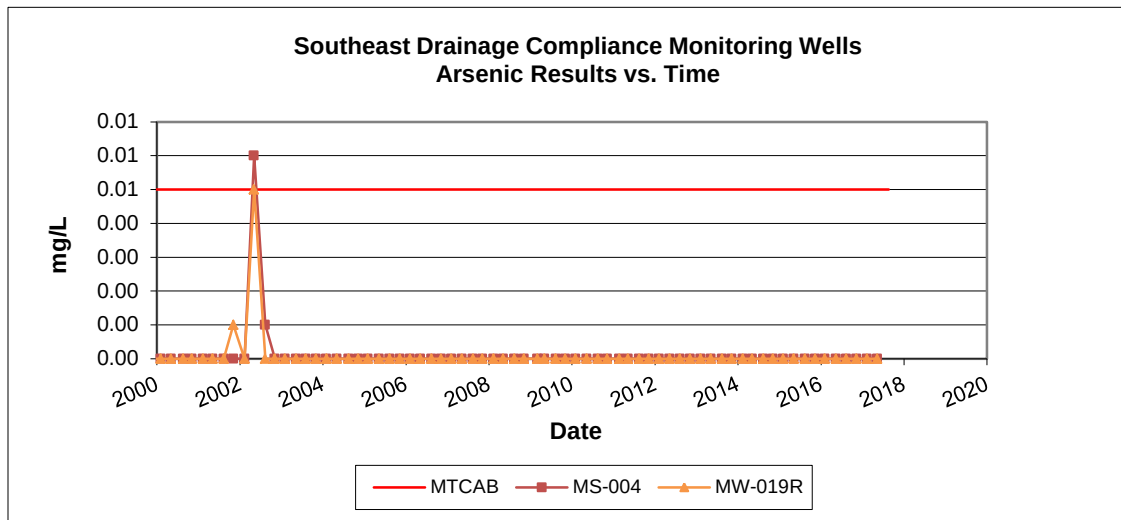


Figure 2-38 Southeast Drainage Monitoring Wells Inorganic Concentrations

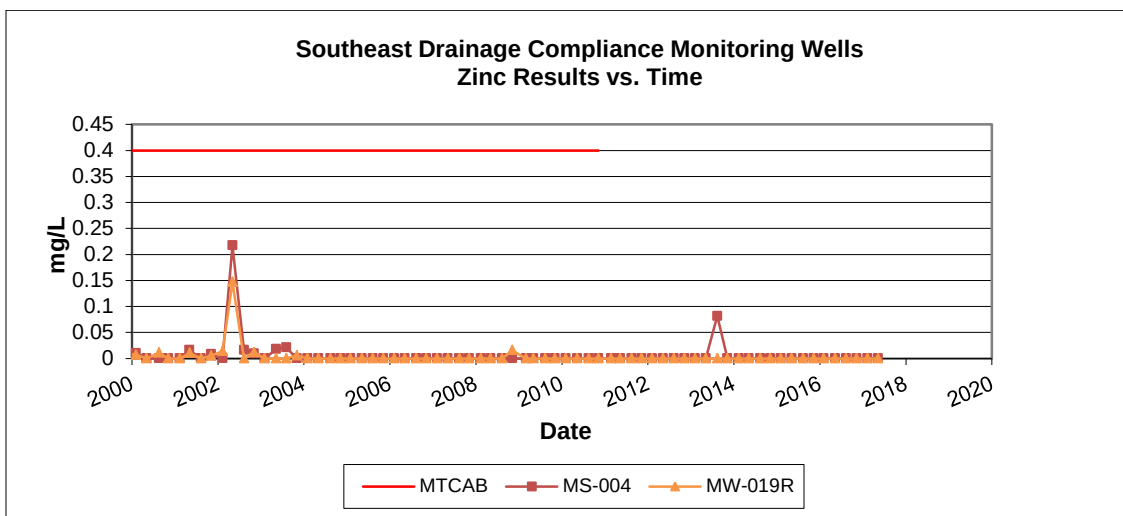
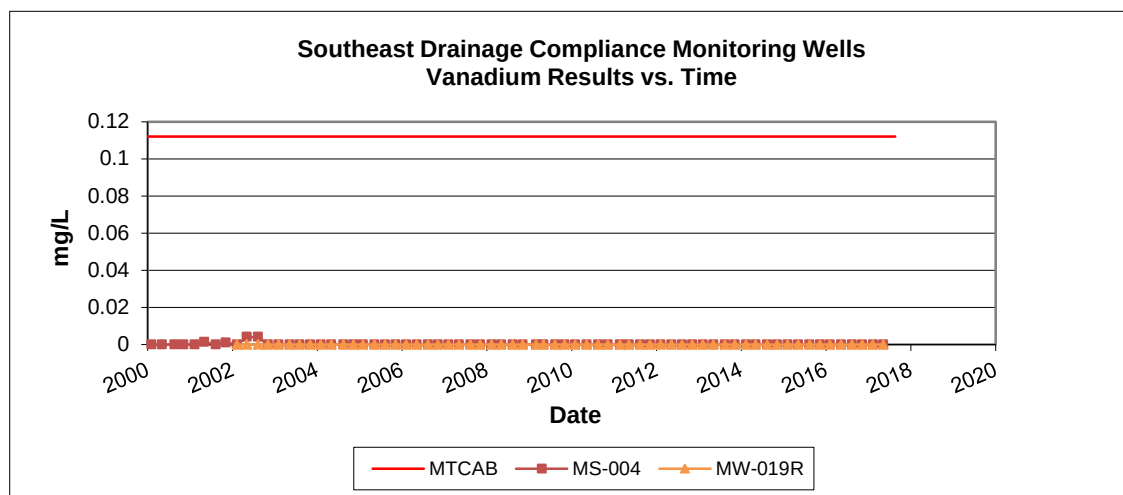
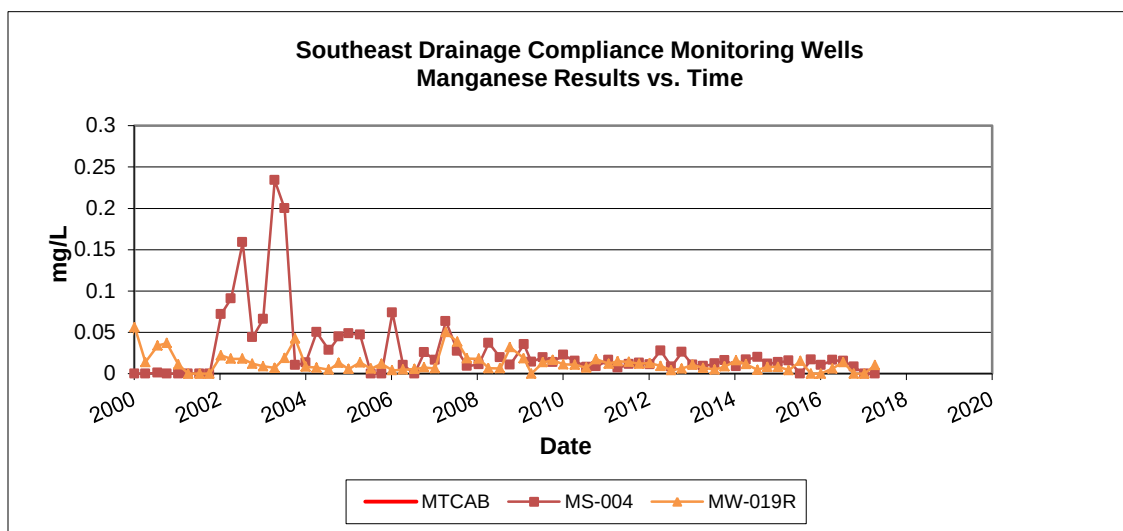


Figure 2-39 Southeast Drainage Monitoring Wells Conventional Concentrations

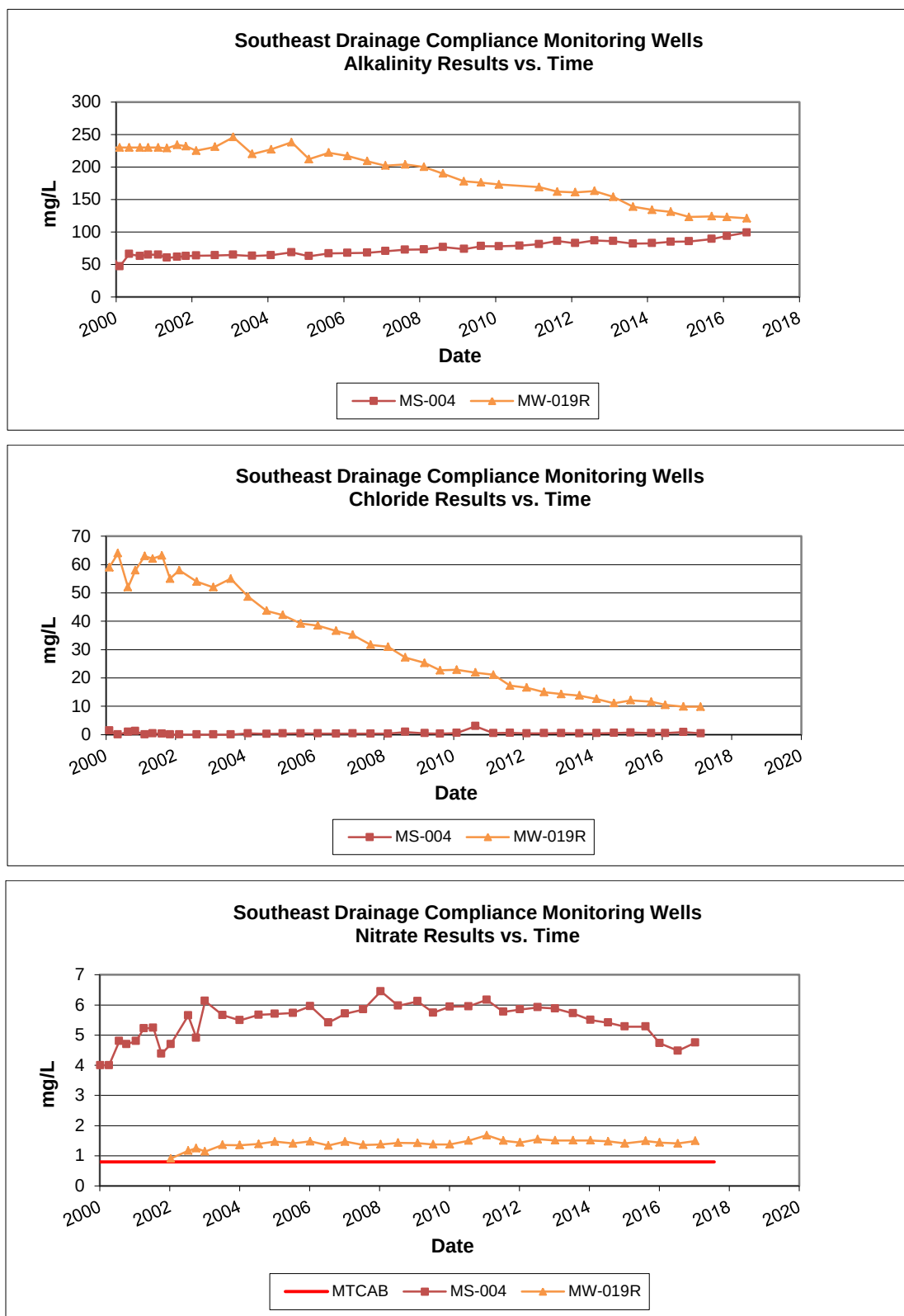


Figure 2-40 Southeast Drainage Monitoring Wells Conventional Concentrations

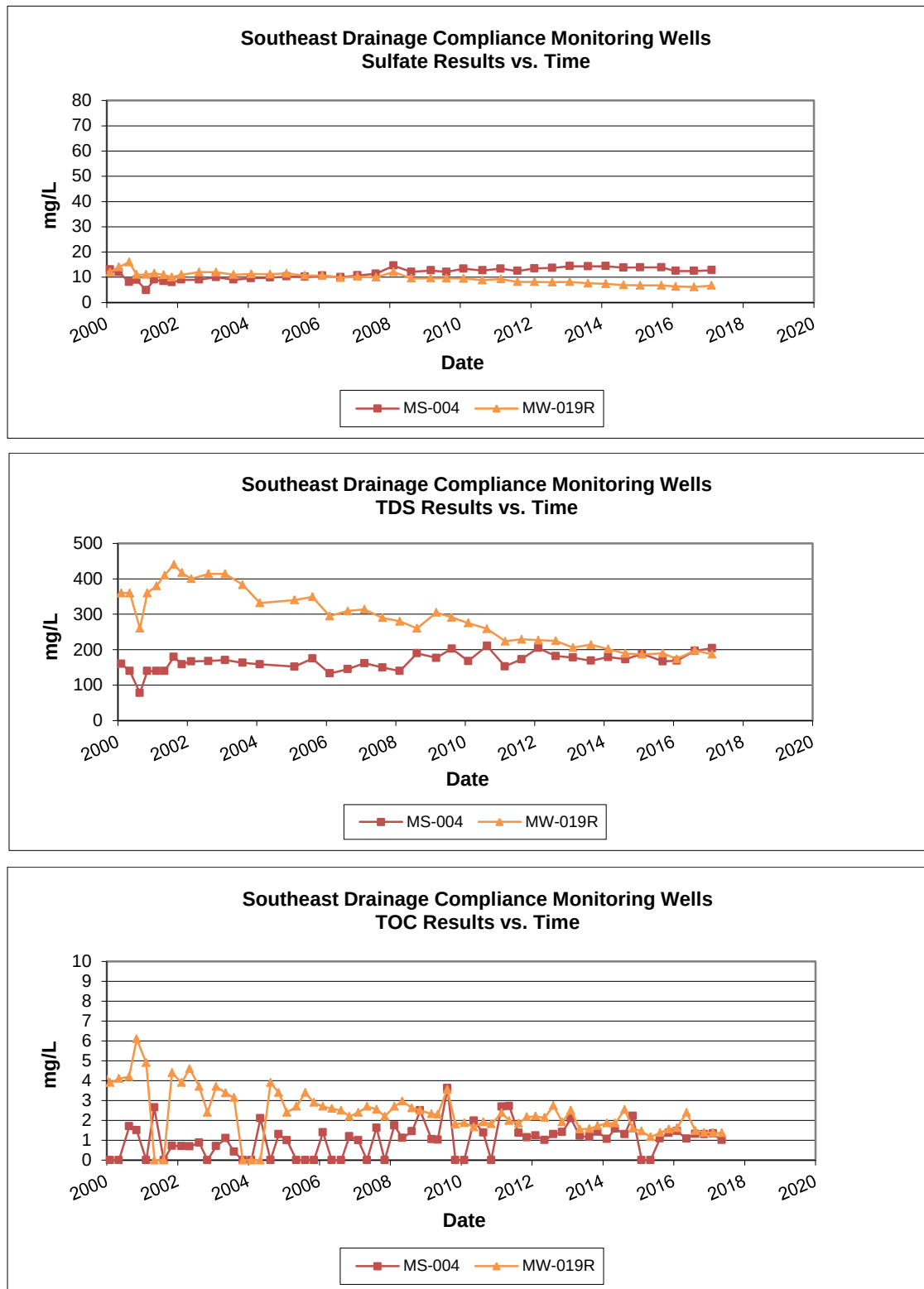


Figure 2-41 Domestic Wells Inorganic Concentrations

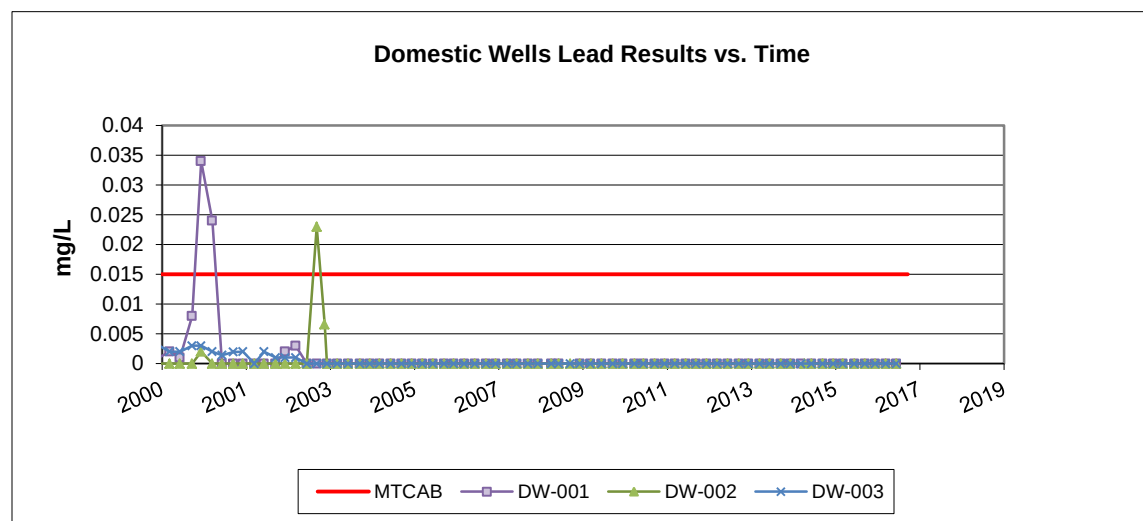
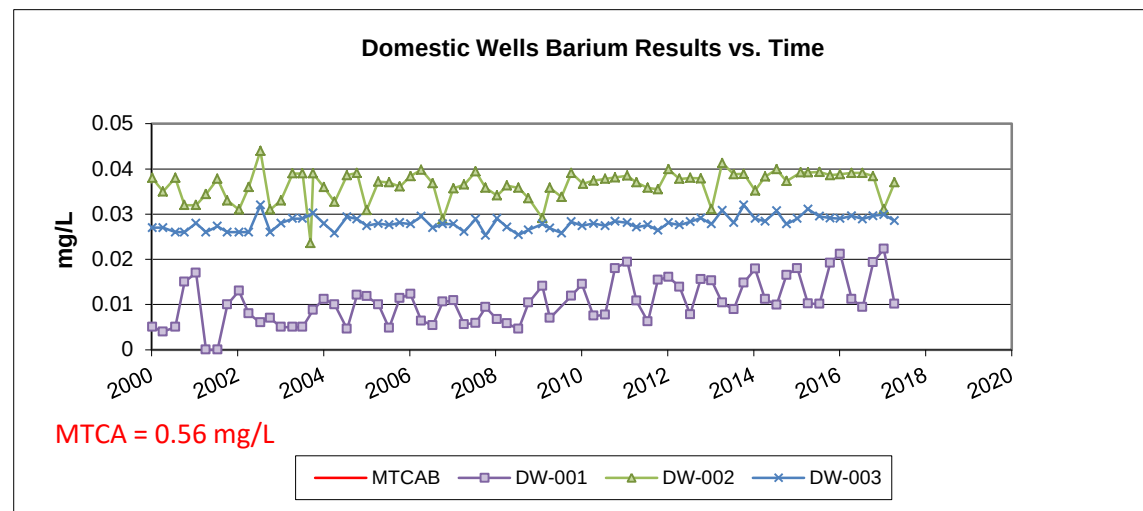
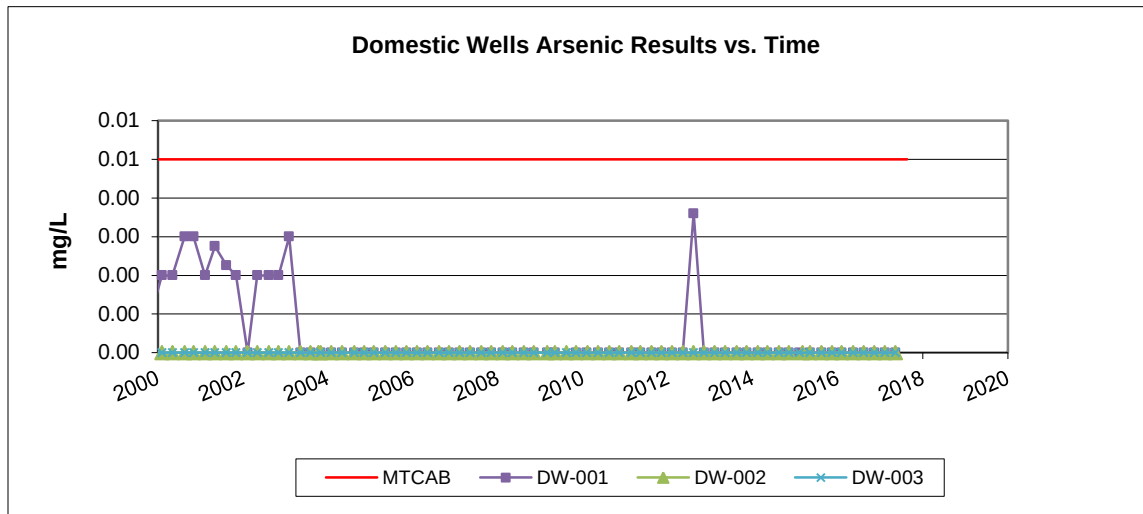


Figure 2-42 Domestic Wells Inorganic Concentrations

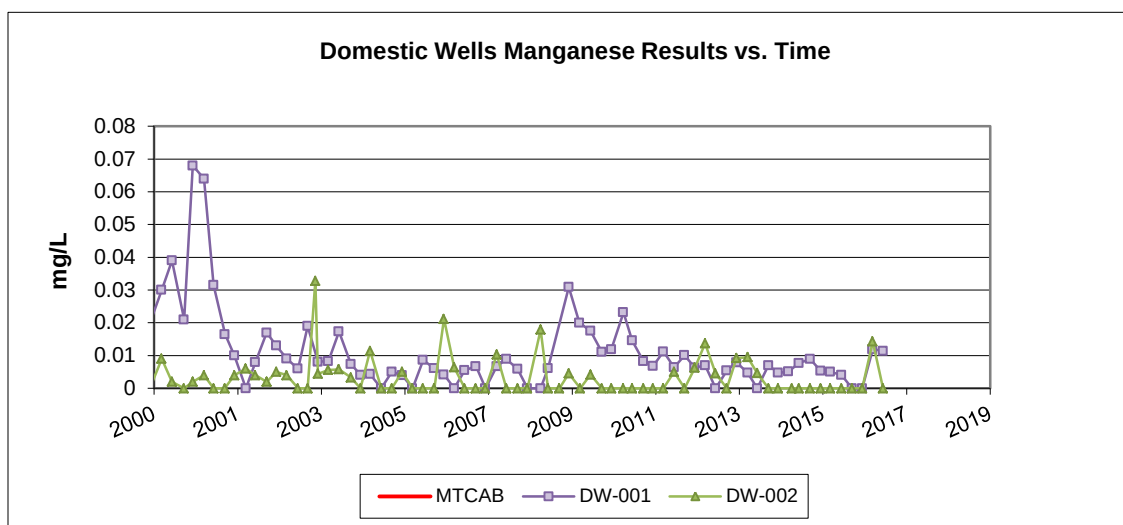
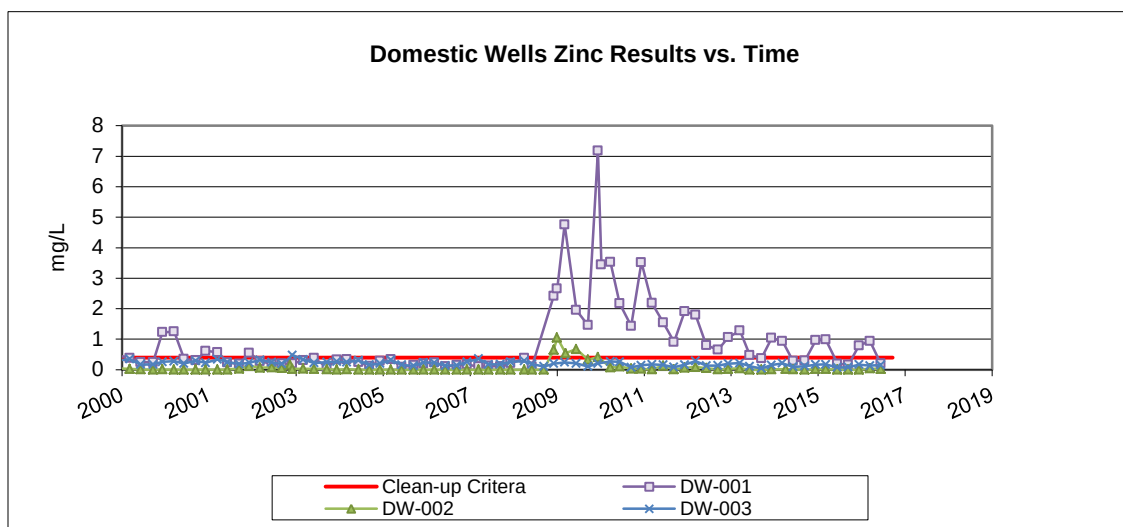


