



Spokane County

Environmental Services

Kevin R. Cooke, P.E., Director

December 10, 2018

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

RE: Mica Landfill Annual Progress Report 2018

Dear Sandra,

Enclosed you will find one copy of the Mica Landfill September 2018 Annual Progress Report.

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

Sincerely,

Austin Stewart

Austin Stewart
Water Resources Specialist

**MICA LANDFILL ANNUAL REMEDIAL ACTION PERFORMANCE REPORT
SEPTEMBER 2018**



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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 2017 through September 2018
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

Mica Landfill

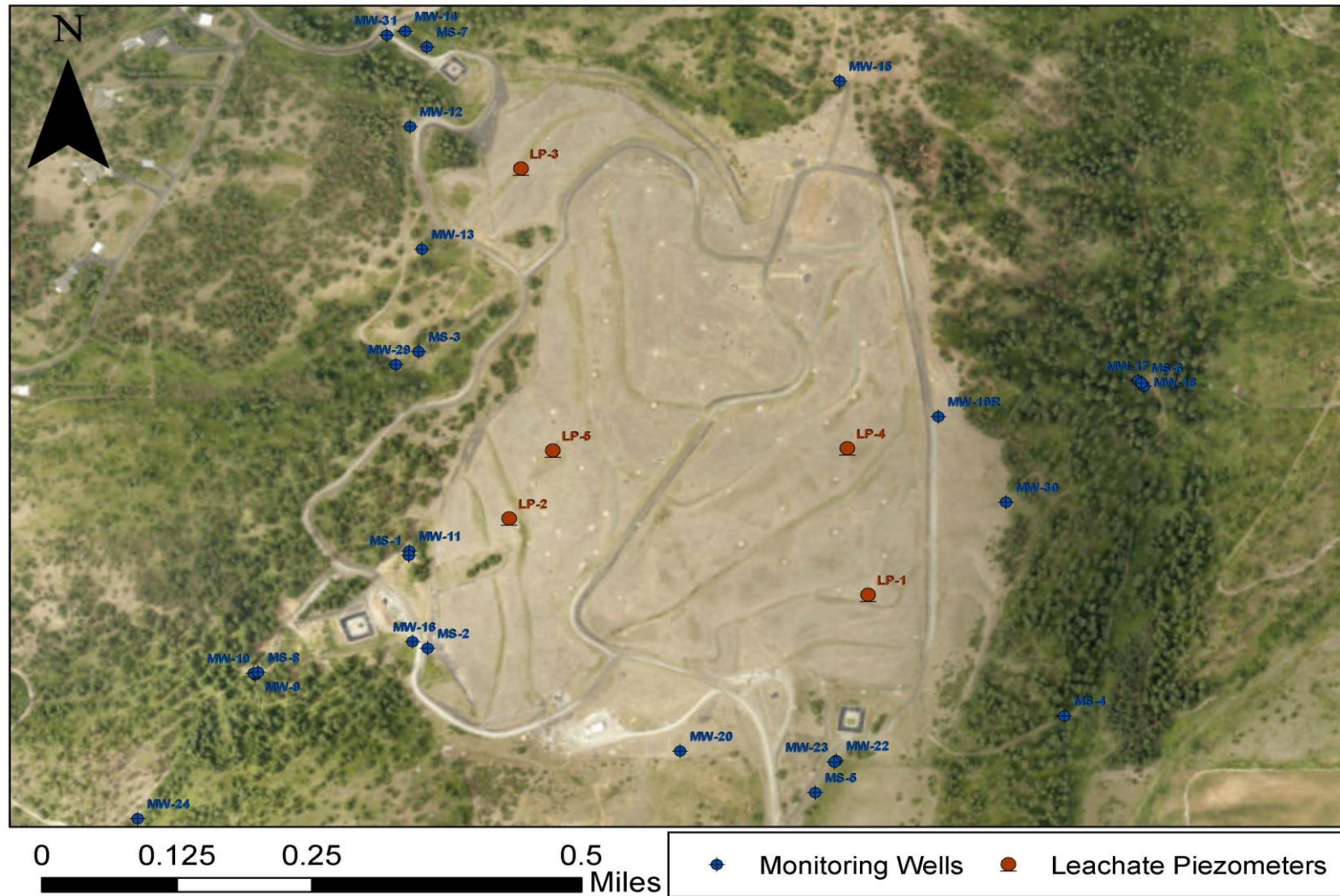


Table 1-2 Mica Landfill Summary of RA Compliance Monitoring Wells

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. Field technicians were also unable to sample residential well DW-1 in September due to difficulties with the pump (the pump was running but there was no water purging). Repairs were complete, and the technicians obtained a sample on 10/09/2018.

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 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 exceeded the criteria for several VOCs, including: 1,2-Dichloroethane (1,2-DCA), 1,2-Dichloropropane, benzene, cis-1,2-dichloroethene (cis-1,2-DCE), vinyl chloride, and acetone. MW-16 also exceeded the criteria for arsenic and barium during this annual reporting period.

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

MW-20 and MS-5 exhibited Nitrate concentrations above the cleanup 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 the March sampling event. This well had new piping repairs completed in 2012 that contributed to the zinc levels. Since the initial repair, the trend in zinc concentrations continues to decrease.

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 2018 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, indicates increasing trends in a majority of the conventionals, along with an increasing trend in PCE. MW-31 indicated no trend for nitrate and a decreasing trend for TOC last year, but now has an increasing trend for nitrate and no trend listed for TOC.

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 benzene and cis-1,2-DCE, indicating VOC degradation. Increasing trends for MW-16 in the past have settled for acetone, VC, and 1,2-DCP, with Sen's results indicating no trend. 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 trends for nitrate, PCE, MC, and TCE, and cis-1,2-DCE are indicated in MW-23. Monitoring well MS-5 exhibited increasing conventionals for previous years, but Sen's results now indicate no trend, with the exception of nitrate (decreasing trend) and sulfate (increasing trend). Statistical analysis shows a slightly increasing trend for alkalinity in MW-20, no trend for barium, and a decreasing trend for TOC.

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 most conventionals, with the exception of an increasing trend for nitrate. MW-19R also indicates a decreasing trend for cis-1,2-DCE.

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 shows statistically increasing trends for nitrate, chloride, and sulfate. DW-3 still indicates an increasing trend for nitrate, and the Sen's results now indicate no trend for chloride in DW-2.

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	07-Mar-18	11.3	6.66	361	5.89	
DW-001	09-Oct-18	11.3	6.93	299	0.59	
DW-002	07-Mar-18	8.7	6.91	320	0.19	
DW-002	11-Sep-18	11.7	6.75	298	0.12	
DW-003	07-Mar-18	11.2	7.44	350	0.77	2395.27
DW-003	11-Sep-18	11.5	7.32	326	0.26	2392.34
MS-004	07-Mar-18	9.2	6.95	273	1.61	2515.12
MS-004	11-Sep-18	9.5	6.81	255	0.83	2513.57
MS-005	08-Mar-18	10.7	6.65	363	0.39	2565.25
MS-005	11-Sep-18	11.1	6.53	402	0.29	2564.46
MW-009	07-Mar-18	6.4	6.87	401	3.31	2494.43
MW-009	11-Sep-18	11.3	6.57	514	3.3	2488.39
MW-010	07-Mar-18	7.4	7.28	125	0.14	2492.23
MW-010	11-Sep-18	10.5	7.23	126	0.2	2490.11
MW-013	07-Mar-18	10.5	6.96	414	0.89	2675.55
MW-013	11-Sep-18	12	6.77	414	0.89	2674.53
MW-014	07-Mar-18	9.5	6.94	156	0.87	2591.06
MW-014	11-Sep-18	12	6.91	140	0.79	2585.17
MW-016	12-Dec-17	9.1	6.93	2190	0.78	2537.51
MW-016	08-Mar-18	9.7	6.93	25	0.99	2538.63
MW-016	05-Jun-18	11.8	6.94	2180	0.82	2536.84
MW-016	12-Sep-18	11.8	6.79	2	1.88	2539.15
MW-019R	07-Mar-18	10.6	7.12	190	8.82	2664.92
MW-019R	11-Sep-18	11.6	7.07	289	7.32	2686.57
MW-020	07-Mar-18	10.8	7.38	528	119	2588.84
MW-020	12-Sep-18	10.7	7.03	480	23.9	2598.52
MW-023	08-Mar-18	10.4	7.18	882	0.1	2566.84
MW-023	12-Sep-18	12.4	6.9	861	2.41	2566.04
MW-029	08-Mar-18	9.2	6.28	641	0.86	2594.34
MW-029	11-Sep-18	10.3	6.26	627	1.18	2598.11
MW-031	07-Mar-18	9.3	6.56	131	0.97	2589.39

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

Figure 2-1 Hydrographs

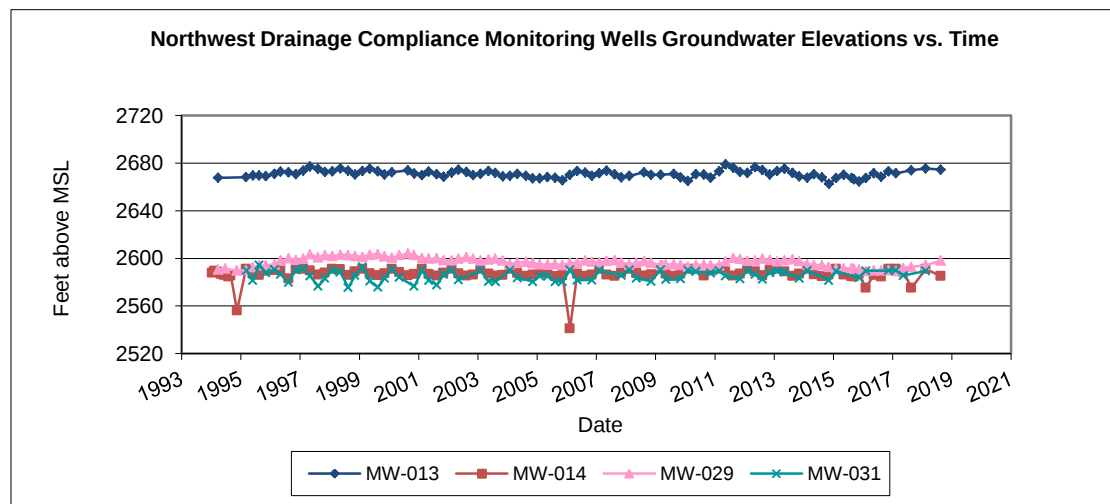
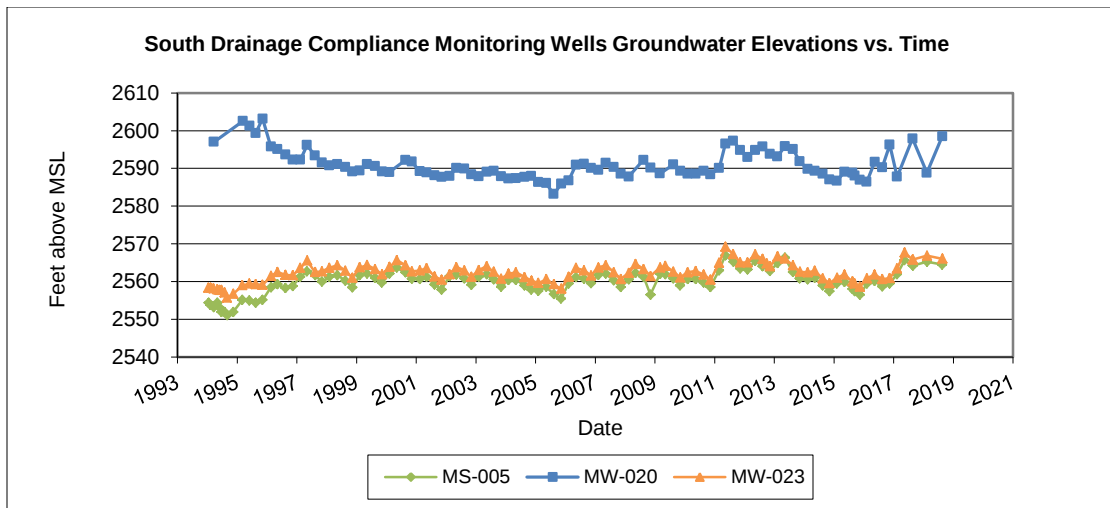
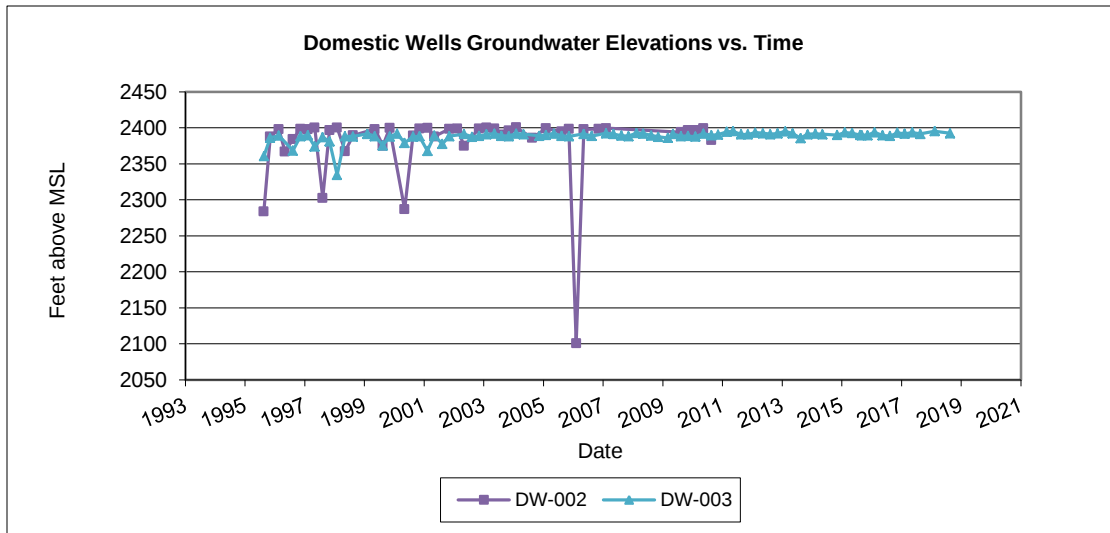


Table 2-2 Volatile Organic Detections for the Reporting Period (ug/L)

StationID	SampleDate	1,2-DCA	1,2-DCP	Acetone	Benzene	cis-1,2-DCE	PCE	Toluene	TCE	VC
MW-016	12-Dec-17		15.50	1760	15.2	31.5		48.2		
MW-016	08-Mar-18		16.40	2860	14.5	33.4		54.5		
MW-016	05-Jun-18	2.92	15.20	1560	14.2	23.5		37.8	2.12	3.94
MW-016	12-Sep-18		14.60	2500	17.5	22.2		41.4		
MW-029	11-Sep-18						0.55			

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	3-2018
DW-002	0.5U	ug/L	3-2018
DW-003	0.5U	ug/L	3-2018
MS-004	0.5U	ug/L	3-2018
MS-005	0.5U	ug/L	3-2018
MW-009	0.5U	ug/L	3-2018
MW-029	1.42	ug/L	3-2018
MS-004	5.49	ug/L	9-2018

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

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

StationID	SampleDate	Arsenic	Barium	Lead	Manganese	Zinc
DW-001	07-Mar-18		0.0432		0.0304	1.72
DW-001	09-Oct-18		0.0129		0.0081	0.126
DW-002	07-Mar-18		0.0332		0.0116	0.023
DW-002	11-Sep-18		0.0383			
DW-003	07-Mar-18		0.0307			0.168
DW-003	11-Sep-18		0.0295			0.069
MS-004	07-Mar-18		0.0579		0.0119	
MS-004	11-Sep-18		0.0622		0.0116	
MS-005	08-Mar-18		0.0624			
MS-005	11-Sep-18		0.0602			
MW-009	07-Mar-18		0.122		0.174	
MW-009	11-Sep-18		0.144		0.565	
MW-010	07-Mar-18		0.047			
MW-010	11-Sep-18		0.0473			
MW-013	07-Mar-18		0.0541			
MW-013	11-Sep-18		0.0519			
MW-014	07-Mar-18				0.873	
MW-014	11-Sep-18				0.348	
MW-016	12-Dec-17	0.0617	0.765		1.15	
MW-016	08-Mar-18	0.0566	0.777		1.14	
MW-016	05-Jun-18	0.0613	0.763		0.907	
MW-016	12-Sep-18	0.0634	0.744		0.907	
MW-019R	11-Sep-18		0.0374			
MW-020	07-Mar-18		0.15	0.008	0.0397	0.02
MW-020	12-Sep-18		0.137	0.0083	0.0139	0.01
MW-023	08-Mar-18		0.167		1.03	
MW-023	12-Sep-18		0.171		1.02	
MW-029	08-Mar-18		0.105			
MW-029	11-Sep-18		0.1			
MW-031	07-Mar-18		0.0351			

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	TDS	TOC
DW-001	07-Mar-18	158				7.11		1.53
DW-001	09-Oct-18	139		6.21	0.157	9.24		
DW-002	07-Mar-18	156		6.63		6.24		
DW-002	11-Sep-18	156		8.16	1.16	4.78		1.18
DW-003	07-Mar-18	181		0.79		1.79	220	
DW-003	11-Sep-18	180		0.87	2.84	1.91		
MS-004	07-Mar-18	111		0.4		11.7	168	1.21
MS-004	11-Sep-18	120		0.47	4.86	11.2	204	1.43
MS-005	08-Mar-18	117			1.65	23.5	266	1.74
MS-005	11-Sep-18	113			1.51	23	256	1.57
MW-009	07-Mar-18	203			0.05	3.26	233	2.6
MW-009	11-Sep-18	270				3.42	369	2.62
MW-010	07-Mar-18	92.4		0.35	0.256	0.89	109	
MW-010	11-Sep-18	93		0.38	0.248	0.74	118	
MW-013	07-Mar-18	200		9.73	0.647	4.2	234	1.6
MW-013	11-Sep-18	197		9.33	0.197	3.87	251	1.26
MW-014	07-Mar-18	76.5		0.73	0.052	8.68	113	
MW-014	11-Sep-18	78.7		0.75		8.75	124	
MW-016	12-Dec-17		0.189					145
MW-016	08-Mar-18	1510	0.196		0.207	0.47	1770	161
MW-016	05-Jun-18	1470	0.245			0.56	1730	118
MW-016	12-Sep-18	1510	0.23				1760	
MW-019R	11-Sep-18	106		8.18	1.39	14.4	182	1.41
MW-020	07-Mar-18	245		5.84		10.9	328	1.67
MW-020	12-Sep-18	232		7.11	3.83	7.07	320	1.5
MW-023	08-Mar-18	419				8.24	556	3.55
MW-023	12-Sep-18	405				7.94	543	2.97
MW-029	08-Mar-18	85.9			0.986	6.66	412	
MW-029	11-Sep-18	75.9			0.718	6.03	452	
MW-031	07-Mar-18	41.2		2.56		4.14	74	4.91

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

Table 2-6 Mica Landfill Statistically Significant Trends (Sen's Test) 2018

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

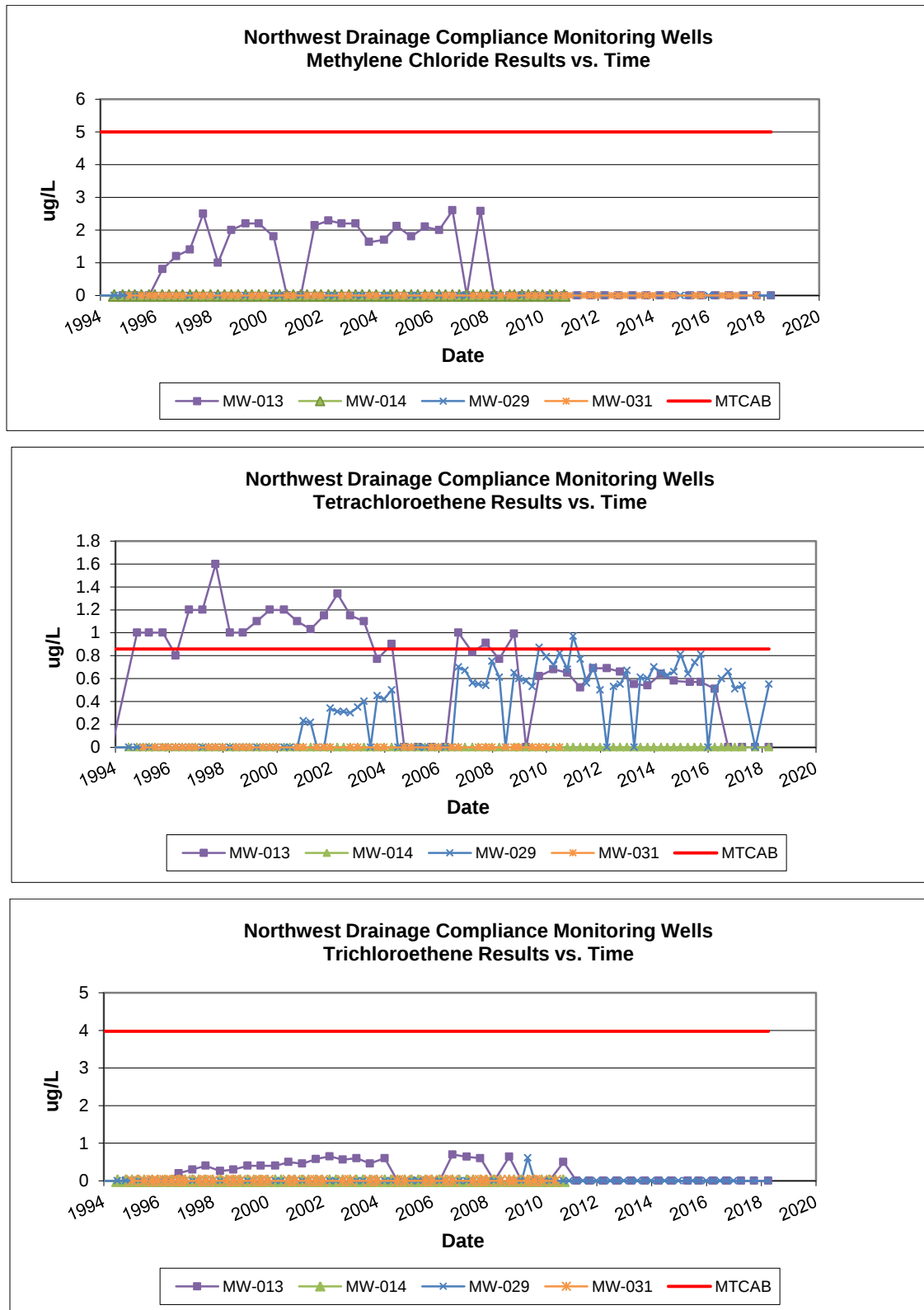


Figure 2-3 Northwest Drainage Area Monitoring Well Inorganic Concentrations

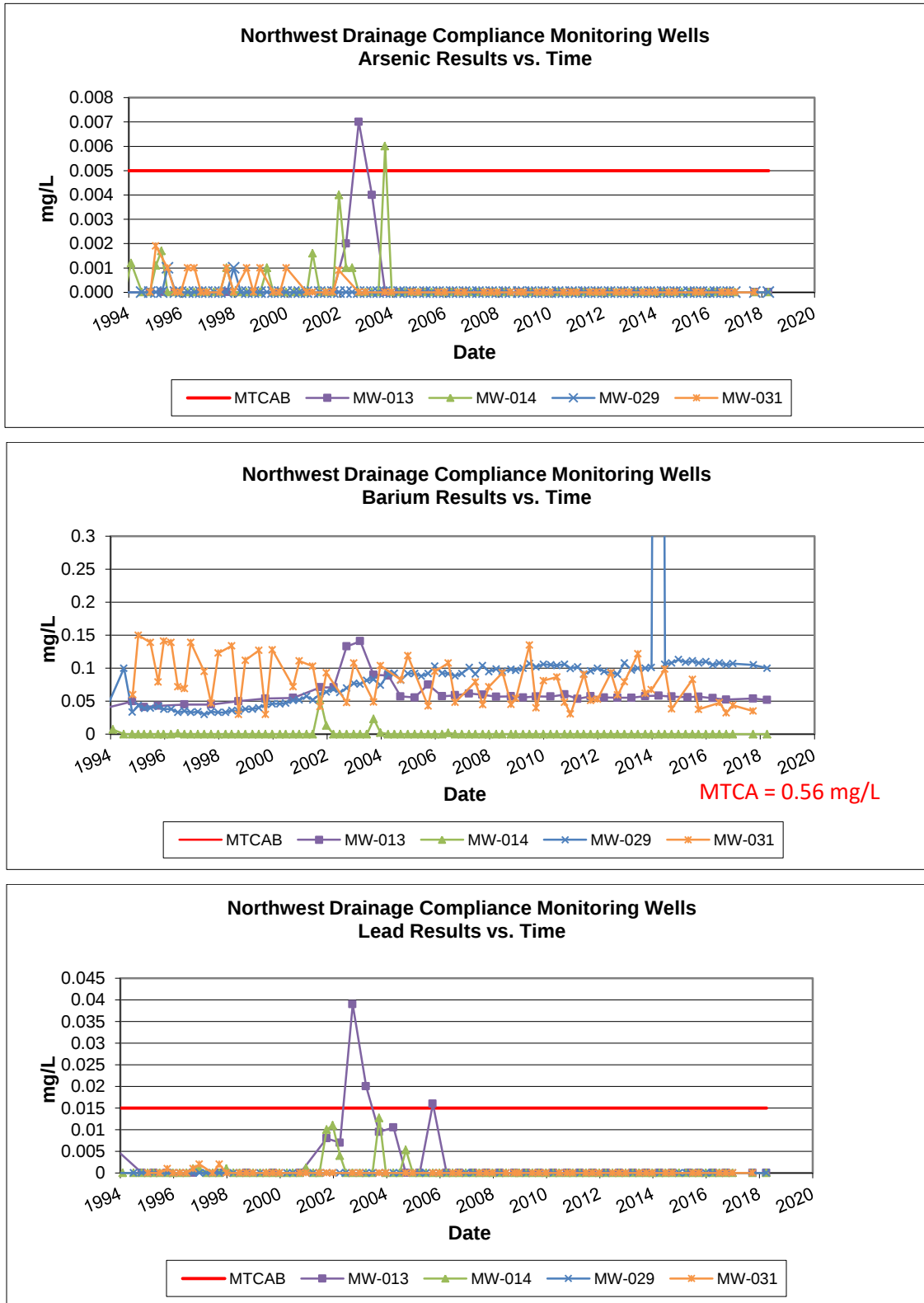


Figure 2-4 Northwest Drainage Area Monitoring Well Inorganic Concentrations

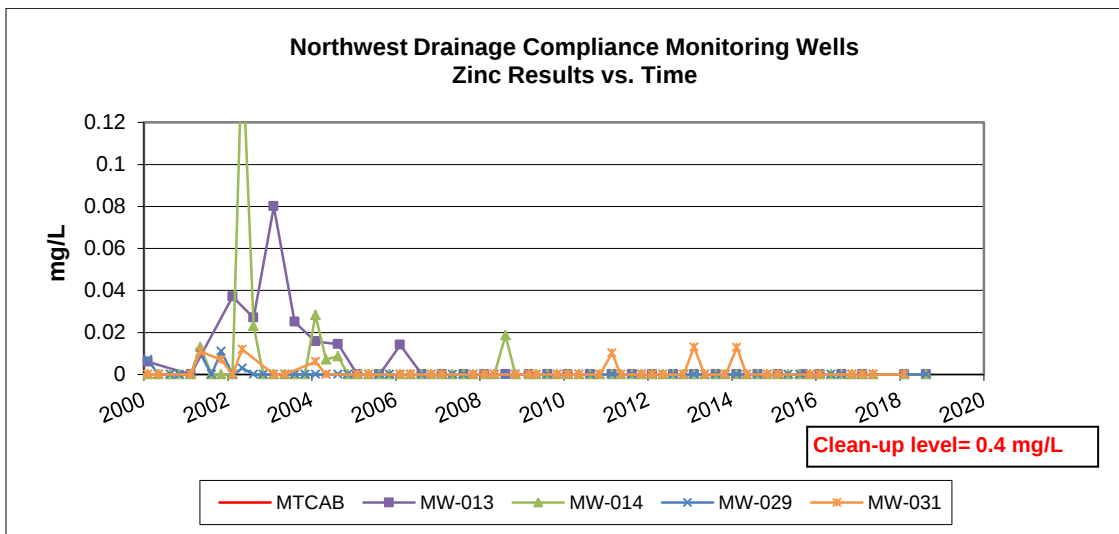
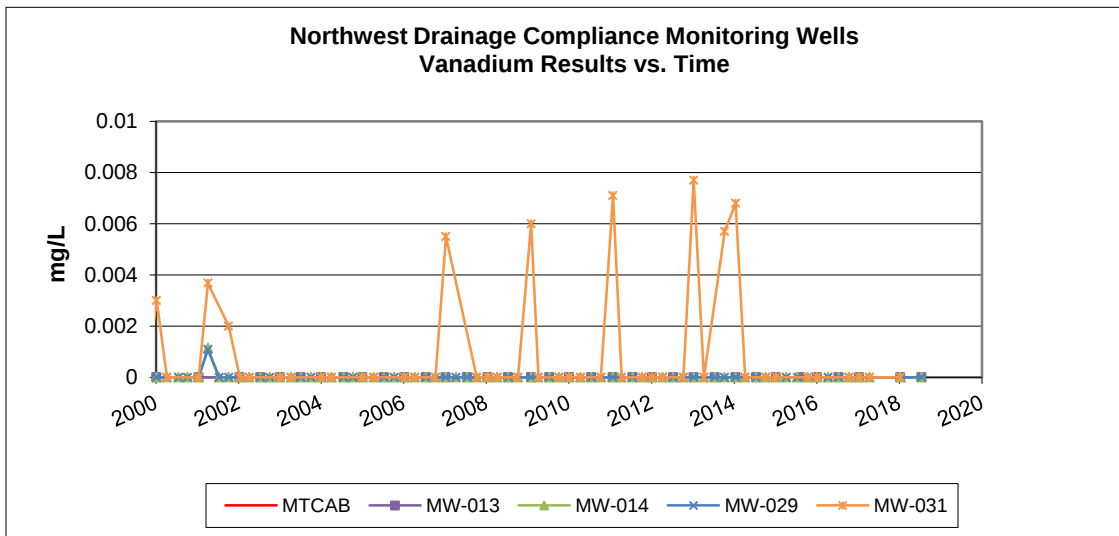
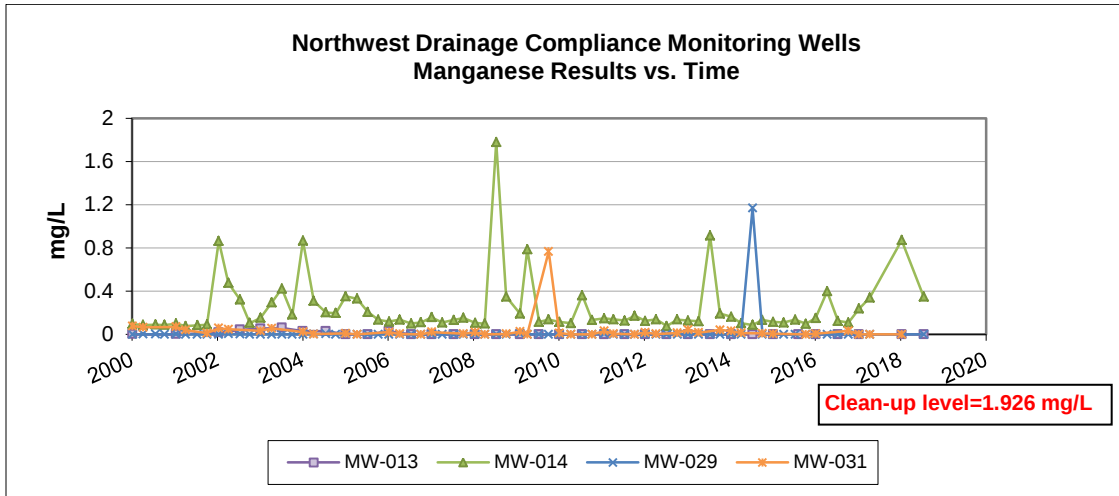


Figure 2-5 Northwest Drainage Area Monitoring Well Conventional Concentrations

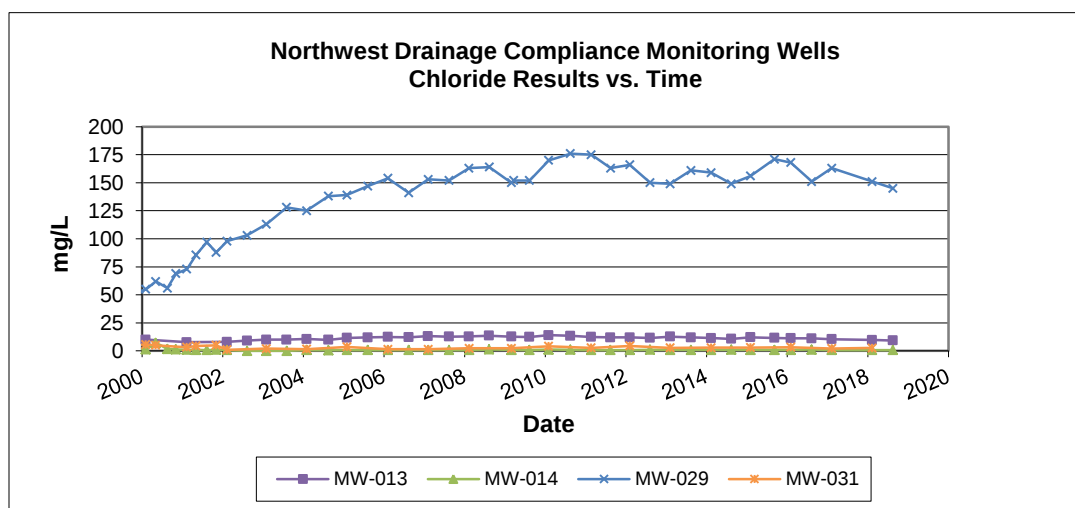
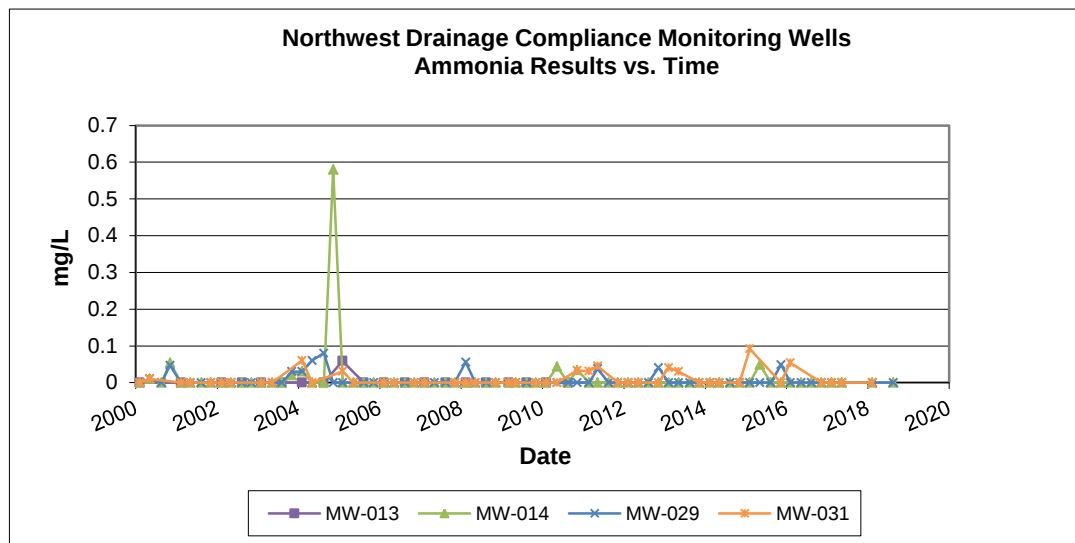
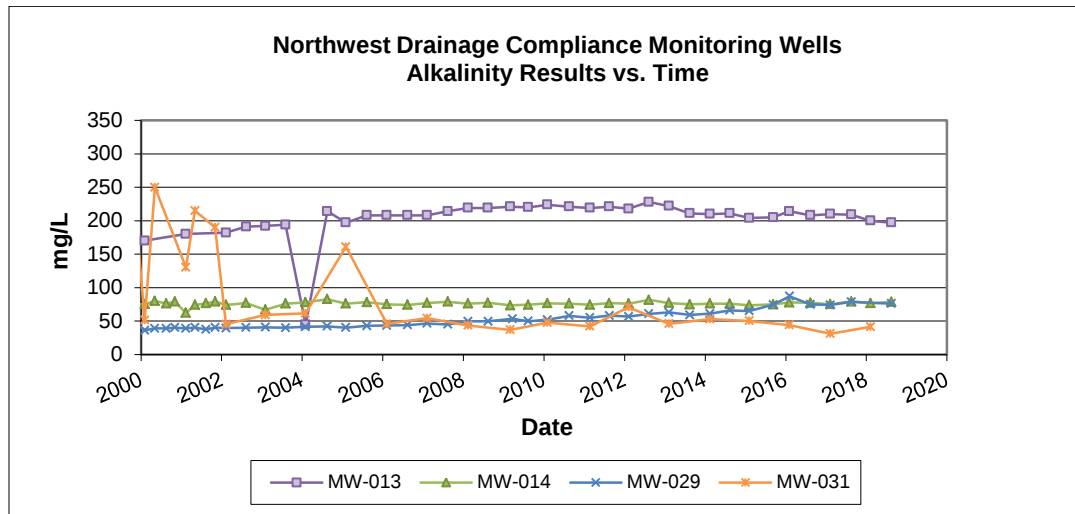


Figure 2-6 Northwest Drainage Area Monitoring Well Conventional Concentrations

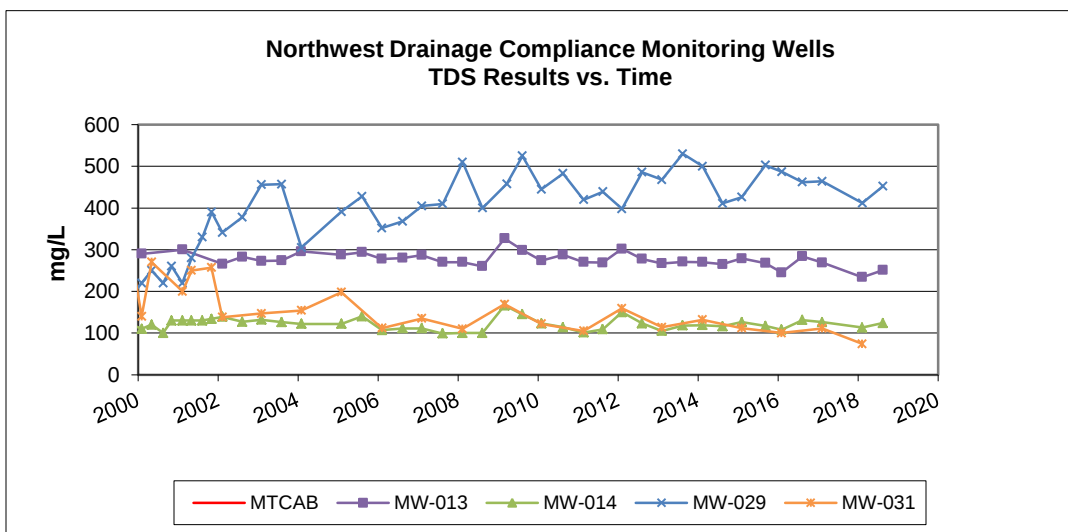
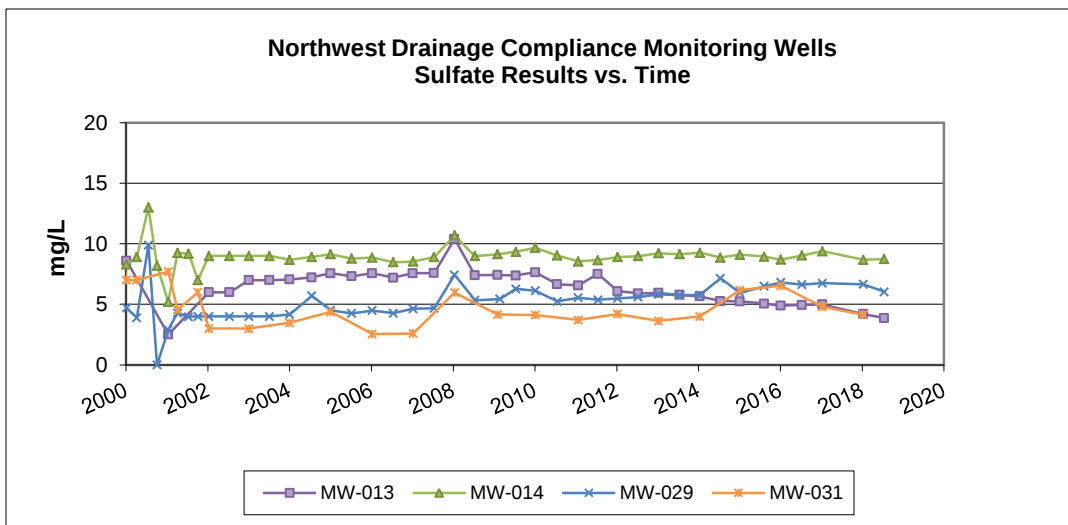
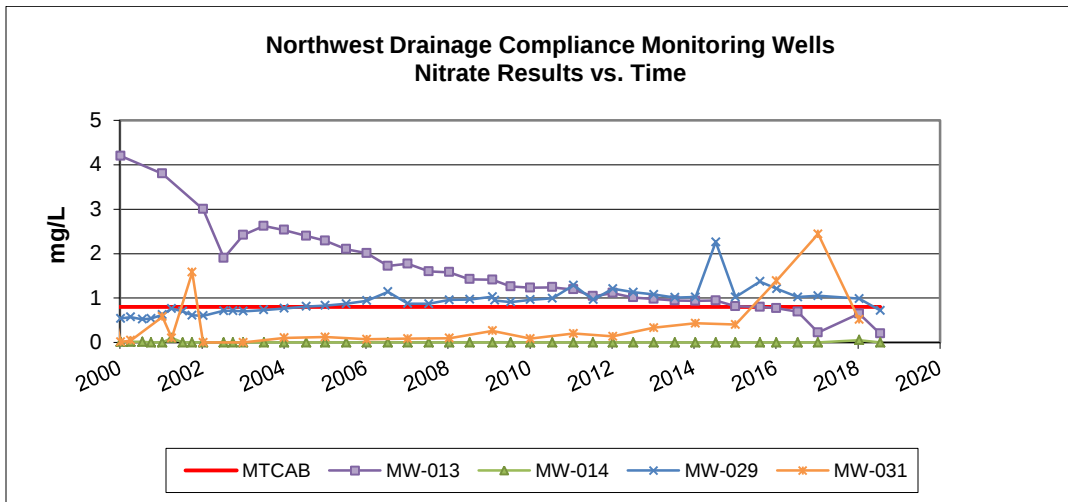


Figure 2-7 Northwest Drainage Area Monitoring Well Conventional Concentrations

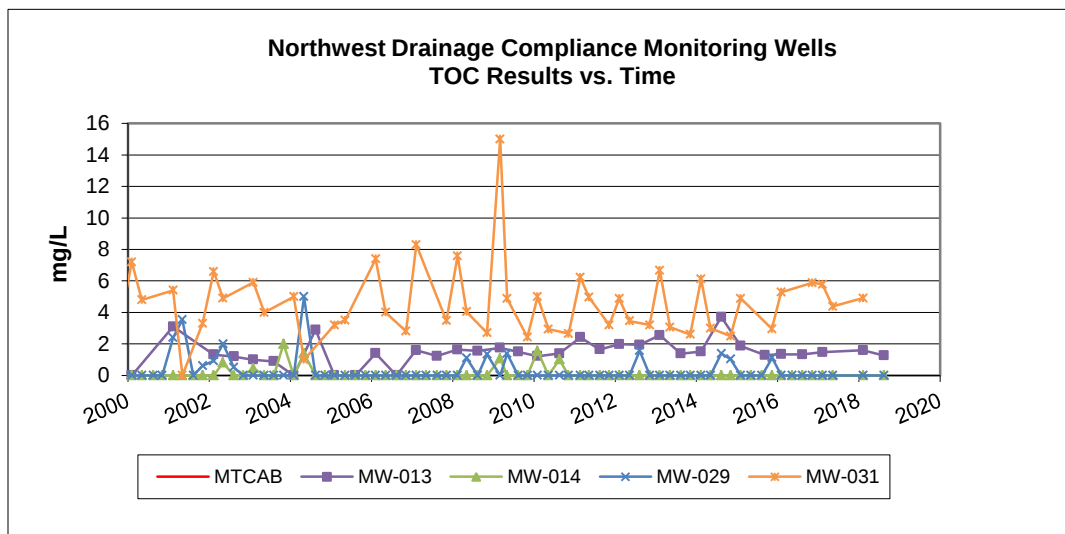


Figure 2-8 Southwest Drainage Area Monitoring Wells VOC Concentrations

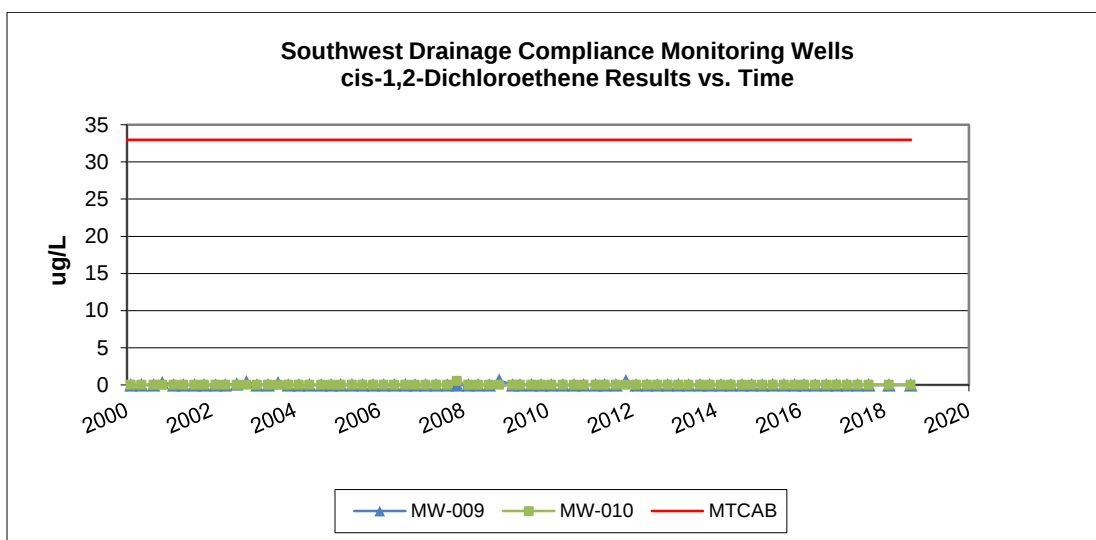
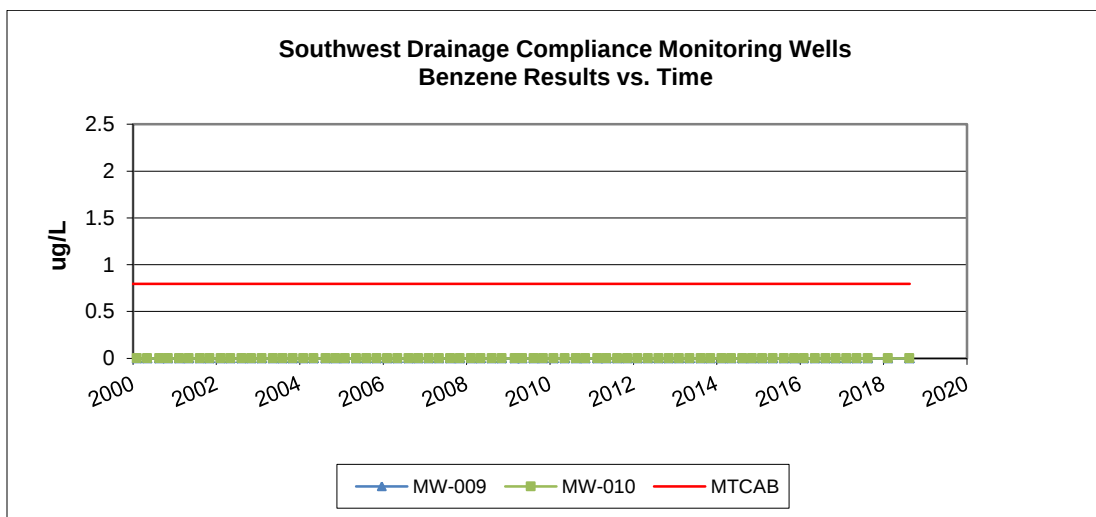
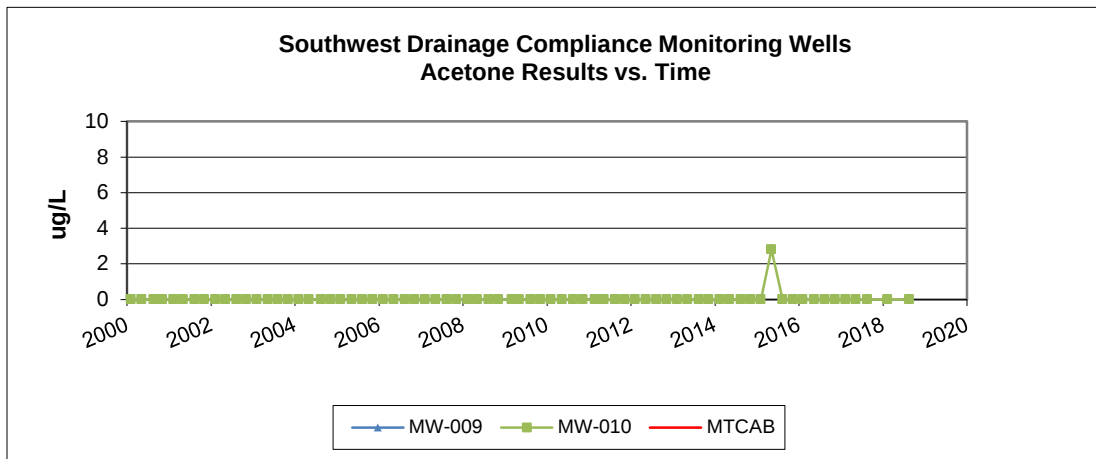


Figure 2-9 Southwest Drainage Area Monitoring Wells VOC Concentrations

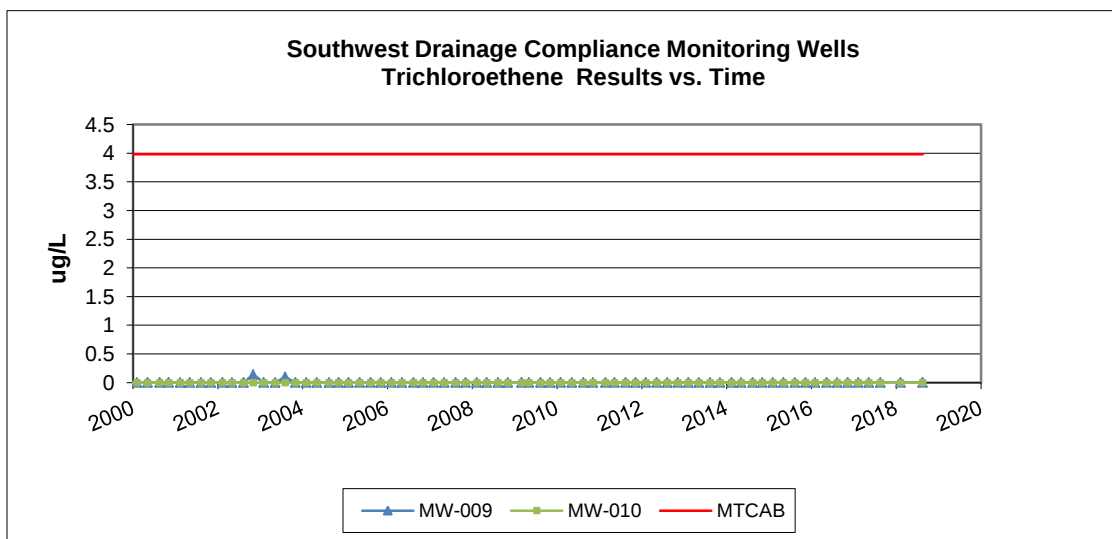
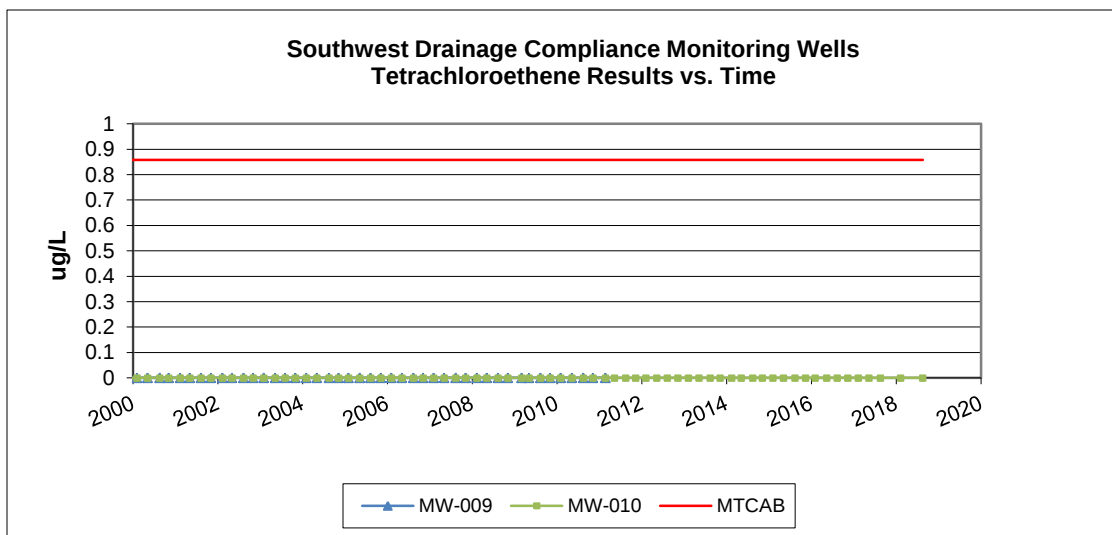
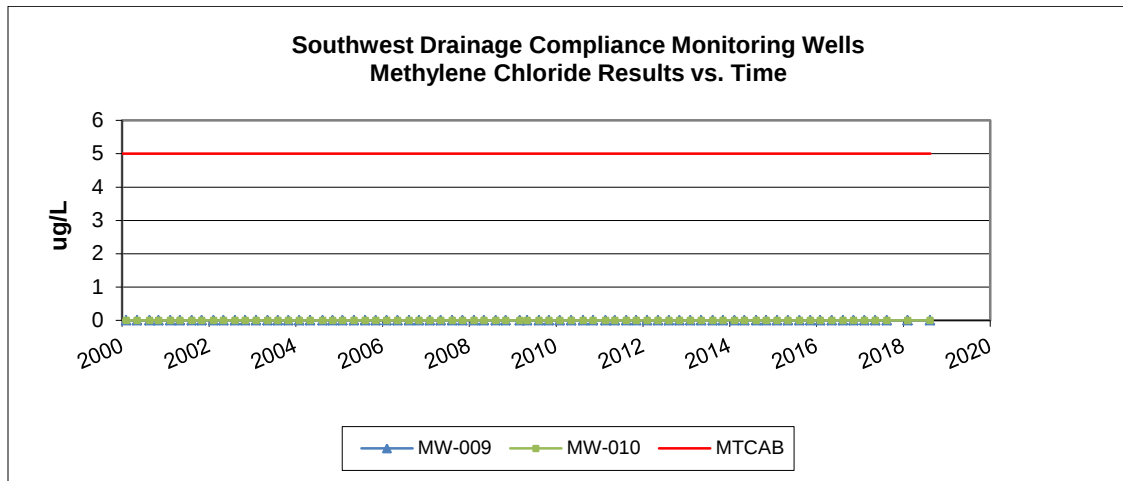