Figure 2-43 Domestic Wells Conventional Concentrations

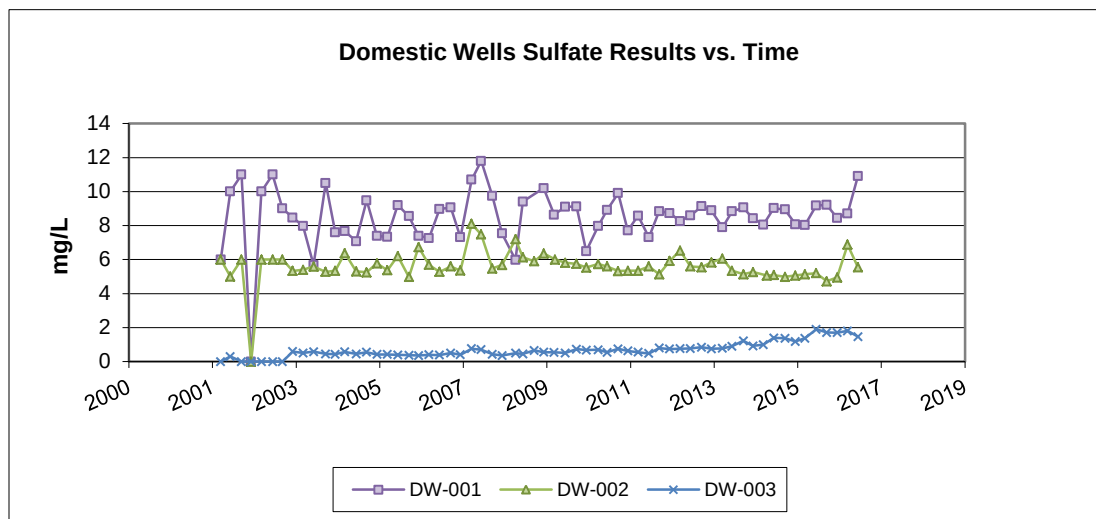
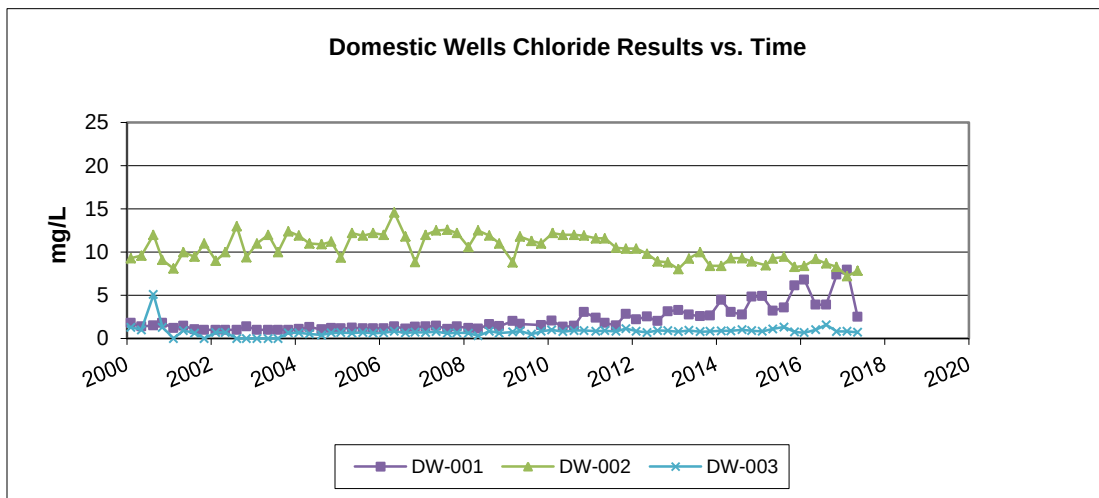
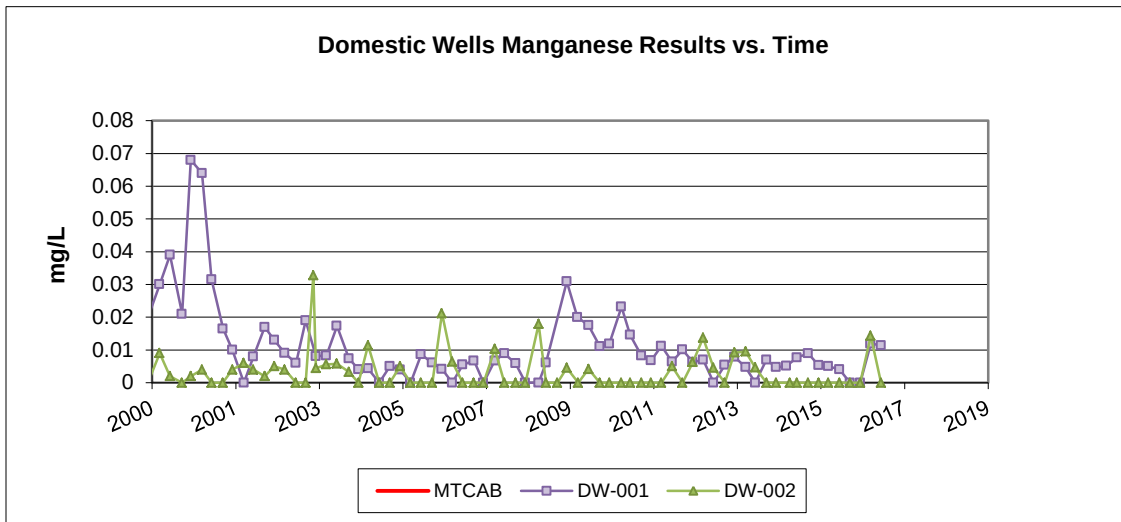
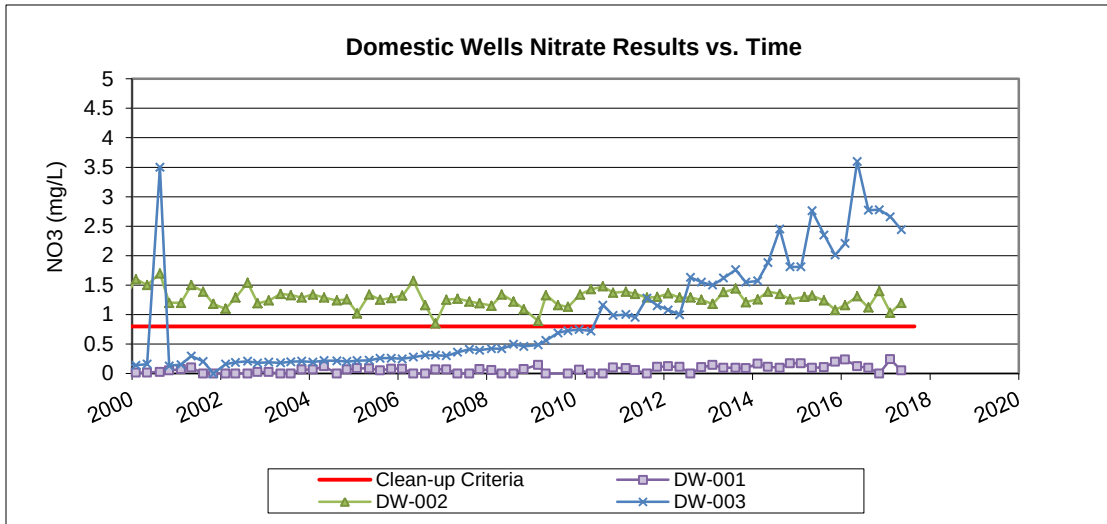


Figure 2-44 Domestic Wells Conventional Concentrations



3 LEACHATE

3.1 LEACHATE DATA

As required by the wastewater discharge permit (issued by Spokane County), a grab sample is collected twice a year at the gravity line conveying leachate to the local sewer system. Grab samples were collected in October 2016 and April 2017.

3.1.1 FIELD DATA

Field parameters were collected at the gravity line during the above sampling rounds. Results are shown in Table 3-1. Hydrographs created using levels taken at landfill leachate piezometers are presented in Figure 3-1.

3.1.2 CRITERIA EXCEEDANCES

There were no exceedances of daily maximum criteria set forth for the leachate gravity line samples during this annual reporting period.

3.1.3 CHEMICAL DATA

Results from the analyses of the January and April leachate samples are presented in Table 3-2.

3.2 LEACHATE PRODUCTION

Monthly and quarterly leachate production rates are presented in Table 3-3 along with local precipitation amounts. Total annual production rates and precipitation totals versus time are shown in Figure 3-2. The total amount of leachate generated at the Mica Landfill from October 2016 through September 2017 was approximately 7.7 million gallons.

Table 3-1 Leachate Field Parameters

StationID	SampleDate	FieldTemp	FieldPH	FieldConductivity	FieldTurbidity
LS-GL	10/10/2016	9.2	7.98	247	4.68
LS-GL	10/10/2016	9	7.99	215	4.08
LS-GL	10/10/2016	9.1	7.94	243	3.81
LS-GL	10/10/2016	9.2	7.97	235	4.05
LS-GL	4/6/2017	7.4	6.58	321	5.23
LS-GL	4/4/2017	7.5	6.52	322	5.14
LS-GL	4/6/2017	7.5	6.54	320	5.06
LS-GL	4/6/2017	7.4	6.56	323	5.2
LS-GL	4/6/2017	7.4	6.58	321	5.23

StationID	SampleDate	FieldTemp	FieldPH	FieldConductivity	FieldTurbidity
LS-GL	10/10/2016	9.2	7.98	247	4.68
LS-GL	10/10/2016	9	7.99	215	4.08
LS-GL	10/10/2016	9.1	7.94	243	3.81
LS-GL	10/10/2016	9.2	7.97	235	4.05
LS-GL	4/6/2017	7.4	6.58	321	5.23
LS-GL	4/4/2017	7.5	6.52	322	5.14
LS-GL	4/6/2017	7.5	6.54	320	5.06
LS-GL	4/6/2017	7.4	6.56	323	5.2
LS-GL	4/6/2017	7.4	6.58	321	5.23

Figure 3-1 Leachate Hydrographs

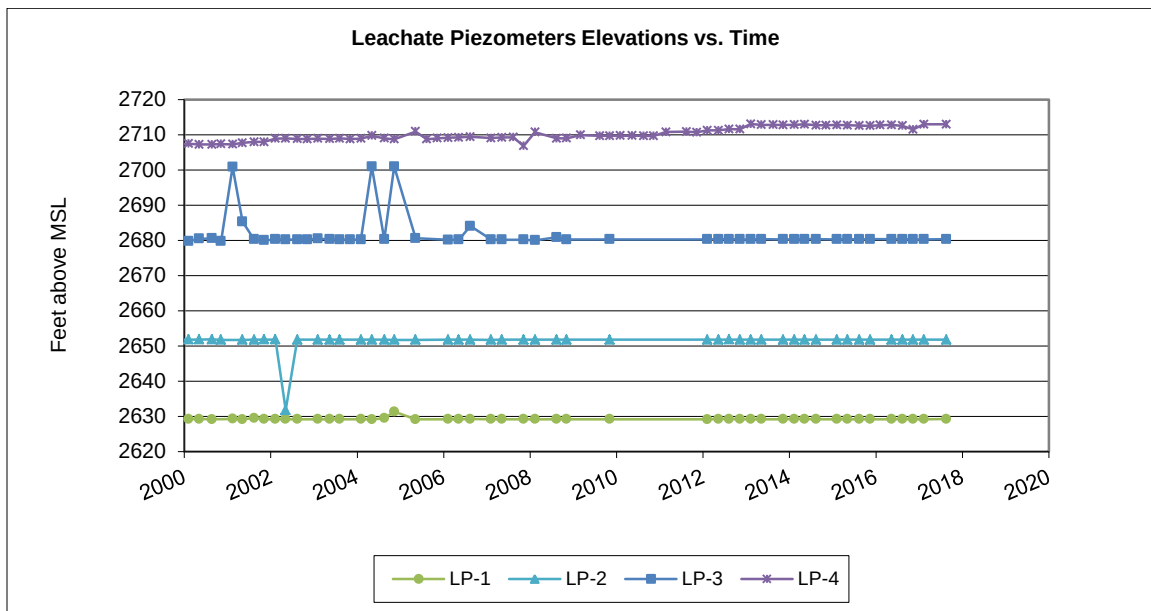


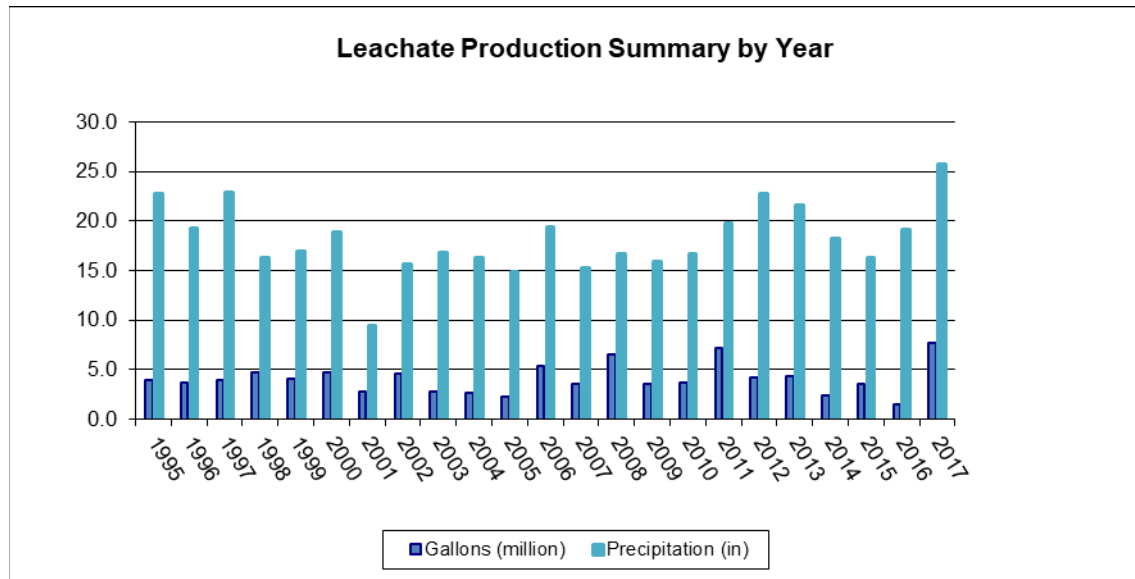
Table 3-2 Leachate Analytical Results

Analyte	Units	Reporting Limit	10/2/2017	4/6/2017
Benzene	ug/L	0.5	0.5U	0.5U
Ethylbenzene	ug/L	0.5	0.5U	0.5U
m,p-Xylene	ug/L	1	1U	1U
o-Xylene	ug/L	0.5	0.5U	0.5U
Toluene	ug/L	0.5	0.5U	2.44

Table 3-3 Leachate Production Summary
October 2016 through September 2017

Month	Leachate Volume (gal)	Precipitation (inches)
Oct-16	295,286	6.27
Nov-16	977,738	2.26
Dec-16	438,634	0.86
Jan-17	500,932	0.55
Feb-17	1,394,761	4.44
Mar-17	2,046,628	4.49
Apr-17	1,081,339	2.27
May-17	589,808	1.89
Jun-17	173,401	1.05
Jul-17	80,449	0.01
Aug-17	61,465	0.04
Sep-17	60,825	1.62
Total Annual	7,701,266	25.75

Figure 3-2 Annual Leachate Production Rates and Precipitation Data vs. Time



4 LANDFILL GAS

4.1 FLARE STATIONS

A summary of monitoring results from the operational flare stations are presented in Table 4-1. The Mica Landfill produced an estimated 32.2 million cubic feet of landfill gas in 2016. The average methane concentration was approximately 43%.

4.2 GAS PROBES

Monthly gas probe monitoring results are presented in Table 4-2. There were no methane detections near or above the regulatory criteria of 5% during this annual reporting period.

Table 4-1 Summary of Mica Landfill Flare Stations 2017

Mica Landfill Emission Point Summary for 2017				
	Flare 6		Flare 7	
DATE	flow	%CH4	flow	%CH4
2012 Jan	370	50.9	300	48.6
2013 Jan	500	54.6	410	47.1
2014 Jan	80	39.7	55	44.2
2015 Jan	615	50.9	580	46.3
2016 Jan	380	47.7	270	46.6
Total	1945	243.8	1615	232.8
Jan avg 2017	389	48.8	323	46.6
2012 Feb	325	52.1	275	46.7
2013 Feb	100	44	85	47.6
2014 Feb	220	47.3	100	36.6
2015 Feb	500	48.8	480	45.5
2016 Feb	890	49.7	630	43.7
Total	2035	241.9	1570	220.1
Feb avg 2017	407	48.4	314	44
Jan	389	48.8	323	46.6
Feb	407	48.4	314	44
Mar	750	44	700	39.3
Apr	580	45.5	565	40.5
May	380	46.3	360	45.2
Jun	395	46	345	43.7
Jul	410	45.3	390	42.3
Aug	460	48.5	440	45.8
Sep	620	39.5	600	37.6
Oct	725	51.5	650	46.3
Nov	630	48.1	550	45.2
Dec	180	38	550	40
Total	5926	549.9	5427	516.5
Average	493.8	45.8	452.3	43

Flare 6:	$549.9 \times 0.66 \times 0.0872 = 31.6 \times 525,600 / 10^6 = 16.6$
Flare 7:	$516.5 \times 0.66 \times 0.0872 = 29.7 \times 525,600 / 10^6 = 15.6$
Total= 32.2 Mft3	

Due to an operational error in January and February of 2017, Flares 6 and 7 were not sampled. Spokane Regional Clean Air Agency was contacted and Spokane County was told it was acceptable to use the average of the previous 3-5 years of data as a replacement for the missing emission point data.

APPENDIX A LABORATORY RESULTS



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

Work Order: **X710347**
Reported: 28-Sep-17 09:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GWDW-001-170913	X710347-01	Ground Water	13-Sep-17 08:30	GF/MT/KM	14-Sep-2017	
GWDW-002-170913	X710347-02	Ground Water	13-Sep-17 09:41	GF/MT/KM	14-Sep-2017	
GWDW-003-170913	X710347-03	Ground Water	13-Sep-17 10:39	GF/MT/KM	14-Sep-2017	
GWMS-004-170913	X710347-04	Ground Water	13-Sep-17 12:29	GF/MT/KM	14-Sep-2017	
GWMW-009-170913	X710347-05	Ground Water	13-Sep-17 08:44	GF/MT/KM	14-Sep-2017	
GWMW-010-170913	X710347-06	Ground Water	13-Sep-17 09:55	GF/MT/KM	14-Sep-2017	
GWMW-013-170913	X710347-07	Ground Water	13-Sep-17 12:00	GF/MT/KM	14-Sep-2017	
GWMW-014-170913	X710347-08	Ground Water	13-Sep-17 10:00	GF/MT/KM	14-Sep-2017	
GWMW-019R-170913	X710347-09	Ground Water	13-Sep-17 13:10	GF/MT/KM	14-Sep-2017	
GWMW-020-170913	X710347-10	Ground Water	13-Sep-17 13:45	GF/MT/KM	14-Sep-2017	
GWMW-029-170913	X710347-11	Ground Water	13-Sep-17 11:15	GF/MT/KM	14-Sep-2017	
MWS-1-1-170913	X710347-12	Ground Water	13-Sep-17 08:50	GF/MT/KM	14-Sep-2017	

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.

The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.