Figure 2-10 Southwest Drainage Area Monitoring Wells VOC Concentrations

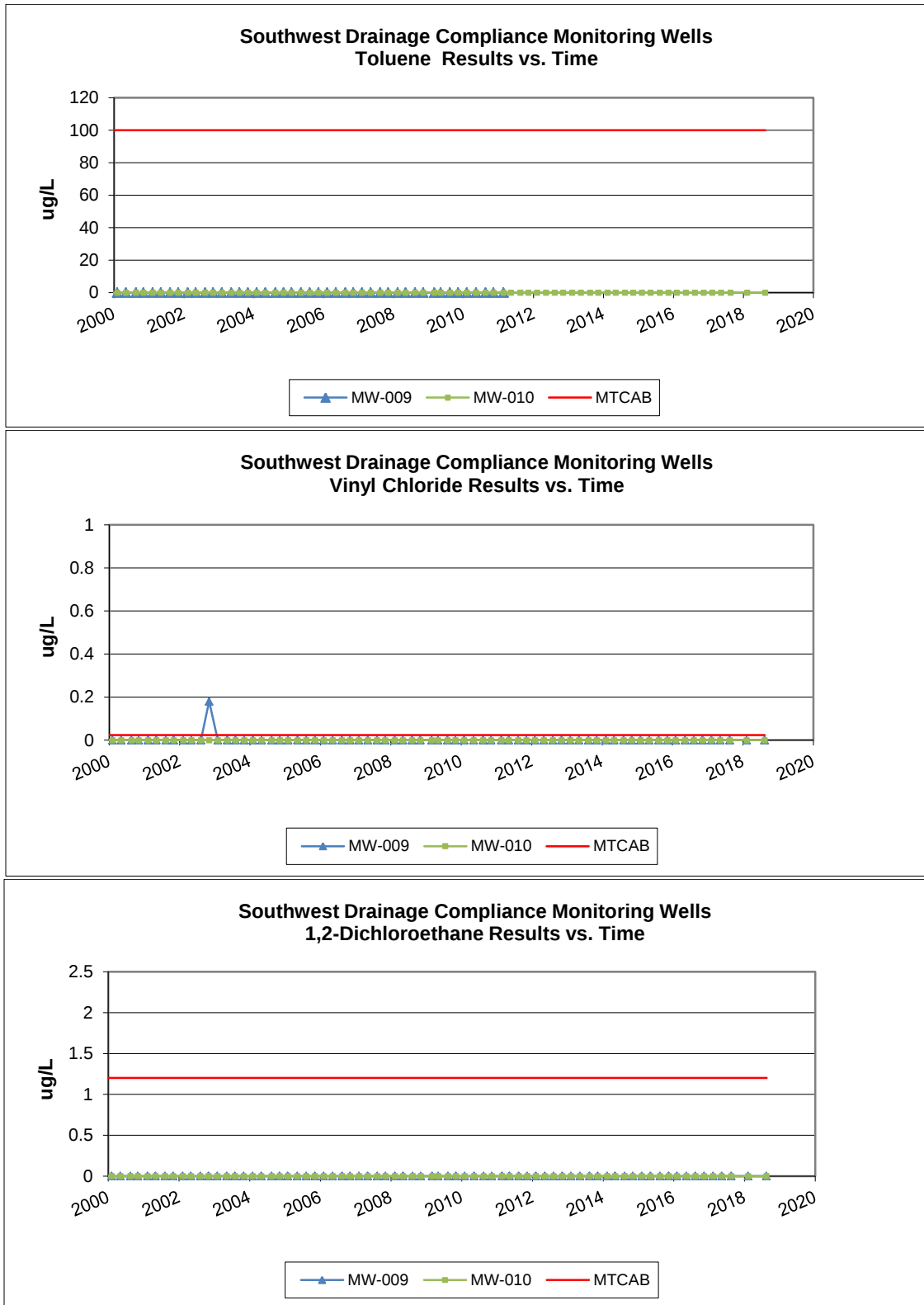


Figure 2-11 Southwest Drainage Area Monitoring Wells VOC Concentrations

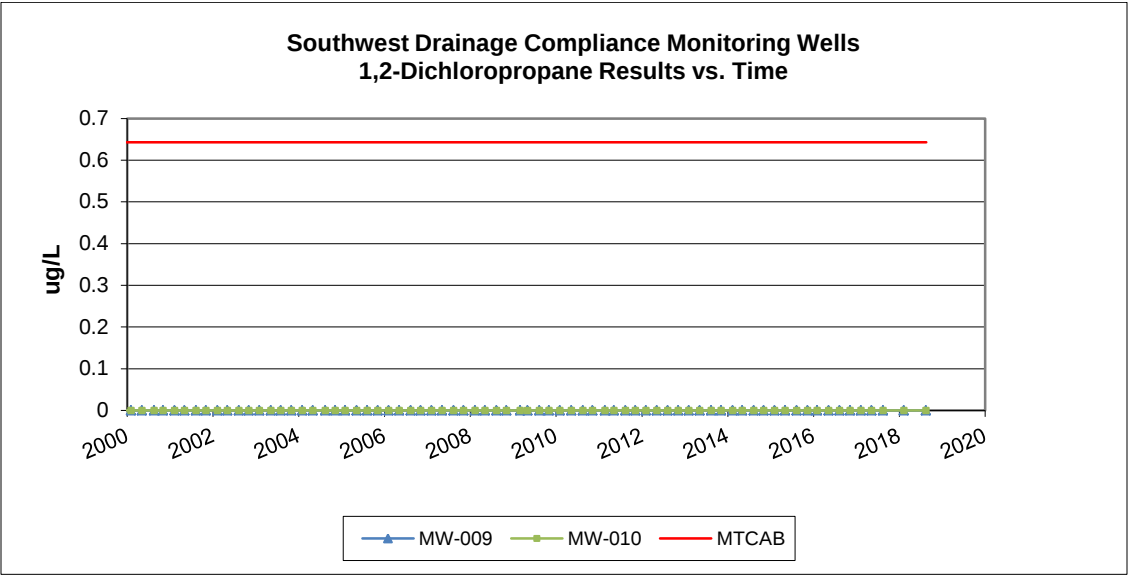


Figure 2-12 Southwest Drainage Area Monitoring Wells Inorganic Concentrations

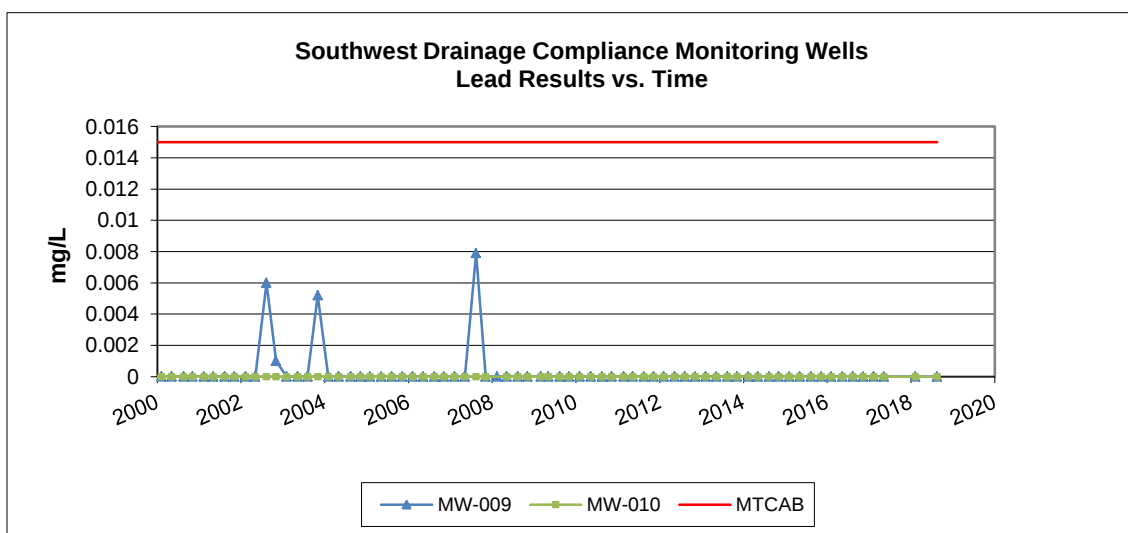
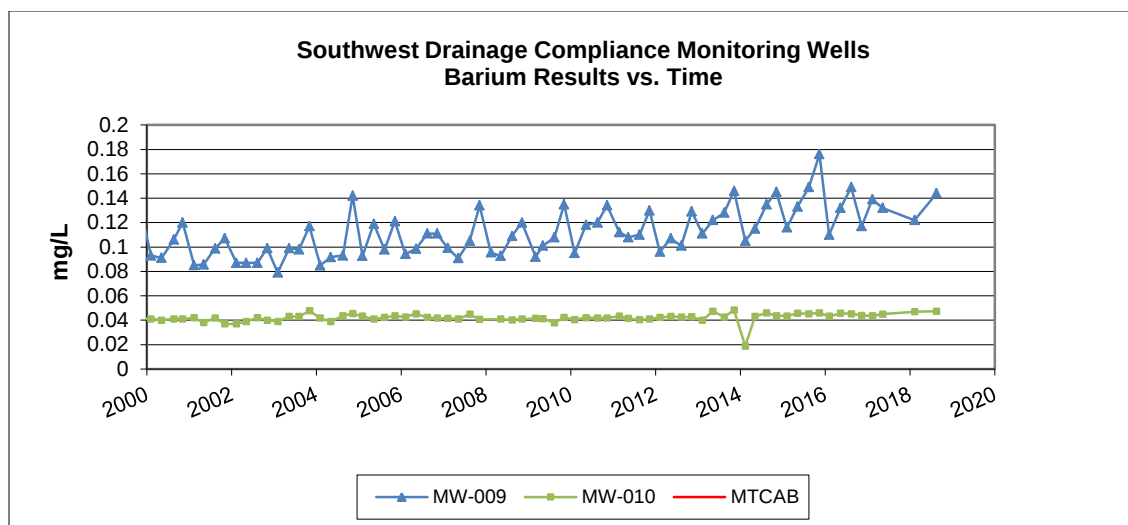
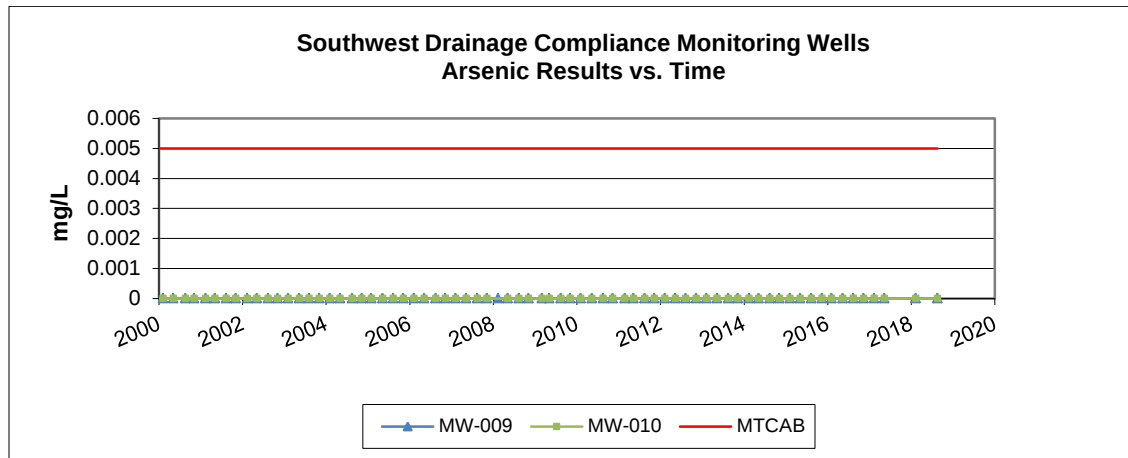


Figure 2-13 Southwest Drainage Monitoring Wells Inorganic Concentrations

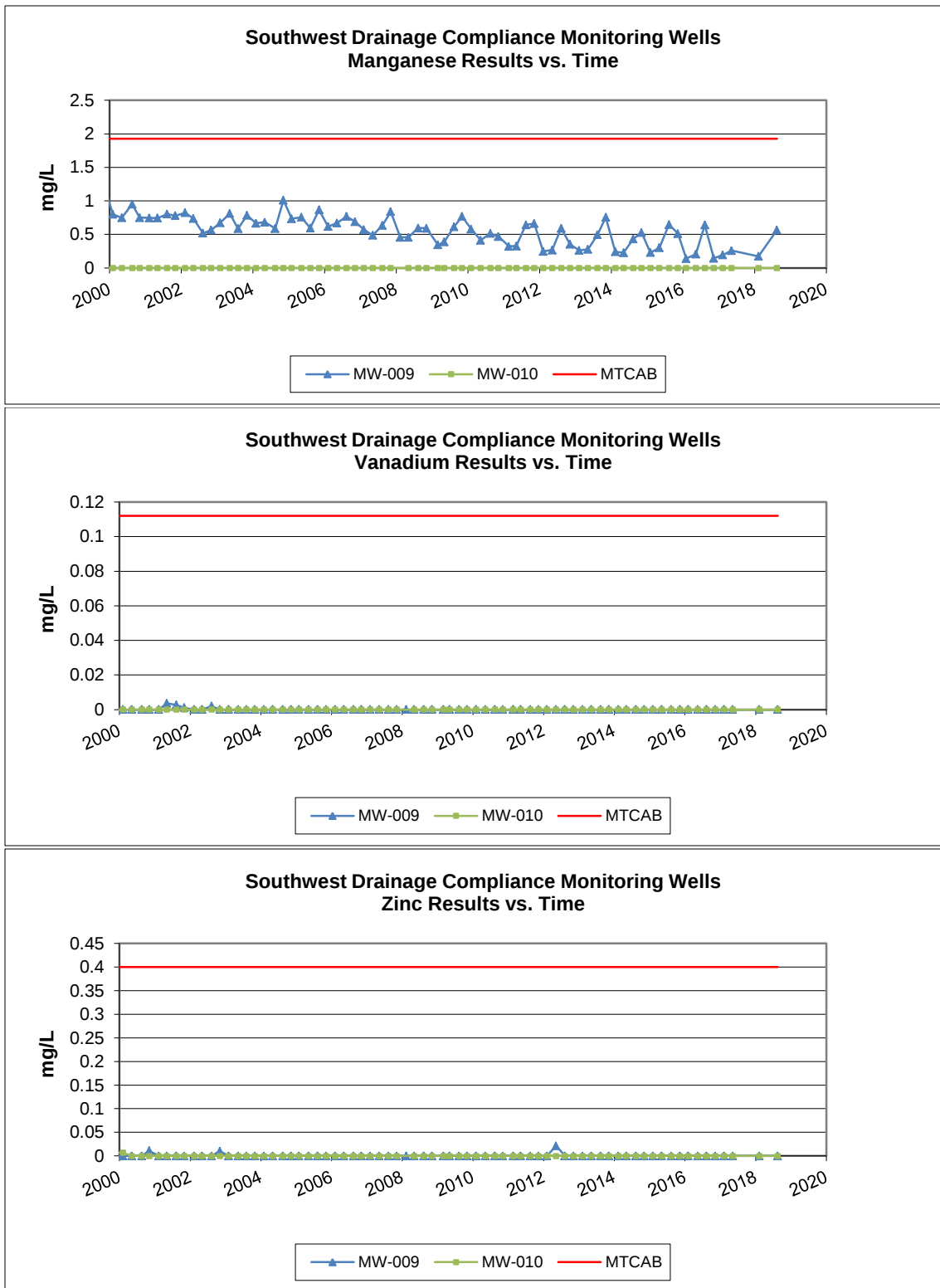


Figure 2-14 Southwest Drainage Monitoring Wells Conventional Concentrations

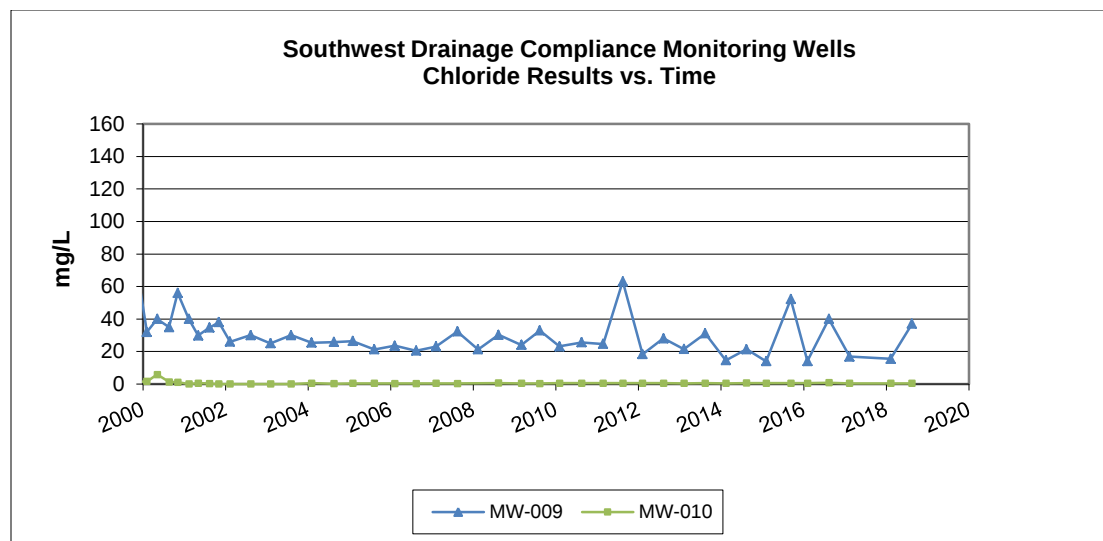
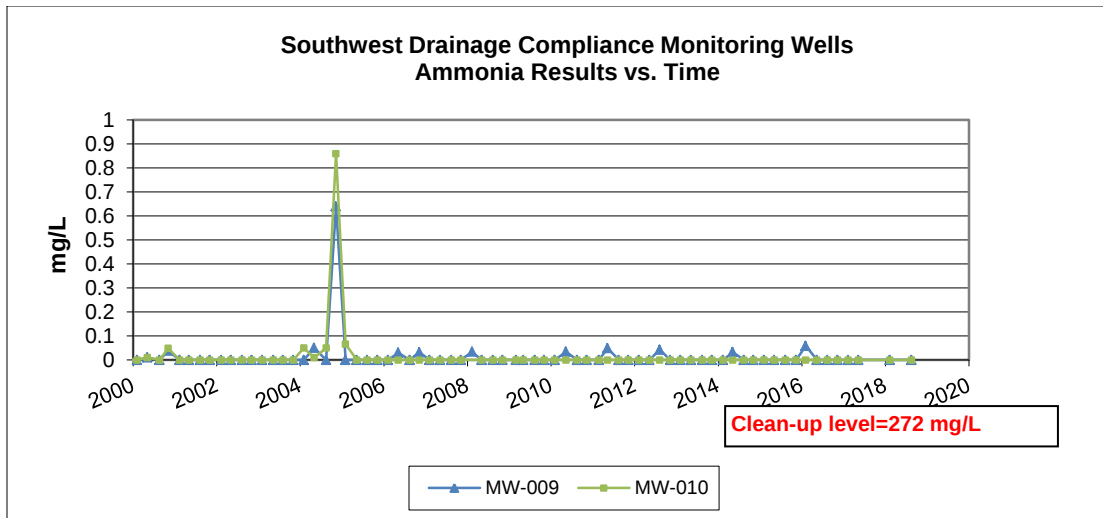
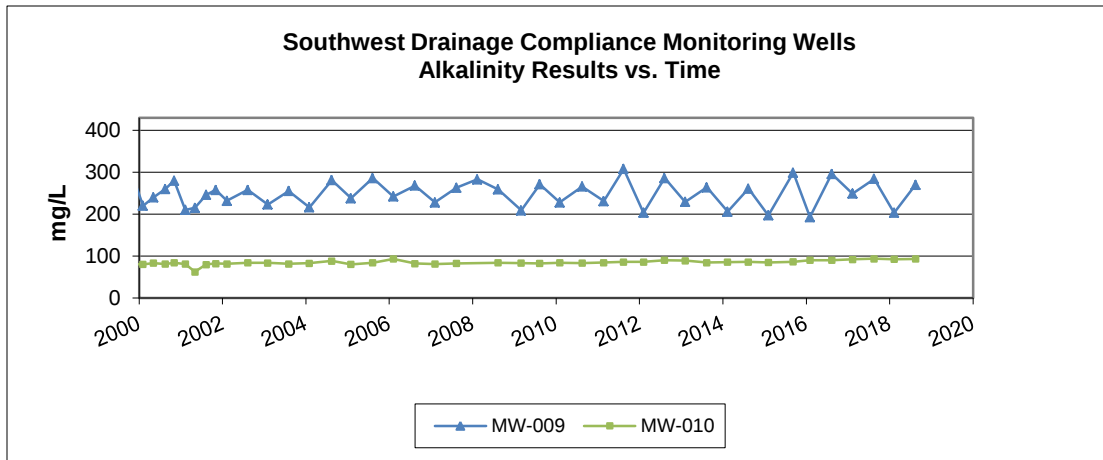