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

Work Order: **X710347**
Reported: 28-Sep-17 09:13

Client Sample ID: **GWDW-001-170913**

Sampled: 13-Sep-17 08:30

SVL Sample ID: **X710347-01 (Ground Water)**

Received: 14-Sep-17

Sample Report Page 1 of 1

Sampled By: GF/MT/KM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total)

EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000076		X739019	MWD	09/26/17 10:01	
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Metals (Total Recoverable)

EPA 6010D	Barium	0.0063	mg/L	0.0020	0.0016		X737160	AS	09/27/17 09:15	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0052		X737160	AS	09/27/17 09:15	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0049		X737160	AS	09/27/17 09:15	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0028		X737160	AS	09/27/17 09:15	
EPA 6010D	Zinc	0.105	mg/L	0.010	0.003		X737160	AS	09/27/17 09:15	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X737280	KWH	09/26/17 12:41	

Classical Chemistry Parameters

EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.004		X737264	APH	09/15/17 15:06	
SM 2320B	Total Alkalinity	139	mg/L as CaCO ₃	1.0			X737254	DKS	09/15/17 10:34	
SM 2320B	Bicarbonate	139	mg/L as CaCO ₃	1.0			X737254	DKS	09/15/17 10:34	
SM 2320B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X737254	DKS	09/15/17 10:34	
SM 5310B	Total Organic Carbon	< 1.00	mg/L	1.00	0.18		X738151	SCM	09/19/17 18:13	

Anions by Ion Chromatography

EPA 300.0	Chloride	2.57	mg/L	0.20	0.07		X737250	SMB	09/14/17 13:22	
EPA 300.0	Nitrate as N	0.062	mg/L	0.050	0.018		X737250	SMB	09/14/17 13:22	
EPA 300.0	Sulfate as SO₄	9.28	mg/L	0.30	0.13		X737250	SMB	09/14/17 13:22	

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

John Kern
Laboratory Director



www.svl.net

One Government Gulch - PO Box 929

Kellogg ID 83837-0929

(208) 784-1258

Fax (208) 783-0891

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

Work Order: **X710347**
Reported: 28-Sep-17 09:13

Client Sample ID: **GWDW-002-170913**SVL Sample ID: **X710347-02 (Ground Water)**

Sample Report Page 1 of 1

Sampled: 13-Sep-17 09:41
Received: 14-Sep-17
Sampled By: GF/MT/KM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total)

EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000076		X739019	MWD	09/26/17 10:02	
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Metals (Total Recoverable)

EPA 6010D	Barium	0.0404	mg/L	0.0020	0.0016		X737160	AS	09/27/17 09:19	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0052		X737160	AS	09/27/17 09:19	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0049		X737160	AS	09/27/17 09:19	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0028		X737160	AS	09/27/17 09:19	
EPA 6010D	Zinc	0.012	mg/L	0.010	0.003		X737160	AS	09/27/17 09:19	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X737280	KWH	09/26/17 12:43	

Classical Chemistry Parameters

EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.004		X737264	APH	09/15/17 15:09	
SM 2320B	Total Alkalinity	157	mg/L as CaCO ₃	1.0			X737254	DKS	09/15/17 10:41	
SM 2320B	Bicarbonate	157	mg/L as CaCO ₃	1.0			X737254	DKS	09/15/17 10:41	
SM 2320B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X737254	DKS	09/15/17 10:41	
SM 5310B	Total Organic Carbon	< 1.00	mg/L	1.00	0.18		X738151	SCM	09/19/17 18:26	

Anions by Ion Chromatography

EPA 300.0	Chloride	8.20	mg/L	0.20	0.07		X737250	SMB	09/14/17 14:39	
EPA 300.0	Nitrate as N	1.17	mg/L	0.050	0.018		X737250	SMB	09/14/17 14:39	
EPA 300.0	Sulfate as SO₄	4.90	mg/L	0.30	0.13		X737250	SMB	09/14/17 14:39	

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

John Kern
Laboratory Director



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

Work Order: **X710347**
Reported: 28-Sep-17 09:13

Client Sample ID: **GWDW-003-170913**

Sampled: 13-Sep-17 10:39

SVL Sample ID: **X710347-03 (Ground Water)**

Received: 14-Sep-17

Sample Report Page 1 of 1

Sampled By: GF/MT/KM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total)

EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000076		X739019	MWD	09/26/17 10:04	
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Metals (Total Recoverable)

EPA 6010D	Barium	0.0321	mg/L	0.0020	0.0016		X737160	AS	09/27/17 09:22	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0052		X737160	AS	09/27/17 09:22	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0049		X737160	AS	09/27/17 09:22	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0028		X737160	AS	09/27/17 09:22	
EPA 6010D	Zinc	0.061	mg/L	0.010	0.003		X737160	AS	09/27/17 09:22	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X737280	KWH	09/26/17 12:45	

Classical Chemistry Parameters

EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.004		X737264	APH	09/15/17 15:12	
SM 2320B	Total Alkalinity	191	mg/L as CaCO ₃	1.0			X737254	DKS	09/15/17 10:50	
SM 2320B	Bicarbonate	191	mg/L as CaCO ₃	1.0			X737254	DKS	09/15/17 10:50	
SM 2320B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X737254	DKS	09/15/17 10:50	
SM 5310B	Total Organic Carbon	< 1.00	mg/L	1.00	0.18		X738151	SCM	09/19/17 18:39	

Anions by Ion Chromatography

EPA 300.0	Chloride	0.95	mg/L	0.20	0.07		X737250	SMB	09/14/17 14:54	
EPA 300.0	Nitrate as N	4.35	mg/L	0.050	0.018		X737250	SMB	09/14/17 14:54	
EPA 300.0	Sulfate as SO₄	2.75	mg/L	0.30	0.13		X737250	SMB	09/14/17 14:54	

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

John Kern
Laboratory Director



www.svl.net

One Government Gulch - PO Box 929

Kellogg ID 83837-0929

(208) 784-1258

Fax (208) 783-0891

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

Work Order: **X710347**
Reported: 28-Sep-17 09:13

Client Sample ID: **GWMS-004-170913**

Sampled: 13-Sep-17 12:29

SVL Sample ID: **X710347-04 (Ground Water)**

Received: 14-Sep-17

Sample Report Page 1 of 1

Sampled By: GF/MT/KM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total)

EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000076		X739019	MWD	09/26/17 10:10	
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Metals (Total Recoverable)

EPA 6010D	Barium	0.0591	mg/L	0.0020	0.0016		X737160	AS	09/27/17 09:26	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0052		X737160	AS	09/27/17 09:26	
EPA 6010D	Manganese	0.0120	mg/L	0.0080	0.0049		X737160	AS	09/27/17 09:26	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0028		X737160	AS	09/27/17 09:26	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.003		X737160	AS	09/27/17 09:26	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X737280	KWH	09/26/17 12:47	

Classical Chemistry Parameters

EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.004		X737264	APH	09/15/17 15:15	
SM 2320B	Total Alkalinity	106	mg/L as CaCO ₃	1.0			X737254	DKS	09/15/17 10:56	
SM 2320B	Bicarbonate	106	mg/L as CaCO ₃	1.0			X737254	DKS	09/15/17 10:56	
SM 2320B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X737254	DKS	09/15/17 10:56	
SM 2540 C	Total Diss. Solids	182	mg/L	10			X737276	JDM	09/15/17 15:25	
SM 5310B	Total Organic Carbon	< 1.00	mg/L	1.00	0.18		X738151	SCM	09/19/17 18:52	

Anions by Ion Chromatography

EPA 300.0	Chloride	0.37	mg/L	0.20	0.07		X737250	SMB	09/14/17 15:10	
EPA 300.0	Nitrate as N	4.32	mg/L	0.050	0.018		X737250	SMB	09/14/17 15:10	
EPA 300.0	Sulfate as SO ₄	11.9	mg/L	0.30	0.13		X737250	SMB	09/14/17 15:10	

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

John Kern
Laboratory Director



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

Work Order: **X710347**
Reported: 28-Sep-17 09:13

Client Sample ID: **GWMW-009-170913**

Sampled: 13-Sep-17 08:44

SVL Sample ID: **X710347-05 (Ground Water)**

Received: 14-Sep-17

Sample Report Page 1 of 1

Sampled By: GF/MT/KM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total)

EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000076		X739019	MWD	09/26/17 10:11	
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Metals (Total Recoverable)

EPA 6010D	Barium	0.156	mg/L	0.0020	0.0016		X737160	AS	09/27/17 09:29	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0052		X737160	AS	09/27/17 09:29	
EPA 6010D	Manganese	0.577	mg/L	0.0080	0.0049		X737160	AS	09/27/17 09:29	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0028		X737160	AS	09/27/17 09:29	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.003		X737160	AS	09/27/17 09:29	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X737280	KWH	09/26/17 12:49	

Classical Chemistry Parameters

EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.004		X737264	APH	09/15/17 15:18	
SM 2320B	Total Alkalinity	284	mg/L as CaCO ₃	1.0			X737254	DKS	09/15/17 11:01	
SM 2320B	Bicarbonate	284	mg/L as CaCO ₃	1.0			X737254	DKS	09/15/17 11:01	
SM 2320B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X737254	DKS	09/15/17 11:01	
SM 2540 C	Total Diss. Solids	360	mg/L	10			X737276	JDM	09/15/17 15:25	
SM 5310B	Total Organic Carbon	2.15	mg/L	1.00	0.18		X738151	SCM	09/19/17 19:32	

Anions by Ion Chromatography

EPA 300.0	Chloride	37.9	mg/L	2.00	0.70	10	X737250	SMB	09/20/17 02:33	D2
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.018		X737250	SMB	09/14/17 15:56	
EPA 300.0	Sulfate as SO₄	3.77	mg/L	0.30	0.13		X737250	SMB	09/14/17 15:56	

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

John Kern
Laboratory Director



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One Government Gulch - PO Box 929

Kellogg ID 83837-0929

(208) 784-1258

Fax (208) 783-0891

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

Work Order: **X710347**
Reported: 28-Sep-17 09:13

Client Sample ID: **GWMW-010-170913**

Sampled: 13-Sep-17 09:55

SVL Sample ID: **X710347-06 (Ground Water)**

Received: 14-Sep-17

Sample Report Page 1 of 1

Sampled By: GF/MT/KM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total)

EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000076		X739019	MWD	09/26/17 10:13	
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Metals (Total Recoverable)

EPA 6010D	Barium	0.0487	mg/L	0.0020	0.0016		X737160	AS	09/27/17 09:32	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0052		X737160	AS	09/27/17 09:32	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0049		X737160	AS	09/27/17 09:32	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0028		X737160	AS	09/27/17 09:32	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.003		X737160	AS	09/27/17 09:32	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X737280	KWH	09/26/17 12:55	

Classical Chemistry Parameters

EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.004		X737264	APH	09/15/17 15:32	
SM 2320B	Total Alkalinity	93.4	mg/L as CaCO ₃	1.0			X737254	DKS	09/15/17 11:10	
SM 2320B	Bicarbonate	93.4	mg/L as CaCO ₃	1.0			X737254	DKS	09/15/17 11:10	
SM 2320B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X737254	DKS	09/15/17 11:10	
SM 2540 C	Total Diss. Solids	134	mg/L	10			X737276	JDM	09/15/17 15:25	
SM 5310B	Total Organic Carbon	< 1.00	mg/L	1.00	0.18		X738151	SCM	09/19/17 19:45	

Anions by Ion Chromatography

EPA 300.0	Chloride	0.38	mg/L	0.20	0.07		X737250	SMB	09/14/17 16:11	
EPA 300.0	Nitrate as N	0.237	mg/L	0.050	0.018		X737250	SMB	09/14/17 16:11	
EPA 300.0	Sulfate as SO₄	0.73	mg/L	0.30	0.13		X737250	SMB	09/14/17 16:11	

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

John Kern
Laboratory Director



www.svl.net

One Government Gulch - PO Box 929

Kellogg ID 83837-0929

(208) 784-1258

Fax (208) 783-0891

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

Work Order: **X710347**
Reported: 28-Sep-17 09:13

Client Sample ID: **GWMW-013-170913**

Sampled: 13-Sep-17 12:00

SVL Sample ID: **X710347-07 (Ground Water)**

Received: 14-Sep-17

Sample Report Page 1 of 1

Sampled By: GF/MT/KM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total)

EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000076		X739019	MWD	09/26/17 10:15	
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Metals (Total Recoverable)

EPA 6010D	Barium	0.0559	mg/L	0.0020	0.0016		X737160	AS	09/27/17 09:45	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0052		X737160	AS	09/27/17 09:45	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0049		X737160	AS	09/27/17 09:45	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0028		X737160	AS	09/27/17 09:45	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.003		X737160	AS	09/27/17 09:45	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X737280	KWH	09/26/17 12:57	

Classical Chemistry Parameters

EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.004		X737264	APH	09/15/17 15:34	
SM 2320B	Total Alkalinity	209	mg/L as CaCO ₃	1.0			X737254	DKS	09/15/17 11:15	
SM 2320B	Bicarbonate	209	mg/L as CaCO ₃	1.0			X737254	DKS	09/15/17 11:15	
SM 2320B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X737254	DKS	09/15/17 11:15	
SM 2540 C	Total Diss. Solids	264	mg/L	10			X737276	JDM	09/15/17 15:25	
SM 5310B	Total Organic Carbon	1.09	mg/L	1.00	0.18		X738151	SCM	09/19/17 19:58	

Anions by Ion Chromatography

EPA 300.0	Chloride	9.92	mg/L	0.20	0.07		X737250	SMB	09/14/17 16:27	
EPA 300.0	Nitrate as N	0.759	mg/L	0.050	0.018		X737250	SMB	09/14/17 16:27	
EPA 300.0	Sulfate as SO ₄	4.33	mg/L	0.30	0.13		X737250	SMB	09/14/17 16:27	

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

John Kern
Laboratory Director



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One Government Gulch - PO Box 929

Kellogg ID 83837-0929

(208) 784-1258

Fax (208) 783-0891

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

Work Order: **X710347**
Reported: 28-Sep-17 09:13

Client Sample ID: **GWMW-014-170913**

Sampled: 13-Sep-17 10:00

SVL Sample ID: **X710347-08 (Ground Water)**

Received: 14-Sep-17

Sample Report Page 1 of 1

Sampled By: GF/MT/KM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total)

EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000076		X739019	MWD	09/26/17 10:17	
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Metals (Total Recoverable)

EPA 6010D	Barium	< 0.0020	mg/L	0.0020	0.0016		X737160	AS	09/27/17 09:49	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0052		X737160	AS	09/27/17 09:49	
EPA 6010D	Manganese	0.125	mg/L	0.0080	0.0049		X737160	AS	09/27/17 09:49	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0028		X737160	AS	09/27/17 09:49	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.003		X737160	AS	09/27/17 09:49	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X737280	KWH	09/26/17 12:35	

Classical Chemistry Parameters

EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.004		X737264	APH	09/15/17 15:37	
SM 2320B	Total Alkalinity	79.2	mg/L as CaCO ₃	1.0			X737254	DKS	09/15/17 11:23	
SM 2320B	Bicarbonate	79.2	mg/L as CaCO ₃	1.0			X737254	DKS	09/15/17 11:23	
SM 2320B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X737254	DKS	09/15/17 11:23	
SM 2540 C	Total Diss. Solids	114	mg/L	10			X737276	JDM	09/15/17 15:25	
SM 5310B	Total Organic Carbon	< 1.00	mg/L	1.00	0.18		X738151	SCM	09/19/17 20:11	

Anions by Ion Chromatography

EPA 300.0	Chloride	0.73	mg/L	0.20	0.07		X737250	SMB	09/14/17 13:37	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.018		X737250	SMB	09/14/17 13:37	
EPA 300.0	Sulfate as SO ₄	8.79	mg/L	0.30	0.13		X737250	SMB	09/14/17 13:37	

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

John Kern
Laboratory Director



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One Government Gulch - PO Box 929

Kellogg ID 83837-0929

(208) 784-1258

Fax (208) 783-0891

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

Work Order: **X710347**
Reported: 28-Sep-17 09:13

Client Sample ID: **GWMW-019R-170913**

Sampled: 13-Sep-17 13:10

SVL Sample ID: **X710347-09 (Ground Water)**

Received: 14-Sep-17

Sample Report Page 1 of 1

Sampled By: GF/MT/KM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total)

EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000076		X739019	MWD	09/26/17 10:22	
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Metals (Total Recoverable)

EPA 6010D	Barium	0.0442	mg/L	0.0020	0.0016		X737160	AS	09/27/17 09:59	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0052		X737160	AS	09/27/17 09:59	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0049		X737160	AS	09/27/17 09:59	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0028		X737160	AS	09/27/17 09:59	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.003		X737160	AS	09/27/17 09:59	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X737280	KWH	09/26/17 12:59	

Classical Chemistry Parameters

EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.004		X737264	APH	09/15/17 15:40	
SM 2320B	Total Alkalinity	123	mg/L as CaCO3	1.0			X737254	DKS	09/15/17 11:28	
SM 2320B	Bicarbonate	123	mg/L as CaCO3	1.0			X737254	DKS	09/15/17 11:28	
SM 2320B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X737254	DKS	09/15/17 11:28	
SM 2540 C	Total Diss. Solids	182	mg/L	10			X737276	JDM	09/15/17 15:25	
SM 5310B	Total Organic Carbon	1.19	mg/L	1.00	0.18		X738151	SCM	09/19/17 20:51	

Anions by Ion Chromatography

EPA 300.0	Chloride	9.01	mg/L	0.20	0.07		X737250	SMB	09/14/17 16:42	
EPA 300.0	Nitrate as N	1.43	mg/L	0.050	0.018		X737250	SMB	09/14/17 16:42	
EPA 300.0	Sulfate as SO4	5.96	mg/L	0.30	0.13		X737250	SMB	09/14/17 16:42	

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

John Kern
Laboratory Director



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One Government Gulch - PO Box 929

Kellogg ID 83837-0929

(208) 784-1258

Fax (208) 783-0891

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

Work Order: **X710347**
Reported: 28-Sep-17 09:13

Client Sample ID: **GWMW-020-170913**

Sampled: 13-Sep-17 13:45

SVL Sample ID: **X710347-10 (Ground Water)**

Received: 14-Sep-17

Sample Report Page 1 of 1

Sampled By: GF/MT/KM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total)

EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000076		X739019	MWD	09/26/17 10:24	
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Metals (Total Recoverable)

EPA 6010D	Barium	0.138	mg/L	0.0020	0.0016		X737160	AS	09/27/17 10:02	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0052		X737160	AS	09/27/17 10:02	
EPA 6010D	Manganese	0.0159	mg/L	0.0080	0.0049		X737160	AS	09/27/17 10:02	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0028		X737160	AS	09/27/17 10:02	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.003		X737160	AS	09/27/17 10:02	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X737280	KWH	09/26/17 13:01	

Classical Chemistry Parameters

EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.004		X737264	APH	09/15/17 15:43	
SM 2320B	Total Alkalinity	247	mg/L as CaCO ₃	1.0			X737254	DKS	09/15/17 11:34	
SM 2320B	Bicarbonate	247	mg/L as CaCO ₃	1.0			X737254	DKS	09/15/17 11:34	
SM 2320B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X737254	DKS	09/15/17 11:34	
SM 2540 C	Total Diss. Solids	339	mg/L	10			X737276	JDM	09/15/17 15:25	
SM 5310B	Total Organic Carbon	1.22	mg/L	1.00	0.18		X738151	SCM	09/19/17 21:04	

Anions by Ion Chromatography

EPA 300.0	Chloride	7.23	mg/L	0.20	0.07		X737250	SMB	09/14/17 16:58	
EPA 300.0	Nitrate as N	4.52	mg/L	0.050	0.018		X737250	SMB	09/14/17 16:58	
EPA 300.0	Sulfate as SO₄	8.48	mg/L	0.30	0.13		X737250	SMB	09/14/17 16:58	

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

John Kern
Laboratory Director



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One Government Gulch - PO Box 929

Kellogg ID 83837-0929

(208) 784-1258

Fax (208) 783-0891

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

Work Order: **X710347**
Reported: 28-Sep-17 09:13

Client Sample ID: **GWMW-029-170913**

Sampled: 13-Sep-17 11:15

SVL Sample ID: **X710347-11 (Ground Water)**

Received: 14-Sep-17

Sample Report Page 1 of 1

Sampled By: GF/MT/KM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total)

EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000076		X739019	MWD	09/26/17 10:26	
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Metals (Total Recoverable)

EPA 6010D	Barium	0.114	mg/L	0.0020	0.0016		X737160	AS	09/27/17 10:06	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0052		X737160	AS	09/27/17 10:06	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0049		X737160	AS	09/27/17 10:06	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0028		X737160	AS	09/27/17 10:06	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.003		X737160	AS	09/27/17 10:06	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X737280	KWH	09/26/17 13:03	

Classical Chemistry Parameters

EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.004		X737264	APH	09/15/17 15:46	
SM 2320B	Total Alkalinity	78.6	mg/L as CaCO ₃	1.0			X737254	DKS	09/15/17 11:42	
SM 2320B	Bicarbonate	78.6	mg/L as CaCO ₃	1.0			X737254	DKS	09/15/17 11:42	
SM 2320B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X737254	DKS	09/15/17 11:42	
SM 2540 C	Total Diss. Solids	546	mg/L	10			X737276	JDM	09/15/17 15:25	
SM 5310B	Total Organic Carbon	< 1.00	mg/L	1.00	0.18		X737315	SCM	09/18/17 21:11	

Anions by Ion Chromatography

EPA 300.0	Chloride	156	mg/L	5.00	1.75	25	X737250	SMB	09/20/17 02:48	D2
EPA 300.0	Nitrate as N	0.947	mg/L	0.050	0.018		X737250	SMB	09/14/17 17:13	
EPA 300.0	Sulfate as SO₄	6.46	mg/L	0.30	0.13		X737250	SMB	09/14/17 17:13	

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

John Kern
Laboratory Director



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One Government Gulch - PO Box 929

Kellogg ID 83837-0929

(208) 784-1258

Fax (208) 783-0891

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

Work Order: **X710347**
Reported: 28-Sep-17 09:13

Client Sample ID: **MWS-1-1-170913**

Sampled: 13-Sep-17 08:50

SVL Sample ID: **X710347-12 (Ground Water)**

Received: 14-Sep-17

Sample Report Page 1 of 1

Sampled By: GF/MT/KM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total)

EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000076		X739019	MWD	09/26/17 10:31	
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Metals (Total Recoverable)

EPA 6010D	Barium	0.151	mg/L	0.0020	0.0016		X737160	AS	09/27/17 10:09	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0052		X737160	AS	09/27/17 10:09	
EPA 6010D	Manganese	0.554	mg/L	0.0080	0.0049		X737160	AS	09/27/17 10:09	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0028		X737160	AS	09/27/17 10:09	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.003		X737160	AS	09/27/17 10:09	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X737280	KWH	09/26/17 13:05	

Classical Chemistry Parameters

EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.004		X737264	APH	09/15/17 15:49	
SM 2320B	Total Alkalinity	273	mg/L as CaCO ₃	1.0			X737254	DKS	09/15/17 11:48	
SM 2320B	Bicarbonate	273	mg/L as CaCO ₃	1.0			X737254	DKS	09/15/17 11:48	
SM 2320B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X737254	DKS	09/15/17 11:48	
SM 2540 C	Total Diss. Solids	370	mg/L	10			X737276	JDM	09/15/17 15:25	
SM 5310B	Total Organic Carbon	2.26	mg/L	1.00	0.18		X737315	SCM	09/18/17 21:25	

Anions by Ion Chromatography

EPA 300.0	Chloride	36.2	mg/L	2.00	0.70	10	X737250	SMB	09/20/17 03:04	D2
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.018		X737250	SMB	09/14/17 17:29	
EPA 300.0	Sulfate as SO₄	3.70	mg/L	0.30	0.13		X737250	SMB	09/14/17 17:29	

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

John Kern
Laboratory Director



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

Work Order: **X710347**
Reported: 28-Sep-17 09:13

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total)								
EPA 7470A	Mercury	mg/L	<0.00020	0.000076	0.00020	X739019	26-Sep-17	
Metals (Total Recoverable)								
EPA 6010D	Barium	mg/L	<0.0020	0.0016	0.0020	X737160	27-Sep-17	
EPA 6010D	Lead	mg/L	<0.0075	0.0052	0.0075	X737160	27-Sep-17	
EPA 6010D	Manganese	mg/L	<0.0080	0.0049	0.0080	X737160	27-Sep-17	
EPA 6010D	Vanadium	mg/L	<0.0050	0.0028	0.0050	X737160	27-Sep-17	
EPA 6010D	Zinc	mg/L	<0.010	0.003	0.010	X737160	27-Sep-17	
EPA 6020B	Arsenic	mg/L	<0.00300	0.00021	0.00300	X737280	26-Sep-17	
Classical Chemistry Parameters								
EPA 350.1	Ammonia as N	mg/L	<0.030	0.004	0.030	X737264	15-Sep-17	
SM 2320B	Total Alkalinity	mg/L as CaCO ₃	<1.0		1.0	X737254	15-Sep-17	
SM 2320B	Bicarbonate	mg/L as CaCO ₃	<1.0		1.0	X737254	15-Sep-17	
SM 2320B	Carbonate	mg/L as CaCO ₃	<1.0		1.0	X737254	15-Sep-17	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X737276	15-Sep-17	
SM 5310B	Total Organic Carbon	mg/L	<1.00	0.18	1.00	X737315	18-Sep-17	
SM 5310B	Total Organic Carbon	mg/L	<1.00	0.18	1.00	X738151	19-Sep-17	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.07	0.20	X737250	14-Sep-17	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.018	0.050	X737250	14-Sep-17	
EPA 300.0	Sulfate as SO ₄	mg/L	<0.30	0.13	0.30	X737250	14-Sep-17	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)									
EPA 7470A	Mercury	mg/L	0.00491	0.00500	98.2	80 - 120	X739019	26-Sep-17	
Metals (Total Recoverable)									
EPA 6010D	Barium	mg/L	1.06	1.00	106	80 - 120	X737160	27-Sep-17	
EPA 6010D	Lead	mg/L	1.05	1.00	105	80 - 120	X737160	27-Sep-17	
EPA 6010D	Manganese	mg/L	1.02	1.00	102	80 - 120	X737160	27-Sep-17	
EPA 6010D	Vanadium	mg/L	1.07	1.00	107	80 - 120	X737160	27-Sep-17	
EPA 6010D	Zinc	mg/L	1.05	1.00	105	80 - 120	X737160	27-Sep-17	
EPA 6020B	Arsenic	mg/L	0.0252	0.0250	101	80 - 120	X737280	26-Sep-17	
Classical Chemistry Parameters									
EPA 350.1	Ammonia as N	mg/L	1.01	1.00	101	90 - 110	X737264	15-Sep-17	
SM 2320B	Total Alkalinity	mg/L as CaCO3	101	99.3	102	85 - 115	X737254	15-Sep-17	
SM 2320B	Bicarbonate	mg/L as CaCO3	101	99.3	102	85 - 115	X737254	15-Sep-17	
SM 5310B	Total Organic Carbon	mg/L	34.6	34.3	101	90 - 110	X737315	18-Sep-17	
SM 5310B	Total Organic Carbon	mg/L	34.6	34.3	101	90 - 110	X738151	19-Sep-17	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.02	3.00	101	90 - 110	X737250	14-Sep-17	
EPA 300.0	Nitrate as N	mg/L	1.90	2.00	94.9	90 - 110	X737250	14-Sep-17	
EPA 300.0	Sulfate as SO4	mg/L	9.89	10.0	98.9	90 - 110	X737250	14-Sep-17	