Figure 2-15 Southwest Drainage Area Monitoring Wells Conventional Concentrations

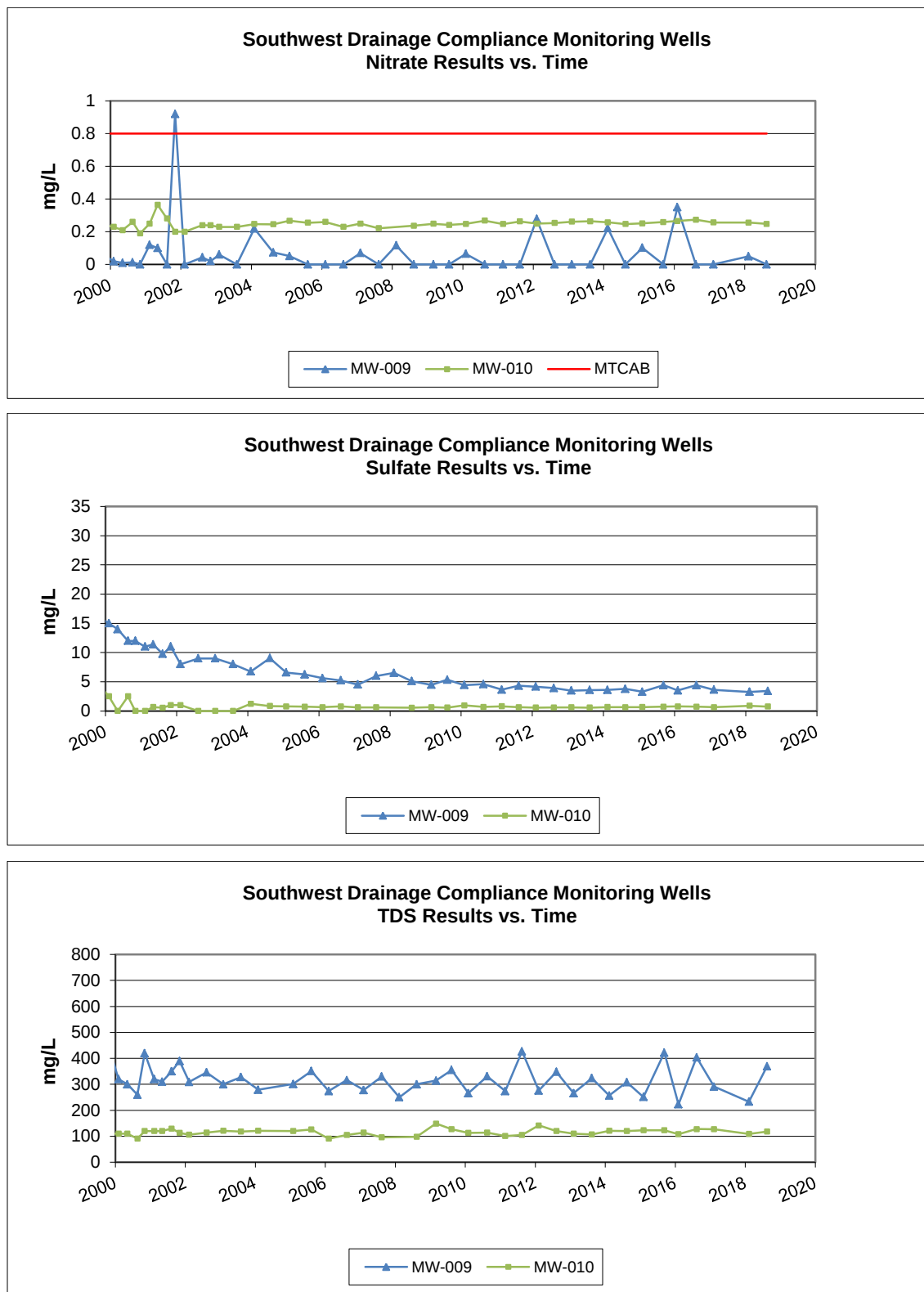


Figure 2-16 Southwest Drainage Area Monitoring Wells Conventional Concentrations

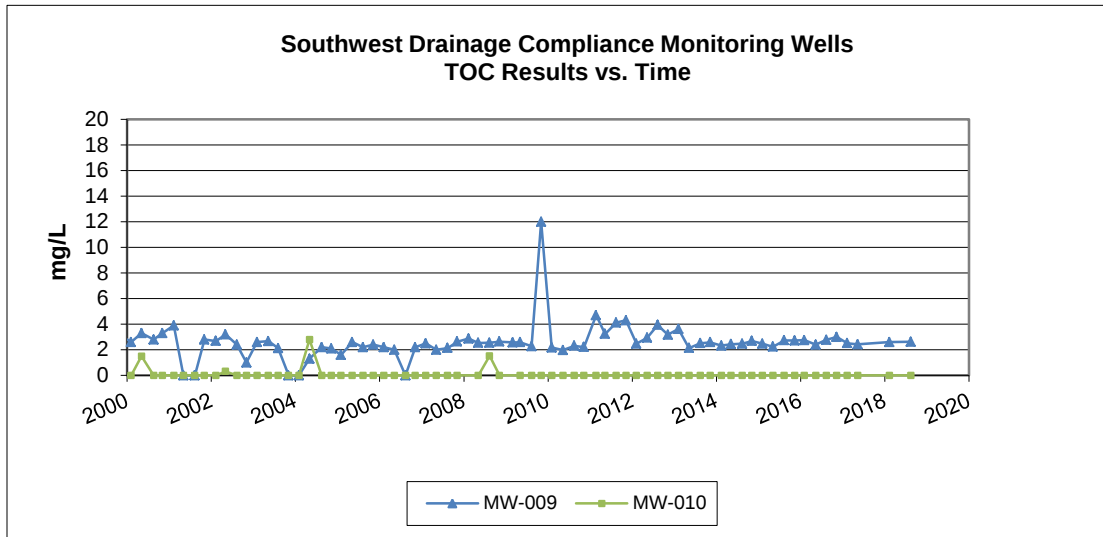


Figure 2-17 Southwest Drainage Area Monitoring Well MW-016 VOC Concentrations

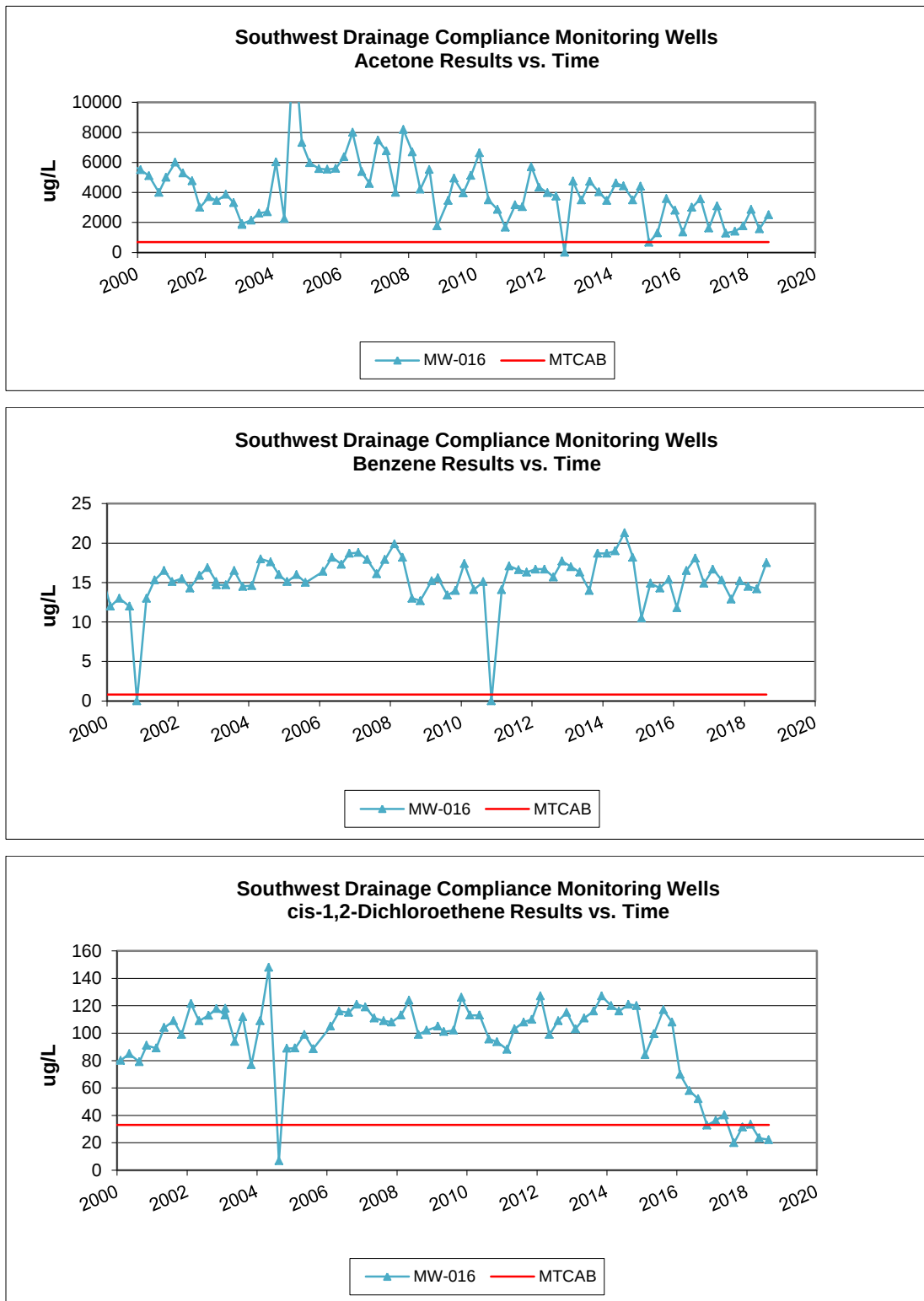


Figure 2-18 Southwest Drainage Area Monitoring Well MW-016 VOC Concentrations

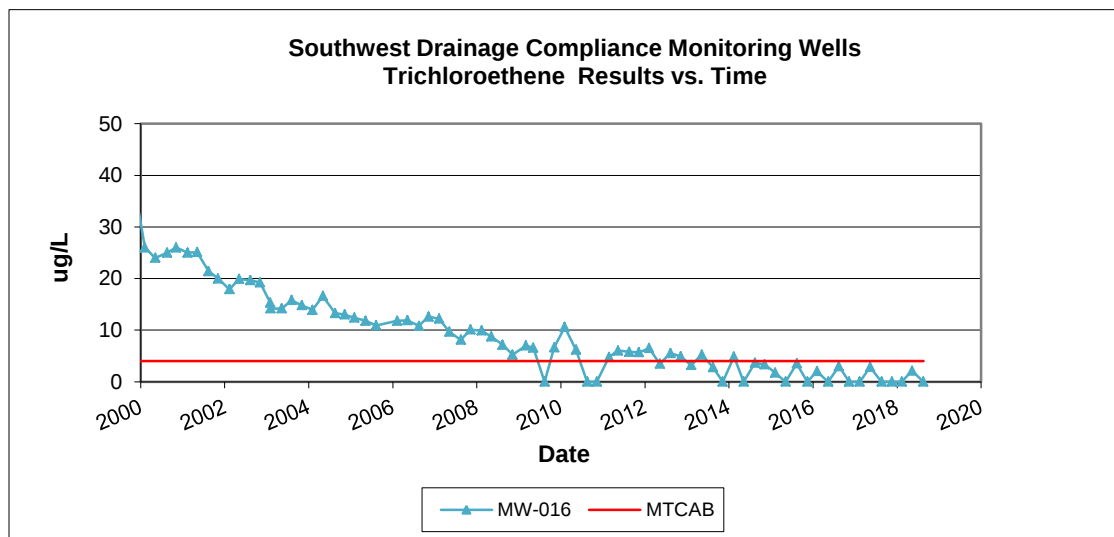
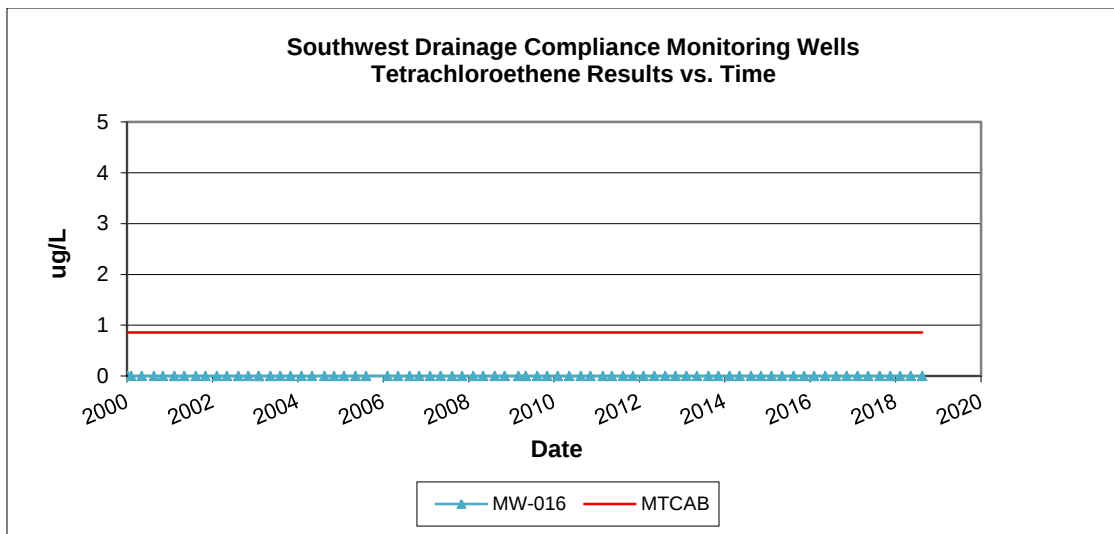
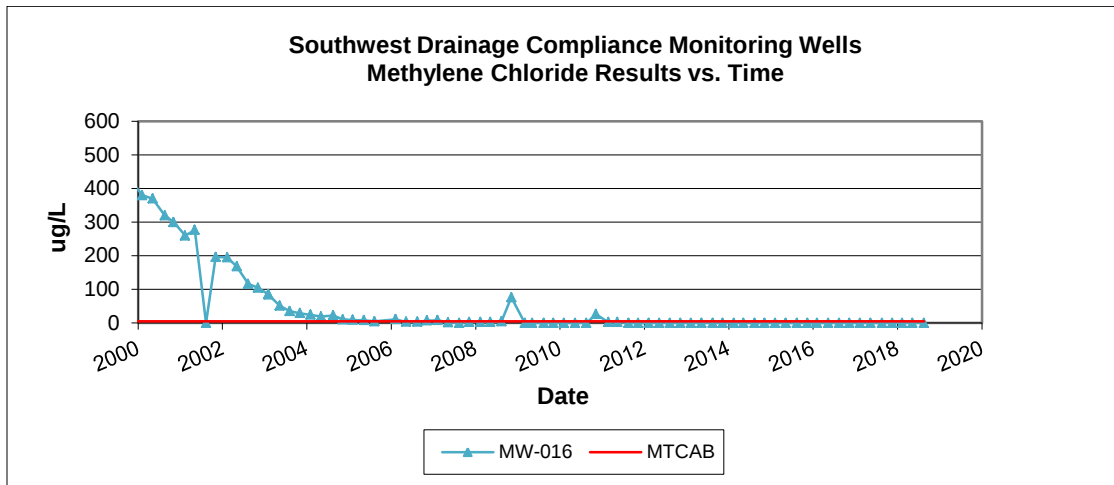


Figure 2-19 Southwest Drainage Area Monitoring Well MW-016 VOC Concentrations

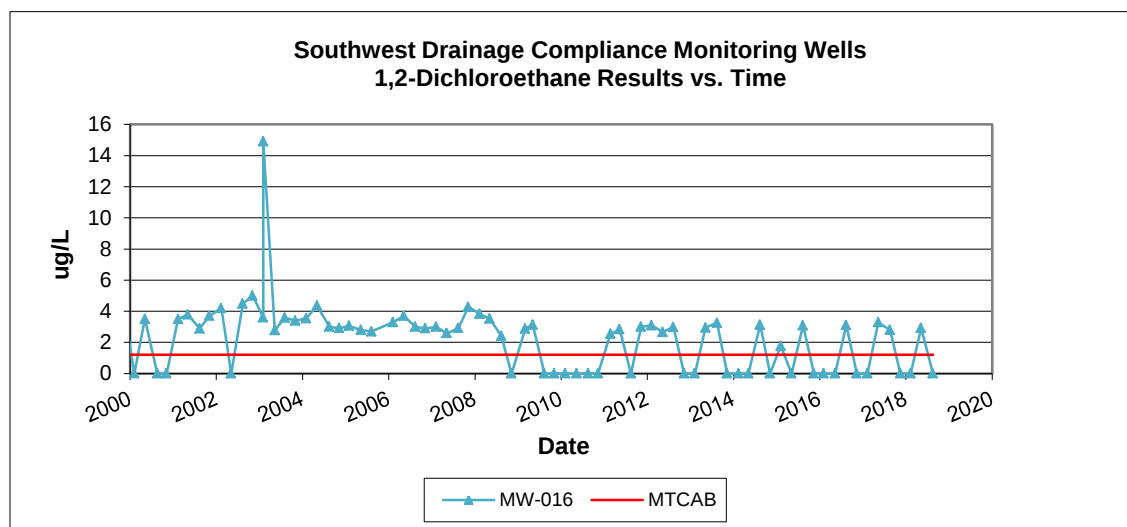
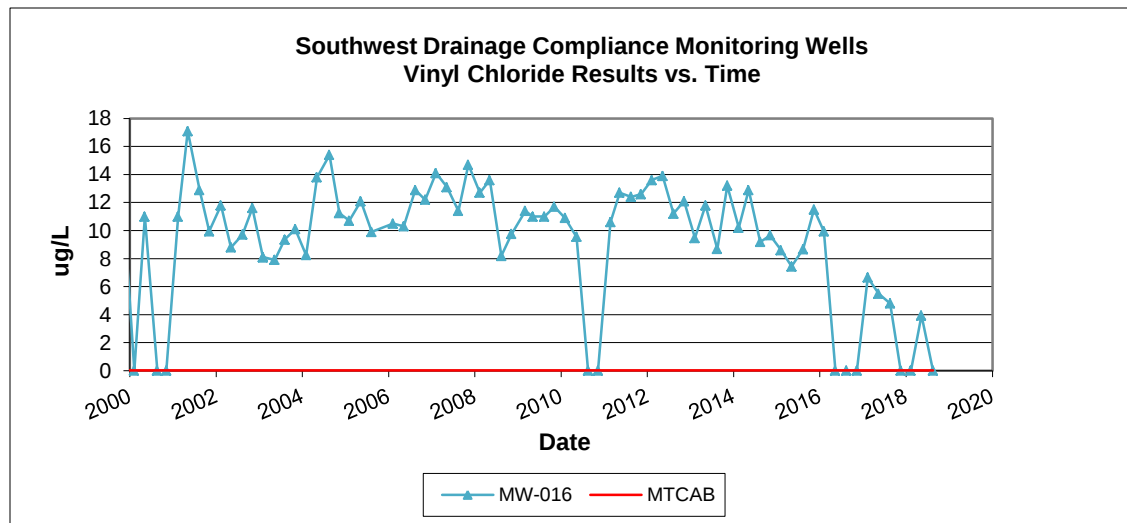
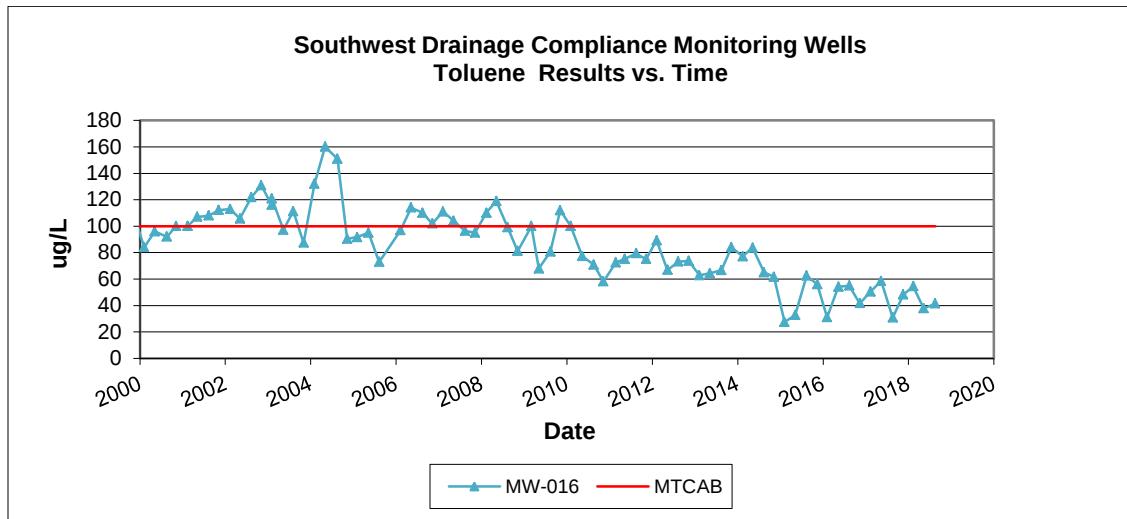


Figure 2-20 Southwest Drainage Area Monitoring Well MW-016 VOC Concentrations

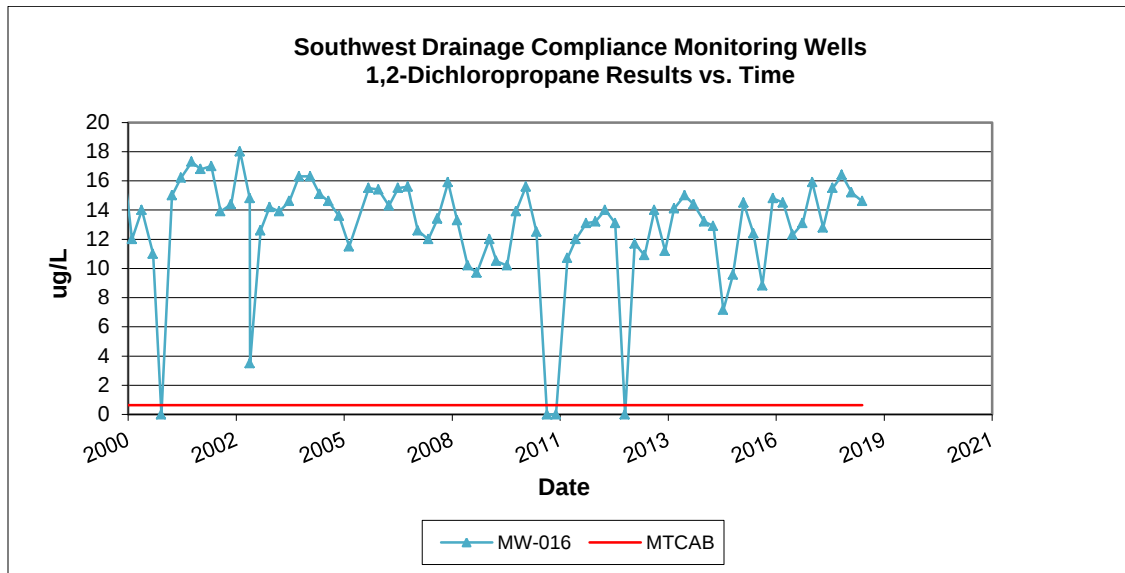


Figure 2-21 Southwest Drainage Area Monitoring Well MW-016 Inorganic Concentrations

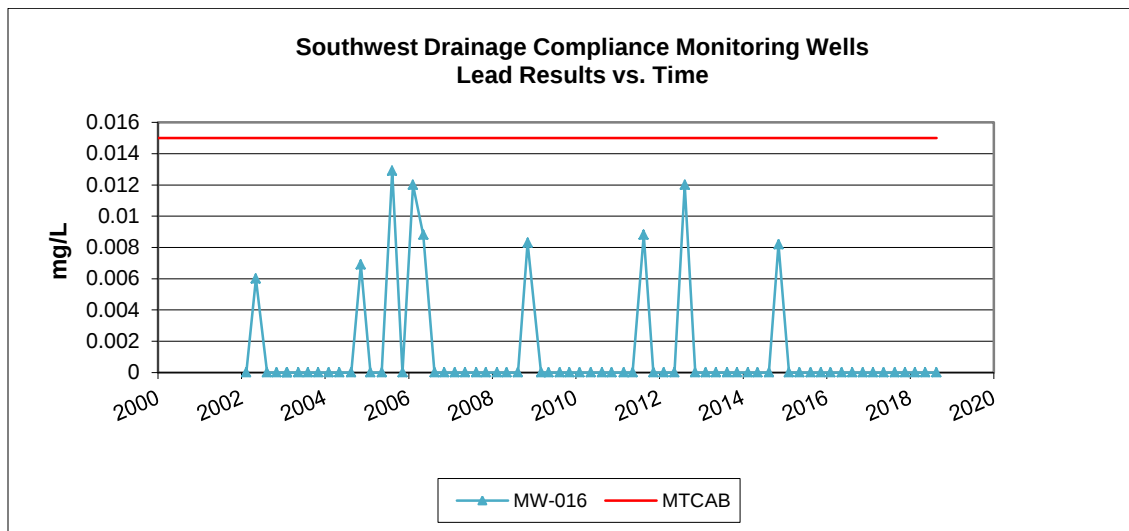
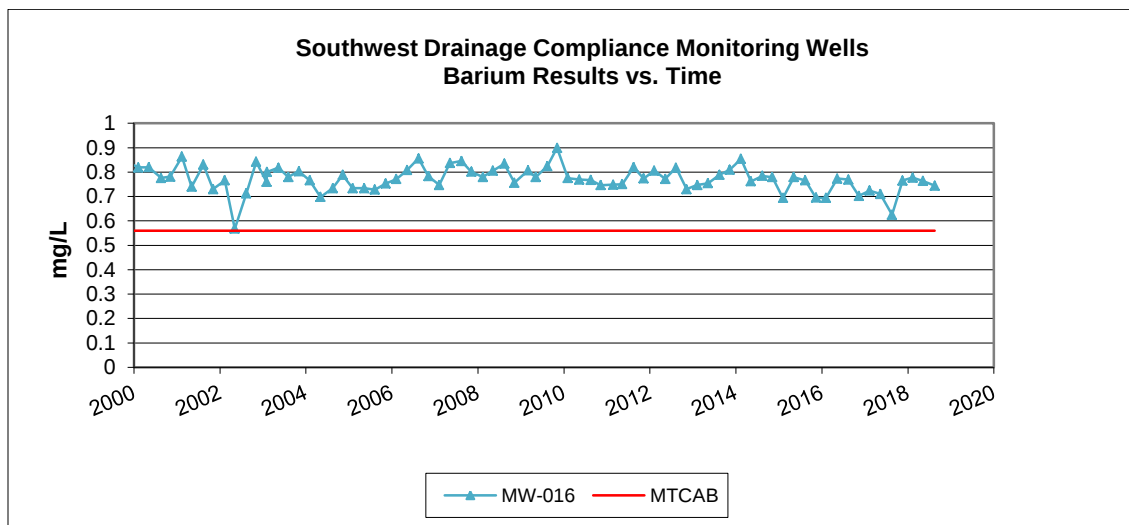
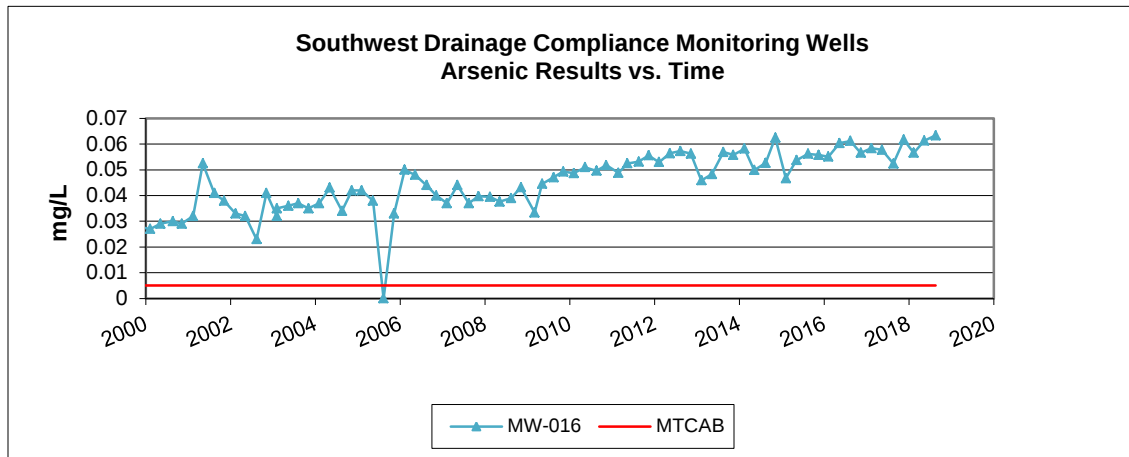


Figure 2-22 Southwest Drainage Area Monitoring Well MW-016 Inorganic Concentrations

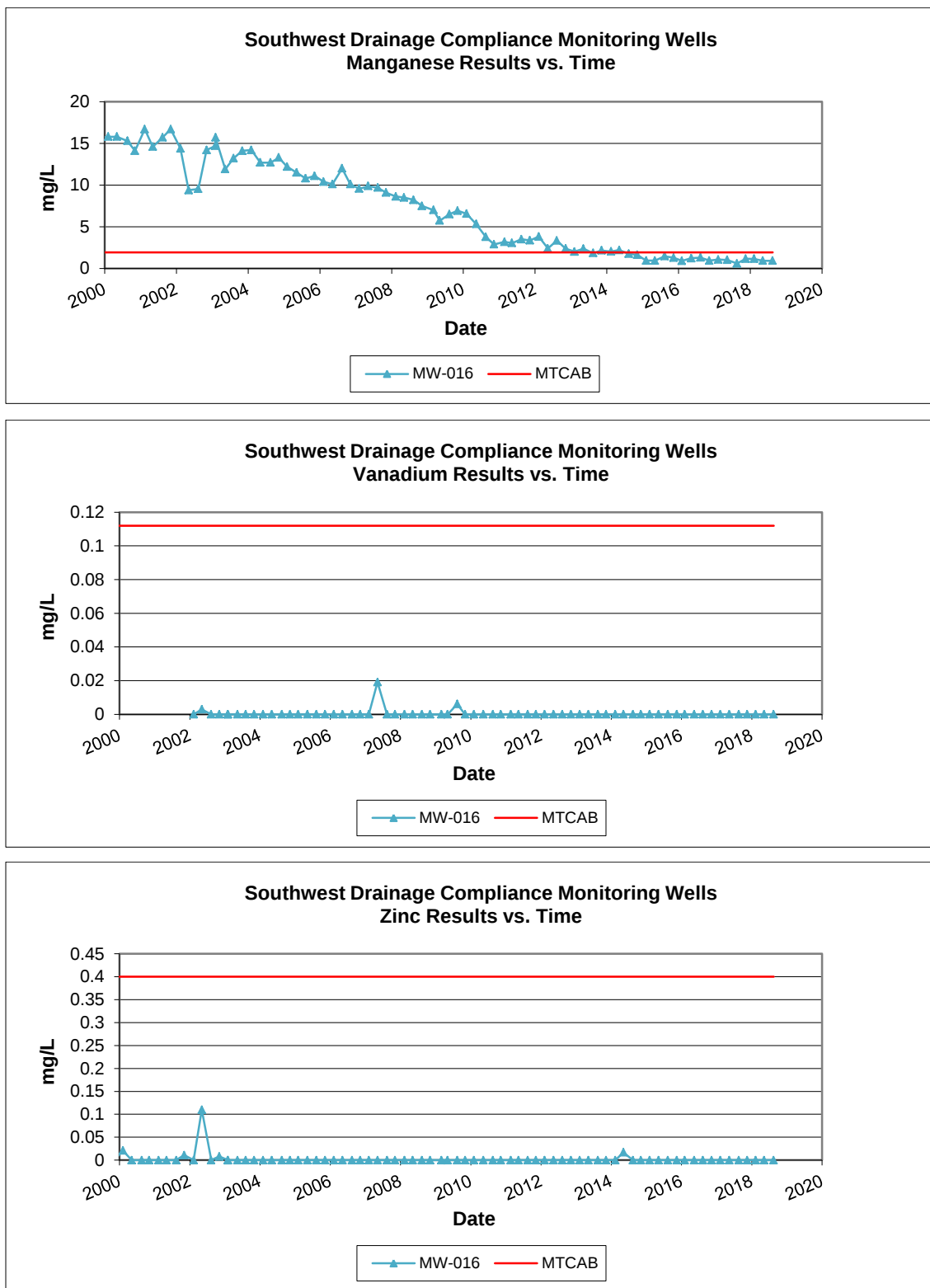


Figure 2-23 Southwest Drainage Area Monitoring Well MW-016 Conventional Concentrations

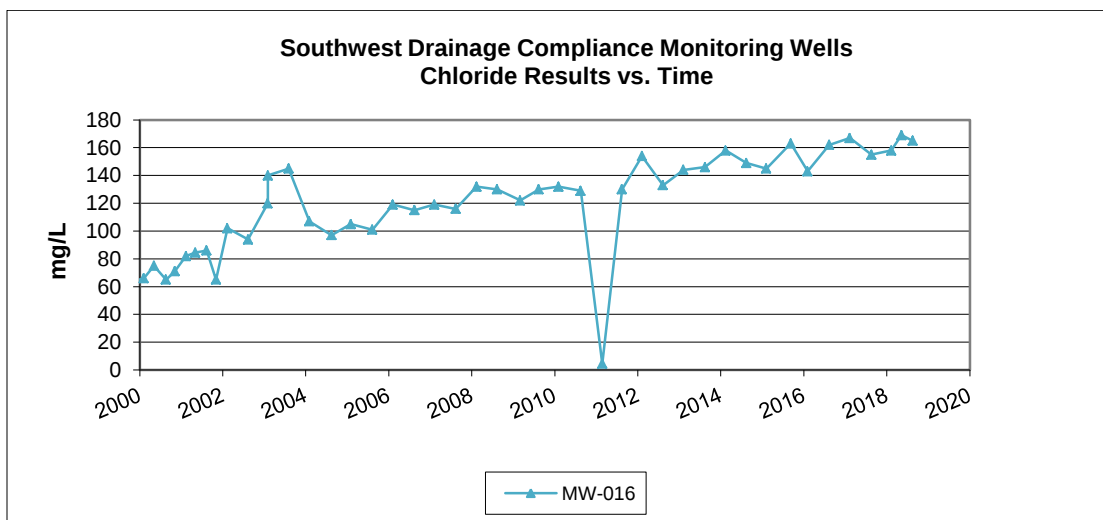
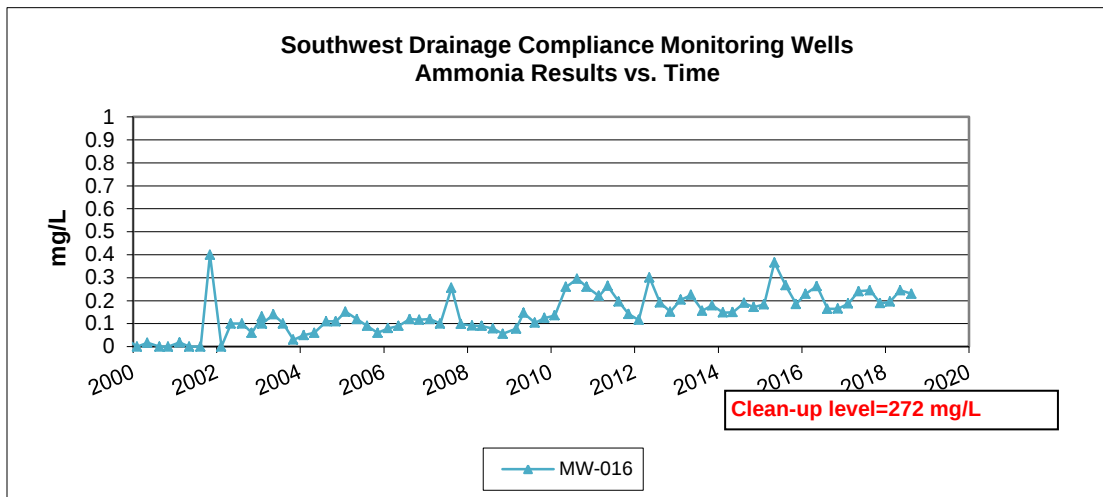
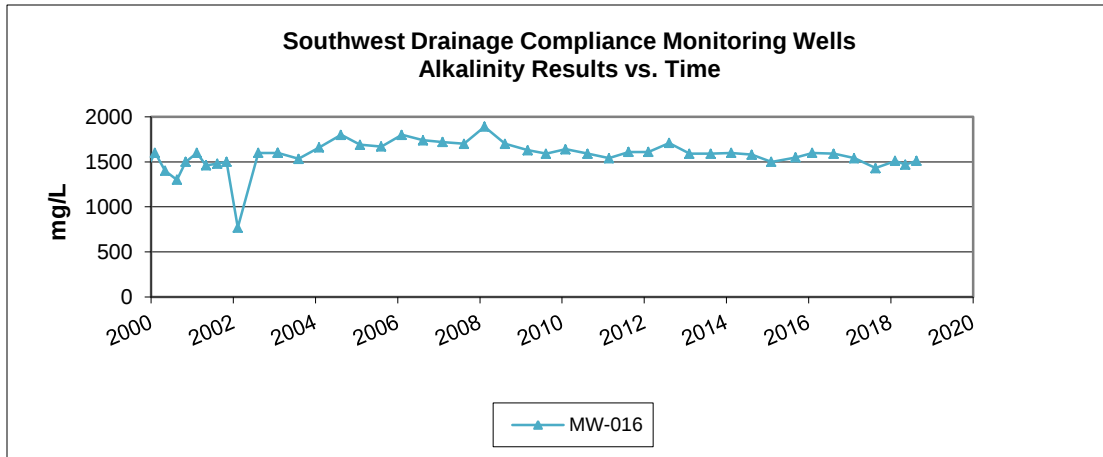