Spokane County Environmental Services (Colbert)

22515 N. Elk Chattaroy Road
Colbert, WA 99005Work Order: **X710347**
Reported: 28-Sep-17 09:13

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2320B	Total Alkalinity	mg/L as CaCO ₃	79.9	79.2	1.0	20	X737254	15-Sep-17	
SM 2320B	Bicarbonate	mg/L as CaCO ₃	79.9	79.2	1.0	20	X737254	15-Sep-17	
SM 2320B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X737254	15-Sep-17	
SM 2540 C	Total Diss. Solids	mg/L	125	114	9.2	10	X737276	15-Sep-17	
SM 2540 C	Total Diss. Solids	mg/L	372	360	3.3	10	X737276	15-Sep-17	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	mg/L	0.00104	<0.00020	0.00100	104	75 - 125	X739019	26-Sep-17	
Metals (Total Recoverable)										
EPA 6010D	Barium	mg/L	1.08	<0.0020	1.00	108	75 - 125	X737160	27-Sep-17	
EPA 6010D	Lead	mg/L	1.05	<0.0075	1.00	105	75 - 125	X737160	27-Sep-17	
EPA 6010D	Manganese	mg/L	1.16	0.125	1.00	103	75 - 125	X737160	27-Sep-17	
EPA 6010D	Vanadium	mg/L	1.08	<0.0050	1.00	108	75 - 125	X737160	27-Sep-17	
EPA 6010D	Zinc	mg/L	1.04	<0.010	1.00	104	75 - 125	X737160	27-Sep-17	
EPA 6020B	Arsenic	mg/L	0.0258	<0.00300	0.0250	100	75 - 125	X737280	26-Sep-17	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	mg/L	1.04	<0.030	1.00	104	90 - 110	X737264	15-Sep-17	
EPA 350.1	Ammonia as N	mg/L	1.01	<0.030	1.00	101	90 - 110	X737264	15-Sep-17	
SM 5310B	Total Organic Carbon	mg/L	46.2	<1.00	50.0	92.0	80 - 120	X737315	18-Sep-17	
SM 5310B	Total Organic Carbon	mg/L	47.1	<1.00	50.0	93.4	80 - 120	X738151	19-Sep-17	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	5.57	2.57	3.00	100	90 - 110	X737250	14-Sep-17	
EPA 300.0	Chloride	mg/L	3.68	0.73	3.00	98.5	90 - 110	X737250	14-Sep-17	
EPA 300.0	Nitrate as N	mg/L	1.98	0.062	2.00	96.0	90 - 110	X737250	14-Sep-17	
EPA 300.0	Nitrate as N	mg/L	1.92	<0.050	2.00	95.9	90 - 110	X737250	14-Sep-17	
EPA 300.0	Sulfate as SO ₄	mg/L	19.9	9.28	10.0	106	90 - 110	X737250	14-Sep-17	
EPA 300.0	Sulfate as SO ₄	mg/L	19.3	8.79	10.0	105	90 - 110	X737250	14-Sep-17	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	%R	RPD	RPD Limit	Batch ID	Analyzed	Notes
Metals (Total)											
EPA 7470A	Mercury	mg/L	0.00103	0.00104	0.00100	103	1.0	20	X739019	26-Sep-17	
Metals (Total Recoverable)											
EPA 6010D	Barium	mg/L	1.09	1.08	1.00	109	1.7	20	X737160	27-Sep-17	
EPA 6010D	Lead	mg/L	1.04	1.05	1.00	104	0.4	20	X737160	27-Sep-17	
EPA 6010D	Manganese	mg/L	1.17	1.16	1.00	104	0.9	20	X737160	27-Sep-17	
EPA 6010D	Vanadium	mg/L	1.07	1.08	1.00	107	0.7	20	X737160	27-Sep-17	
EPA 6010D	Zinc	mg/L	1.04	1.04	1.00	104	0.3	20	X737160	27-Sep-17	
EPA 6020B	Arsenic	mg/L	0.0260	0.0258	0.0250	101	0.9	20	X737280	26-Sep-17	



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

Work Order: **X710347**
Reported: 28-Sep-17 09:13

Quality Control - MATRIX SPIKE DUPLICATE Data				(Continued)							
Method	Analyte	Units	MSD Result	Spike Result	Spike Level	%R	RPD	RPD Limit	Batch ID	Analyzed	Notes

Metals (Total Recoverable) (Continued)

EPA 6020B	Arsenic	mg/L	0.0269	0.0258	0.0250	105	4.2	20	X737280	26-Sep-17	
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Classical Chemistry Parameters

EPA 350.1	Ammonia as N	mg/L	1.04	1.04	1.00	104	0.3	20	X737264	15-Sep-17	
SM 5310B	Total Organic Carbon	mg/L	46.0	46.2	50.0	91.5	0.5	20	X737315	18-Sep-17	
SM 5310B	Total Organic Carbon	mg/L	46.2	47.1	50.0	91.5	2.0	20	X738151	19-Sep-17	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.81	3.68	3.00	103	3.4	20	X737250	14-Sep-17	
EPA 300.0	Nitrate as N	mg/L	1.99	1.92	2.00	99.6	3.8	20	X737250	14-Sep-17	
EPA 300.0	Sulfate as SO4	mg/L	19.7	19.3	10.0	109	1.9	20	X737250	14-Sep-17	

Notes and Definitions

D2	Sample required dilution due to high concentration of target analyte.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
R > 4S	% recovery not applicable, sample concentration more than four times greater than spike level
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-001	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWDW-001-170913	Sampling Time	8:30 AM		
Matrix	Water	Sample Location	X7I0398-01		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-001	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWDW-001-170913	Sampling Time	8:30 AM		
Matrix	Water	Sample Location	X7I0398-01		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Carbon disulfide	4.73	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-001	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWDW-001-170913	Sampling Time	8:30 AM		
Matrix	Water	Sample Location	X7I0398-01		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Trichlorofluoromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

Surrogate Data

Sample Number	170918003-001		
Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	97.2	70-130
4-Bromofluorobenzene	EPA 8260C	94.8	70-130
Toluene-d8	EPA 8260C	98.8	70-130

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-002	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWDW-002-170913	Sampling Time	9:41 AM		
Matrix	Water	Sample Location	X7I0398-02		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-002	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWDW-002-170913	Sampling Time	9:41 AM		
Matrix	Water	Sample Location	X7I0398-02		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Carbon disulfide	2.81	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-002	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM		
Client Sample ID	GWDW-002-170913	Sampling Time	9:41 AM				
Matrix	Water	Sample Location	X7I0398-02				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Trichloroflouromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

Surrogate Data

Sample Number	170918003-002		
Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	99.2	70-130
4-Bromofluorobenzene	EPA 8260C	101.6	70-130
Toluene-d8	EPA 8260C	101.2	70-130

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-003	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWDW-003-170913	Sampling Time	10:39 AM		
Matrix	Water	Sample Location	X7I0398-03		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-003	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWDW-003-170913	Sampling Time	10:39 AM		
Matrix	Water	Sample Location	X7I0398-03		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Carbon disulfide	4.89	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-003	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWDW-003-170913	Sampling Time	10:39 AM		
Matrix	Water	Sample Location	X7I0398-03		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Trichlorofluoromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

Surrogate Data

Sample Number	170918003-003		
Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	98.8	70-130
4-Bromofluorobenzene	EPA 8260C	100.8	70-130
Toluene-d8	EPA 8260C	96.8	70-130

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-004	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMS-004-170913	Sampling Time	12:29 PM		
Matrix	Water	Sample Location	X7I0398-04		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-Dichloroethane	1.12	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-004	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMS-004-170913	Sampling Time	12:29 PM		
Matrix	Water	Sample Location	X7I0398-04		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Carbon disulfide	5.88	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dichlorodifluoromethane	1.88	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-004	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM		
Client Sample ID	GWMS-004-170913	Sampling Time	12:29 PM				
Matrix	Water	Sample Location	X7I0398-04				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Trichloroflouromethane	0.61	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

Surrogate Data

Sample Number	170918003-004		
Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	98.4	70-130
4-Bromofluorobenzene	EPA 8260C	96.8	70-130
Toluene-d8	EPA 8260C	100.4	70-130

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-005	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMW-009-170913	Sampling Time	8:44 AM		
Matrix	Water	Sample Location	X7I0398-05		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-005	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMW-009-170913	Sampling Time	8:44 AM		
Matrix	Water	Sample Location	X7I0398-05		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Carbon disulfide	5.79	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

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Analytical Results Report

Sample Number	170918003-005	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMW-009-170913	Sampling Time	8:44 AM		
Matrix	Water	Sample Location	X7I0398-05		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Trichlorofluoromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

Surrogate Data

Sample Number	170918003-005		
Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	101.2	70-130
4-Bromofluorobenzene	EPA 8260C	97.2	70-130
Toluene-d8	EPA 8260C	100.8	70-130

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-006	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMW-010-170913	Sampling Time	9:55 AM		
Matrix	Water	Sample Location	X7I0398-06		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-006	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMW-010-170913	Sampling Time	9:55 AM		
Matrix	Water	Sample Location	X7I0398-06		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Carbon disulfide	4.17	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-006	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMW-010-170913	Sampling Time	9:55 AM		
Matrix	Water	Sample Location	X7I0398-06		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Trichlorofluoromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

Surrogate Data

Sample Number	170918003-006		
Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	103.6	70-130
4-Bromofluorobenzene	EPA 8260C	96.0	70-130
Toluene-d8	EPA 8260C	98.4	70-130

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-007	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMW-013-170913	Sampling Time	12:00 PM		
Matrix	Water	Sample Location	X7I0398-07		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-Dichloroethane	1.52	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-007	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMW-013-170913	Sampling Time	12:00 PM		
Matrix	Water	Sample Location	X7I0398-07		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Carbon disulfide	5.50	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dichlorodifluoromethane	3.24	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-007	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMW-013-170913	Sampling Time	12:00 PM		
Matrix	Water	Sample Location	X7I0398-07		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Trichlorofluoromethane	0.60	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

Surrogate Data

Sample Number	170918003-007		
Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	95.6	70-130
4-Bromofluorobenzene	EPA 8260C	102.8	70-130
Toluene-d8	EPA 8260C	110.8	70-130

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

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Analytical Results Report

Sample Number	170918003-008	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMW-014-170913	Sampling Time	10:00 AM		
Matrix	Water	Sample Location	X7I0398-08		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-008	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMW-014-170913	Sampling Time	10:00 AM		
Matrix	Water	Sample Location	X7I0398-08		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Carbon disulfide	4.59	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-008	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMW-014-170913	Sampling Time	10:00 AM		
Matrix	Water	Sample Location	X7I0398-08		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Trichlorofluoromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

Surrogate Data

Sample Number	170918003-008		
Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	100.0	70-130
4-Bromofluorobenzene	EPA 8260C	100.0	70-130
Toluene-d8	EPA 8260C	98.4	70-130

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-008A	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMW-014-170913A	Sampling Time	10:00 AM		
Matrix	Water	Sample Location	X7I0398-08A		
Comments	Sample Matrix Spike				

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	9.91	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,1-Trichloroethane	10.4	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	9.92	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,2-Trichloroethane	10.2	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-Dichloroethane	10.5	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-Dichloroethene	10.6	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-dichloropropene	10.9	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	9.88	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,3-Trichloropropane	9.41	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	10.2	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	10.5	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	9.27	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dibromoethane	10.1	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichlorobenzene	10.1	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichloroethane	10.6	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichloropropane	10.5	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	10.6	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3-Dichlorobenzene	10.3	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3-Dichloropropane	10.5	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,4-Dichlorobenzene	9.91	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2,2-Dichloropropane	10.9	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2-Chlorotoluene	10.5	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2-hexanone	9.07	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
4-Chlorotoluene	10.5	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Acetone	7.89	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Acrylonitrile	9.87	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Benzene	10.1	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromobenzene	9.78	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-008A	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMW-014-170913A	Sampling Time	10:00 AM		
Matrix	Water	Sample Location	X7I0398-08A		
Comments	Sample Matrix Spike				

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	9.24	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromodichloromethane	10.4	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromoform	9.66	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromomethane	9.81	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Carbon disulfide	14.8	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Carbon Tetrachloride	10.5	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chlorobenzene	10.1	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloroethane	10.3	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloroform	10.1	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloromethane	9.93	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
cis-1,2-dichloroethene	10.1	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
cis-1,3-Dichloropropene	11.0	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dibromochloromethane	10.1	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dibromomethane	9.38	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dichlorodifluoromethane	10.5	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Ethylbenzene	10.4	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Hexachlorobutadiene	10.3	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Isopropylbenzene	10.3	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
m+p-Xylene	21.6	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	9.44	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	9.37	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Methylene chloride	9.47	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	10.1	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Naphthalene	10.1	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
n-Butylbenzene	11.3	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
n-Propylbenzene	10.7	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
o-Xylene	10.5	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
p-isopropyltoluene	10.9	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-008A	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMW-014-170913A	Sampling Time	10:00 AM		
Matrix	Water	Sample Location	X7I0398-08A		
Comments	Sample Matrix Spike				

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	10.8	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Styrene	9.39	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
tert-Butylbenzene	10.7	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Tetrachloroethene	10.0	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Toluene	10.4	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
trans-1,2-Dichloroethene	10.7	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
trans-1,3-Dichloropropene	9.77	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Trichloroethene	10.3	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Trichlorofluoromethane	10.5	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Vinyl Chloride	10.7	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

Surrogate Data

Sample Number	170918003-008A		
Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	98.4	70-130
4-Bromofluorobenzene	EPA 8260C	101.6	70-130
Toluene-d8	EPA 8260C	101.6	70-130

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-008B	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMW-014-170913B	Sampling Time	10:00 AM		
Matrix	Water	Sample Location	X7I0398-08B		
Comments	Sample Matrix Spike Duplicate				

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	9.75	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,1-Trichloroethane	10.0	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	9.91	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,2-Trichloroethane	9.97	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-Dichloroethane	10.0	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-Dichloroethene	10.2	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-dichloropropene	10.2	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	9.77	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,3-Trichloropropane	9.40	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	10.2	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	8.61	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	9.02	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dibromoethane	9.81	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichlorobenzene	9.69	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichloroethane	10.1	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichloropropane	10.3	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	8.75	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3-Dichlorobenzene	9.90	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3-Dichloropropane	10.3	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,4-Dichlorobenzene	9.83	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2,2-Dichloropropane	10.5	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2-Chlorotoluene	9.94	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2-hexanone	9.28	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
4-Chlorotoluene	10.1	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Acetone	8.01	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Acrylonitrile	9.29	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Benzene	9.66	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromobenzene	9.60	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-008B	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMW-014-170913B	Sampling Time	10:00 AM		
Matrix	Water	Sample Location	X7I0398-08B		
Comments	Sample Matrix Spike Duplicate				

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	9.00	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromodichloromethane	10.0	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromoform	9.19	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromomethane	9.65	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Carbon disulfide	13.9	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Carbon Tetrachloride	10.2	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chlorobenzene	9.84	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloroethane	9.95	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloroform	9.69	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloromethane	9.63	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
cis-1,2-dichloroethene	9.63	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
cis-1,3-Dichloropropene	10.7	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dibromochloromethane	9.64	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dibromomethane	9.31	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dichlorodifluoromethane	9.96	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Ethylbenzene	9.95	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Hexachlorobutadiene	9.83	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Isopropylbenzene	9.82	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
m+p-Xylene	19.4	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	9.34	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	9.35	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Methylene chloride	9.13	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	9.77	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Naphthalene	9.82	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
n-Butylbenzene	10.6	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
n-Propylbenzene	10.1	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
o-Xylene	9.74	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
p-isopropyltoluene	10.0	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-008B	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMW-014-170913B	Sampling Time	10:00 AM		
Matrix	Water	Sample Location	X7I0398-08B		
Comments	Sample Matrix Spike Duplicate				

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	10.1	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Styrene	7.76	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
tert-Butylbenzene	10.2	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Tetrachloroethene	9.27	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Toluene	9.81	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
trans-1,2-Dichloroethene	10.0	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
trans-1,3-Dichloropropene	9.97	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Trichloroethene	9.99	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Trichlorofluoromethane	10.4	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Vinyl Chloride	10.3	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

Surrogate Data

Sample Number	170918003-008B		
Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	98.0	70-130
4-Bromofluorobenzene	EPA 8260C	101.2	70-130
Toluene-d8	EPA 8260C	100.4	70-130

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-009	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMW-019R-170913	Sampling Time	1:10 PM		
Matrix	Water	Sample Location	X7I0398-09		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-009	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMW-019R-170913	Sampling Time	1:10 PM		
Matrix	Water	Sample Location	X7I0398-09		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Carbon disulfide	4.25	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-009	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMW-019R-170913	Sampling Time	1:10 PM		
Matrix	Water	Sample Location	X7I0398-09		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Trichlorofluoromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

Surrogate Data

Sample Number	170918003-009		
Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	98.0	70-130
4-Bromofluorobenzene	EPA 8260C	96.8	70-130
Toluene-d8	EPA 8260C	101.6	70-130

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-010	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMW-020-170913	Sampling Time	1:45 PM		
Matrix	Water	Sample Location	X7I0398-10		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-Dichloroethane	1.13	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-010	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMW-020-170913	Sampling Time	1:45 PM		
Matrix	Water	Sample Location	X7I0398-10		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Carbon disulfide	4.43	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dichlorodifluoromethane	2.54	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-010	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMW-020-170913	Sampling Time	1:45 PM		
Matrix	Water	Sample Location	X7I0398-10		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Trichlorofluoromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

Surrogate Data

Sample Number	170918003-010		
Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	101.2	70-130
4-Bromofluorobenzene	EPA 8260C	100.0	70-130
Toluene-d8	EPA 8260C	103.2	70-130

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-011	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMW-029-170913	Sampling Time	11:15 AM		
Matrix	Water	Sample Location	X7I0398-11		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-011	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMW-029-170913	Sampling Time	11:15 AM		
Matrix	Water	Sample Location	X7I0398-11		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Carbon disulfide	4.73	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dichlorodifluoromethane	1.37	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-011	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMW-029-170913	Sampling Time	11:15 AM		
Matrix	Water	Sample Location	X7I0398-11		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Tetrachloroethene	0.54	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Trichlorofluoromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

Surrogate Data

Sample Number	170918003-011		
Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	103.6	70-130
4-Bromofluorobenzene	EPA 8260C	96.0	70-130
Toluene-d8	EPA 8260C	93.2	70-130

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-012	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	MWS-1-1-170913	Sampling Time	8:50 AM		
Matrix	Water	Sample Location	X7I0398-12		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	9/26/2017	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	9/26/2017	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-012	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	MWS-1-1-170913	Sampling Time	8:50 AM		
Matrix	Water	Sample Location	X7I0398-12		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Carbon disulfide	4.85	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/26/2017	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/26/2017	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	9/26/2017	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-012	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	MWS-1-1-170913	Sampling Time	8:50 AM		
Matrix	Water	Sample Location	X7I0398-12		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Trichlorofluoromethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	

Surrogate Data

Sample Number	170918003-012		
Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	98.8	70-130
4-Bromofluorobenzene	EPA 8260C	99.6	70-130
Toluene-d8	EPA 8260C	102.8	70-130

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-013	Sampling Date	9/14/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMS-005-170914	Sampling Time	8:29 AM		
Matrix	Water	Sample Location	X7I0398-13		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,1-Dichloroethane	0.57	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	9/26/2017	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	9/26/2017	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-013	Sampling Date	9/14/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMS-005-170914	Sampling Time	8:29 AM		
Matrix	Water	Sample Location	X7I0398-13		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Carbon disulfide	4.62	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Dichlorodifluoromethane	0.60	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/26/2017	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/26/2017	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	9/26/2017	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-013	Sampling Date	9/14/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMS-005-170914	Sampling Time	8:29 AM		
Matrix	Water	Sample Location	X7I0398-13		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Trichlorofluoromethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	

Surrogate Data

Sample Number	170918003-013		
Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	99.6	70-130
4-Bromofluorobenzene	EPA 8260C	106.0	70-130
Toluene-d8	EPA 8260C	100.8	70-130

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-014	Sampling Date	9/14/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMW-016-170914	Sampling Time	8:35 AM		
Matrix	Water	Sample Location	X7I0398-14		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
1,1-Dichloroethane	5.85	ug/L	2	9/26/2017	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	9.46	ug/L	2	9/26/2017	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
1,2-Dichloroethane	2.80	ug/L	2	9/26/2017	SAT	EPA 8260C	
1,2-Dichloropropane	12.8	ug/L	2	9/26/2017	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	2.94	ug/L	2	9/26/2017	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
2-hexanone	ND	ug/L	10	9/26/2017	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
Acetone	1410	ug/L	10	9/26/2017	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
Benzene	12.9	ug/L	2	9/26/2017	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-014	Sampling Date	9/14/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMW-016-170914	Sampling Time	8:35 AM		
Matrix	Water	Sample Location	X7I0398-14		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
Bromoform	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
Bromomethane	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
Carbon disulfide	4.26	ug/L	2	9/26/2017	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
Chloroethane	10.9	ug/L	2	9/26/2017	SAT	EPA 8260C	
Chloroform	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
Chloromethane	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
cis-1,2-dichloroethene	19.9	ug/L	2	9/26/2017	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
Dichlorodifluoromethane	3.42	ug/L	2	9/26/2017	SAT	EPA 8260C	
Ethylbenzene	65.0	ug/L	2	9/26/2017	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
Isopropylbenzene	4.05	ug/L	2	9/26/2017	SAT	EPA 8260C	
m+p-Xylene	45.5	ug/L	2	9/26/2017	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	560	ug/L	10	9/26/2017	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	67.9	ug/L	10	9/26/2017	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	10	9/26/2017	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
Naphthalene	12.1	ug/L	2	9/26/2017	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
o-Xylene	20.3	ug/L	2	9/26/2017	SAT	EPA 8260C	
p-isopropyltoluene	7.97	ug/L	2	9/26/2017	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-014	Sampling Date	9/14/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMW-016-170914	Sampling Time	8:35 AM		
Matrix	Water	Sample Location	X7I0398-14		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
Styrene	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
Toluene	30.8	ug/L	2	9/26/2017	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
Trichlorofluoromethane	ND	ug/L	2	9/26/2017	SAT	EPA 8260C	
Vinyl Chloride	4.80	ug/L	2	9/26/2017	SAT	EPA 8260C	

Surrogate Data

Sample Number	170918003-014		
Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	99.6	70-130
4-Bromofluorobenzene	EPA 8260C	103.2	70-130
Toluene-d8	EPA 8260C	105.6	70-130

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-015	Sampling Date	9/14/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMW-023-170914	Sampling Time	9:43 AM		
Matrix	Water	Sample Location	X7I0398-15		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,1-Dichloroethane	4.57	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	9/26/2017	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	9/26/2017	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-015	Sampling Date	9/14/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMW-023-170914	Sampling Time	9:43 AM		
Matrix	Water	Sample Location	X7I0398-15		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Carbon disulfide	4.27	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
cis-1,2-dichloroethene	0.62	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Dichlorodifluoromethane	2.61	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/26/2017	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/26/2017	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	9/26/2017	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-015	Sampling Date	9/14/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMW-023-170914	Sampling Time	9:43 AM		
Matrix	Water	Sample Location	X7I0398-15		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Trichloroethene	0.51	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Trichlorofluoromethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	

Surrogate Data

Sample Number	170918003-015		
Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	102.8	70-130
4-Bromofluorobenzene	EPA 8260C	98.4	70-130
Toluene-d8	EPA 8260C	101.2	70-130

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-016	Sampling Date	9/14/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	MWS-1-2-170914	Sampling Time	9:21 AM		
Matrix	Water	Sample Location	X7I0398-16		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,1-Dichloroethane	4.48	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	9/26/2017	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	9/26/2017	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-016	Sampling Date	9/14/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	MWS-1-2-170914	Sampling Time	9:21 AM		
Matrix	Water	Sample Location	X7I0398-16		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Carbon disulfide	4.46	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
cis-1,2-dichloroethene	0.56	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Dichlorodifluoromethane	2.50	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/26/2017	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/26/2017	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	9/26/2017	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-016	Sampling Date	9/14/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	MWS-1-2-170914	Sampling Time	9:21 AM		
Matrix	Water	Sample Location	X7I0398-16		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Trichlorofluoromethane	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	9/26/2017	SAT	EPA 8260C	

Surrogate Data

Sample Number	170918003-016		
Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	98.8	70-130
4-Bromofluorobenzene	EPA 8260C	99.2	70-130
Toluene-d8	EPA 8260C	101.6	70-130

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-017	Sampling Date	9/14/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	MWS-2-1-170914	Sampling Time	12:00 AM		
Matrix	Water	Sample Location	X7I0398-17		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-017	Sampling Date	9/14/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	MWS-2-1-170914	Sampling Time	12:00 AM		
Matrix	Water	Sample Location	X7I0398-17		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Carbon disulfide	2.14	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	9/25/2017	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report

Sample Number	170918003-017	Sampling Date	9/14/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	MWS-2-1-170914	Sampling Time	12:00 AM		
Matrix	Water	Sample Location	X7I0398-17		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Trichlorofluoromethane	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	9/25/2017	SAT	EPA 8260C	

Surrogate Data

Sample Number	170918003-017			
Surrogate Standard	Method	Percent Recovery	Control Limits	
1,2-Dichlorobenzene-d4	EPA 8260C	98.0	70-130	
4-Bromofluorobenzene	EPA 8260C	98.8	70-130	
Toluene-d8	EPA 8260C	99.6	70-130	

Authorized Signature



Todd Taruscio, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

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The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

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Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
Vinyl Chloride	9.03	ug/L	10	90.3	80-120	9/25/2017	9/25/2017
Trichloroethene	9.76	ug/L	10	97.6	80-120	9/25/2017	9/25/2017
Toluene	9.69	ug/L	10	96.9	80-120	9/25/2017	9/25/2017
Tetrachloroethene	9.43	ug/L	10	94.3	80-120	9/25/2017	9/25/2017
o-Xylene	10.1	ug/L	10	101.0	80-120	9/25/2017	9/25/2017
Ethylbenzene	10.0	ug/L	10	100.0	80-120	9/25/2017	9/25/2017
cis-1,2-dichloroethene	9.71	ug/L	10	97.1	80-120	9/25/2017	9/25/2017
Chlorobenzene	9.96	ug/L	10	99.6	80-120	9/25/2017	9/25/2017
Benzene	9.74	ug/L	10	97.4	80-120	9/25/2017	9/25/2017
1,1-Dichloroethene	9.73	ug/L	10	97.3	80-120	9/25/2017	9/25/2017

Lab Control Sample Duplicate

Parameter	LCSD Result	Units	LCSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Trichloroethene	10.3	ug/L	10	103.0	5.4	0-25	9/25/2017	9/25/2017
Toluene	9.99	ug/L	10	99.9	3.0	0-25	9/25/2017	9/25/2017
Tetrachloroethene	9.70	ug/L	10	97.0	2.8	0-25	9/25/2017	9/25/2017
o-Xylene	11.0	ug/L	10	110.0	8.5	0-25	9/25/2017	9/25/2017
Ethylbenzene	10.7	ug/L	10	107.0	6.8	0-25	9/25/2017	9/25/2017
Chlorobenzene	9.85	ug/L	10	98.5	1.1	0-25	9/25/2017	9/25/2017
Benzene	10.0	ug/L	10	100.0	2.6	0-25	9/25/2017	9/25/2017
1,1-Dichloroethene	11.0	ug/L	10	110.0	12.3	0-25	9/25/2017	9/25/2017

Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
170918003-008	Vinyl Chloride	ND	10.7	ug/L	10	107.0	70-130	9/25/2017	9/25/2017
170918003-008	Trichloroethene	ND	10.3	ug/L	10	103.0	70-130	9/25/2017	9/25/2017
170918003-008	Toluene	ND	10.4	ug/L	10	104.0	70-130	9/25/2017	9/25/2017
170918003-008	Tetrachloroethene	ND	10.0	ug/L	10	100.0	70-130	9/25/2017	9/25/2017
170918003-008	o-Xylene	ND	10.5	ug/L	10	105.0	70-130	9/25/2017	9/25/2017
170918003-008	Ethylbenzene	ND	10.4	ug/L	10	104.0	70-130	9/25/2017	9/25/2017
170918003-008	cis-1,2-dichloroethene	ND	10.1	ug/L	10	101.0	70-130	9/25/2017	9/25/2017
170918003-008	Chlorobenzene	ND	10.1	ug/L	10	101.0	70-130	9/25/2017	9/25/2017
170918003-008	Benzene	ND	10.1	ug/L	10	101.0	70-130	9/25/2017	9/25/2017

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report Quality Control Data

Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
170918003-008	1,1-Dichloroethene	ND	10.6	ug/L	10	106.0	70-130	9/25/2017	9/25/2017

Matrix Spike Duplicate

Parameter	MSD Result	Units	MSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Vinyl Chloride	10.3	ug/L	10	103.0	3.8	0-25	9/25/2017	9/25/2017
Trichloroethene	9.99	ug/L	10	99.9	3.1	0-25	9/25/2017	9/25/2017
Toluene	9.81	ug/L	10	98.1	5.8	0-25	9/25/2017	9/25/2017
Tetrachloroethene	9.27	ug/L	10	92.7	7.6	0-25	9/25/2017	9/25/2017
o-Xylene	9.74	ug/L	10	97.4	7.5	0-25	9/25/2017	9/25/2017
Ethylbenzene	9.95	ug/L	10	99.5	4.4	0-25	9/25/2017	9/25/2017
cis-1,2-dichloroethene	9.63	ug/L	10	96.3	4.8	0-25	9/25/2017	9/25/2017
Chlorobenzene	9.84	ug/L	10	98.4	2.6	0-25	9/25/2017	9/25/2017
Benzene	9.66	ug/L	10	96.6	4.5	0-25	9/25/2017	9/25/2017
1,1-Dichloroethene	10.2	ug/L	10	102.0	3.8	0-25	9/25/2017	9/25/2017

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/25/2017	9/25/2017
1,1,1-Trichloroethane	ND	ug/L	0.5	9/25/2017	9/25/2017
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/25/2017	9/25/2017
1,1,2-Trichloroethane	ND	ug/L	0.5	9/25/2017	9/25/2017
1,1-Dichloroethane	ND	ug/L	0.5	9/25/2017	9/25/2017
1,1-Dichloroethene	ND	ug/L	0.5	9/25/2017	9/25/2017
1,1-dichloropropene	ND	ug/L	0.5	9/25/2017	9/25/2017
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/25/2017	9/25/2017
1,2,3-Trichloropropane	ND	ug/L	0.5	9/25/2017	9/25/2017
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/25/2017	9/25/2017
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/25/2017	9/25/2017
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/25/2017	9/25/2017
1,2-Dibromoethane	ND	ug/L	0.5	9/25/2017	9/25/2017
1,2-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	9/25/2017
1,2-Dichloroethane	ND	ug/L	0.5	9/25/2017	9/25/2017
1,2-Dichloropropane	ND	ug/L	0.5	9/25/2017	9/25/2017
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/25/2017	9/25/2017
1,3-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	9/25/2017

Comments:

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report Quality Control Data

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
1,3-Dichloropropane	ND	ug/L	0.5	9/25/2017	9/25/2017
1,4-Dichlorobenzene	ND	ug/L	0.5	9/25/2017	9/25/2017
2,2-Dichloropropane	ND	ug/L	0.5	9/25/2017	9/25/2017
2-Chlorotoluene	ND	ug/L	0.5	9/25/2017	9/25/2017
2-hexanone	ND	ug/L	2.5	9/25/2017	9/25/2017
4-Chlorotoluene	ND	ug/L	0.5	9/25/2017	9/25/2017
Acetone	ND	ug/L	2.5	9/25/2017	9/25/2017
Acrylonitrile	ND	ug/L	0.5	9/25/2017	9/25/2017
Benzene	ND	ug/L	0.5	9/25/2017	9/25/2017
Bromobenzene	ND	ug/L	0.5	9/25/2017	9/25/2017
Bromochloromethane	ND	ug/L	0.5	9/25/2017	9/25/2017
Bromodichloromethane	ND	ug/L	0.5	9/25/2017	9/25/2017
Bromoform	ND	ug/L	0.5	9/25/2017	9/25/2017
Bromomethane	ND	ug/L	0.5	9/25/2017	9/25/2017
Carbon disulfide	ND	ug/L	0.5	9/25/2017	9/25/2017
Carbon Tetrachloride	ND	ug/L	0.5	9/25/2017	9/25/2017
Chlorobenzene	ND	ug/L	0.5	9/25/2017	9/25/2017
Chloroethane	ND	ug/L	0.5	9/25/2017	9/25/2017
Chloroform	ND	ug/L	0.5	9/25/2017	9/25/2017
Chloromethane	ND	ug/L	0.5	9/25/2017	9/25/2017
cis-1,2-dichloroethene	ND	ug/L	0.5	9/25/2017	9/25/2017
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/25/2017	9/25/2017
Dibromochloromethane	ND	ug/L	0.5	9/25/2017	9/25/2017
Dibromomethane	ND	ug/L	0.5	9/25/2017	9/25/2017
Dichlorodifluoromethane	ND	ug/L	0.5	9/25/2017	9/25/2017
Ethylbenzene	ND	ug/L	0.5	9/25/2017	9/25/2017
Hexachlorobutadiene	ND	ug/L	0.5	9/25/2017	9/25/2017
Isopropylbenzene	ND	ug/L	0.5	9/25/2017	9/25/2017
m+p-Xylene	ND	ug/L	0.5	9/25/2017	9/25/2017
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/25/2017	9/25/2017
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/25/2017	9/25/2017
Methylene chloride	ND	ug/L	2.5	9/25/2017	9/25/2017
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/25/2017	9/25/2017
Naphthalene	ND	ug/L	0.5	9/25/2017	9/25/2017
n-Butylbenzene	ND	ug/L	0.5	9/25/2017	9/25/2017
n-Propylbenzene	ND	ug/L	0.5	9/25/2017	9/25/2017
o-Xylene	ND	ug/L	0.5	9/25/2017	9/25/2017

Comments:

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report Quality Control Data

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
p-isopropyltoluene	ND	ug/L	0.5	9/25/2017	9/25/2017
sec-Butylbenzene	ND	ug/L	0.5	9/25/2017	9/25/2017
Styrene	ND	ug/L	0.5	9/25/2017	9/25/2017
tert-Butylbenzene	ND	ug/L	0.5	9/25/2017	9/25/2017
Tetrachloroethene	ND	ug/L	0.5	9/25/2017	9/25/2017
Toluene	ND	ug/L	0.5	9/25/2017	9/25/2017
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/25/2017	9/25/2017
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/25/2017	9/25/2017
Trichloroethene	ND	ug/L	0.5	9/25/2017	9/25/2017
Trichlorofluoromethane	ND	ug/L	0.5	9/25/2017	9/25/2017
Vinyl Chloride	ND	ug/L	0.5	9/25/2017	9/25/2017

AR Acceptable Range
ND Not Detected
PQL Practical Quantitation Limit
RPD Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; NV:ID00013; OR:ID200001-002; WA:C595
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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn:

Batch #: 170918003
Project Name: SVL #X7I0398

Analytical Results Report

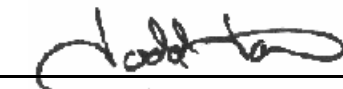
Sample Number	170918003-004	Sampling Date	9/13/2017	Date/Time Received	9/15/2017 11:36 AM
Client Sample ID	GWMS-004-170913	Sampling Time	12:29 PM	Extraction Date	9/18/2017
Matrix	Water	Sample Location	X7I0398-04		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
bis(2-Ethylhexyl)phthalate	ND	ug/L	0.5	9/22/2017	TGT	EPA 8270D	

Surrogate Data

Sample Number	Surrogate Standard	Method	Percent Recovery	Control Limits
170918003-004	2,4,6-Tribromophenol	EPA 8270D	68.8	43-120
	2-Fluorobiphenyl	EPA 8270D	65.2	55-127
	2-Fluorophenol	EPA 8270D	59.6	41-119
	Nitrobenzene-d5	EPA 8270D	69.2	55-120
	Phenol-d5	EPA 8270D	63.2	52-115
	Terphenyl-d14	EPA 8270D	102.8	22-133

Authorized Signature



Todd Taruscio, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005

Batch #: 170918003
Project Name: SVL #X7I0398

Attn:

Analytical Results Report Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
bis(2-Ethylhexyl)phthalate	5.94	ug/L	5	118.8	51-149	9/18/2017	9/22/2017

Lab Control Sample Duplicate

Parameter	LCSD Result	Units	LCSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
bis(2-Ethylhexyl)phthalate	6.42	ug/L	5	128.4	7.8	0-50	9/18/2017	9/22/2017

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
bis(2-Ethylhexyl)phthalate	ND	ug/L	0.5	9/18/2017	9/22/2017

AR Acceptable Range
ND Not Detected
PQL Practical Quantitation Limit
RPD Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; NV:ID00013; OR:ID200001-002; WA:C595
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Login Report

Customer Name: SPOKANE COUNTY UTILITIES

Order ID: 170918003

22515 N. ELK CHATTAROY ROAD

Order Date: 9/18/2017

COLBERT

WA

99005

Contact Name:

Project Name: SVL #X7I0398

Comment:

Sample #: 170918003-001 **Customer Sample #:** GWDW-001-170913

Recv'd:



Matrix: Water

Collector:

Date Collected: 9/13/2017

Quantity: 3

Date Received: 9/15/2017 11:36:00 AM

Time Collected: 8:30 AM

Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	9/27/2017	<u>Normal (~10 Days)</u>

Sample #: 170918003-002 **Customer Sample #:** GWDW-002-170913

Recv'd:



Matrix: Water

Collector:

Date Collected: 9/13/2017

Quantity: 3

Date Received: 9/15/2017 11:36:00 AM

Time Collected: 9:41 AM

Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	9/27/2017	<u>Normal (~10 Days)</u>

Sample #: 170918003-003 **Customer Sample #:** GWDW-003-170913

Recv'd:



Matrix: Water

Collector:

Date Collected: 9/13/2017

Quantity: 3

Date Received: 9/15/2017 11:36:00 AM

Time Collected: 10:39 AM

Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	9/27/2017	<u>Normal (~10 Days)</u>

Customer Name: SPOKANE COUNTY UTILITIES
22515 N. ELK CHATTAROY ROAD
COLBERT WA 99005

Order ID: 170918003
Order Date: 9/18/2017

Contact Name:

Project Name: SVL #X7I0398

Comment:

Sample #: 170918003-004 **Customer Sample #:** GWMS-004-170913

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 9/13/2017
Quantity: 4 **Date Received:** 9/15/2017 11:36:00 AM **Time Collected:** 12:29 PM
Comment:

Test	Lab	Method	Due Date	Priority
SVOC 8270D MOSC	M	EPA 8270D	9/27/2017	<u>Normal (~10 Days)</u>
VOC 8260 MOSC	M	EPA 8260C	9/27/2017	<u>Normal (~10 Days)</u>

Sample #: 170918003-005 **Customer Sample #:** GWMW-009-170913

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 9/13/2017
Quantity: 3 **Date Received:** 9/15/2017 11:36:00 AM **Time Collected:** 8:44 AM
Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	9/27/2017	<u>Normal (~10 Days)</u>

Sample #: 170918003-006 **Customer Sample #:** GWMW-010-170913

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 9/13/2017
Quantity: 3 **Date Received:** 9/15/2017 11:36:00 AM **Time Collected:** 9:55 AM
Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	9/27/2017	<u>Normal (~10 Days)</u>

Sample #: 170918003-007 **Customer Sample #:** GWMW-013-170913

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 9/13/2017
Quantity: 3 **Date Received:** 9/15/2017 11:36:00 AM **Time Collected:** 12:00 PM
Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	9/27/2017	<u>Normal (~10 Days)</u>

Customer Name: SPOKANE COUNTY UTILITIES
22515 N. ELK CHATTAROY ROAD
COLBERT WA 99005

Order ID: 170918003
Order Date: 9/18/2017

Contact Name:

Project Name: SVL #X7I0398

Comment:

Sample #: 170918003-008 **Customer Sample #:** GWMW-014-170913

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 9/13/2017
Quantity: 3 **Date Received:** 9/15/2017 11:36:00 AM **Time Collected:** 10:00 AM
Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	9/27/2017	<u>Normal (~10 Days)</u>

Sample #: 170918003-008A **Customer Sample #:** GWMW-014-170913A

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 9/13/2017
Quantity: 3 **Date Received:** 9/15/2017 11:36:00 AM **Time Collected:** 10:00 AM
Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	9/27/2017	<u>Normal (~10 Days)</u>

Sample #: 170918003-008B **Customer Sample #:** GWMW-014-170913B

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 9/13/2017
Quantity: 3 **Date Received:** 9/15/2017 11:36:00 AM **Time Collected:** 10:00 AM
Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	9/27/2017	<u>Normal (~10 Days)</u>

Sample #: 170918003-009 **Customer Sample #:** GWMW-019R-170913

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 9/13/2017
Quantity: 3 **Date Received:** 9/15/2017 11:36:00 AM **Time Collected:** 1:10 PM
Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	9/27/2017	<u>Normal (~10 Days)</u>

Customer Name: SPOKANE COUNTY UTILITIES
22515 N. ELK CHATTAROY ROAD
COLBERT WA 99005

Order ID: 170918003
Order Date: 9/18/2017

Contact Name:

Project Name: SVL #X7I0398

Comment:

Sample #: 170918003-010 **Customer Sample #:** GWMW-020-170913

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 9/13/2017
Quantity: 3 **Date Received:** 9/15/2017 11:36:00 AM **Time Collected:** 1:45 PM
Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	9/27/2017	<u>Normal (~10 Days)</u>

Sample #: 170918003-011 **Customer Sample #:** GWMW-029-170913

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 9/13/2017
Quantity: 3 **Date Received:** 9/15/2017 11:36:00 AM **Time Collected:** 11:15 AM
Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	9/27/2017	<u>Normal (~10 Days)</u>

Sample #: 170918003-012 **Customer Sample #:** MWS-1-1-170913

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 9/13/2017
Quantity: 3 **Date Received:** 9/15/2017 11:36:00 AM **Time Collected:** 8:50 AM
Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	9/27/2017	<u>Normal (~10 Days)</u>

Sample #: 170918003-013 **Customer Sample #:** GWMS-005-170914

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 9/14/2017
Quantity: 3 **Date Received:** 9/15/2017 11:36:00 AM **Time Collected:** 8:29 AM
Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	9/27/2017	<u>Normal (~10 Days)</u>

Customer Name: SPOKANE COUNTY UTILITIES
22515 N. ELK CHATTAROY ROAD
COLBERT WA 99005

Order ID: 170918003
Order Date: 9/18/2017

Contact Name:

Project Name: SVL #X7I0398

Comment:

Sample #: 170918003-014 **Customer Sample #:** GWMW-016-170914

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 9/14/2017
Quantity: 3 **Date Received:** 9/15/2017 11:36:00 AM **Time Collected:** 8:35 AM
Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	9/27/2017	<u>Normal (~10 Days)</u>

Sample #: 170918003-015 **Customer Sample #:** GWMW-023-170914

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 9/14/2017
Quantity: 3 **Date Received:** 9/15/2017 11:36:00 AM **Time Collected:** 9:43 AM
Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	9/27/2017	<u>Normal (~10 Days)</u>

Sample #: 170918003-016 **Customer Sample #:** MWS-1-2-170914

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 9/14/2017
Quantity: 3 **Date Received:** 9/15/2017 11:36:00 AM **Time Collected:** 9:21 AM
Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	9/27/2017	<u>Normal (~10 Days)</u>

Sample #: 170918003-017 **Customer Sample #:** MWS-2-1-170914

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 9/14/2017
Quantity: 2 **Date Received:** 9/15/2017 11:36:00 AM **Time Collected:**
Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	9/27/2017	<u>Normal (~10 Days)</u>

Customer Name: SPOKANE COUNTY UTILITIES
22515 N. ELK CHATTAROY ROAD
COLBERT WA 99005

Order ID: 170918003
Order Date: 9/18/2017

Contact Name:

Project Name: SVL #X7I0398

Comment:

SAMPLE CONDITION RECORD

Samples received in a cooler?	Yes
Samples received intact?	Yes
What is the temperature of the sample(s)? (°C)	1.8
Samples received with a COC?	Yes
Samples received within holding time?	Yes
Are all sample bottles properly preserved?	Yes
Are VOC samples free of headspace?	Yes
Is there a trip blank to accompany VOC samples?	Yes
Labels and chain agree?	Yes
Total number of containers?	57



One Government Gulch - PO Box 929 Kellogg ID 83837-0929

(208) 784-1248 Fax (208) 783-0891

Subcontract Order

X7I0398

Sending Laboratory:

SVL Analytical, Inc.
One Government Gulch
PO Box 929
Kellogg, ID 83837-0929
Phone: 208-784-1258
Fax: 208-783-0891
Project Manager: Christine Meyer

Client:

Spokane County Environmental Services
(Colbert)
Project:
Routine

Receiving Laboratory:

Anatek Labs (ID)
1282 Alturas Drive
Moscow, ID 83843
Phone: 208-883-2839
Fax: 208-882-9246

Report and Invoice to SVL Analytical, Inc.