Figure 2-24 Southwest Drainage Area Monitoring Well MW-016 Conventional Concentrations

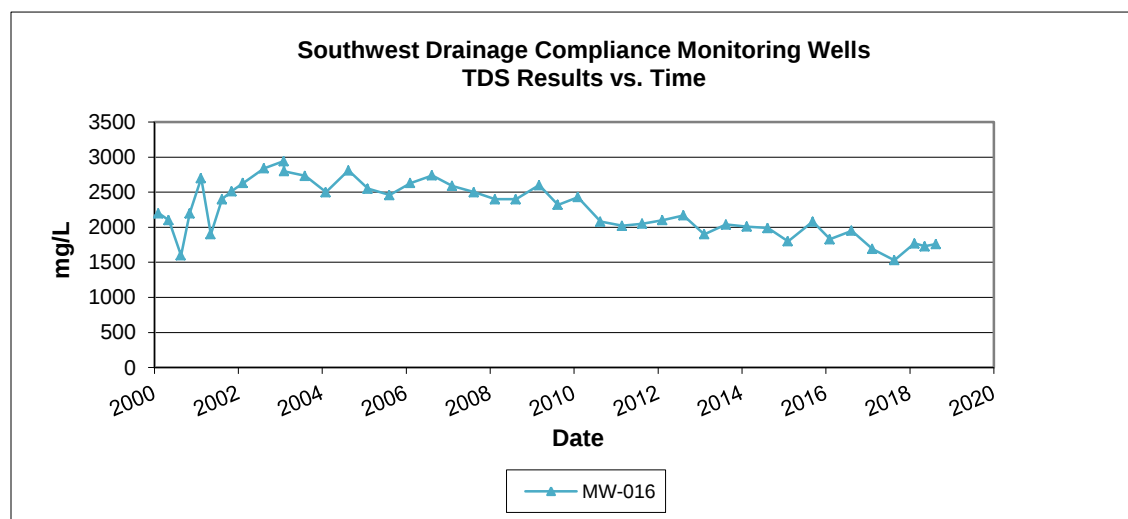
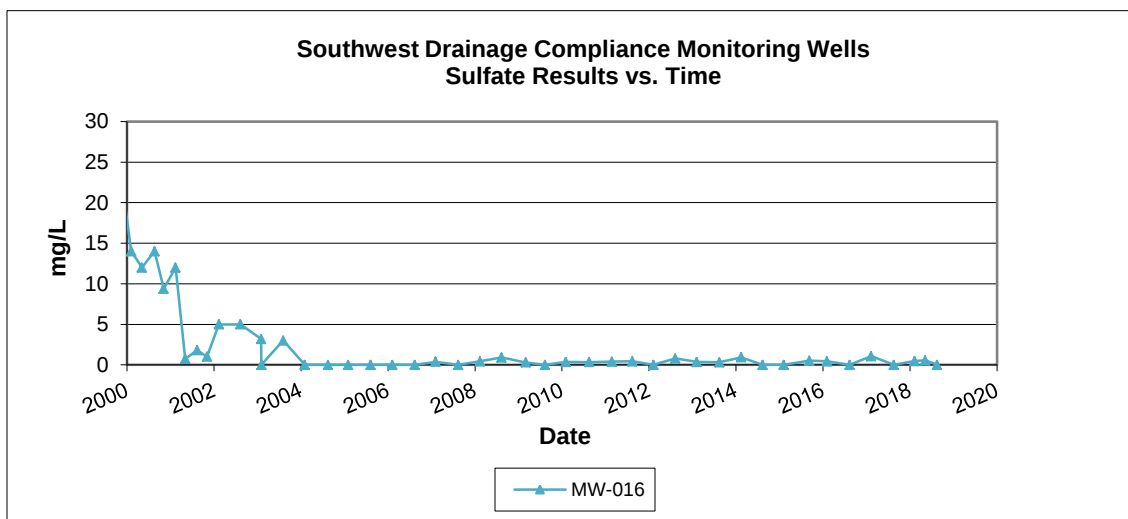
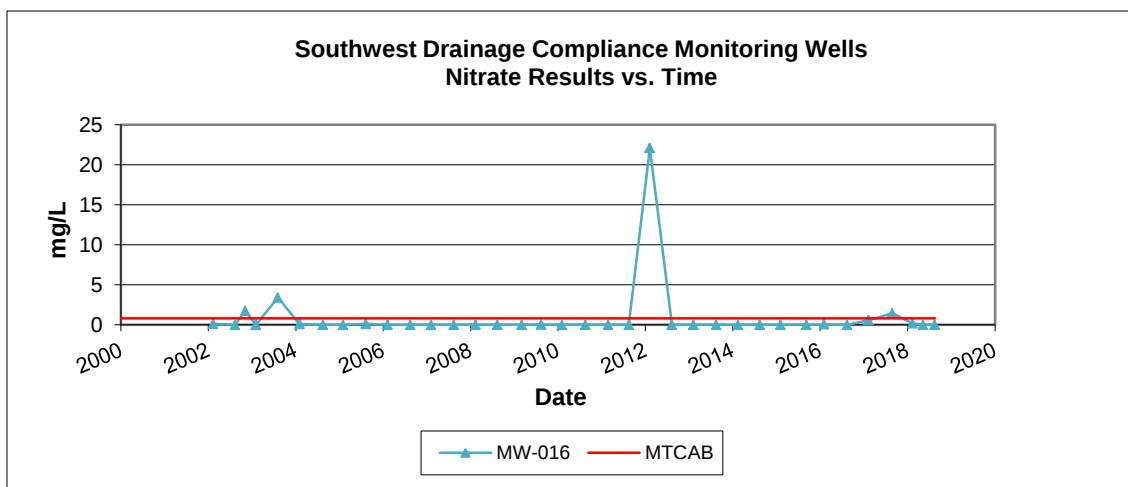


Figure 2-25 Southwest Drainage Area Monitoring Well MW-016 Conventional Concentrations

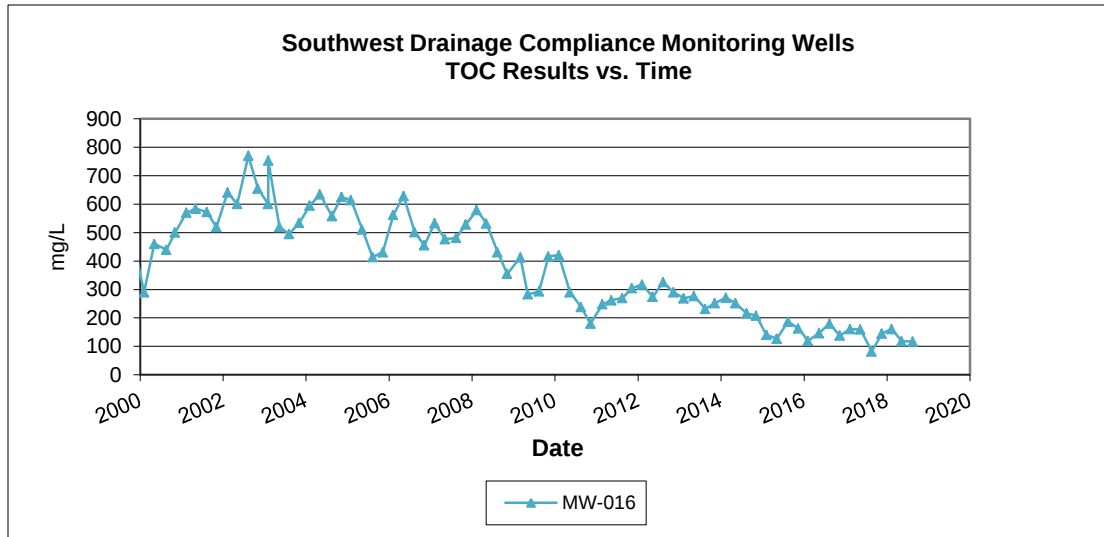


Figure 2-26 South Drainage Area Monitoring Wells VOC Concentrations

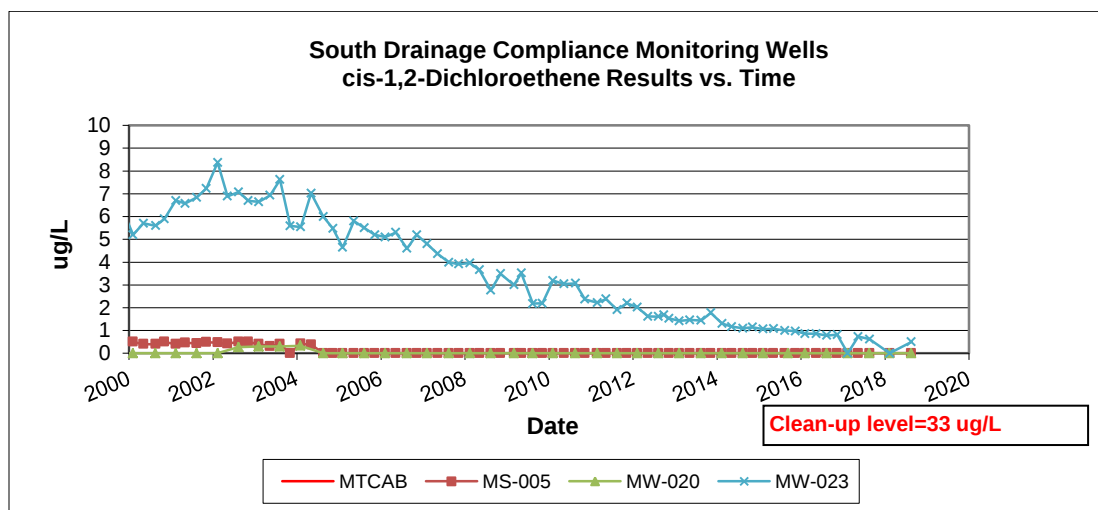
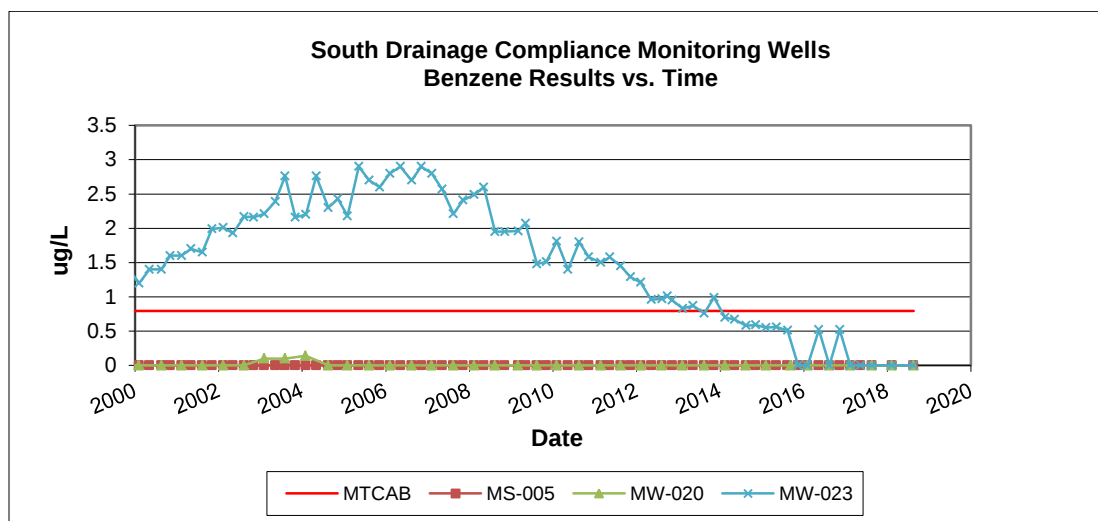
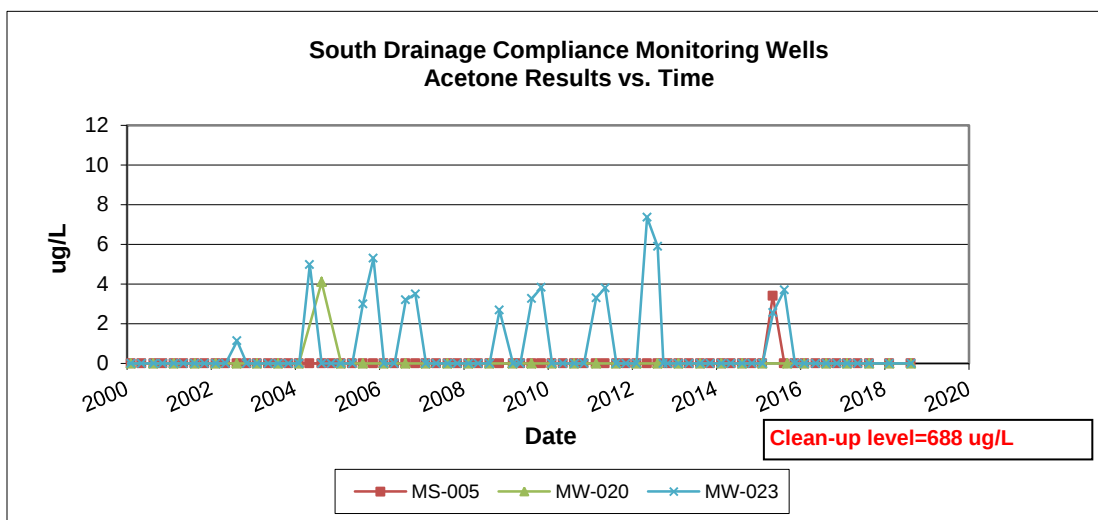


Figure 2-27 South Drainage Area Monitoring Well VOC Concentrations

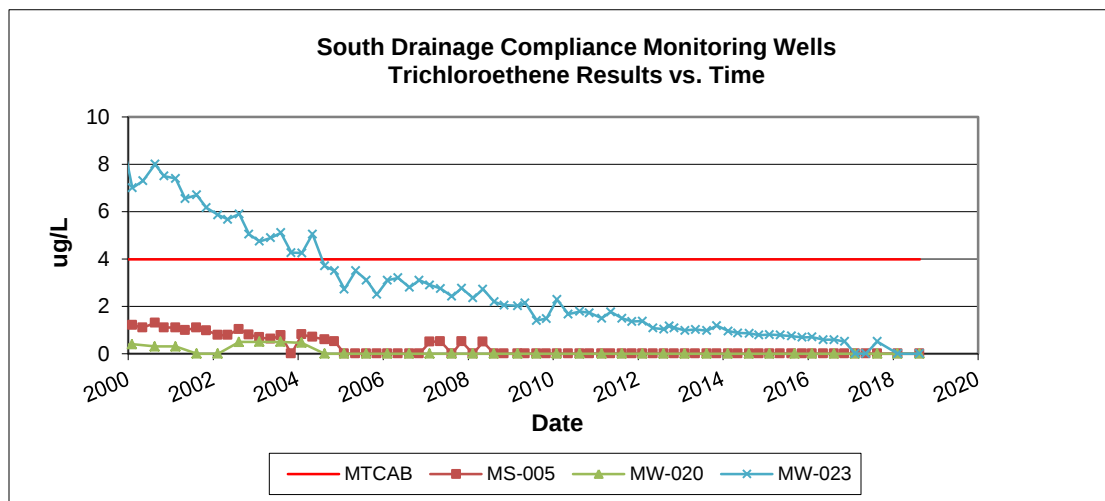
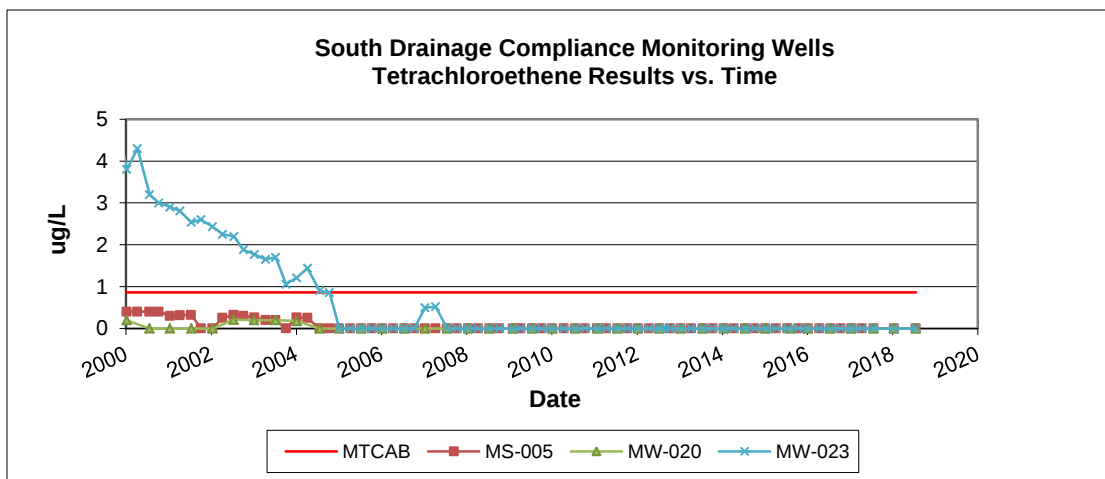
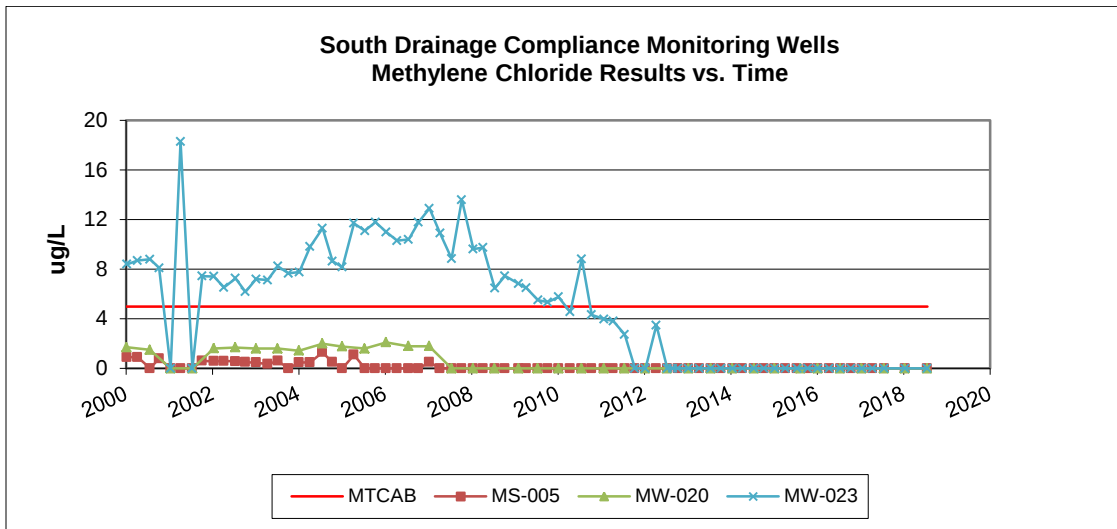


Figure 2-28 South Drainage Area Monitoring Wells VOC Concentrations

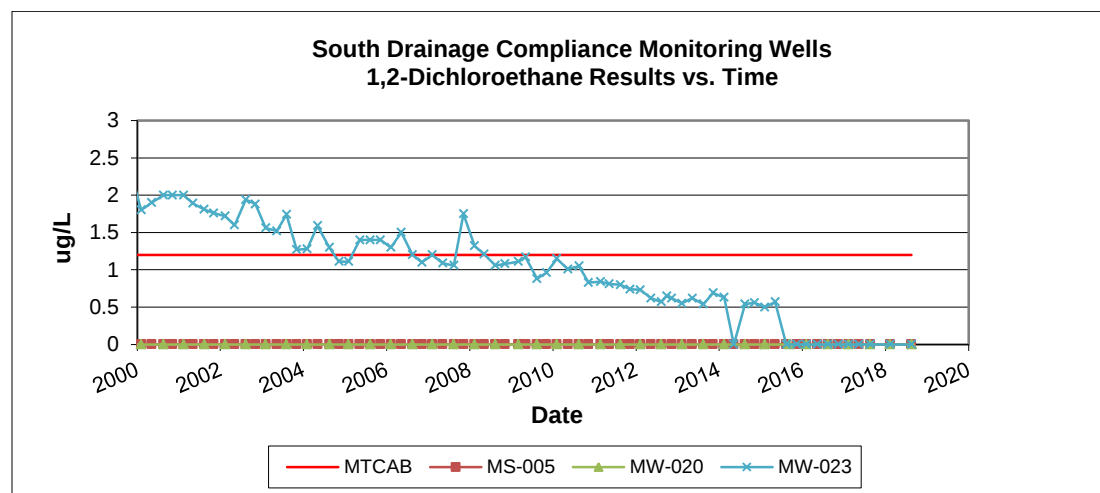
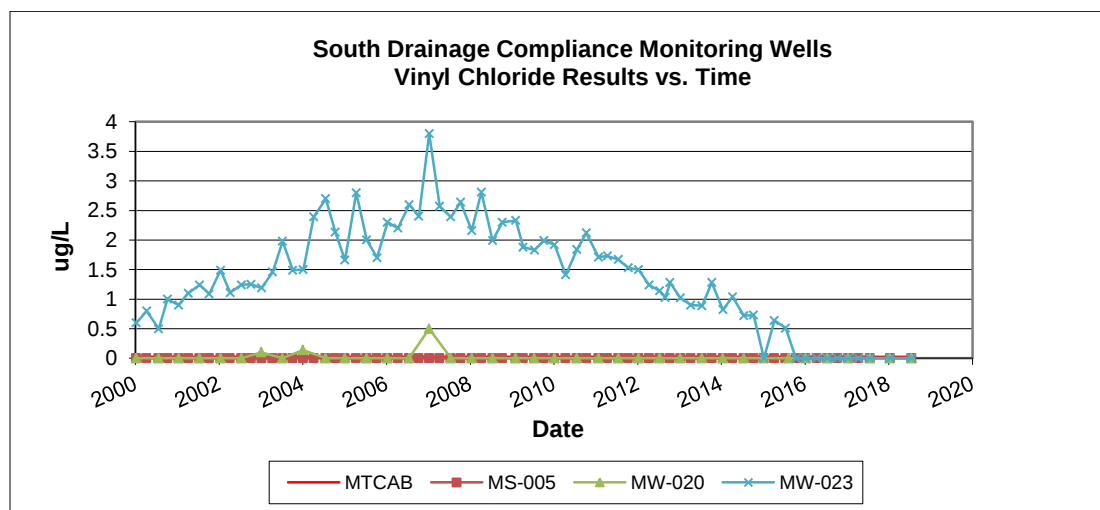
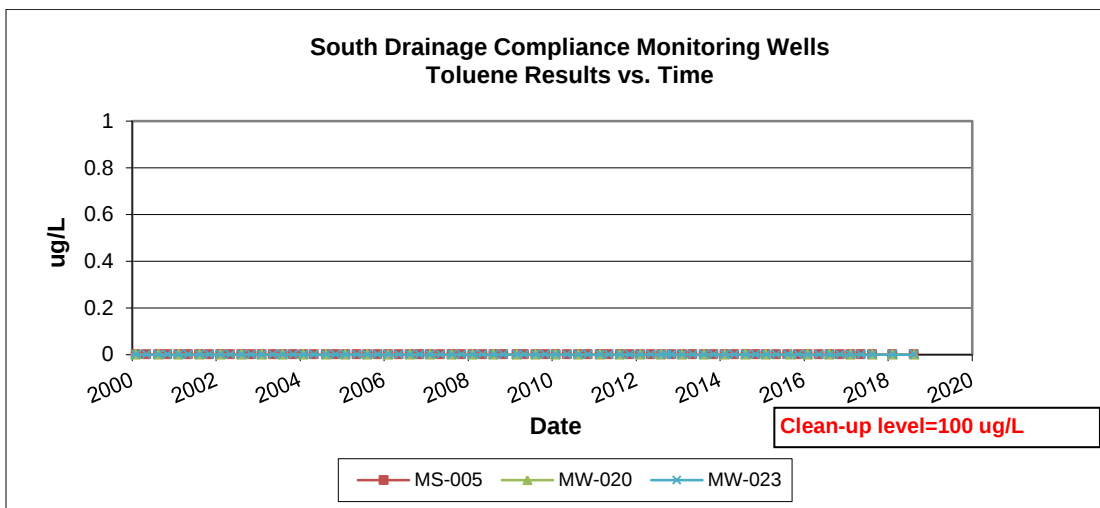


Figure 2-29 South Drainage Monitoring Wells VOC Concentrations

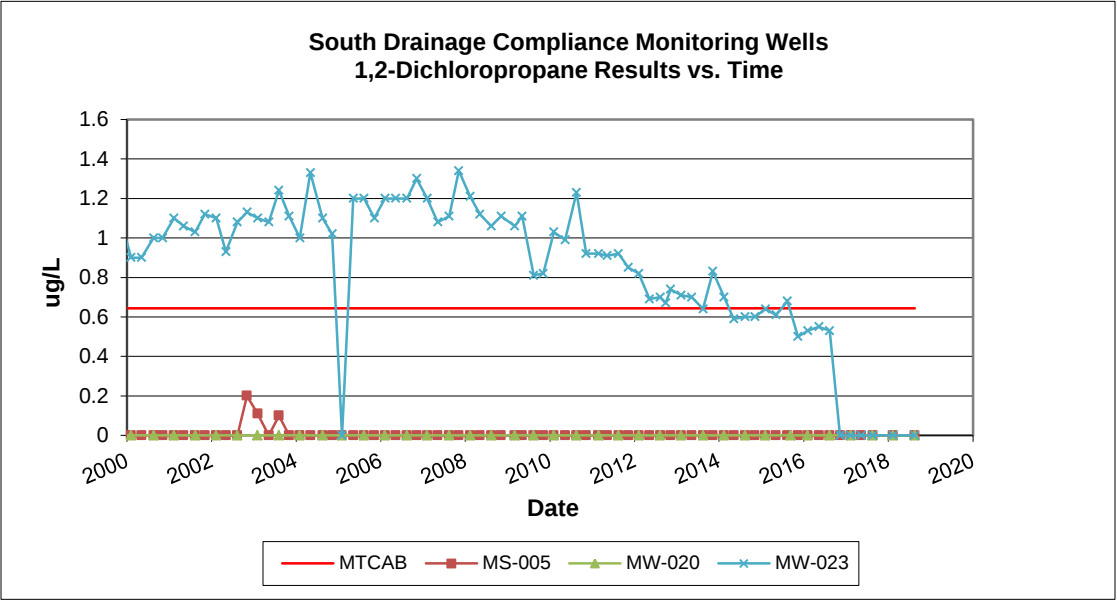


Figure 2-30 South Drainage Monitoring Wells Inorganic Concentrations

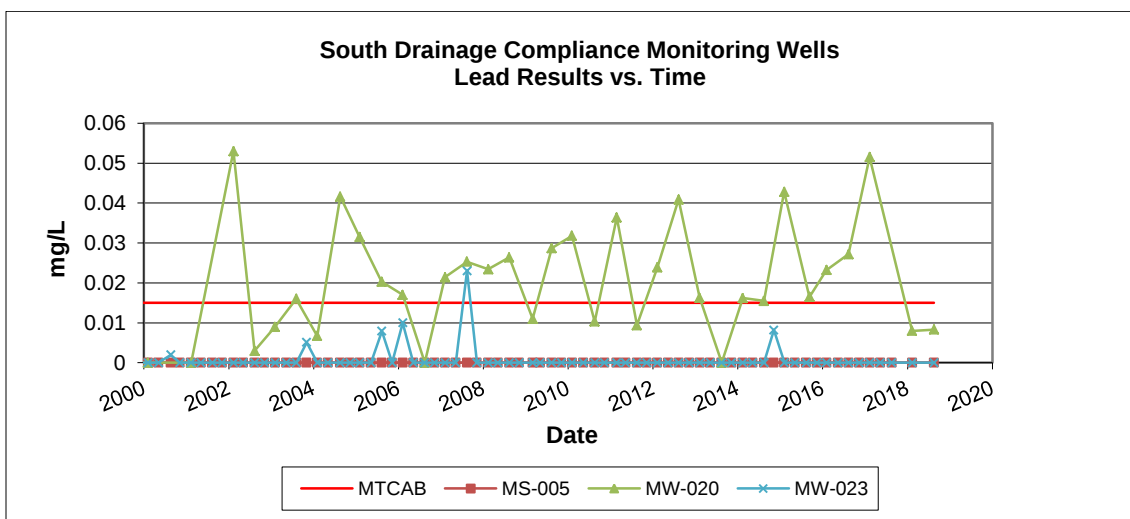
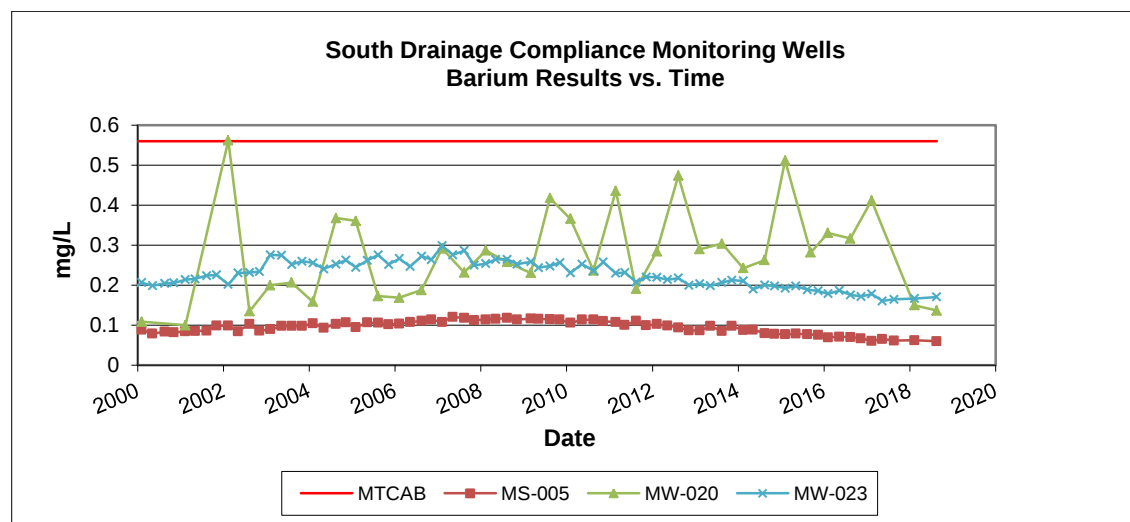
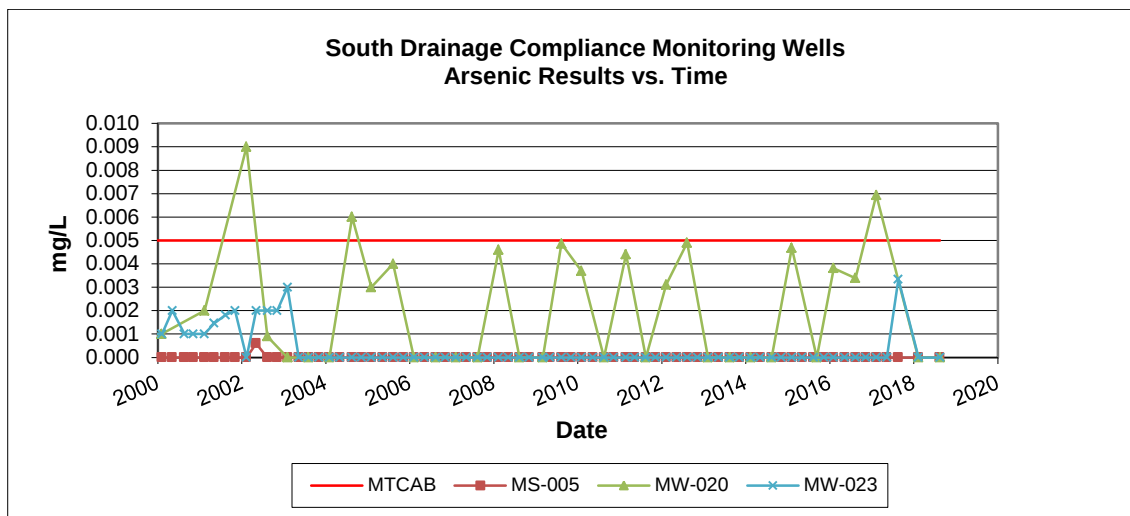


Figure 2-31 South Drainage Monitoring Wells Inorganic Concentrations

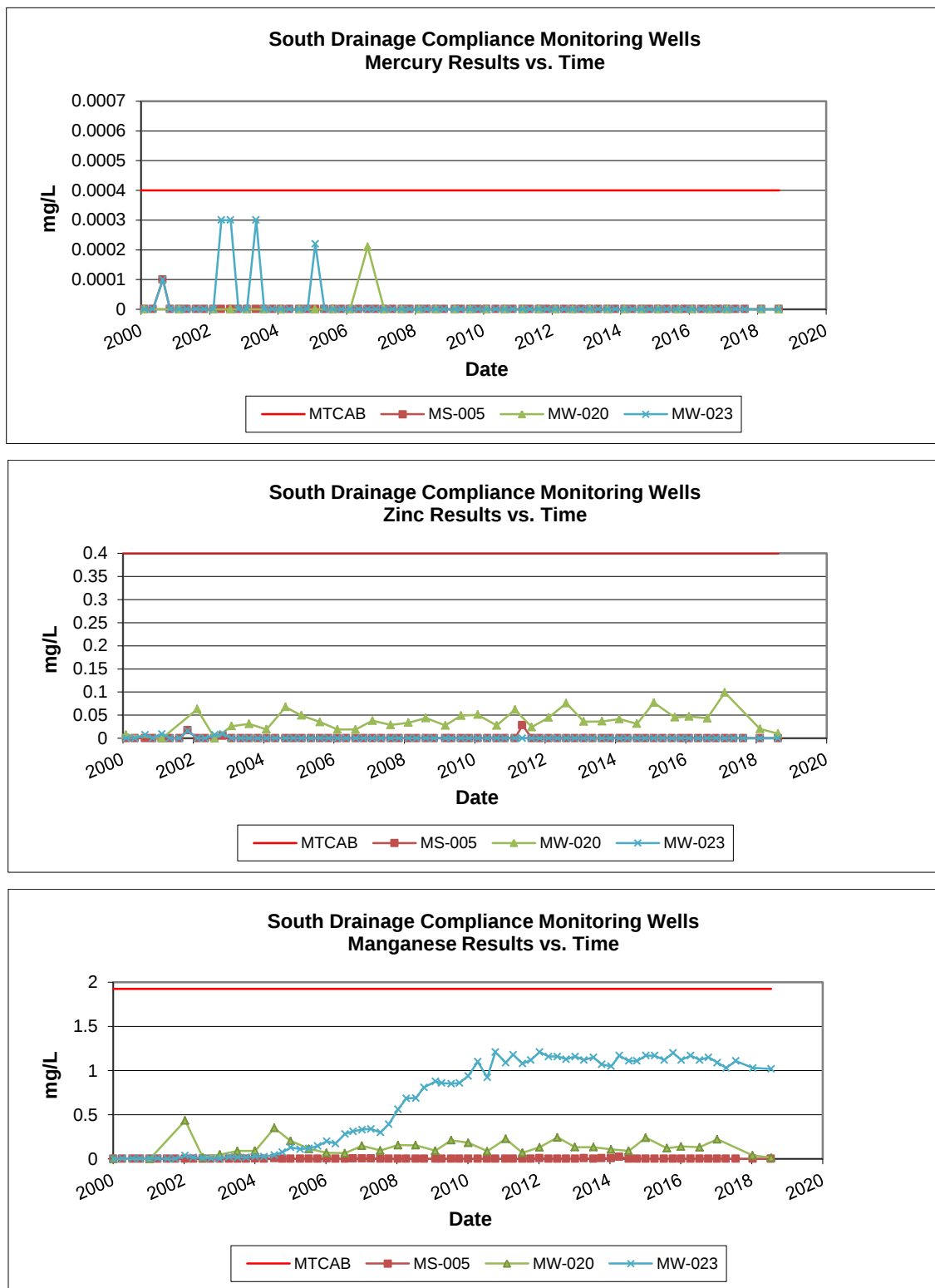


Figure 2-32 South Drainage Monitoring Wells Conventional Concentrations

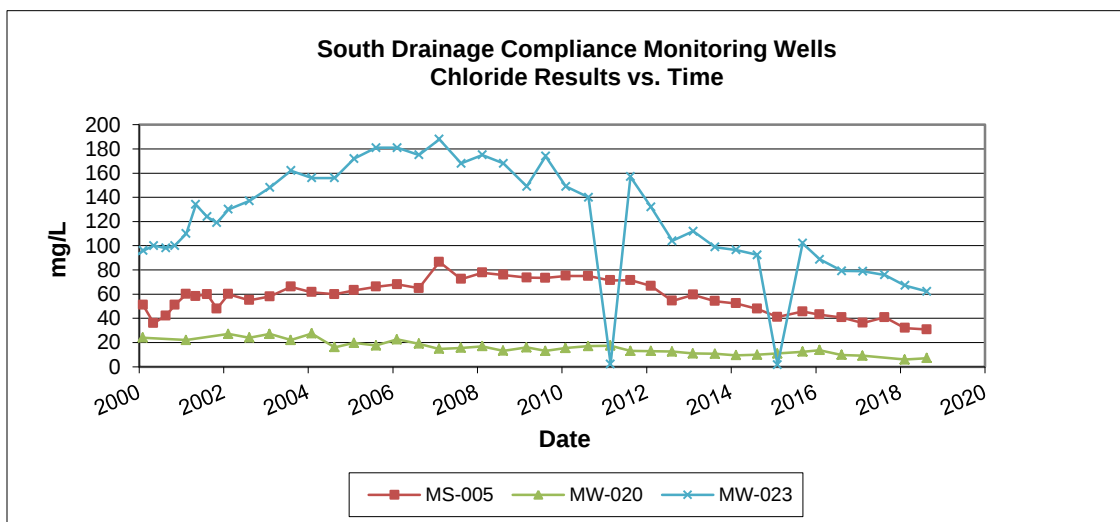
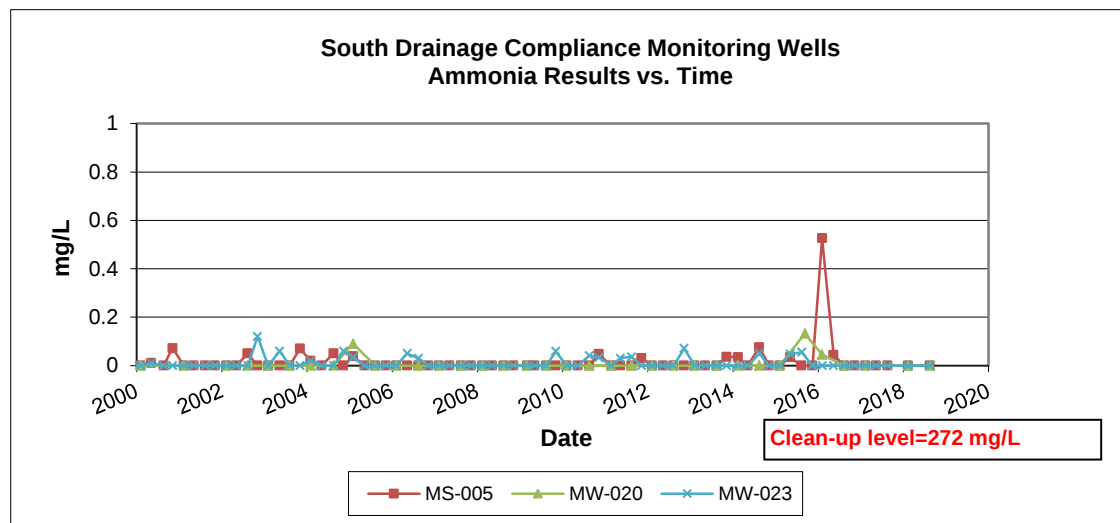
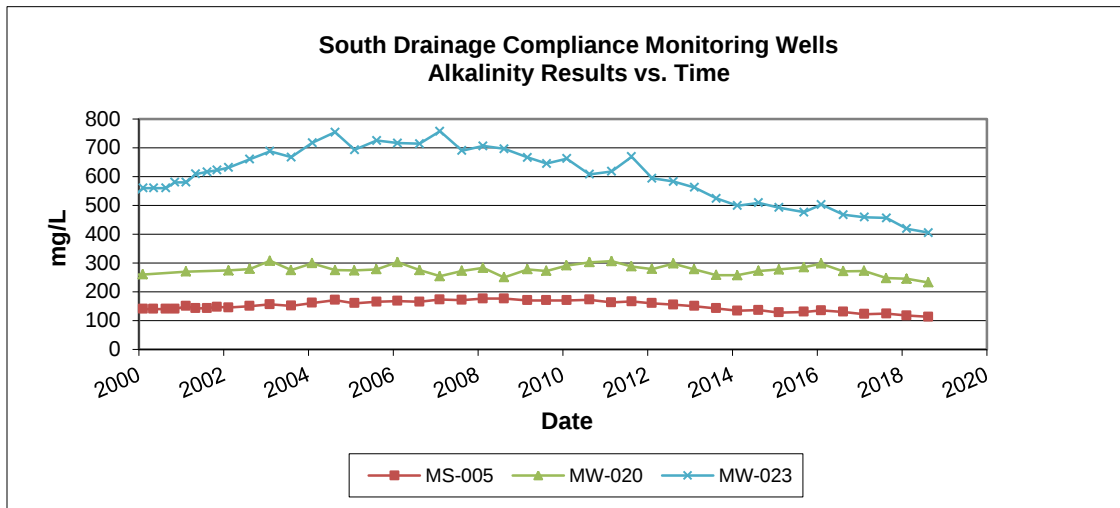


Figure 2-33 South Drainage Monitoring Wells Conventional Concentrations

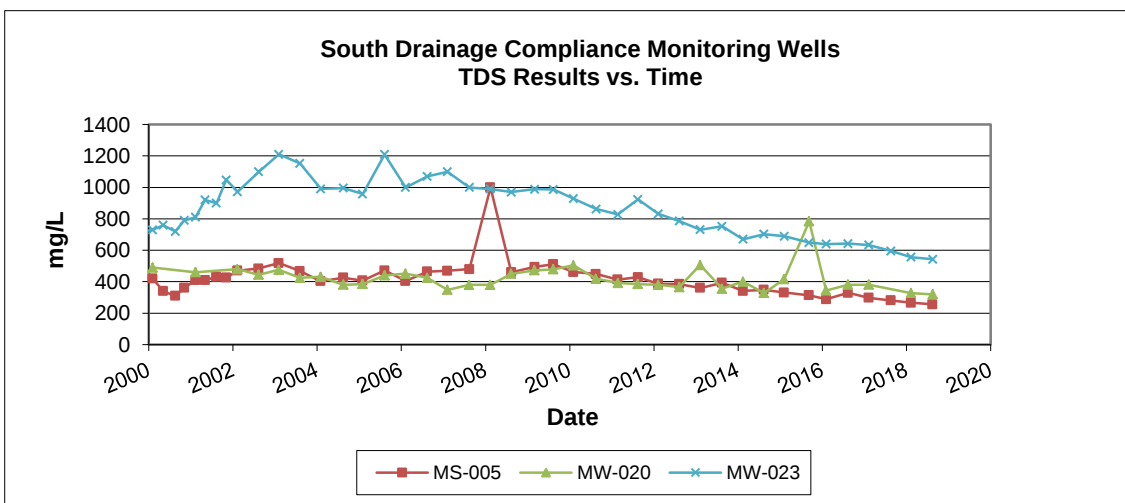
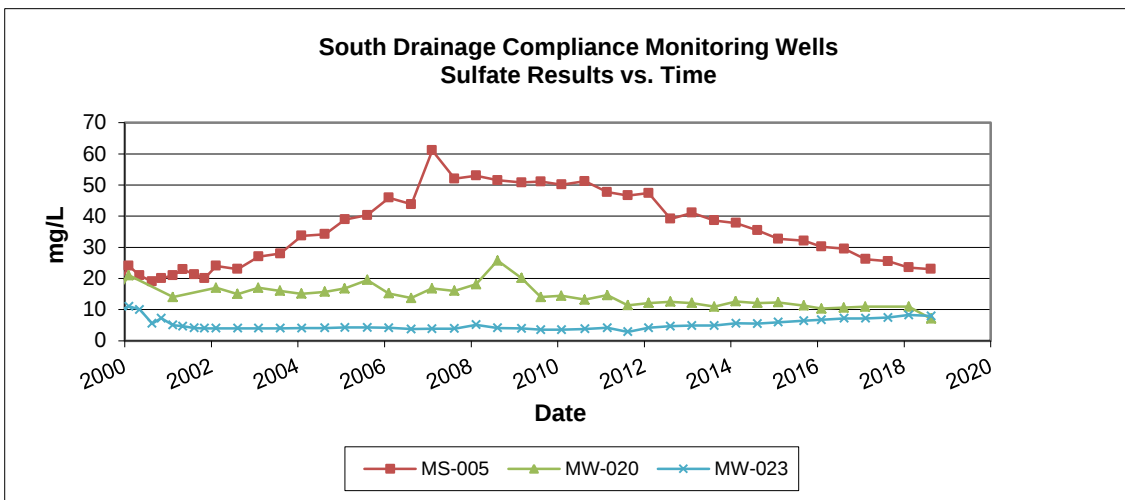
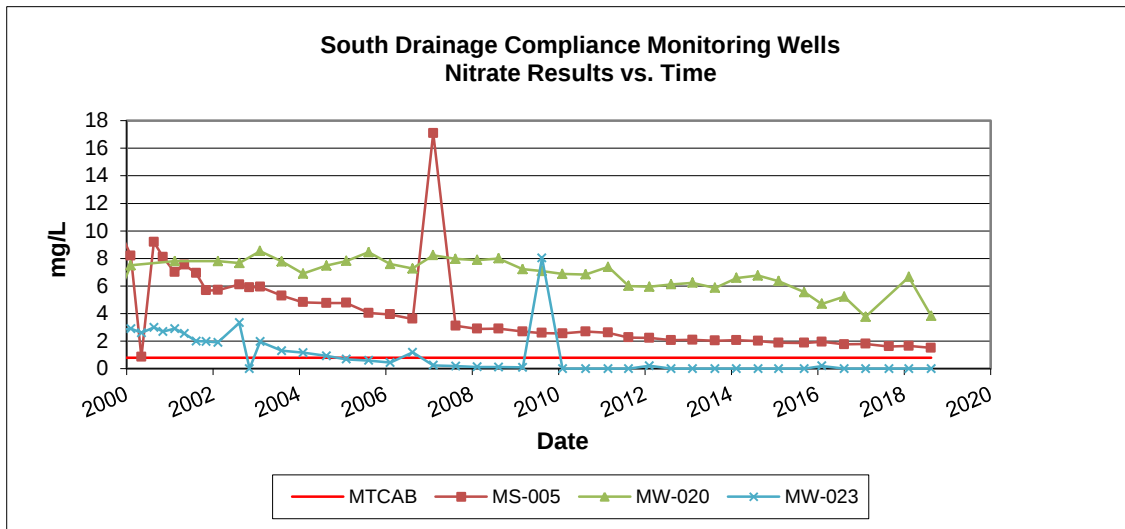


Figure 2-34 South Drainage Monitoring Wells Conventional Concentrations

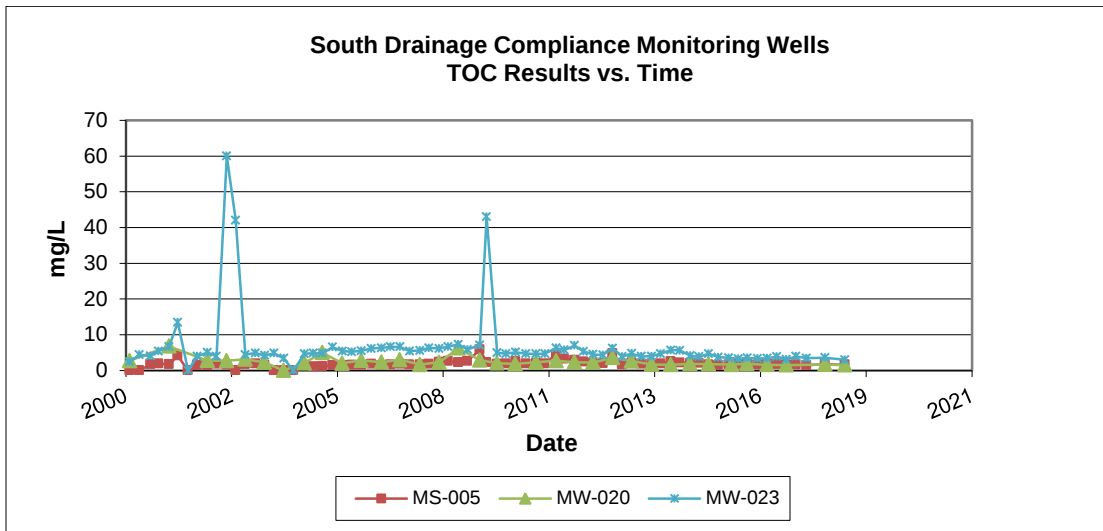


Figure 2-35 Southeast Drainage Monitoring Wells VOC Concentrations

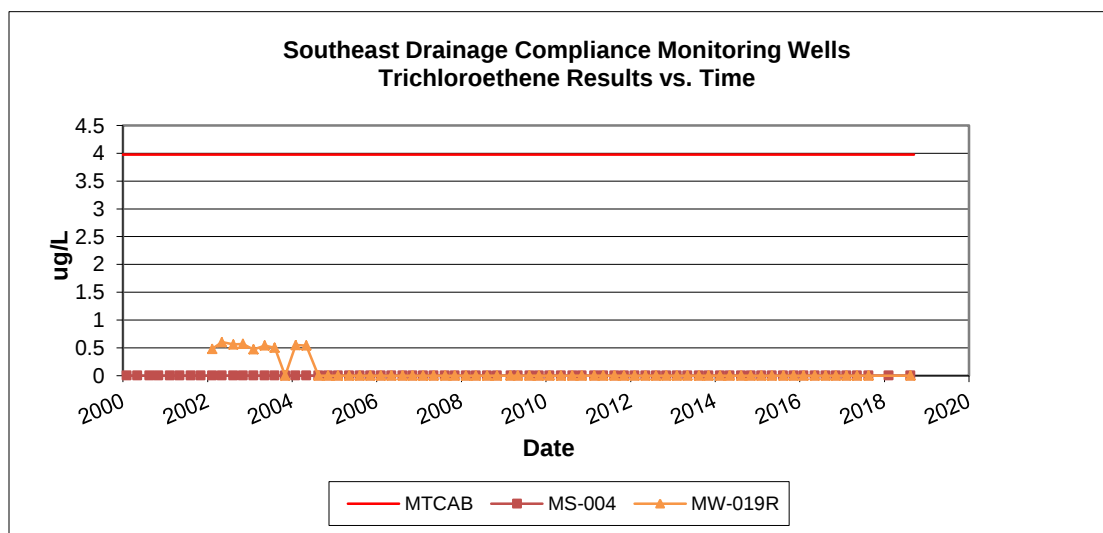
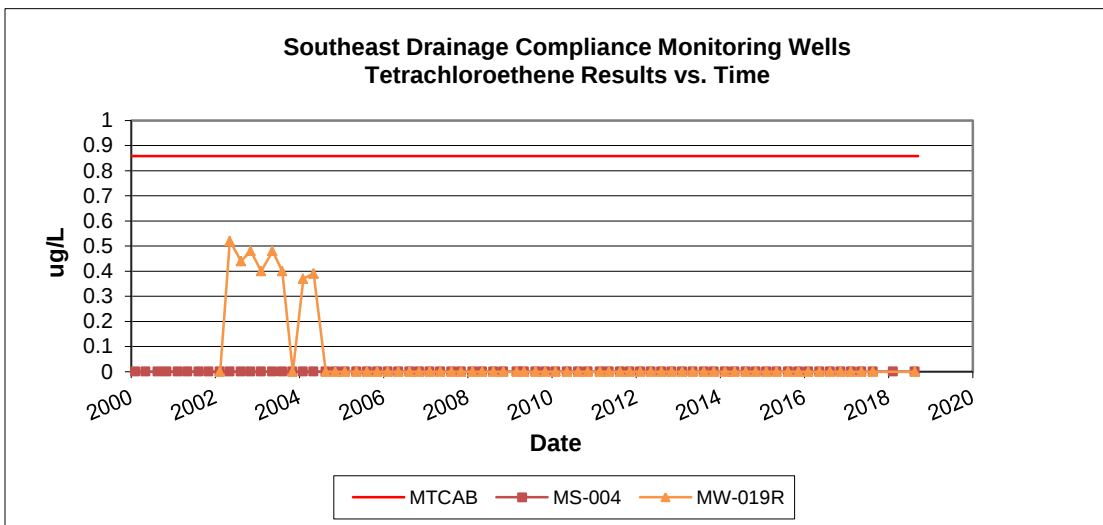
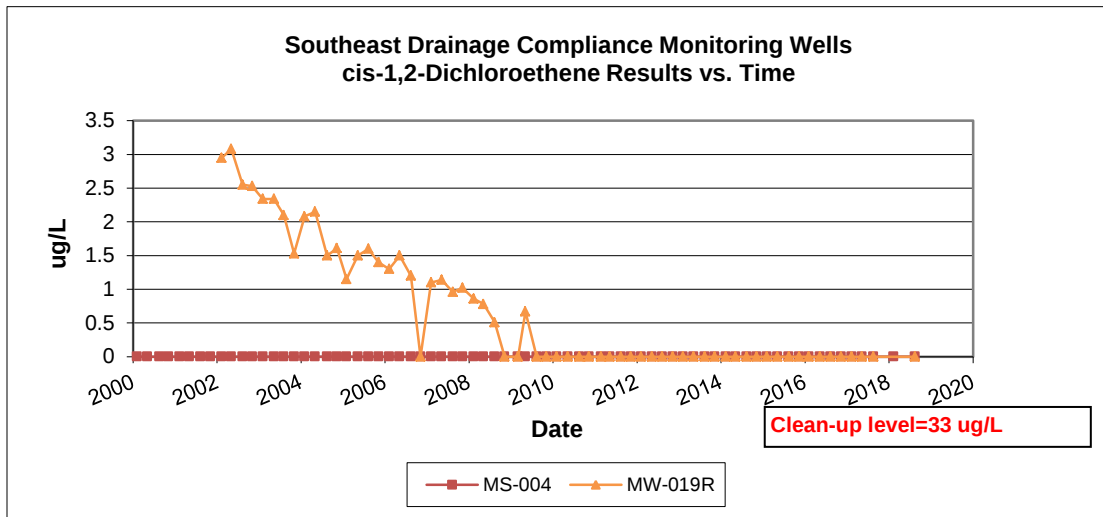