Analysis	Due	HT Expires		
SVL ID: X7I0398-01 Client ID: GWDW-001-170913			Ground Water	Sampled: 13-Sep-17 08:30
VOC 8260B	29-Sep-17	27-Sep-17 08:30	DEDICATED QC	
Containers Supplied:				
HCl VOA glass (A)				
HCl VOA glass (B)				
HCl VOA glass (C)				
SVL ID: X7I0398-02 Client ID: GWDW-002-170913			Ground Water	Sampled: 13-Sep-17 09:41
VOC 8260B	29-Sep-17	27-Sep-17 09:41	DEDICATED QC	
Containers Supplied:				
HCl VOA glass (A)				
HCl VOA glass (B)				
HCl VOA glass (C)				
SVL ID: X7I0398-03 Client ID: GWDW-003-170913			Ground Water	Sampled: 13-Sep-17 10:39
VOC 8260B	29-Sep-17	27-Sep-17 10:39	DEDICATED QC	
Containers Supplied:				
HCl VOA glass (A)				
HCl VOA glass (B)				
HCl VOA glass (C)				
SVL ID: X7I0398-04 Client ID: GWMS-004-170913			Ground Water	Sampled: 13-Sep-17 12:29
SVOC EPA 8270C	29-Sep-17	27-Sep-17 12:29	DEDICATED QC	
VOC 8260B	29-Sep-17	27-Sep-17 12:29	DEDICATED QC	
Containers Supplied:				
HCl VOA glass (A)				
HCl VOA glass (B)				
HCl VOA glass (C)				
Raw Amber Glass (D)				
SVL ID: X7I0398-05 Client ID: GWMW-009-170913			Ground Water	Sampled: 13-Sep
VOC 8260B	29-Sep-17	27-Sep-17 08:44	DEDICATED QC	
Containers Supplied:				
HCl VOA glass (A)				
HCl VOA glass (B)				
HCl VOA glass (C)				

MWB

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

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

170918 003 SCOU
1st SAMP 9/13/2017 1st RCVD 9/15/2017
SVL #X7I0398
Last Due 9/27/2017

**Subcontract Order****X7I0398**

Analysis	Due	HT Expires		
SVL ID: X7I0398-06 Client ID: GMMW-010-170913			Ground Water	Sampled: 13-Sep-17 09:55
VOC 8260B	29-Sep-17	27-Sep-17 09:55	DEDICATED QC	
Containers Supplied:				
HCl VOA glass (A)				
HCl VOA glass (B)				
HCl VOA glass (C)				
SVL ID: X7I0398-07 Client ID: GMMW-013-170913			Ground Water	Sampled: 13-Sep-17 12:00
VOC 8260B	29-Sep-17	27-Sep-17 12:00	DEDICATED QC	
Containers Supplied:				
HCl VOA glass (A)				
HCl VOA glass (B)				
HCl VOA glass (C)				
SVL ID: X7I0398-08 Client ID: GMMW-014-170913			Ground Water	Sampled: 13-Sep-17 10:00
VOC 8260B	29-Sep-17	27-Sep-17 10:00	DEDICATED QC	
Containers Supplied:				
HCl VOA glass (A)				
HCl VOA glass (B)				
HCl VOA glass (C)				
SVL ID: X7I0398-09 Client ID: GMMW-019R-170913			Ground Water	Sampled: 13-Sep-17 13:10
VOC 8260B	29-Sep-17	27-Sep-17 13:10	DEDICATED QC	
Containers Supplied:				
HCl VOA glass (A)				
HCl VOA glass (B)				
HCl VOA glass (C)				
SVL ID: X7I0398-10 Client ID: GMMW-020-170913			Ground Water	Sampled: 13-Sep-17 13:45
VOC 8260B	29-Sep-17	27-Sep-17 13:45	DEDICATED QC	
Containers Supplied:				
HCl VOA glass (A)				
HCl VOA glass (B)				
HCl VOA glass (C)				
SVL ID: X7I0398-11 Client ID: GMMW-029-170913			Ground Water	Sampled: 13-Sep-17 11:15
VOC 8260B	29-Sep-17	27-Sep-17 11:15	DEDICATED QC	
Containers Supplied:				
HCl VOA glass (A)				
HCl VOA glass (B)				
HCl VOA glass (C)				
SVL ID: X7I0398-12 Client ID: MWS-1-1-170913			Ground Water	Sampled: 13-Sep-17 08:50
VOC 8260B	29-Sep-17	27-Sep-17 08:50	DEDICATED QC	
Containers Supplied:				
HCl VOA glass (A)				
HCl VOA glass (B)				
HCl VOA glass (C)				

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

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

**Subcontract Order****X7I0398**

Analysis	Due	HT Expires		
SVL ID: X7I0398-13	Client ID: GWMS-005-170914		Ground Water	Sampled: 14-Sep-17 08:29
VOC 8260B	29-Sep-17	28-Sep-17 08:29	DEDICATED QC	
Containers Supplied:				
HCl VOA glass (A)				
HCl VOA glass (B)				
HCl VOA glass (C)				
SVL ID: X7I0398-14	Client ID: GMMW-016-170914		Ground Water	Sampled: 14-Sep-17 08:35
VOC 8260B	29-Sep-17	28-Sep-17 08:35	DEDICATED QC	
Containers Supplied:				
HCl VOA glass (A)				
HCl VOA glass (B)				
HCl VOA glass (C)				
SVL ID: X7I0398-15	Client ID: GMMW-023-170914		Ground Water	Sampled: 14-Sep-17 09:43
VOC 8260B	29-Sep-17	28-Sep-17 09:43	DEDICATED QC	
Containers Supplied:				
HCl VOA glass (A)				
HCl VOA glass (B)				
HCl VOA glass (C)				
SVL ID: X7I0398-16	Client ID: MWS-1-2-170914		Ground Water	Sampled: 14-Sep-17 09:21
VOC 8260B	29-Sep-17	28-Sep-17 09:21	DEDICATED QC	
Containers Supplied:				
HCl VOA glass (A)				
HCl VOA glass (B)				
HCl VOA glass (C)				
SVL ID: X7I0398-17	Client ID: MWS-2-1-170914		Water	Sampled: 14-Sep-17 00:00
VOC 8260B	29-Sep-17	28-Sep-17 00:00	DEDICATED QC	
Containers Supplied:				
HCl VOA glass (A)				
HCl VOA glass (B)				

Analysis Prices

\$ 150⁰⁰ SVOC EPA 8270C\$ 100⁰⁰ VOC 8260B

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

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

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

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

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

SHIPPING CO: UPS
SHIPPING # K6645909924
OF COOLERS: 1
DATE: 9/14/2017
PAGE 1 **OF** 2

PARAMETERS:	DATE	TIME	VOLATILES		SEMI VOLATILES		SAMPLERS:	COMMENTS
			8260B	8270C	BEHP	8270C		
METHOD:							GODDIE F HEVAN M MIKE T	
BOTTLES:			3-40 ml.		1 LITER			
LAB:			VOA'S		AMBER GLASS			
			ANATEK LAB		ANATEK LAB			
PRESERVATION:			HCl pH<2		UNPRESERVED			
SAMPLE IDENTIFICATION							NUMBER OF BOTTLES	COOLER NUMBER
1 GWDN-001-170913	9-13-17	0830	X				3	19
2 GWDN-002-170913		0941	X				3	19
3 GWDN-003-170913		1039	X				3	19
4 GWM5-004-170913		1209	X				4	19
5 GWMW-009-170913		0844	X				3	19
6 GWMW-010-170913		0955	X				3	19
7 GWMW-013-170913		1200	X				3	19
8 GWMW-014-170913		1000	X				3	19
9 GWMW-019R-170913		1310	X				3	19
10 GWMW-020-170913		1345	X				3	19
11 GWMW-029-170913		1115	X				3	19

COMMENTS: Please fax or e-mail a sample condition report to Casi and Mike ASAP (509) 238-6812 mter.

RELINQUISHED BY: Mike Dea
SIGNATURE: Mike Dea
DATE: 9/14/2017
PRINT NAME: MIKE S. TENNIS
TIME: 1300
COMPANY: SPOKANE COUNTY UTILITIES LANDFILL CLOSURE

RECEIVED BY:
SIGNATURE:
PRINT NAME:
COMPANY:

ANATEK LABS RECEIVING LIST

☒ RECEIVED INTACT
☒ LABELS & CHAINS AGREE
☒ NO HEADSPACE
☒ ICE / ICE-PACKS PRESENT
☒ CUSTODY SEALS PRESENT

TEMP: 1.8 °C
THERM #1

PRESERVATIVES: HCL

NUMBER OF CONTAINERS: 57
SHIPPED VIA: UPS
DATE & TIME: 9/15/17 1136
INSPECTED BY: CE

DATE: 9-14-17
PAGE 2 OF 2

[illegible]

APPENDIX B DATA SUMMARY ANALYSIS

Mica Landfill Summary Statistic 2016

StationID	Analyte	Count	Average	Min	Max	StDev	N Detects	N NonDetects	N Exceedances
DW-001	1,2-Dichloroethane	88	0.00	0.00	0.00	0.00	0	88	0
DW-001	1,2-Dichloropropane	88	0.00	0.00	0.00	0.00	0	88	0
DW-001	Acetone	88	0.00	0.00	0.00	0.00	0	88	0
DW-001	Alkalinity	88	150	130	189	10	88	0	0
DW-001	Ammonia	88	0.01	0.00	0.27	0.04	18	70	0
DW-001	Arsenic	89	0.001	0.000	0.004	0.001	34	55	0
DW-001	Barium	89	0.009	0.000	0.021	0.005	85	4	0
DW-001	Benzene	88	0.00	0.00	0.00	0.00	0	88	0
DW-001	bis(2-Ethylhexyl)Phthalate	48	1.90	0.00	17.00	4.57	12	36	6
DW-001	Chloride	89	2	0	7	1	87	2	0
DW-001	cis-1,2-dichloroethene	85	0.00	0.00	0.00	0.00	0	85	0
DW-001	Ethylbenzene	79	0.00	0.00	0.00	0.00	0	79	0
DW-001	Lead	89	0.001	0.000	0.034	0.004	20	69	0
DW-001	m,p-Xylene	49	0.00	0.00	0.00	0.00	0	49	0
DW-001	Manganese	89	0.013	0.000	0.068	0.012	78	11	0
DW-001	Mercury	87	0.0000	0.0000	0.0000	0.0000	0	87	0
DW-001	Methylene Chloride	88	0.00	0.00	0.00	0.00	0	88	0
DW-001	N-Nitrate	89	0.05	0.00	0.24	0.05	62	27	0
DW-001	o-Xylene	76	0.00	0.00	0.00	0.00	0	76	0
DW-001	Sulfate	58	8.45	0.00	11.80	1.68	57	1	0
DW-001	Tetrachloroethene	88	0.00	0.00	0.00	0.00	0	88	0
DW-001	Toluene	88	0.00	0.00	0.00	0.00	0	88	0
DW-001	Total Dissolved Solids	2	189	188	190	1	2	0	0
DW-001	Total Organic Carbon	87	0.50	0.00	6.10	1.09	24	63	0
DW-001	Trichloroethene	88	0.00	0.00	0.00	0.00	0	88	0
DW-001	Vanadium	87	0.000	0.000	0.000	0.000	0	87	0
DW-001	Vinyl Chloride	88	0.00	0.00	0.00	0.00	0	88	0
DW-001	Xylene	30	0.00	0.00	0.00	0.00	0	30	0
DW-001	Zinc	92	0.846	0.081	7.180	1.114	92	0	0
DW-002	1,2-Dichloroethane	89	0.00	0.00	0.00	0.00	0	89	0
DW-002	1,2-Dichloropropane	89	0.00	0.00	0.00	0.00	0	89	0
DW-002	Acetone	89	0.00	0.00	0.00	0.00	0	89	0
DW-002	Alkalinity	104	155	144	180	6	104	0	0

Mica Landfill Summary Statistic 2016

StationID	Analyte	Count	Average	Min	Max	StDev	N Detects	N NonDetects	N Exceedances
DW-002	Ammonia	94	0.01	0.00	0.28	0.03	19	75	0
DW-002	Arsenic	90	0.000	0.000	0.000	0.000	0	90	0
DW-002	Barium	117	0.036	0.000	0.044	0.005	116	1	0
DW-002	Benzene	89	0.00	0.00	0.00	0.00	0	89	0
DW-002	bis(2-Ethylhexyl)Phthalate	30	0.11	0.00	1.70	0.42	2	28	0
DW-002	Chloride	107	10	5	15	2	107	0	0
DW-002	cis-1,2-dichloroethene	86	0.00	0.00	0.00	0.00	0	86	0
DW-002	Ethylbenzene	80	0.00	0.00	0.00	0.00	0	80	0
DW-002	Lead	91	0.000	0.000	0.023	0.003	4	87	0
DW-002	m,p-Xylene	51	0.00	0.00	0.15	0.02	1	50	0
DW-002	Manganese	97	0.003	0.000	0.033	0.006	47	50	0
DW-002	Mercury	90	0.0000	0.0000	0.0000	0.0000	0	90	0
DW-002	Methylene Chloride	90	0.00	0.00	0.12	0.01	1	89	0
DW-002	N-Nitrate	107	1.37	0.85	2.32	0.25	107	0	0
DW-002	o-Xylene	77	0.00	0.00	0.00	0.00	0	77	0
DW-002	Sulfate	82	5.58	0.00	8.10	0.86	81	1	0
DW-002	Tetrachloroethene	89	0.00	0.00	0.00	0.00	0	89	0
DW-002	Toluene	89	0.01	0.00	0.59	0.06	1	88	0
DW-002	Total Dissolved Solids	4	211	200	220	8	4	0	0
DW-002	Total Organic Carbon	100	1	0	13	1	37	63	0
DW-002	Trichloroethene	89	0.00	0.00	0.00	0.00	0	89	0
DW-002	Vanadium	90	0.000	0.000	0.000	0.000	0	90	0
DW-002	Vinyl Chloride	89	0.00	0.00	0.00	0.00	0	89	0
DW-002	Xylene	30	0.00	0.00	0.00	0.00	0	30	0
DW-002	Zinc	106	0.080	0.000	1.050	0.179	69	37	0
DW-003	1,2-Dichloroethane	91	0.00	0.00	0.00	0.00	0	91	0
DW-003	1,2-Dichloropropane	91	0.00	0.00	0.00	0.00	0	91	0
DW-003	Acetone	91	0.00	0.00	0.00	0.00	0	91	0
DW-003	Alkalinity	93	185	170	207	6	93	0	0
DW-003	Ammonia	92	0.03	0.00	1.94	0.20	21	71	0
DW-003	Arsenic	89	0.000	0.000	0.000	0.000	0	89	0
DW-003	Barium	95	0.028	0.000	0.032	0.003	94	1	0
DW-003	Benzene	91	0.00	0.00	0.00	0.00	0	91	0

Mica Landfill Summary Statistic 2016

StationID	Analyte	Count	Average	Min	Max	StDev	N Detects	N NonDetects	N Exceedances
DW-003	bis(2-Ethylhexyl)Phthalate	30	0.39	0.00	8.20	1.56	3	27	1
DW-003	Chloride	95	1	0	22	2	80	15	0
DW-003	cis-1,2-dichloroethene	88	0.00	0.00	0.00	0.00	0	88	0
DW-003	Ethylbenzene	82	0.00	0.00	0.00	0.00	0	82	0
DW-003	Lead	90	0.001	0.000	0.007	0.001	32	58	0
DW-003	m,p-Xylene	51	0.00	0.00	0.00	0.00	0	51	0
DW-003	Manganese	91	0.000	0.000	0.002	0.000	6	85	0
DW-003	Mercury	89	0.0000	0.0000	0.0000	0.0000	0	89	0
DW-003	Methylene Chloride	91	0.00	0.00	0.30	0.03	1	90	0
DW-003	N-Nitrate	94	0.78	0.00	7.40	1.06	93	1	0
DW-003	o-Xylene	79	0.00	0.00	0.00	0.00	0	79	0
DW-003	Sulfate	64	0.62	0.00	1.90	0.38	58	6	0
DW-003	Tetrachloroethene	91	0.00	0.00	0.00	0.00	0	91	0
DW-003	Toluene	91	0.00	0.00	0.00	0.00	0	91	0
DW-003	Total Dissolved Solids	2	205	200	210	7	2	0	0
DW-003	Total Organic Carbon	90	0	0	3	1	15	75	0
DW-003	Trichloroethene	91	0.00	0.00	0.00	0.00	0	91	0
DW-003	Vanadium	89	0.000	0.000	0.002	0.000	2	87	0
DW-003	Vinyl Chloride	91	0.00	0.00	0.00	0.00	0	91	0
DW-003	Xylene	31	0.00	0.00	0.00	0.00	0	31	0
DW-003	Zinc	97	0.254	0.043	0.774	0.128	97	0	0
MS-004	1,2-Dichloroethane	89	0.00	0.00	0.00	0.00	0	89	0
MS-004	1,2-Dichloropropane	89	0.00	0.00	0.00	0.00	0	89	0
MS-004	Acetone	89	0	0	0	0	0	89	0
MS-004	Alkalinity	60	72	47	99	9	60	0	0
MS-004	Ammonia	89	0.01	0.00	0.33	0.04	18	71	0
MS-004	Arsenic	89	0.000	0.000	0.006	0.001	3	86	0
MS-004	Barium	89	0.05	0.00	0.08	0.01	88	1	0
MS-004	Benzene	89	0.00	0.00	0.00	0.00	0	89	0
MS-004	bis(2-Ethylhexyl)Phthalate	41	1.126	0.000	11.100	2.221	14	27	2
MS-004	Chloride	60	1.04	0.00	23.00	3.12	40	20	0
MS-004	cis-1,2-dichloroethene	86	0.00	0.00	0.00	0.00	0	86	0
MS-004	Ethylbenzene	80	0.00	0.00	0.00	0.00	0	80	0

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StationID	Analyte	Count	Average	Min	Max	StDev	N Detects	N NonDetects	N Exceedances
MS-004	Lead	89	0	0	0	0	12	77	0
MS-004	m,p-Xylene	50	0.00	0.00	0.00	0.00	0	50	0
MS-004	Manganese	89	0.021	0.000	0.234	0.039	71	18	0
MS-004	Mercury	89	0.000	0.000	0.001	0.000	1	88	0
MS-004	Methylene Chloride	89	0.00	0.00	0.00	0.00	0	89	0
MS-004	N-Nitrate	61	4.26	0.91	6.45	1.73	61	0	0
MS-004	o-Xylene	77	0	0	0	0	0	77	0
MS-004	Sulfate	60	10.67	4.10	20.00	2.67	60	0	0
MS-004	Tetrachloroethene	89	0.00	0.00	0.00	0.00	0	89	0
MS-004	Toluene	89	0.000	0.000	0.000	0.000	0	89	0
MS-004	Total Dissolved Solids	59	154.56	78.00	211.00	25.54	59	0	0
MS-004	Total Organic Carbon	89	1.074	0.000	3.700	0.967	59	30	0
MS-004	Trichloroethene	89	0.0000	0.0000	0.0000	0.0000	0	89	0
MS-004	Vanadium	89	0.00	0.00	0.00	0.00	5	84	0
MS-004	Vinyl Chloride	89	0.00	0.00	0.00	0.00	0	89	0
MS-004	Xylene	30	0.00	0.00	0.00	0.00	0	30	0
MS-004	Zinc	89	0.00	0.00	0.22	0.02	15	74	0
MS-005	1,2-Dichloroethane	89	0.00	0.00	0.00	0.00	0	89	0
MS-005	1,2-Dichloropropane	90	0.00	0.00	0.20	0.03	3	87	0
MS-005	Acetone	89	0	0	3	0	1	88	0
MS-005	Alkalinity	75	143	100	176	21	75	0	0
MS-005	Ammonia	103	0.01	0.00	0.53	0.05	23	80	0
MS-005	Arsenic	90	0.000	0.000	0.001	0.000	2	88	0
MS-005	Barium	112	0.09	0.04	0.12	0.02	112	0	0
MS-005	Benzene	89	0.00	0.00	0.00	0.00	0	89	0
MS-005	bis(2-Ethylhexyl)Phthalate	36	0.461	0.000	7.300	1.488	5	31	1
MS-005	Chloride	81	47.48	3.00	86.50	21.41	81	0	0
MS-005	cis-1,2-dichloroethene	88	0.15	0.00	0.60	0.21	31	57	0
MS-005	Ethylbenzene	80	0.00	0.00	0.00	0.00	0	80	0
MS-005	Lead	90	0	0	0	0	0	90	0
MS-005	m,p-Xylene	50	0.00	0.00	0.00	0.00	0	50	0
MS-005	Manganese	100	0.001	0.000	0.023	0.004	25	75	0
MS-005	Mercury	90	0.000	0.000	0.000	0.000	0	90	0

Mica Landfill Summary Statistic 2016

StationID	Analyte	Count	Average	Min	Max	StDev	N Detects	N NonDetects	N Exceedances
MS-005	Methylene Chloride	94	0.30	0.00	1.40	0.45	34	60	0
MS-005	N-Nitrate	75	5.80	0.85	17.10	3.46	75	0	0
MS-005	o-Xylene	77	0	0	0	0	0	77	0
MS-005	Sulfate	72	29.49	9.80	61.10	14.28	72	0	0
MS-005	Tetrachloroethene	93	0.19	0.00	0.90	0.25	39	54	1
MS-005	Toluene	89	0.000	0.000	0.000	0.000	0	89	0
MS-005	Total Dissolved Solids	78	391.72	202.00	1000.00	101.38	78	0	0
MS-005	Total Organic Carbon	118	1.834	0.000	12.200	1.550	97	21	0
MS-005	Trichloroethene	93	0.4790	0.0000	1.6000	0.5342	46	47	0
MS-005	Vanadium	92	0.00	0.00	0.00	0.00	16	76	0
MS-005	Vinyl Chloride	89	0.00	0.00	0.00	0.00	0	89	0
MS-005	Xylene	30	0.00	0.00	0.00	0.00	0	30	0
MS-005	Zinc	90	0.00	0.00	0.15	0.02	13	77	0
MW-009	1,2-Dichloroethane	89	0.0225	0.0000	2.0000	0.2120	1	88	1
MW-009	1,2-Dichloropropane	89	0.00	0.00	0.00	0.00	0	89	0
MW-009	Acetone	89	0.00	0.00	0.00	0.00	0	89	0
MW-009	Alkalinity	69	272.77	193.00	440.00	51.66	69	0	0
MW-009	Ammonia	95	0.02	0.00	0.64	0.07	25	70	0
MW-009	Arsenic	90	0.00	0.00	0.00	0.00	2	88	0
MW-009	Barium	111	0.12	0.08	0.20	0.03	111	0	0
MW-009	Benzene	89	0	0	2	0	1	88	1
MW-009	bis(2-Ethylhexyl)Phthalate	33	0	0	1	0	1	32	0
MW-009	Chloride	79	56.98	14.00	160.00	41.68	79	0	0
MW-009	cis-1,2-dichloroethene	86	0.092	0.000	2.600	0.309	17	69	0
MW-009	Ethylbenzene	80	0.02	0.00	1.90	0.21	1	79	0
MW-009	Lead	89	0.00	0.00	0.01	0.00	5	84	0
MW-009	m,p-Xylene	50	0.000	0.000	0.000	0.000	0	50	0
MW-009	Manganese	112	0.78	0.14	1.87	0.39	112	0	0
MW-009	Mercury	90	0.00	0.00	0.00	0.00	4	86	0
MW-009	Methylene Chloride	91	0.02	0.00	1.00	0.11	3	88	0
MW-009	N-Nitrate	72	0	0	1	0	39	33	0
MW-009	o-Xylene	77	0.03	0.00	2.00	0.23	1	76	0
MW-009	Sulfate	73	12.143	2.000	35.500	8.396	73	0	0