Figure 2-36 Southeast Drainage Monitoring Wells VOC Concentrations

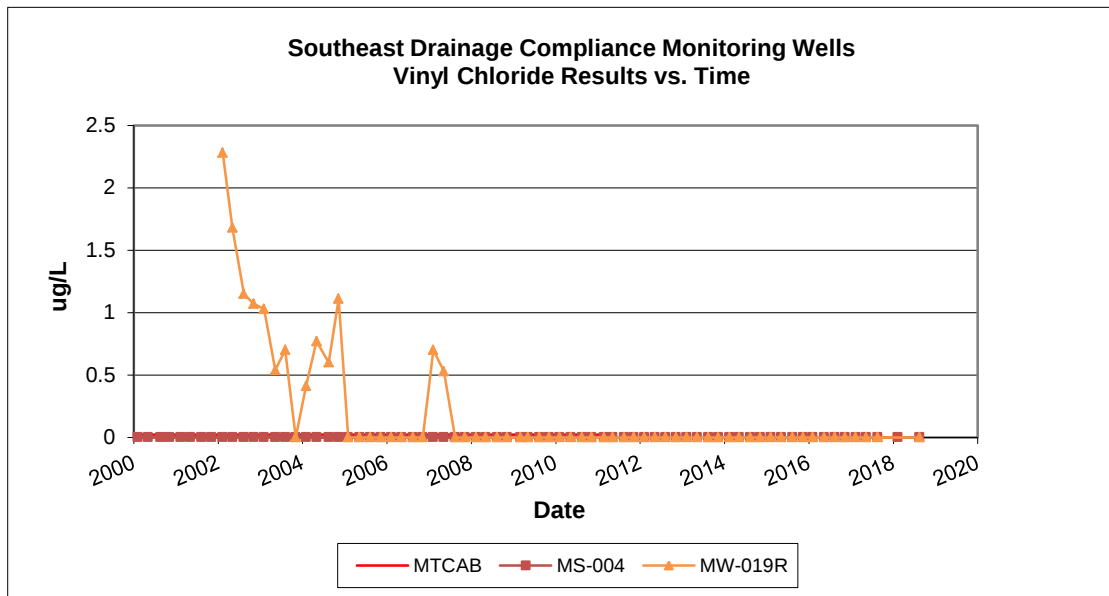


Figure 2-37 Southeast Drainage Monitoring Wells Inorganic Concentrations

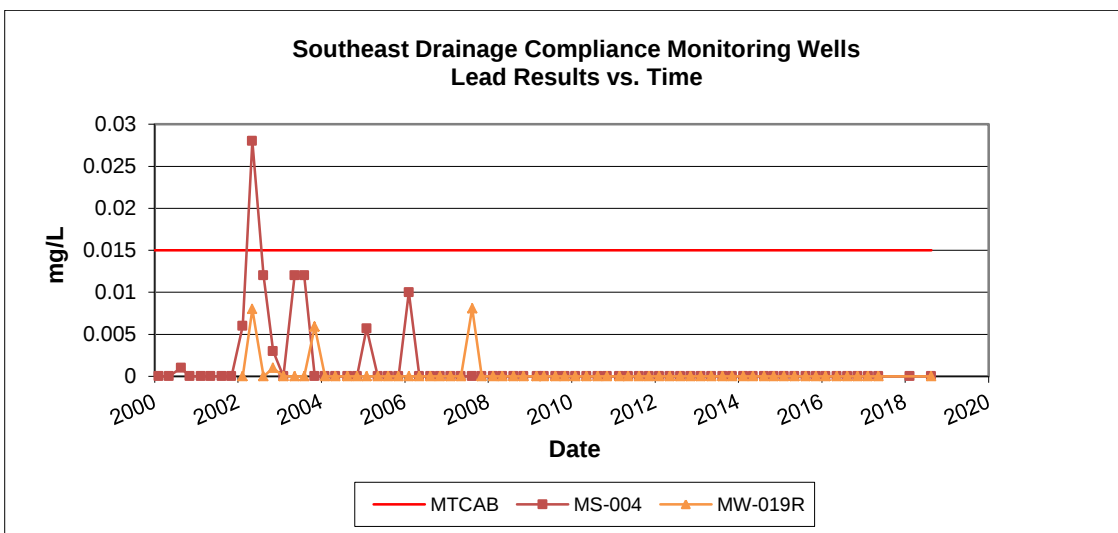
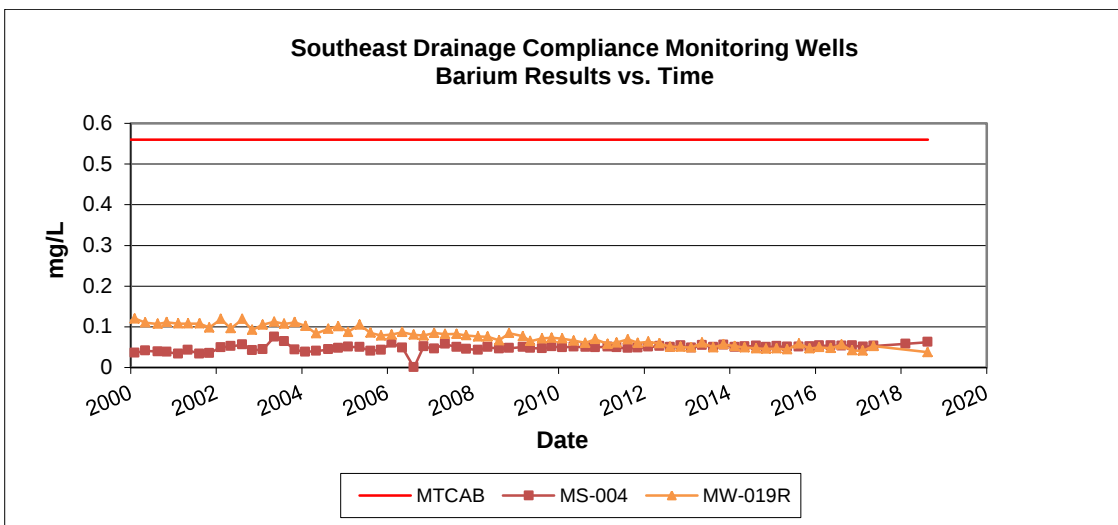
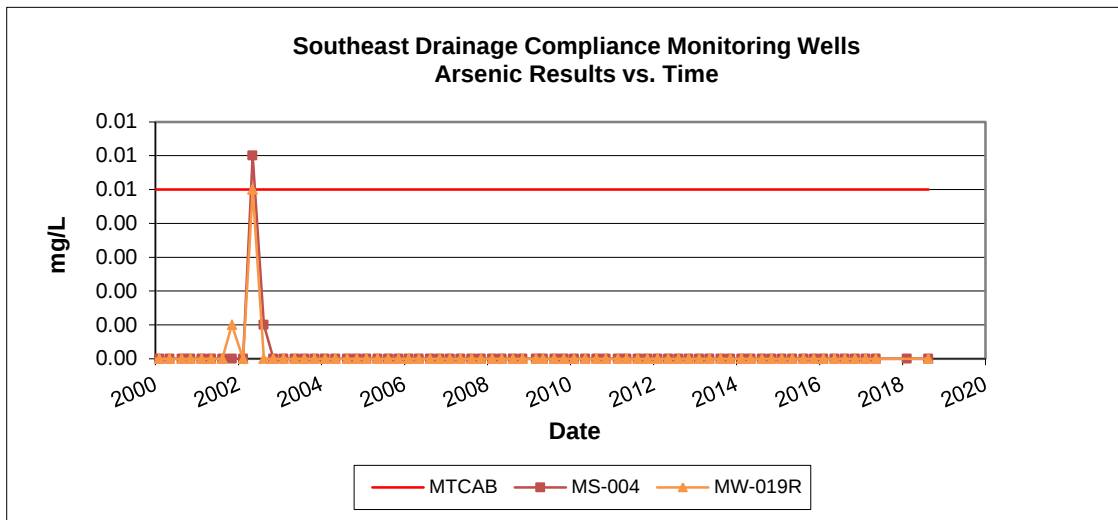


Figure 2-38 Southeast Drainage Monitoring Wells Inorganic Concentrations

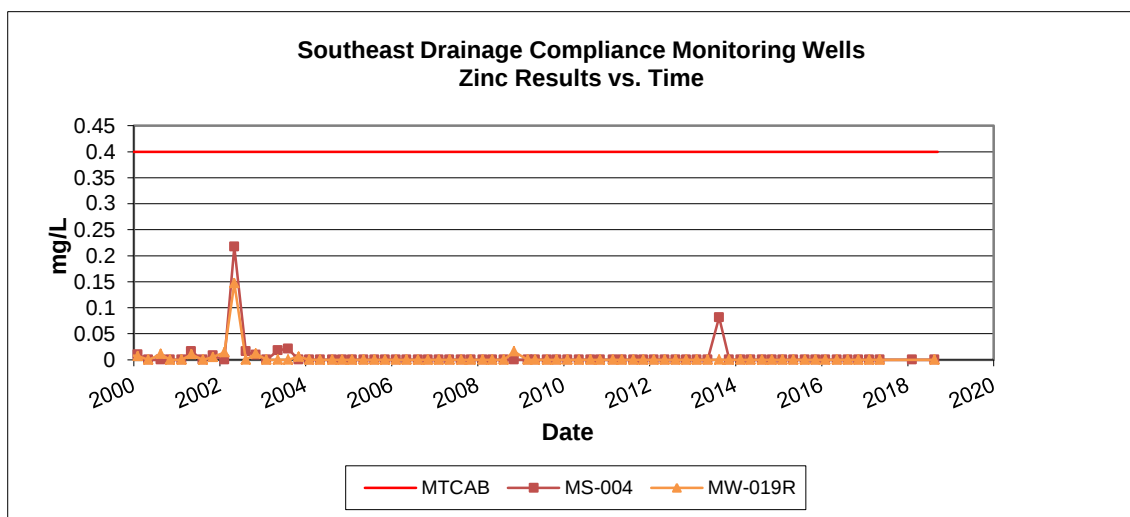
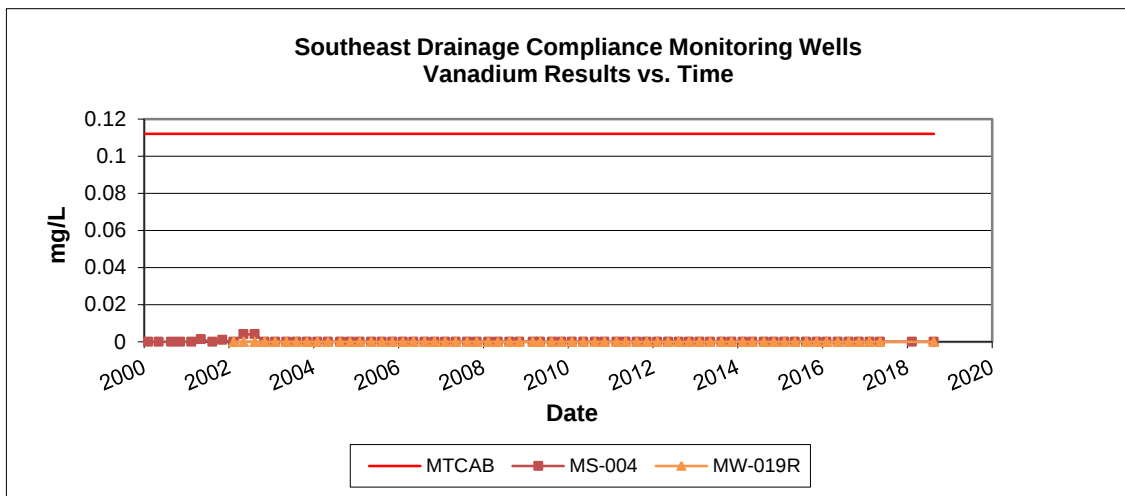
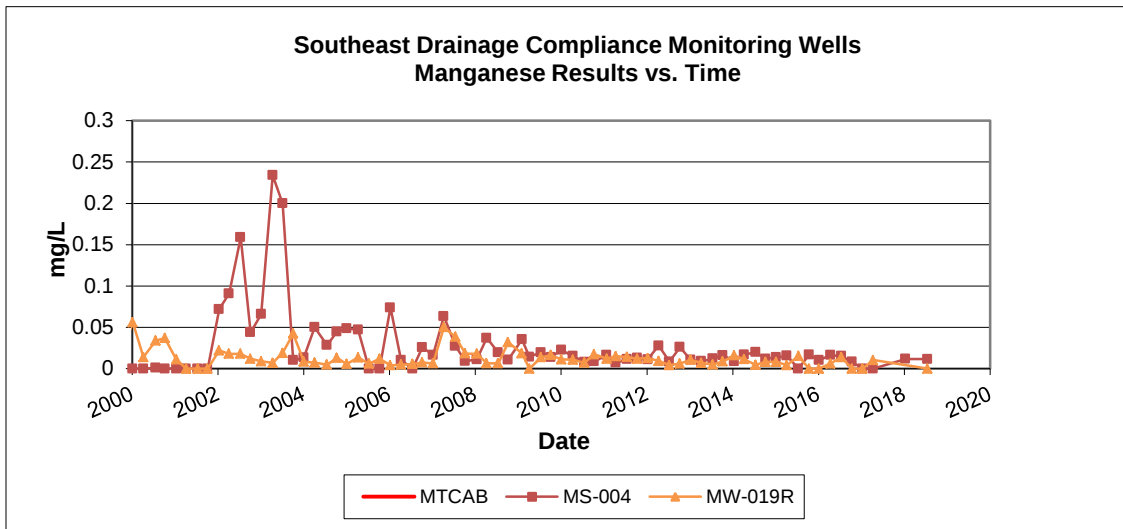


Figure 2-39 Southeast Drainage Monitoring Wells Conventional Concentrations

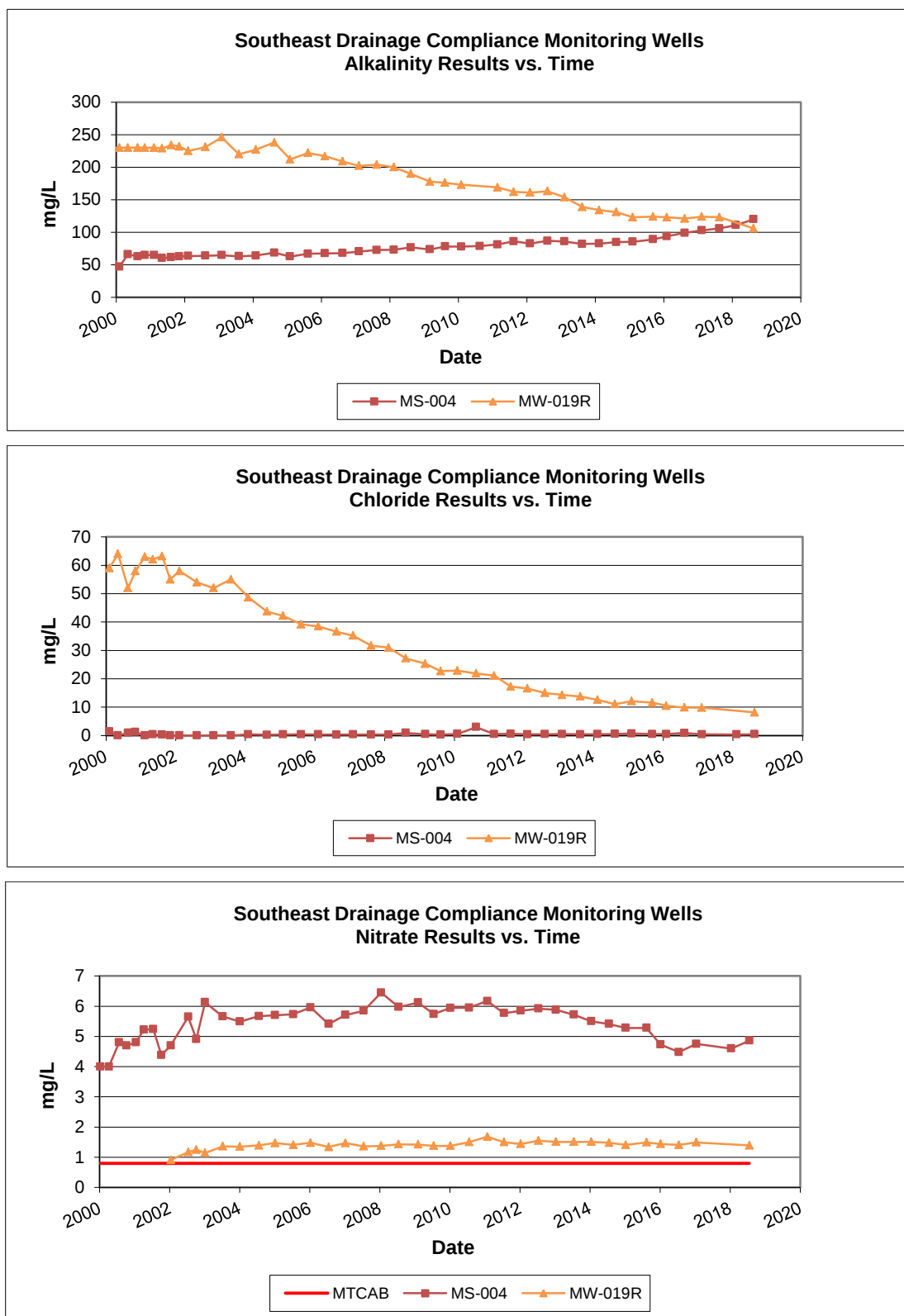


Figure 2-40 Southeast Drainage Monitoring Wells Conventional Concentrations

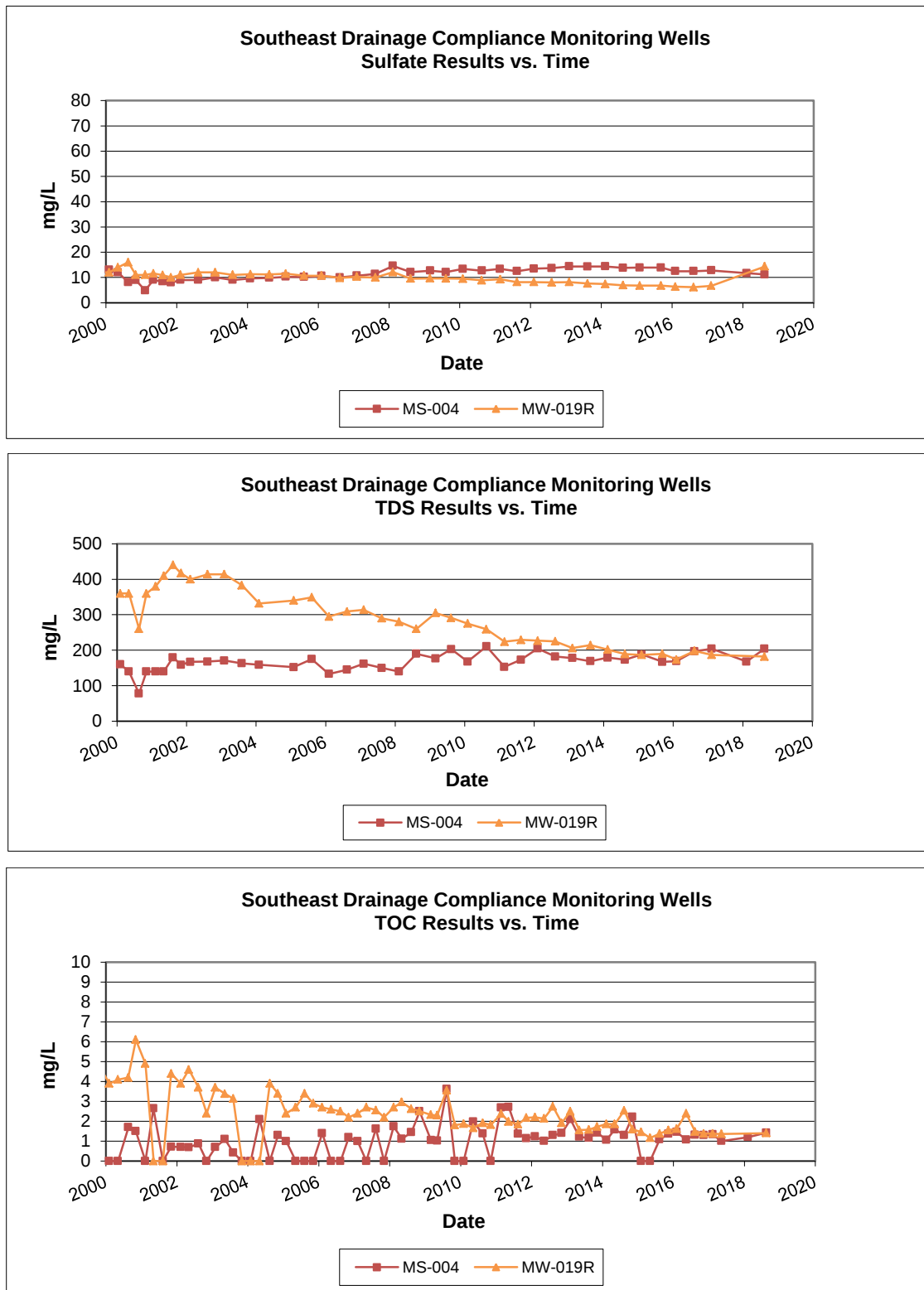


Figure 2-41 Domestic Wells Inorganic Concentrations

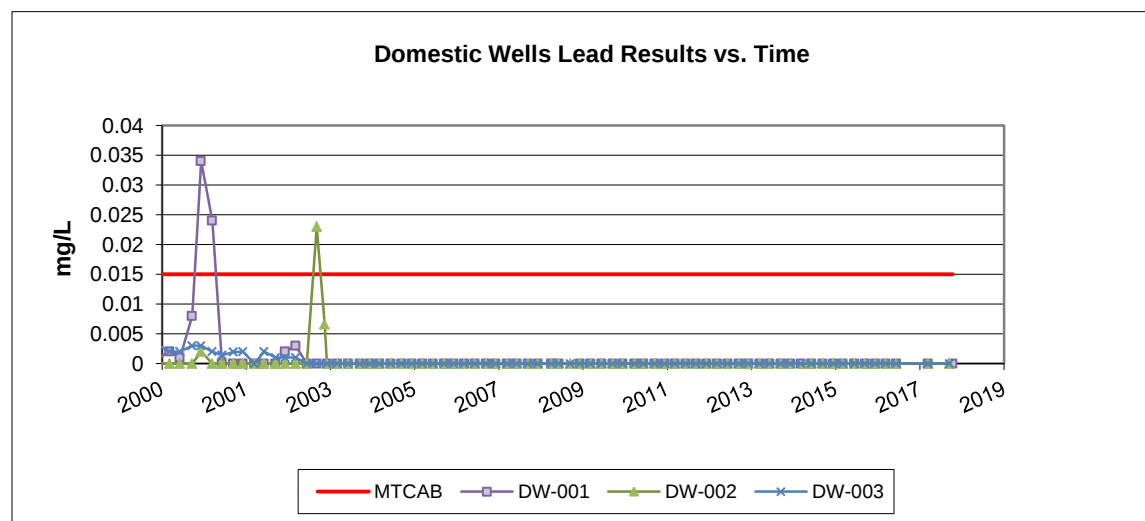
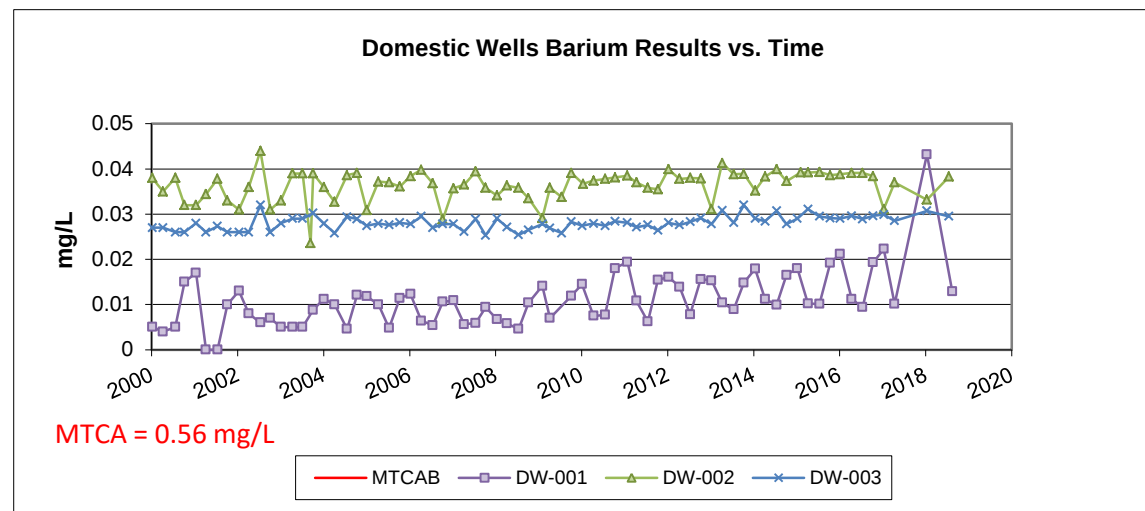
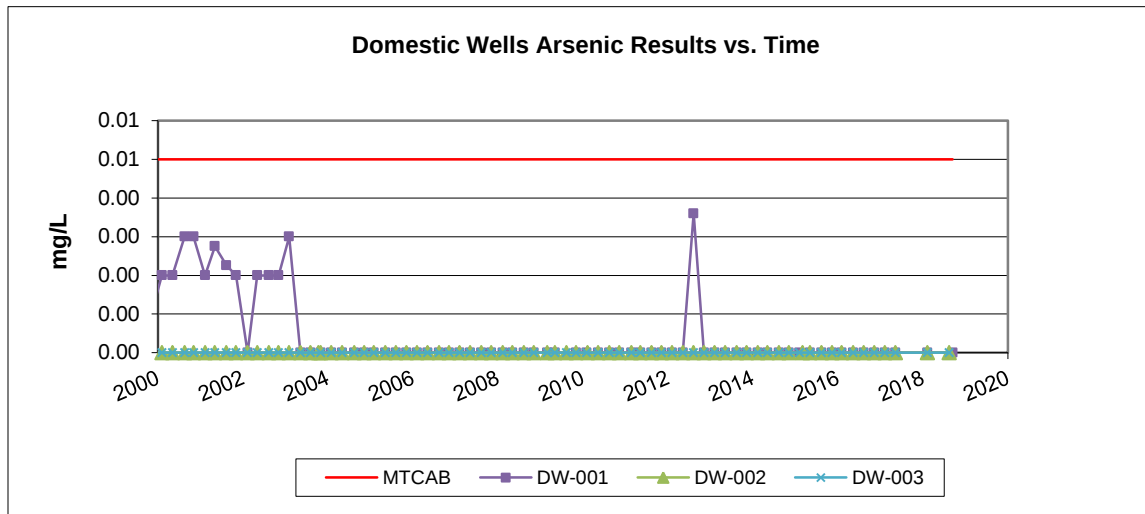