Mica Landfill Summary Statistic 2016

StationID	Analyte	Count	Average	Min	Max	StDev	N Detects	N NonDetects	N Exceedances
MW-009	Tetrachloroethene	89	0.000	0.000	0.000	0.000	0	89	0
MW-009	Toluene	89	0.02	0.00	2.00	0.21	1	88	0
MW-009	Total Dissolved Solids	80	401	223	680	127	80	0	0
MW-009	Total Organic Carbon	113	4.37	0.00	153.00	14.18	108	5	0
MW-009	Trichloroethene	89	0.03	0.00	2.20	0.24	4	85	0
MW-009	Vanadium	91	0.000	0.000	0.004	0.001	6	85	0
MW-009	Vinyl Chloride	89	0.02	0.00	1.80	0.19	2	87	2
MW-009	Xylene	30	0.000	0.000	0.000	0.000	0	30	0
MW-009	Zinc	94	0.0009	0.0000	0.0214	0.0031	9	85	0
MW-010	1,2-Dichloroethane	89	0.00	0.00	0.00	0.00	0	89	0
MW-010	1,2-Dichloropropane	89	0.00	0.00	0.00	0.00	0	89	0
MW-010	Acetone	89	0.03	0.00	2.80	0.30	1	88	0
MW-010	Alkalinity	64	81.91	62.00	92.90	4.64	64	0	0
MW-010	Ammonia	91	0.02	0.00	0.86	0.09	16	75	0
MW-010	Arsenic	88	0.00	0.00	0.00	0.00	0	88	0
MW-010	Barium	94	0	0	0	0	94	0	0
MW-010	Benzene	89	0	0	0	0	1	88	0
MW-010	bis(2-Ethylhexyl)Phthalate	13	0.00	0.00	0.00	0.00	0	13	0
MW-010	Chloride	62	0.599	0.000	5.800	0.934	41	21	0
MW-010	cis-1,2-dichloroethene	86	0.01	0.00	0.50	0.05	1	85	0
MW-010	Ethylbenzene	80	0.00	0.00	0.00	0.00	0	80	0
MW-010	Lead	90	0.000	0.000	0.002	0.000	2	88	0
MW-010	m,p-Xylene	50	0.00	0.00	0.00	0.00	0	50	0
MW-010	Manganese	88	0.00	0.00	0.00	0.00	6	82	0
MW-010	Mercury	88	0.00	0.00	0.00	0.00	0	88	0
MW-010	Methylene Chloride	89	0	0	0	0	0	89	0
MW-010	N-Nitrate	62	0.24	0.03	0.37	0.04	62	0	0
MW-010	o-Xylene	78	0.009	0.000	0.400	0.056	2	76	0
MW-010	Sulfate	61	0.897	0.000	5.200	1.182	40	21	0
MW-010	Tetrachloroethene	89	0.00	0.00	0.00	0.00	0	89	0
MW-010	Toluene	90	0	0	1	0	3	87	0
MW-010	Total Dissolved Solids	66	112.39	69.00	160.00	14.23	66	0	0
MW-010	Total Organic Carbon	88	0.15	0.00	2.80	0.54	8	80	0

Mica Landfill Summary Statistic 2016

StationID	Analyte	Count	Average	Min	Max	StDev	N Detects	N NonDetects	N Exceedances
MW-010	Trichloroethene	89	0.000	0.000	0.000	0.000	0	89	0
MW-010	Vanadium	88	0.00	0.00	0.00	0.00	0	88	0
MW-010	Vinyl Chloride	89	0.000	0.000	0.000	0.000	0	89	0
MW-010	Xylene	31	0.0581	0.0000	1.0000	0.2262	2	29	0
MW-010	Zinc	91	0.00	0.00	0.01	0.00	8	83	0
MW-013	1,2-Dichloroethane	45	0	0	0	0	0	45	0
MW-013	1,2-Dichloropropane	45	0.00	0.00	0.00	0.00	0	45	0
MW-013	Acetone	46	0.44	0.00	8.00	1.55	4	42	0
MW-013	Alkalinity	41	191.502	44.600	228.000	38.674	41	0	0
MW-013	Ammonia	39	0.01	0.00	0.16	0.03	6	33	0
MW-013	Arsenic	39	0.000	0.000	0.007	0.001	3	36	0
MW-013	Barium	41	0.0612	0.0400	0.1410	0.0201	41	0	0
MW-013	Benzene	45	0.01	0.00	0.63	0.09	1	44	0
MW-013	bis(2-Ethylhexyl)Phthalate	13	0.00	0.00	0.00	0.00	0	13	0
MW-013	Chloride	40	10.00	1.30	14.00	3.73	40	0	0
MW-013	cis-1,2-dichloroethene	43	0.01	0.00	0.20	0.05	3	40	0
MW-013	Ethylbenzene	40	0.00	0.00	0.00	0.00	0	40	0
MW-013	Lead	39	0.00	0.00	0.04	0.01	8	31	0
MW-013	m,p-Xylene	25	0	0	0	0	0	25	0
MW-013	Manganese	39	0	0	0	0	15	24	0
MW-013	Mercury	39	0.00	0.00	0.00	0.00	0	39	0
MW-013	Methylene Chloride	45	0.899	0.000	2.600	1.027	21	24	0
MW-013	N-Nitrate	40	2.36	0.69	6.58	1.76	40	0	0
MW-013	o-Xylene	38	0.00	0.00	0.00	0.00	0	38	0
MW-013	Sulfate	40	6.317	0.000	10.400	1.676	39	1	0
MW-013	Tetrachloroethene	46	0.77	0.00	1.60	0.39	40	6	21
MW-013	Toluene	46	0.03	0.00	0.70	0.11	3	43	0
MW-013	Total Dissolved Solids	40	262.70	121.00	327.00	39.76	40	0	0
MW-013	Total Organic Carbon	40	1	0	5	1	29	11	0
MW-013	Trichloroethene	45	0.23	0.00	0.70	0.26	21	24	0
MW-013	Vanadium	39	0.000	0.000	0.000	0.000	0	39	0
MW-013	Vinyl Chloride	45	0.000	0.000	0.000	0.000	0	45	0
MW-013	Xylene	15	0.00	0.00	0.00	0.00	0	15	0

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StationID	Analyte	Count	Average	Min	Max	StDev	N Detects	N NonDetects	N Exceedances
MW-013	Zinc	39	0.01	0.00	0.08	0.01	11	28	0
MW-014	1,2-Dichloroethane	89	0	0	0	0	0	89	0
MW-014	1,2-Dichloropropane	89	0.00	0.00	0.00	0.00	0	89	0
MW-014	Acetone	89	0.00	0.00	0.00	0.00	0	89	0
MW-014	Alkalinity	62	75.635	62.000	82.600	3.182	62	0	0
MW-014	Ammonia	97	0.01	0.00	0.58	0.06	22	75	0
MW-014	Arsenic	91	0.000	0.000	0.006	0.001	10	81	0
MW-014	Barium	90	0.0011	0.0000	0.0520	0.0061	7	83	0
MW-014	Benzene	89	0.01	0.00	0.70	0.08	2	87	0
MW-014	bis(2-Ethylhexyl)Phthalate	13	0.14	0.00	1.80	0.50	1	12	0
MW-014	Chloride	68	1.10	0.00	7.10	1.17	55	13	0
MW-014	cis-1,2-dichloroethene	86	0.00	0.00	0.00	0.00	0	86	0
MW-014	Ethylbenzene	80	0.01	0.00	0.50	0.06	1	79	0
MW-014	Lead	90	0.00	0.00	0.01	0.00	9	81	0
MW-014	m,p-Xylene	50	0	0	0	0	0	50	0
MW-014	Manganese	97	0	0	2	0	97	0	0
MW-014	Mercury	90	0.00	0.00	0.00	0.00	1	89	0
MW-014	Methylene Chloride	89	0.000	0.000	0.000	0.000	0	89	0
MW-014	N-Nitrate	61	0.00	0.00	0.06	0.01	11	50	0
MW-014	o-Xylene	77	0.02	0.00	1.50	0.18	2	75	0
MW-014	Sulfate	62	9.296	5.200	13.000	1.326	62	0	0
MW-014	Tetrachloroethene	89	0.00	0.00	0.00	0.00	0	89	0
MW-014	Toluene	89	0.04	0.00	1.60	0.22	3	86	0
MW-014	Total Dissolved Solids	61	123.51	99.00	166.00	15.68	61	0	0
MW-014	Total Organic Carbon	97	0	0	4	1	15	82	0
MW-014	Trichloroethene	89	0.00	0.00	0.00	0.00	0	89	0
MW-014	Vanadium	90	0.000	0.000	0.001	0.000	1	89	0
MW-014	Vinyl Chloride	89	0.000	0.000	0.000	0.000	0	89	0
MW-014	Xylene	30	0.12	0.00	2.90	0.54	2	28	0
MW-014	Zinc	91	0.00	0.00	0.16	0.02	14	77	0
MW-016	1,2-Dichloroethane	103	2.35	0.00	14.90	1.93	77	26	75
MW-016	1,2-Dichloropropane	104	11.24	0.00	18.00	4.71	97	7	97
MW-016	Acetone	107	4021.70	0.00	14300.00	2107.56	104	3	100

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StationID	Analyte	Count	Average	Min	Max	StDev	N Detects	N NonDetects	N Exceedances
MW-016	Alkalinity	71	1317.27	369.00	1890.00	411.57	71	0	0
MW-016	Ammonia	112	0.10	0.00	0.40	0.09	91	21	0
MW-016	Arsenic	108	0.04	0.00	0.06	0.02	105	3	0
MW-016	Barium	108	0.71	0.09	0.90	0.15	108	0	0
MW-016	Benzene	105	13.14	0.00	21.30	5.33	99	6	99
MW-016	Chloride	75	77.97	2.00	163.00	51.74	75	0	0
MW-016	cis-1,2-dichloroethene	103	85.43	5.10	148.00	39.61	103	0	82
MW-016	Ethylbenzene	95	53.82	0.00	86.40	20.12	93	2	0
MW-016	Lead	61	0.00	0.00	0.01	0.00	9	52	0
MW-016	m,p-Xylene	59	45.88	31.00	61.60	6.76	59	0	0
MW-016	Manganese	115	8.48	0.15	17.50	4.99	115	0	0
MW-016	Mercury	60	0.00	0.00	0.00	0.00	3	57	0
MW-016	Methylene Chloride	101	117.31	0.00	560.00	158.08	70	31	56
MW-016	N-Nitrate	34	0.91	0.00	22.10	3.84	8	26	0
MW-016	o-Xylene	92	20.07	0.00	31.60	6.92	90	2	0
MW-016	Sulfate	68	3.59	0.00	24.00	5.28	50	18	0
MW-016	Tetrachloroethene	91	1.14	0.00	17.00	3.02	22	69	19
MW-016	Toluene	106	80.17	0.00	160.00	33.15	104	2	28
MW-016	Total Dissolved Solids	70	1952.14	375.00	2943.00	692.44	70	0	0
MW-016	Total Organic Carbon	113	340.37	4.44	770.00	196.70	113	0	0
MW-016	Trichloroethene	105	21.32	0.00	96.00	24.19	97	8	88
MW-016	Vanadium	62	0.00	0.00	0.02	0.00	5	57	0
MW-016	Vinyl Chloride	106	8.84	0.00	17.10	4.33	95	11	95
MW-016	Xylene	36	32.38	0.00	55.90	15.57	35	1	0
MW-016	Zinc	91	0.00	0.00	0.11	0.01	13	78	0
MW-019R	1,2-Dichloroethane	59	0.01	0.00	0.20	0.03	2	57	0
MW-019R	1,2-Dichloropropane	59	0.00	0.00	0.10	0.01	1	58	0
MW-019R	Acetone	59	0.00	0.00	0.00	0.00	0	59	0
MW-019R	Alkalinity	56	203.02	121.00	246.00	36.59	56	0	0
MW-019R	Ammonia	86	0.02	0.00	1.21	0.13	19	67	0
MW-019R	Arsenic	86	0.00	0.00	0.01	0.00	3	83	0
MW-019R	Barium	86	0.09	0.04	0.20	0.03	86	0	0
MW-019R	Benzene	59	0.05	0.00	3.20	0.42	1	58	1

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StationID	Analyte	Count	Average	Min	Max	StDev	N Detects	N NonDetects	N Exceedances
MW-019R	Chloride	57	39.00	9.86	64.00	17.04	57	0	0
MW-019R	cis-1,2-dichloroethene	59	0.74	0.00	3.08	0.93	27	32	0
MW-019R	Ethylbenzene	52	0.00	0.00	0.00	0.00	0	52	0
MW-019R	Lead	59	0.00	0.00	0.01	0.00	4	55	0
MW-019R	m,p-Xylene	50	0.01	0.00	0.69	0.10	1	49	0
MW-019R	Manganese	86	0.02	0.00	0.44	0.06	80	6	0
MW-019R	Mercury	59	0.00	0.00	0.00	0.00	0	59	0
MW-019R	Methylene Chloride	59	0.00	0.00	0.20	0.03	1	58	0
MW-019R	N-Nitrate	31	1.40	0.91	1.68	0.14	31	0	0
MW-019R	o-Xylene	52	0.00	0.00	0.00	0.00	0	52	0
MW-019R	Sulfate	57	16.13	5.80	77.00	16.21	57	0	0
MW-019R	Tetrachloroethene	59	0.06	0.00	0.52	0.15	8	51	0
MW-019R	Toluene	59	0.07	0.00	3.34	0.44	2	57	0
MW-019R	Total Dissolved Solids	56	321.29	174.00	450.00	75.64	56	0	0
MW-019R	Total Organic Carbon	86	2.85	0.00	9.00	1.47	81	5	0
MW-019R	Trichloroethene	59	0.08	0.00	0.60	0.19	9	50	0
MW-019R	Vanadium	59	0.00	0.00	0.00	0.00	0	59	0
MW-019R	Vinyl Chloride	59	0.21	0.00	2.28	0.47	13	46	13
MW-019R	Xylene	2	0.00	0.00	0.00	0.00	0	2	0
MW-019R	Zinc	86	0.01	0.00	0.15	0.02	28	58	0
MW-020	1,2-Dichloroethane	45	0.00	0.00	0.00	0.00	0	45	0
MW-020	1,2-Dichloropropane	45	0.00	0.00	0.00	0.00	0	45	0
MW-020	Acetone	45	0.54	0.00	10.00	2.06	4	41	0
MW-020	Alkalinity	39	267.08	161.00	307.00	34.30	39	0	0
MW-020	Ammonia	39	0.01	0.00	0.13	0.03	6	33	0
MW-020	Arsenic	39	0.00	0.00	0.01	0.00	19	20	0
MW-020	Barium	39	0.24	0.05	0.56	0.13	39	0	0
MW-020	Benzene	45	0.01	0.00	0.14	0.03	3	42	0
MW-020	bis(2-Ethylhexyl)Phthalate	1	0.00	0.00	0.00		0	1	0
MW-020	Chloride	39	15.14	0.00	27.50	6.56	38	1	0
MW-020	cis-1,2-dichloroethene	43	0.03	0.00	0.33	0.09	4	39	0
MW-020	Ethylbenzene	40	0.00	0.00	0.00	0.00	0	40	0
MW-020	Lead	39	0.02	0.00	0.05	0.01	29	10	0

Mica Landfill Summary Statistic 2016

StationID	Analyte	Count	Average	Min	Max	StDev	N Detects	N NonDetects	N Exceedances
MW-020	m,p-Xylene	25	0.00	0.00	0.00	0.00	0	25	0
MW-020	Manganese	39	0.11	0.00	0.43	0.10	33	6	0
MW-020	Mercury	39	0.00	0.00	0.00	0.00	1	38	0
MW-020	Methylene Chloride	45	0.73	0.00	2.30	0.88	19	26	0
MW-020	N-Nitrate	39	6.89	0.13	8.54	1.43	39	0	0
MW-020	o-Xylene	38	0.02	0.00	0.34	0.07	2	36	0
MW-020	Sulfate	39	15.54	0.00	27.80	4.89	38	1	0
MW-020	Tetrachloroethene	45	0.03	0.00	0.21	0.07	6	39	0
MW-020	Toluene	45	0.03	0.00	1.00	0.16	2	43	0
MW-020	Total Dissolved Solids	39	406.90	200.00	784.00	92.27	39	0	0
MW-020	Total Organic Carbon	39	2.58	0.00	6.80	1.33	37	2	0
MW-020	Trichloroethene	45	0.10	0.00	0.50	0.17	14	31	0
MW-020	Vanadium	39	0.00	0.00	0.01	0.00	6	33	0
MW-020	Vinyl Chloride	45	0.02	0.00	0.50	0.08	3	42	3
MW-020	Xylene	15	0.09	0.00	1.00	0.27	2	13	0
MW-020	Zinc	39	0.03	0.00	0.08	0.02	34	5	0
MW-023	1,2-Dichloroethane	130	1.22	0.00	2.40	0.60	120	10	65
MW-023	1,2-Dichloropropane	126	0.85	0.00	1.34	0.29	120	6	97
MW-023	Acetone	99	0.69	0.00	7.36	1.55	19	80	0
MW-023	Alkalinity	94	546.80	147.00	757.00	129.40	94	0	0
MW-023	Ammonia	110	0.01	0.00	0.12	0.02	27	83	0
MW-023	Arsenic	98	0.00	0.00	0.00	0.00	29	69	0
MW-023	Barium	136	0.21	0.01	0.30	0.05	136	0	0
MW-023	Benzene	128	1.43	0.00	2.90	0.86	117	11	92
MW-023	bis(2-Ethylhexyl)Phthalate	16	0.51	0.00	3.70	1.21	3	13	0
MW-023	Chloride	99	94.75	1.38	188.00	54.62	99	0	0
MW-023	cis-1,2-dichloroethene	134	3.44	0.50	8.37	2.09	134	0	0
MW-023	Ethylbenzene	81	0.00	0.00	0.00	0.00	0	81	0
MW-023	Lead	96	0.00	0.00	0.02	0.00	12	84	0
MW-023	m,p-Xylene	51	0.02	0.00	0.68	0.12	2	49	0
MW-023	Manganese	136	0.43	0.00	1.21	0.49	123	13	0
MW-023	Mercury	93	0.00	0.00	0.00	0.00	22	71	0
MW-023	Methylene Chloride	123	7.06	0.00	18.30	4.16	100	23	92

Mica Landfill Summary Statistic 2016

StationID	Analyte	Count	Average	Min	Max	StDev	N Detects	N NonDetects	N Exceedances
MW-023	N-Nitrate	86	2.11	0.00	8.04	1.94	71	15	0
MW-023	o-Xylene	110	4.29	0.00	13.90	3.98	87	23	0
MW-023	Sulfate	100	5.28	0.00	11.00	1.93	98	2	0
MW-023	Tetrachloroethene	112	2.27	0.00	9.00	2.58	65	47	62
MW-023	Toluene	91	0.00	0.00	0.22	0.02	1	90	0
MW-023	Total Dissolved Solids	97	758.11	394.00	1211.00	212.41	97	0	0
MW-023	Total Organic Carbon	148	5.43	0.00	60.00	7.16	142	6	0
MW-023	Trichloroethene	142	3.78	0.00	9.70	2.58	141	1	62
MW-023	Vanadium	104	0.00	0.00	0.01	0.00	33	71	0
MW-023	Vinyl Chloride	131	1.21	0.00	3.80	0.84	119	12	119
MW-023	Xylene	35	0.31	0.00	1.00	0.36	16	19	0
MW-023	Zinc	96	0.00	0.00	0.03	0.00	12	84	0
MW-029	1,2-Dichloroethane	89	0.00	0.00	0.00	0.00	0	89	0
MW-029	1,2-Dichloropropane	89	0.00	0.00	0.00	0.00	0	89	0
MW-029	Acetone	89	0.06	0.00	3.78	0.43	2	87	0
MW-029	Alkalinity	60	49.40	26.00	311.00	36.44	60	0	0
MW-029	Ammonia	89	0.01	0.00	0.08	0.02	18	71	0
MW-029	Arsenic	89	0.00	0.00	0.00	0.00	1	88	0
MW-029	Barium	89	0.10	0.03	2.51	0.26	89	0	0
MW-029	Benzene	89	0.00	0.00	0.00	0.00	0	89	0
MW-029	bis(2-Ethylhexyl)Phthalate	34	2.12	0.00	71.00	12.17	2	32	1
MW-029	Chloride	61	102.58	38.00	176.00	51.13	61	0	0
MW-029	cis-1,2-dichloroethene	86	0.00	0.00	0.00	0.00	0	86	0
MW-029	Ethylbenzene	80	0.00	0.00	0.30	0.03	1	79	0
MW-029	Lead	89	0.00	0.00	0.00	0.00	0	89	0
MW-029	m,p-Xylene	50	0.00	0.00	0.00	0.00	0	50	0
MW-029	Manganese	89	0.01	0.00	1.17	0.12	29	60	0
MW-029	Mercury	89	0.00	0.00	0.00	0.00	0	89	0
MW-029	Methylene Chloride	89	0.00	0.00	0.00	0.00	0	89	0
MW-029	N-Nitrate	61	0.80	0.49	2.26	0.30	61	0	0
MW-029	o-Xylene	77	0.01	0.00	0.50	0.06	1	76	0
MW-029	Sulfate	60	4.86	0.00	9.90	1.68	57	3	0
MW-029	Tetrachloroethene	89	0.30	0.00	0.97	0.32	46	43	2

Mica Landfill Summary Statistic 2016

StationID	Analyte	Count	Average	Min	Max	StDev	N Detects	N NonDetects	N Exceedances
MW-029	Toluene	89	0.05	0.00	2.00	0.25	5	84	0
MW-029	Total Dissolved Solids	59	323.24	150.00	530.00	123.86	59	0	0
MW-029	Total Organic Carbon	89	0.34	0.00	5.00	0.87	17	72	0
MW-029	Trichloroethene	89	0.01	0.00	0.61	0.06	1	88	0
MW-029	Vanadium	89	0.00	0.00	0.00	0.00	1	88	0
MW-029	Vinyl Chloride	89	0.00	0.00	0.00	0.00	0	89	0
MW-029	Xylene	30	0.14	0.00	3.00	0.59	2	28	0
MW-029	Zinc	89	0.00	0.00	0.02	0.00	10	79	0
MW-031	1,2-Dichloroethane	57	0.00	0.00	0.00	0.00	0	57	0
MW-031	1,2-Dichloropropane	57	0.00	0.00	0.00	0.00	0	57	0
MW-031	Acetone	58	0.04	0.00	1.40	0.22	2	56	0
MW-031	Alkalinity	38	138.55	36.80	280.00	91.15	38	0	0
MW-031	Ammonia	60	0.02	0.00	0.09	0.03	19	41	0
MW-031	Arsenic	58	0.00	0.00	0.00	0.00	9	49	0
MW-031	Barium	60	0.08	0.03	0.15	0.03	60	0	0
MW-031	Benzene	57	0.00	0.00	0.00	0.00	0	57	0
MW-031	bis(2-Ethylhexyl)Phthalate	8	0.14	0.00	1.10	0.39	1	7	0
MW-031	Chloride	39	5.63	1.00	38.00	6.12	39	0	0
MW-031	cis-1,2-dichloroethene	57	0.00	0.00	0.00	0.00	0	57	0
MW-031	Ethylbenzene	52	0.00	0.00	0.00	0.00	0	52	0
MW-031	Lead	58	0.00	0.00	0.00	0.00	5	53	0
MW-031	m,p-Xylene	32	0.00	0.00	0.00	0.00	0	32	0
MW-031	Manganese	61	0.09	0.00	0.96	0.18	53	8	0
MW-031	Mercury	57	0.00	0.00	0.00	0.00	0	57	0
MW-031	Methylene Chloride	57	0.00	0.00	0.00	0.00	0	57	0
MW-031	N-Nitrate	37	0.27	0.00	1.58	0.44	30	7	0
MW-031	o-Xylene	52	0.00	0.00	0.00	0.00	0	52	0
MW-031	Sulfate	39	6.24	0.00	17.00	3.32	38	1	0
MW-031	Tetrachloroethene	57	0.00	0.00	0.00	0.00	0	57	0
MW-031	Toluene	57	0.01	0.00	0.30	0.04	1	56	0
MW-031	Total Dissolved Solids	38	203.08	100.00	340.00	77.67	38	0	0
MW-031	Total Organic Carbon	61	4.97	0.00	15.00	2.30	60	1	0
MW-031	Trichloroethene	57	0.00	0.00	0.00	0.00	0	57	0

Mica Landfill Summary Statistic 2016

StationID	Analyte	Count	Average	Min	Max	StDev	N Detects	N NonDetects	N Exceedances
MW-031	Vanadium	58	0.00	0.00	0.01	0.00	14	44	0
MW-031	Vinyl Chloride	57	0.00	0.00	0.00	0.00	0	57	0
MW-031	Xylene	20	0.00	0.00	0.00	0.00	0	20	0
MW-031	Zinc	59	0.00	0.00	0.01	0.00	13	46	0

APPENDIX C DATA VALIDATION

Analytical data for the September 2017 sample round was reviewed using quality control (QC) criteria documented in the analytical method, *National Functional Guidelines for Organic Data Review and Inorganic Data Review (1994)*, and the *Work Plan for Interim Action Compliance Monitoring Mica Landfill Spokane County, Washington (October 1994)* as amended by the County and Ecology in February, 2001.

There was no qualified data for September 2017.

Data Qualifier Summary for September 2017 Sampling Results

StationID	SampleID	SampleDate	Analyte	Qualifier	AnalyticalRptLimit	Units
	NO QUALIFIED DATA					

APPENDIX D LANDFILL GAS PROBE MEASUREMENTS

Mica Landfill Gas Measurements

Tech: GF

Date: 1/11/2017

Temp: 18-22 deg F

Weather: mstly clear

Baro. Pres: 29.71 @ 930

Qualifier: R

Gas Extraction Monitoring Data

Filename: MP170111.XLS

Inst. Used: Landtec Gem 500 # 760

Time Gem Calib: 945

Time Gem Checked:

Baro. Pres 29.78 @ 1330

Code	Time	Date	CH4	CO2	O2	Bal	Static	Pre	Differenti	Temp	Refere	Adjus	Valve	Pos:	Comments
MGP00012	9:53	1/11/2017	0	1.3	19.5	79.2	0	-1.04	>>>	>>>	>>>	>>>			
MGP0002R	10:10	1/11/2017	0	15.3	14.6	70.1	0	0	>>>	>>>	>>>	>>>			
MGP00009	10:17	1/11/2017	0	3.8	16.6	79.6	0	-0.85	>>>	>>>	>>>	>>>			
MGP00001	10:50	1/11/2017							>>>	>>>	>>>	>>>			gw in screen, no sample
MGP00006	11:02	1/11/2017							>>>	>>>	>>>	>>>			gw in screen, no sample
MGP00003	11:14	1/11/2017	0	7.5	5.8	86.7	0	0	>>>	>>>	>>>	>>>			
MGP00007	12:03	1/11/2017	0	2.6	15.8	81.6	0	-0.03	>>>	>>>	>>>	>>>			
MGP00008	12:10	1/11/2017	0	1.6	18.7	79.7	0	-0.42	>>>	>>>	>>>	>>>			
MGP00011	12:25	1/11/2017	0	2.6	18.6	78.8	0	-0.41	>>>	>>>	>>>	>>>			
MGP00005	12:31	1/11/2017	0	3.2	17.5	79.3	0	0	>>>	>>>	>>>	>>>			
MGP00010	12:38	1/11/2017	0	7.6	14	78.4	0	0	>>>	>>>	>>>	>>>			

Mica Landfill Gas Measurements

Tech: KM

Date: 2/28/2017

Temp: 25-31 deg F

Weather: Prtly cloudy/sunny

Baro. Pres: 30.27 @ 1200

Qualifier: R

Gas Extraction Monitoring Data

Filename: MP170228.xls

Inst. Used: Landtec Gem 500 # 410

Time Gem Calib: 1130

Time Gem Checked:

Baro. Pres 30.28 @ 1300

Code	Time	Date	CH4	CO2	O2	Bal	Static Pre	Differenti	Temp	Refere	Adjus	Valve Pos:	Comments
MGP00012	12:02	2/28/2017	0	1.2	20.5	78.3	0	-1.05	>>>	>>>	>>>	>>>	
MGP0002R	12:11	2/28/2017	0	4.7	21.7	78.3	0	0	>>>	>>>	>>>	>>>	
MGP00007	12:16	2/28/2017	0	3.8	17.5	78.7	0	-0.02	>>>	>>>	>>>	>>>	
MGP00008	12:22	2/28/2017	0	3.7	18.5	77.8	0	-0.41	>>>	>>>	>>>	>>>	
MGP00009	12:30	2/28/2017	0	4.4	16.3	79.3	0	0	>>>	>>>	>>>	>>>	
MGP00001	12:31	2/28/2017							>>>	>>>	>>>	>>>	gw in screen, no sample
MGP00006	12:31	2/28/2017							>>>	>>>	>>>	>>>	gw in screen, no sample
MGP00011	12:40	2/28/2017	0	3.4	17.8	79.6	0	-0.45	>>>	>>>	>>>	>>>	
MGP00005	12:42	2/28/2017							>>>	>>>	>>>	>>>	gw in screen, no sample
MGP00010	12:42	2/28/2017							>>>	>>>	>>>	>>>	gw in screen, no sample
MGP00003	12:42	2/28/2017							>>>	>>>	>>>	>>>	gw in screen, no sample

Mica Landfill Gas Measurements

Tech: KM

Date: 2/28/2017

Temp: 33 deg F

Weather: prtly cloudy

Baro. Pres: 29.85 @ 815

Qualifier: R

Gas Extraction Monitoring Data

Filename: MF170228.xls

Inst. Used: Landtec Gem 500 # 410

Time Gem Calib: 1520

Time Gem Checked:

Baro. Pres: 30.1 @ 1530

Code	Time	Date	CH4	CO2	O2	Bal	Static	Pre	Differenti	Temp	Refere	Adjus	Valve	Pos:	Comments
MFLARE06	15:38	2/28/2017	0	0	20.8	79.2	0	-0.3	34	370	370	open		No flame	
MFLARE07	15:45	2/28/2017	0	0	20.9	79.1	0	-0.37	36	420	420	open		No flame	
MFLARE15	1550	2/28/2017										closed		back up onli	

Mica Landfill Gas Measurements

Tech: GF

Date: 4/10/2017

Temp: 42 deg F

Weather: cldy, some rains

Baro. Pres: 30.05 @ 1015

Qualifier: R

Gas Extraction Monitoring Data

Filename: MP170410.XLS

Inst. Used: Landtec Gem 500 # 410

Time Gem Calib: 1045

Time Gem Checked:

Baro. Pres 30.1 @ 1600

Code	Time	Date	CH4	CO2	O2	Bal	Static Pre	Differenti	Temp	Refere	Adjus	Valve Pos:	Comments
MGP00012	10:57	4/10/2017	0	1.1	19.8	79.1	0	-0.51	>>>	>>>	>>>	>>>	
MGP0002R	11:03	4/10/2017	0	0.3	21	78.7	0	0	>>>	>>>	>>>	>>>	
MGP00007	11:10	4/10/2017	0	3.9	16.5	79.6	0	-0.27	>>>	>>>	>>>	>>>	
MGP00008	11:34	4/10/2017	0	1.5	19.8	78.7	0	-0.34	>>>	>>>	>>>	>>>	
MGP00009	11:48	4/10/2017	0	1.2	20.1	78.7	0	-0.78	>>>	>>>	>>>	>>>	
MGP00001	11:57	4/10/2017							>>>	>>>	>>>	>>>	gw in screens, no sample
MGP00006	12:13	4/10/2017							>>>	>>>	>>>	>>>	gw in screens, no sample
MGP00003	12:21	4/10/2017							>>>	>>>	>>>	>>>	gw in screens, no sample
MGP00011	13:19	4/10/2017	0	2.8	18.6	78.6	0	-0.4	>>>	>>>	>>>	>>>	
MGP00005	13:24	4/10/2017							>>>	>>>	>>>	>>>	gw in screens, no sample
MGP00010	13:33	4/10/2017							>>>	>>>	>>>	>>>	gw in screens, no sample

Mica Landfill Gas Measurements

Tech: GF

Date: 5/15/2017

Temp: 47-52deg F

Weather: mstly cldy

Baro. Pres: 30 @ 730

Qualifier: F

Gas Extraction Monitoring Data

Filename: MP170515.XLS

Inst. Used: Landtec Gem 500 #

Time Gem Calib: 815

Time Gem Checked:

Baro. Pres: 29.98 @ 1130

Code	Time	Date	CH4	CO2	O2	Bal	Static	Pre	Differenti	Temp	Refere	Adjus	Valve	Pos:	Comments
MGP00012	8:31	5/15/2017	0	1.5	19.5	79	0	0	>>>	>>>	>>>	>>>			
MGP0002R	8:51	5/15/2017	0	14.8	12.9	72.3	0	0	>>>	>>>	>>>	>>>			
MGP00007	8:59	5/15/2017	0	3.7	15.9	80.4	0	0.04	>>>	>>>	>>>	>>>			
MGP00008	9:07	5/15/2017	0	3.5	17	79.5	0	0.06	>>>	>>>	>>>	>>>			
MGP00009	9:17	5/15/2017	0	4.8	14.2	81	0	0.04	>>>	>>>	>>>	>>>			
MGP00001	9:33	5/15/2017							>>>	>>>	>>>	>>>			gw in screen, no sample
MGP00006	10:23	5/15/2017							>>>	>>>	>>>	>>>			gw in screen, no sample
MGP00011	10:40	5/15/2017	0	2.9	17.4	79.7	0	0.08	>>>	>>>	>>>	>>>			
MGP00005	10:50	5/15/2017							>>>	>>>	>>>	>>>			gw in screen, no sample
MGP00010	10:57	5/15/2017	0	5.7	8.8	85.5	0	0	>>>	>>>	>>>	>>>			
MGP00003	11:07	5/15/2017	0	6.5	3.4	90.1	0	0	>>>	>>>	>>>	>>>			

Mica Landfill Gas Measurements

Tech: GF

Date: 6/8/2017

Temp: 65

Weather: cldy

Baro. Pres: 29.69 @ 730

Qualifier: R

Gas Extraction Monitoring Data

Filename: MP170608.XLS

Inst. Used: Landtec Gem 500 # 760

Time Gem Calib: 745

Time Gem Checked:

Baro. Pres: 29.72 @ 930

Code	Time	Date	CH4	CO2	O2	Bal	Static Pre	Differenti	Temp	Refere	Adjus	Valve Pos:	Comments
MGP00012	7:52	6/8/2017	0	1.3	19.4	79.3	0	0.16	>>>	>>>	>>>	>>>	
MGP0002R	7:57	6/8/2017	0	17.8	12.2	70	0	0	>>>	>>>	>>>	>>>	
MGP00007	8:05	6/8/2017	0	3.7	15.6	80.7	0	-0.03	>>>	>>>	>>>	>>>	
MGP00008	8:12	6/8/2017	0	3.4	17	79.6	0	-0.08	>>>	>>>	>>>	>>>	
MGP00009	8:20	6/8/2017	0	5.3	14.2	80.5	0	0.08	>>>	>>>	>>>	>>>	
MGP00001	8:30	6/8/2017							>>>	>>>	>>>	>>>	gw in screens, no sample
MGP00006	8:41	6/8/2017							>>>	>>>	>>>	>>>	gw in screens, no sample
MGP00011	8:49	6/8/2017	0	2.6	17.5	79.9	0	-0.32	>>>	>>>	>>>	>>>	
MGP00005	8:53	6/8/2017							>>>	>>>	>>>	>>>	gw in screens, no sample
MGP00010	8:59	6/8/2017	0	8	7.5	84.5	0	0	>>>	>>>	>>>	>>>	
MGP00003	9:11	6/8/2017	0	8.2	1.4	90.4	0	0	>>>	>>>	>>>	>>>	

Mica Landfill Gas Measurements

Tech: GF

Date: 7/5/2017

Temp: 73-81 deg F

Weather:

Baro. Pres: 30.02 @ 930

Qualifier: F

Gas Extraction Monitoring Data

Filename: MP170705.XLS

Inst. Used: Landtec Gem 500 # 760

Time Gem Calib: 930

Time Gem Checked:

Baro. Pres: 30.01 @ 1123

Code	Time	Date	CH4	CO2	O2	Bal	Static Pre	Differenti	Temp	Refere	Adjus	Valve Pos:	Comments
MGP00012	9:38	7/5/2017	0	1.4	19.1	79.5	0	-0.52	>>>	>>>	>>>	>>>	
MGP0002R	9:43	7/5/2017	0	9.7	16.1	74.2	0	0	>>>	>>>	>>>	>>>	
MGP00007	9:52	7/5/2017	0	3.7	15.1	81.2	0	0	>>>	>>>	>>>	>>>	
MGP00008	9:59	7/5/2017	0	3.4	16.6	80	0	-0.12	>>>	>>>	>>>	>>>	
MGP00009	10:09	7/5/2017	0	6	13.4	80.6	0	-0.11	>>>	>>>	>>>	>>>	
MGP00001	10:16	7/5/2017	0	4.3	0	95.7	0	0	>>>	>>>	>>>	>>>	
MGP00006	10:26	7/5/2017	0	3.5	17.6	78.9	0	0	>>>	>>>	>>>	>>>	
MGP00011	10:36	7/5/2017	0	4.1	16.6	79.3	0	-0.02	>>>	>>>	>>>	>>>	
MGP00005	10:44	7/5/2017	0	4	15.8	80.2	0	0	>>>	>>>	>>>	>>>	
MGP00010	10:51	7/5/2017	0	8.4	9.6	82	0	-0.02	>>>	>>>	>>>	>>>	
MGP00003	11:03	7/5/2017	0	10.1	1.2	88.7	0	0	>>>	>>>	>>>	>>>	

Mica Landfill Gas Measurements

Tech: GF

Date: 8/16/2017

Temp: 63-73 deg F

Weather: clear to mstly clear

Baro. Pres: 29.99 @ 735

Qualifier: R

Gas Extraction Monitoring Data

Filename: MP170816.XLS

Inst. Used: Landtec Gem 500 # 760

Time Gem Calib: 815

Time Gem Checked:

Baro. Pres: 30.02 @

Code	Time	Date	CH4	CO2	O2	Bal	Static Pre	Differenti	Temp	Refere	Adjus	Valve Pos:	Comments
MGP00012	8:29	8/16/2017	0	0.6	20.1	79.3	0	-0.32	>>>	>>>	>>>	>>>	
MGP0002R	8:46	8/16/2017	0	13.8	15.1	71.1	0	0	>>>	>>>	>>>	>>>	
MGP00007	8:55	8/16/2017	0	3.8	14.5	81.7	0	0	>>>	>>>	>>>	>>>	
MGP00008	9:05	8/16/2017	0	3.6	16.3	80.1	0	-0.21	>>>	>>>	>>>	>>>	
MGP00009	9:15	8/16/2017	0	6.4	15.1	78.5	0	-0.07	>>>	>>>	>>>	>>>	
MGP00001	9:23	8/16/2017	0.1	6.8	0	93.1	0	0	>>>	>>>	>>>	>>>	
MGP00006	9:35	8/16/2017	0	1.5	19.2	79.3	0	0	>>>	>>>	>>>	>>>	
MGP00011	10:10	8/16/2017	0	2.6	17.8	79.6	0	-0.06	>>>	>>>	>>>	>>>	
MGP00005	10:17	8/16/2017	0	3	17.9	79.1	0	0	>>>	>>>	>>>	>>>	
MGP00010	10:24	8/16/2017	0	5.7	16	78.3	0	0	>>>	>>>	>>>	>>>	
MGP00003	10:37	8/16/2017	0	13.8	3	83.2	0	-0.02	>>>	>>>	>>>	>>>	

Mica Landfill Gas Measurements

Tech: GF

Date: 9/11/2017

Temp: 56-72 deg F

Weather: clear

Baro. Pres: 30.18 @ 745

Qualifier: F

Gas Extraction Monitoring Data

Filename: MP170911.XLS

Inst. Used: Landtec Gem 500 # 760

Time Gem Calib: 845

Time Gem Checked:

Baro. Pres: 30.14 @ 1135

Code	Time	Date	CH4	CO2	O2	Bal	Static Pre	Differenti	Temp	Refere	Adjus	Valve Pos	Comments
MGP00012	8:50	9/11/2017	0	1.7	19.1	79.2	0	0	>>>	>>>	>>>	>>>	
MGP0002R	8:58	9/11/2017	0	21	12.2	66.8	0	0	>>>	>>>	>>>	>>>	
MGP00007	9:09	9/11/2017	0	3.9	14.5	81.6	0	0	>>>	>>>	>>>	>>>	
MGP00008	9:16	9/11/2017	0	3.8	16.5	79.7	0	0.06	>>>	>>>	>>>	>>>	
MGP00009	9:27	9/11/2017	0	5.8	16	78.2	0	0.03	>>>	>>>	>>>	>>>	
MGP00001	9:41	9/11/2017	0.02	6	0	93.8	0	0	>>>	>>>	>>>	>>>	
MGP00006	10:35	9/11/2017	0	0.9	20	79.1	0	0.04	>>>	>>>	>>>	>>>	
MGP00011	10:47	9/11/2017	0	2.4	17.8	79.8	0	0	>>>	>>>	>>>	>>>	
MGP00005	10:55	9/11/2017	0	2.3	18.8	78.9	0	0	>>>	>>>	>>>	>>>	
MGP00010	11:03	9/11/2017	0	5.1	16.5	78.4	0	0	>>>	>>>	>>>	>>>	
MGP00003	11:17	9/11/2017	0	14.4	5.1	80.5	0	0	>>>	>>>	>>>	>>>	

Mica Landfill Gas Measurements

Tech: GF

Date: 10/11/2017

Temp: 50-58 deg F

Weather: cldy

Baro. Pres: 29.88 @ 705

Qualifier: R

Gas Extraction Monitoring Data

Filename: MP171011.XLS

Inst. Used: Landtec Gem 500 # 760

Time Gem Calib: 1210

Time Gem Checked:

Baro. Pres: 29.91 @ 1435

Code	Time	Date	CH4	CO2	O2	Bal	Static Pre	Differenti	Temp	Refere	Adjus	Valve Pos:	Comments
MGP00012	12:21	10/11/2017	0	1.2	19.6	79.2	0	-0.57	>>>	>>>	>>>	>>>	
MGP0002R	12:26	10/11/2017	0	21.7	11	67.3	0	0	>>>	>>>	>>>	>>>	
MGP00007	12:53	10/11/2017	0	3.7	15.5	80.8	0	0	>>>	>>>	>>>	>>>	
MGP00008	13:00	10/11/2017	0	3.9	16.7	79.4	0	-0.14	>>>	>>>	>>>	>>>	
MGP00009	13:09	10/11/2017	0	5.6	16.2	78.2	0	-0.02	>>>	>>>	>>>	>>>	
MGP00001	13:18	10/11/2017	0.2	5.8	1	93	0	0	>>>	>>>	>>>	>>>	
MGP00006	13:33	10/11/2017	0	0.6	20.4	79	0	0	>>>	>>>	>>>	>>>	
MGP00011	13:42	10/11/2017	0	2.6	17.8	79.6	0	0	>>>	>>>	>>>	>>>	
MGP00005	13:49	10/11/2017	0	2.1	19	78.9	0	0	>>>	>>>	>>>	>>>	
MGP00010	13:56	10/11/2017	0	5.1	16.4	78.5	0	0	>>>	>>>	>>>	>>>	
MGP00003	14:17	10/11/2017	0	12.7	5	82.3	0	0	>>>	>>>	>>>	>>>	

Mica Landfill Gas Measurements

Tech: GF

Date: 11/15/2017

Temp: 40-44 deg F

Weather: mostly clear

Baro. Pres: 29.86 @

Qualifier: F

Gas Extraction Monitoring Data

Filename: MP171115.XLS

Inst. Used: Landtec Gem 500 # 760

Time Gem Calib: 715

Time Gem Checked:

Baro. Pres: 29.81 @ 1017

Code	Time	Date	CH4	CO2	O2	Bal	Static Pre	Differenti	Temp	Refere	Adjus	Valve	Pos:	Comments
MGP00012	7:23	11/15/2017	0	1.3	19.4	79.3	0	1.36	>>>	>>>	>>>	>>>		
MGP0002R	7:31	11/15/2017	0	18.7	10.2	71.1	0	0	>>>	>>>	>>>	>>>		
MGP00007	7:45	11/15/2017	0	3.4	16.2	80.4	0	0.02	>>>	>>>	>>>	>>>		
MGP00008	7:54	11/15/2017	0	4	16.7	79.3	0	0.22	>>>	>>>	>>>	>>>		
MGP00009	8:12	11/15/2017	0	5.4	16.2	78.4	0	0.1	>>>	>>>	>>>	>>>		
MGP00001	8:34	11/15/2017							>>>	>>>	>>>	>>>		gw in screens, no sample
MGP00006	8:44	11/15/2017	0	0.9	19.8	79.3	0	0	>>>	>>>	>>>	>>>		
MGP00011	9:18	11/15/2017	0	1.8	18.7	79.5	0	0	>>>	>>>	>>>	>>>		
MGP00005	9:25	11/15/2017	0	1.9	18.9	79.2	0	0	>>>	>>>	>>>	>>>		
MGP00010	9:31	11/15/2017	0	5	16.2	78.8	0	0.26	>>>	>>>	>>>	>>>		
MGP00003	9:44	11/15/2017	0	8.7	2.9	88.4	0	0	>>>	>>>	>>>	>>>		

Mica Landfill Gas Measurements

Tech: GF

Date: 12/8/2017

Temp: 27 deg F

Weather: ptly cldy

Baro. Pres: 30.61 @ 745

Qualifier: S

Gas Extraction Monitoring Data

Filename: MF171208.XLS

Inst. Used: Landtec Gem 500 # 760

Time Gem Calib: 905

Time Gem Checked:

Baro. Pres: 30.61 @ 950

Code	Time	Date	CH4	CO2	O2	Bal	Static	Pre	Differenti	Temp	Refere	Adjus	Valve	Pos:	Comments
MFLARE06	9:17	12/8/2017	38	25	0.2	36.8	-0.1	0.02	37	180	180	open			flame on
MFLARE07	9:23	12/8/2017	40	24.7	0	35.3	0	0.02	38	190	190	open			flame on
MFLARE15	9:27	12/8/2017	OL	OL	OL	OL	OL	OL	OL	OL	OL	NC			backup only