Figure 2-42 Domestic Wells Inorganic Concentrations

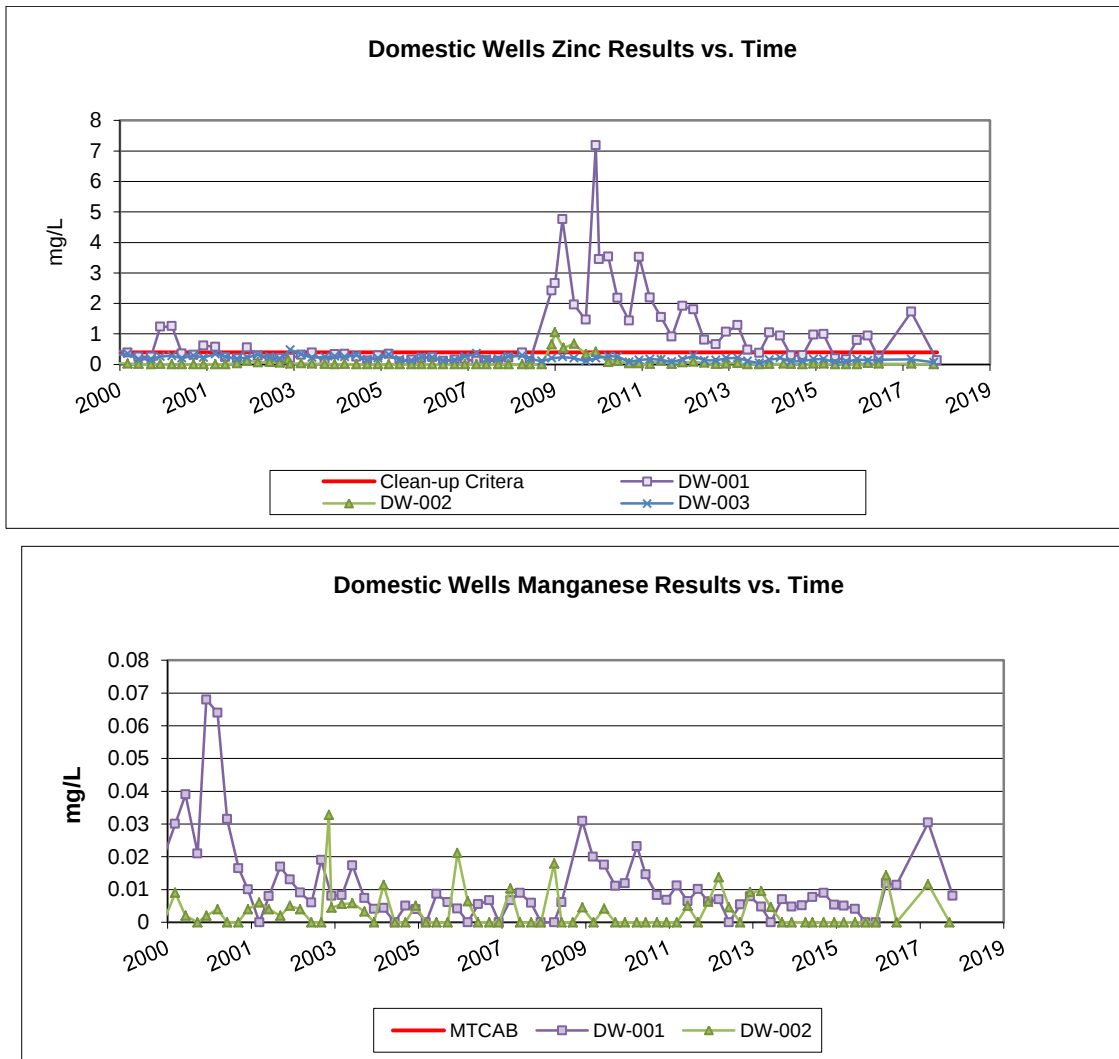


Figure 2-43 Domestic Wells Conventional Concentrations

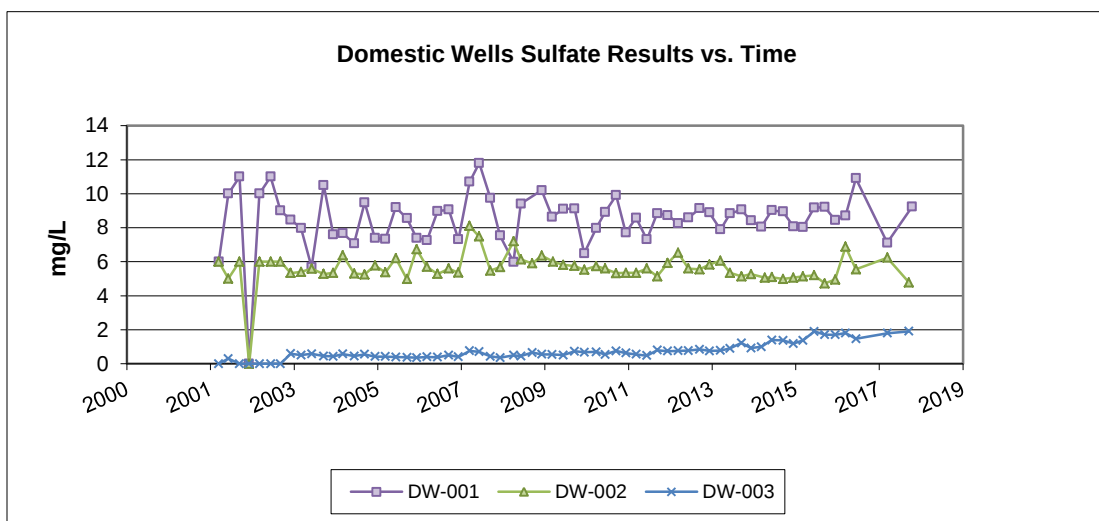
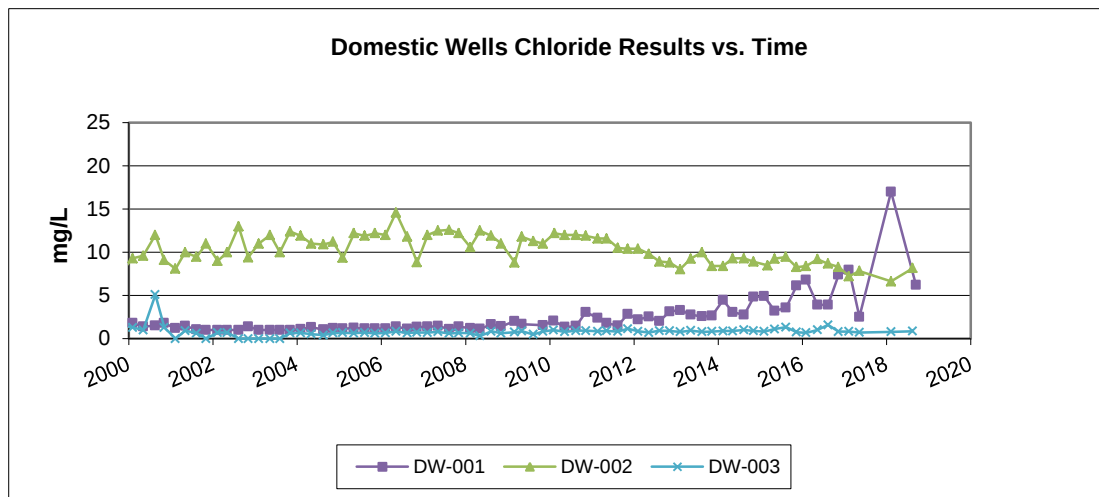
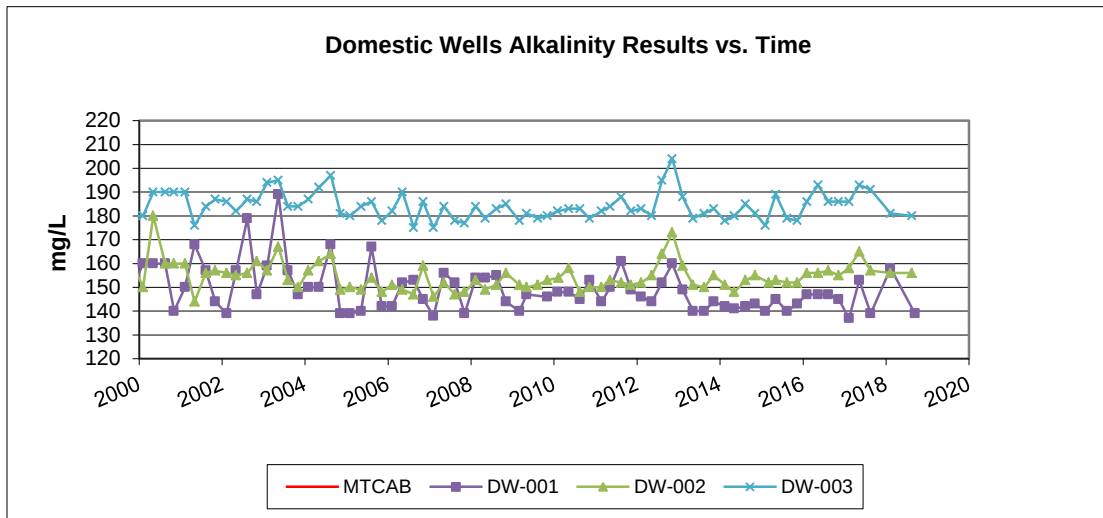
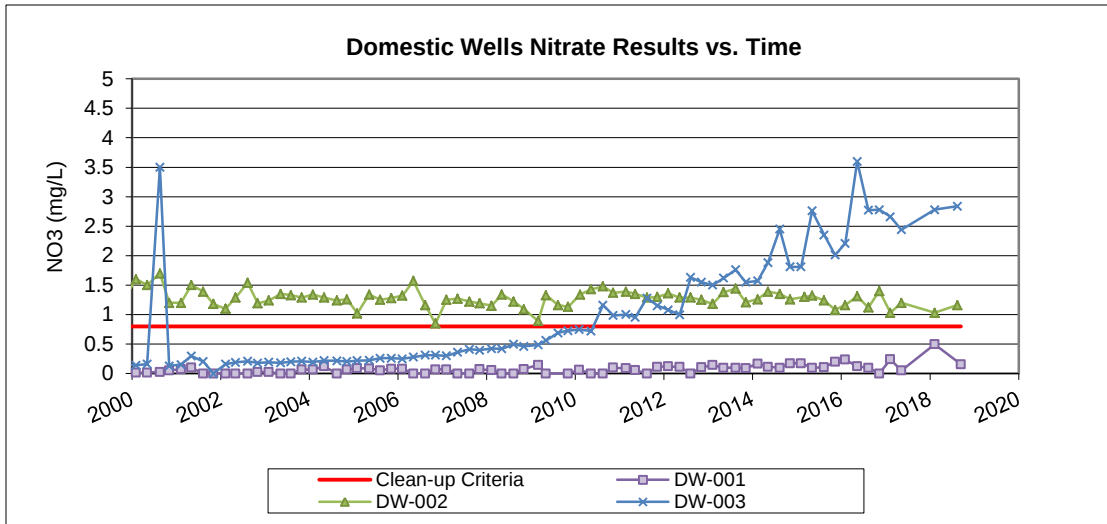


Figure 2-44 Domestic Wells Conventional Concentrations



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 2017 and April 2018.

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 2017 through September 2018 was approximately 6,782,033 gallons.

Table 3-1 Leachate Field Parameters

StationID	SampleDate	FieldTemp	FieldPH	FieldConductivity	FieldTurbidity
LS-GL	10/2/2017	9.8	7.72	542	11.7
LS-GL	10/2/2017	9.7	7.76	538	11.3
LS-GL	10/2/2017	9.8	7.73	539	12.3
LS-GL	10/8/2017	9.7	7.75	541	11.9
LS-GL	4/2/2018	6.4	6.95	310	4.34
LS-GL	4/2/2018	6.3	6.94	306	4.4
LS-GL	4/2/2018	6.4	6.92	311	4.25
LS-GL	4/2/2018	6.4	6.95	310	4.34
LS-GL	10/9/2018	9.5	7.85	594	8.39

Figure 3-1 Leachate Hydrographs

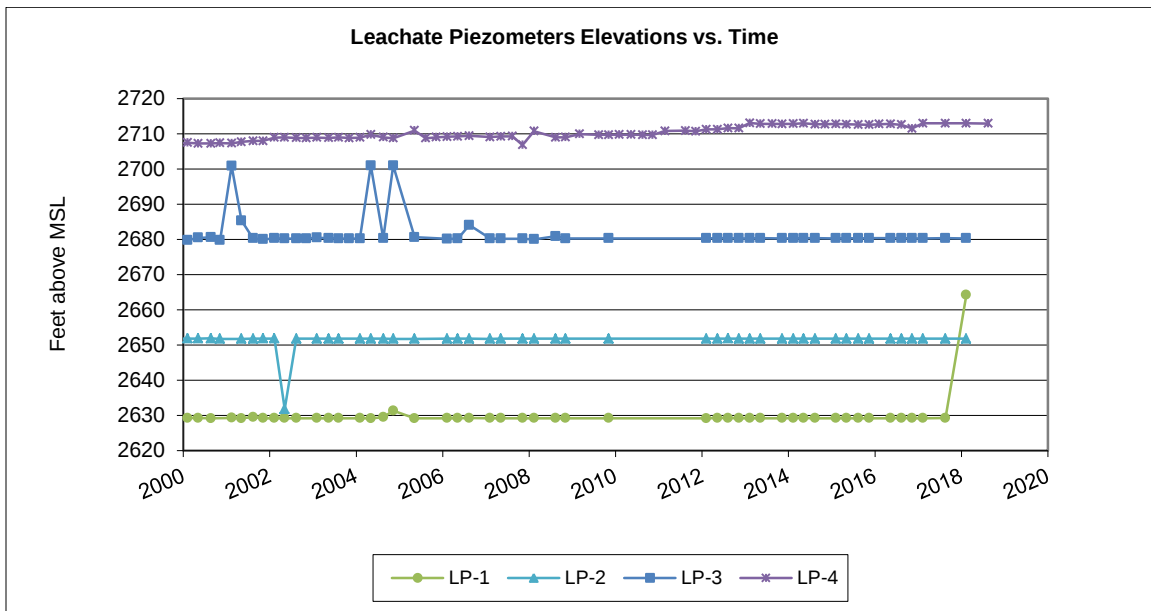


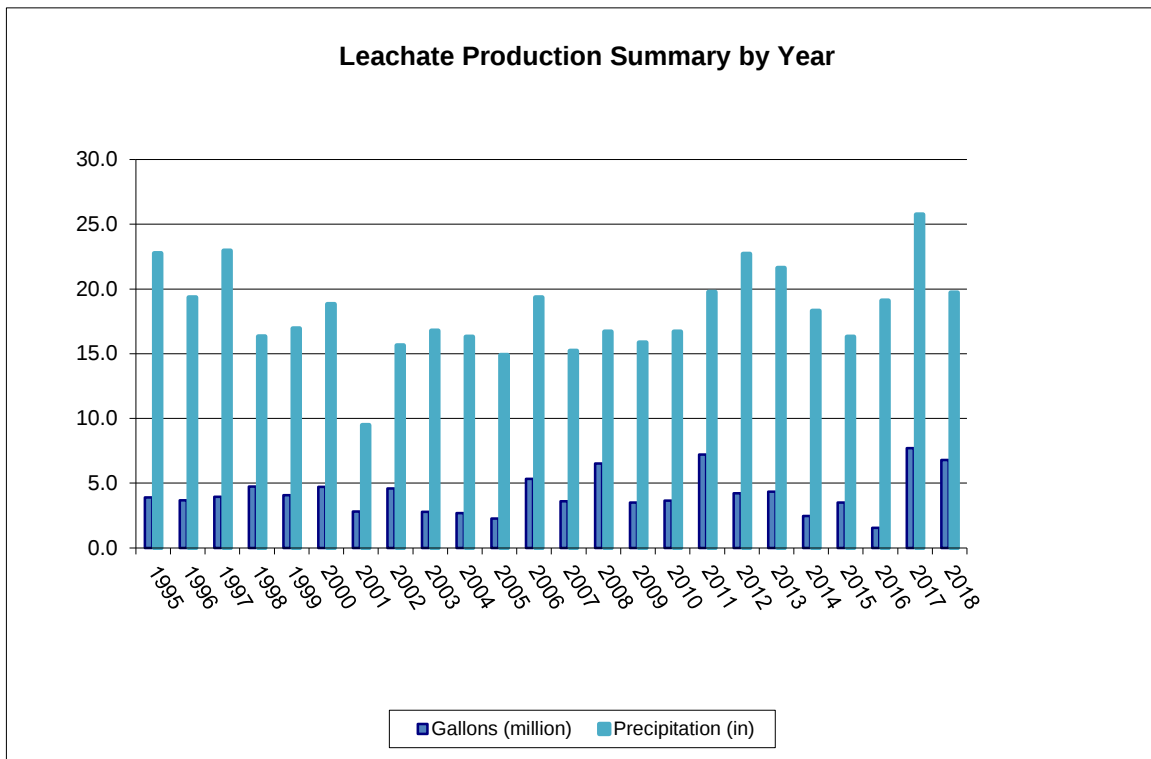
Table 3-2 Leachate Analytical Results

Analyte	10/2/2017	4/2/2018	10/9/2018
1,2-Dichloroethane			0.5U
1,2-Dichloropropane			0.5U
Acetone			4.93
Benzene	0.5U	0.5U	0.5U
cis-1,2-dichloroethene			0.5U
Ethylbenzene	0.5U	0.5U	0.5U
m,p-Xylene	1U	1U	0.5U
Methylene Chloride			0.5U
o-Xylene	0.5U	0.5U	0.5U
Tetrachloroethene			0.5U
Toluene	0.5U	1.71	0.91
Trichloroethene			0.5U
Vinyl Chloride			0.5U

Table 3-3 Leachate Production Summary
October 2017 through September 2018

Month	Leachate Volume (gal)	Precipitation (inches)
Oct-17	31,767	2.08
Nov-17	419,855	2.81
Dec-17	700,170	2.31
Jan-18	1,734,976	3.25
Feb-18	895,212	1.71
Mar-18	1,165,185	1.91
Apr-18	1,248,603	2.75
May-18	293,061	1.08
Jun-18	92,525	1.6
Jul-18	92,781	0
Aug-18	74,113	0.17
Sep-18	33,785	0.04
Total Annual	6,782,033	19.71

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 25.7 million cubic feet of landfill gas in 2018. The average methane concentration was approximately 42%.

4.2 GAS PROBES

Monthly gas probe monitoring results are presented in Appendix D. 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 2018

Mica Landfill Emission Point Summary for 2018				
Flare 6			Flare 7	
DATE	flow	%CH4	flow	%CH4
Jan	330	46.9	330	45
Feb	230	31.5	140	30.7
Mar	715	47.2	665	44.2
Apr	580	37.2	540	35
May	425	51.2	415	48.6
Jun	535	35.9	365	34.4
Jul	200	40.8	185	33.7
Aug	250	41.2	230	41.6
Sep	585	47.6	585	45.4
Oct	320	44.7	320	44.8
Nov	680	44.8	680	40.9
Dec	500	33.3	380	30.7
Total	5350	502.3	4835	475
Average	445.8	41.9	402.9	39.6
Flare 6:	445.8*0.66* 0.0872=25.7 525,600/10 ⁶ =13.5			
Flare 7:	402.9*0.66* 0.0872=23.2 525,600/10 ⁶ =12.2			
Total= 25.7 Mft3				

APPENDIX A LABORATORY RESULTS



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

Work Order: **X8I0259**
Reported: 01-Oct-18 10:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GWDW-002-180911	X8I0259-01	Ground Water	11-Sep-18 09:01	GF/MT/ KM	12-Sep-2018	
GWDW-003-180911	X8I0259-02	Ground Water	11-Sep-18 10:29	GF/MT/ KM	12-Sep-2018	
GWMS-004-180911	X8I0259-03	Ground Water	11-Sep-18 12:55	GF/MT/ KM	12-Sep-2018	
GWMS-005-180911	X8I0259-04	Ground Water	11-Sep-18 13:00	GF/MT/ KM	12-Sep-2018	
GWMW-009-180911	X8I0259-05	Ground Water	11-Sep-18 10:11	GF/MT/ KM	12-Sep-2018	
GWMW-010-180911	X8I0259-06	Ground Water	11-Sep-18 09:19	GF/MT/ KM	12-Sep-2018	
GWMW-014-180911	X8I0259-07	Ground Water	11-Sep-18 09:30	GF/MT/ KM	12-Sep-2018	
GWMW-019R-180911	X8I0259-08	Ground Water	11-Sep-18 13:21	GF/MT/ KM	12-Sep-2018	
GWMW-013-180911	X8I0259-09	Ground Water	11-Sep-18 11:00	GF/MT/ KM	12-Sep-2018	
GWMW-029-180911	X8I0259-10	Ground Water	11-Sep-18 11:59	GF/MT/ KM	12-Sep-2018	
MWS-1-1-180911	X8I0259-11	Ground Water	11-Sep-18 10:13	GF/MT/ KM	12-Sep-2018	

Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested.

Sample preparation is defined by the client as per their Data Quality Objectives.

This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.

Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.

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



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

Work Order: **X810259**
Reported: 01-Oct-18 10:47

Client Sample ID: **GWDW-002-180911**

Sampled: 11-Sep-18 09:01

SVL Sample ID: **X810259-01 (Ground Water)**

Received: 12-Sep-18

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	0.000093		X838159	DPW	09/21/18 11:21	
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Metals (Total Recoverable)

EPA 6010D	Barium	0.0383	mg/L	0.0020	0.0019		X837266	AS	09/29/18 07:51	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X837266	AS	09/29/18 07:51	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X837266	AS	09/29/18 07:51	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X837266	AS	09/29/18 07:51	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X837266	AS	09/29/18 07:51	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X837256	KWH	09/26/18 09:10	

Classical Chemistry Parameters

EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X838191	APH	09/20/18 12:22	
SM 2320 B	Total Alkalinity	156	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 15:12	
SM 2320 B	Bicarbonate	156	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 15:12	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 15:12	
SM 5310B	Total Organic Carbon	1.18	mg/L	1.00	0.38		X837225	APH	09/13/18 15:29	

Anions by Ion Chromatography

EPA 300.0	Chloride	8.16	mg/L	0.20	0.14		X837156	DJS	09/12/18 18:19	
EPA 300.0	Nitrate as N	1.16	mg/L	0.050	0.043		X837156	DJS	09/12/18 18:19	
EPA 300.0	Sulfate as SO ₄	4.78	mg/L	0.30	0.18		X837156	DJS	09/12/18 18:19	

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

Dianne Gardner
Project Manager



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

Work Order: **X810259**
Reported: 01-Oct-18 10:47

Client Sample ID: **GWDW-003-180911**

Sampled: 11-Sep-18 10:29

Received: 12-Sep-18

Sampled By: GF/MT/KM

SVL Sample ID: **X810259-02 (Ground Water)****Sample Report Page 1 of 1**

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	0.000093		X838159	DPW	09/21/18 11:26	
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Metals (Total Recoverable)

EPA 6010D	Barium	0.0295	mg/L	0.0020	0.0019		X837266	AS	09/29/18 07:54	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X837266	AS	09/29/18 07:54	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X837266	AS	09/29/18 07:54	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X837266	AS	09/29/18 07:54	
EPA 6010D	Zinc	0.069	mg/L	0.010	0.005		X837266	AS	09/29/18 07:54	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X837256	KWH	09/26/18 09:12	

Classical Chemistry Parameters

EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X838191	APH	09/20/18 12:25	
SM 2320 B	Total Alkalinity	180	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 15:15	
SM 2320 B	Bicarbonate	180	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 15:15	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 15:15	
SM 5310B	Total Organic Carbon	< 1.00	mg/L	1.00	0.38		X837225	APH	09/13/18 17:17	

Anions by Ion Chromatography

EPA 300.0	Chloride	0.87	mg/L	0.20	0.14		X837156	DJS	09/12/18 18:31	
EPA 300.0	Nitrate as N	2.84	mg/L	0.050	0.043		X837156	DJS	09/12/18 18:31	
EPA 300.0	Sulfate as SO₄	1.91	mg/L	0.30	0.18		X837156	DJS	09/12/18 18:31	

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

Dianne Gardner
Project Manager



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

Work Order: **X810259**
Reported: 01-Oct-18 10:47

Client Sample ID: **GWMS-004-180911**

Sampled: 11-Sep-18 12:55

SVL Sample ID: **X810259-03 (Ground Water)**

Received: 12-Sep-18

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	0.000093		X838159	DPW	09/21/18 11:28	
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Metals (Total Recoverable)

EPA 6010D	Barium	0.0622	mg/L	0.0020	0.0019		X837266	AS	09/29/18 07:58	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X837266	AS	09/29/18 07:58	
EPA 6010D	Manganese	0.0116	mg/L	0.0080	0.0034		X837266	AS	09/29/18 07:58	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X837266	AS	09/29/18 07:58	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X837266	AS	09/29/18 07:58	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X837256	KWH	09/26/18 09:14	

Classical Chemistry Parameters

EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X838191	APH	09/20/18 12:28	
SM 2320 B	Total Alkalinity	120	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 15:18	
SM 2320 B	Bicarbonate	120	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 15:18	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 15:18	
SM 2540 C	Total Diss. Solids	204	mg/L	10			X837189	RS	09/13/18 14:35	
SM 5310B	Total Organic Carbon	1.43	mg/L	1.00	0.38		X837225	APH	09/13/18 17:30	

Anions by Ion Chromatography

EPA 300.0	Chloride	0.47	mg/L	0.20	0.14		X837156	DJS	09/12/18 18:44	
EPA 300.0	Nitrate as N	4.86	mg/L	0.050	0.043		X837156	DJS	09/12/18 18:44	
EPA 300.0	Sulfate as SO₄	11.2	mg/L	0.30	0.18		X837156	DJS	09/12/18 18:44	

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

Dianne Gardner

Dianne Gardner
Project Manager



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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

Work Order: **X810259**
Reported: 01-Oct-18 10:47

Client Sample ID: **GWMS-005-180911**

Sampled: 11-Sep-18 13:00

Received: 12-Sep-18

Sampled By: GF/MT/KM

SVL Sample ID: **X810259-04 (Ground Water)****Sample Report Page 1 of 1**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X838159	DPW	09/21/18 11:30	
Metals (Total Recoverable)										
EPA 6010D	Barium	0.0602	mg/L	0.0020	0.0019		X837266	AS	09/29/18 08:01	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X837266	AS	09/29/18 08:01	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X837266	AS	09/29/18 08:01	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X837266	AS	09/29/18 08:01	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X837266	AS	09/29/18 08:01	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X837256	KWH	09/26/18 09:04	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X838191	APH	09/20/18 12:31	
SM 2320 B	Total Alkalinity	113	mg/L as CaCO ₃	1.0			X839007	RS	09/24/18 09:49	
SM 2320 B	Bicarbonate	113	mg/L as CaCO ₃	1.0			X839007	RS	09/24/18 09:49	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X839007	RS	09/24/18 09:49	
SM 2540 C	Total Diss. Solids	256	mg/L	10			X837279	RS	09/14/18 14:45	
SM 5310B	Total Organic Carbon	1.57	mg/L	1.00	0.38		X837225	APH	09/13/18 17:43	
Anions by Ion Chromatography										
EPA 300.0	Chloride	30.8	mg/L	2.00	1.40	10	X837156	DJS	09/13/18 05:55	D2
EPA 300.0	Nitrate as N	1.51	mg/L	0.050	0.043		X837156	DJS	09/12/18 18:57	
EPA 300.0	Sulfate as SO₄	23.0	mg/L	0.30	0.18		X837156	DJS	09/12/18 18:57	

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

Dianne Gardner
Project Manager



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

Work Order: **X810259**
Reported: 01-Oct-18 10:47

Client Sample ID: **GWMW-009-180911**

Sampled: 11-Sep-18 10:11

Received: 12-Sep-18

Sampled By: GF/MT/KM

SVL Sample ID: **X810259-05 (Ground Water)****Sample Report Page 1 of 1**

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	0.000093		X838159	DPW	09/21/18 11:35	
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Metals (Total Recoverable)

EPA 6010D	Barium	0.141	mg/L	0.0020	0.0019		X837266	AS	09/29/18 08:11	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X837266	AS	09/29/18 08:11	
EPA 6010D	Manganese	0.544	mg/L	0.0080	0.0034		X837266	AS	09/29/18 08:11	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X837266	AS	09/29/18 08:11	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X837266	AS	09/29/18 08:11	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X837256	KWH	09/26/18 09:16	

Classical Chemistry Parameters

EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X838191	APH	09/20/18 12:44	
SM 2320 B	Total Alkalinity	270	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 15:28	
SM 2320 B	Bicarbonate	270	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 15:28	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 15:28	
SM 2540 C	Total Diss. Solids	357	mg/L	10			X837189	RS	09/13/18 14:35	
SM 5310B	Total Organic Carbon	2.56	mg/L	1.00	0.38		X837225	APH	09/13/18 17:56	

Anions by Ion Chromatography

EPA 300.0	Chloride	37.0	mg/L	2.00	1.40	10	X837156	DJS	09/13/18 06:33	D2
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.043		X837156	DJS	09/12/18 19:35	
EPA 300.0	Sulfate as SO₄	3.42	mg/L	0.30	0.18		X837156	DJS	09/12/18 19:35	

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

Dianne Gardner
Project Manager



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

Work Order: **X810259**
Reported: 01-Oct-18 10:47

Client Sample ID: **GWMW-010-180911**

Sampled: 11-Sep-18 09:19

SVL Sample ID: **X810259-06 (Ground Water)**

Received: 12-Sep-18

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	0.000093		X838159	DPW	09/21/18 11:37	
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Metals (Total Recoverable)

EPA 6010D	Barium	0.0473	mg/L	0.0020	0.0019		X837266	AS	09/29/18 08:14	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X837266	AS	09/29/18 08:14	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X837266	AS	09/29/18 08:14	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X837266	AS	09/29/18 08:14	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X837266	AS	09/29/18 08:14	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X837256	KWH	09/26/18 09:18	

Classical Chemistry Parameters

EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X838191	APH	09/20/18 12:46	
SM 2320 B	Total Alkalinity	93.0	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 15:32	
SM 2320 B	Bicarbonate	93.0	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 15:32	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 15:32	
SM 2540 C	Total Diss. Solids	118	mg/L	10			X837189	RS	09/13/18 14:35	
SM 5310B	Total Organic Carbon	< 1.00	mg/L	1.00	0.38		X837225	APH	09/13/18 18:09	

Anions by Ion Chromatography

EPA 300.0	Chloride	0.38	mg/L	0.20	0.14		X837156	DJS	09/12/18 20:14	
EPA 300.0	Nitrate as N	0.248	mg/L	0.050	0.043		X837156	DJS	09/12/18 20:14	
EPA 300.0	Sulfate as SO₄	0.74	mg/L	0.30	0.18		X837156	DJS	09/12/18 20:14	

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

Dianne Gardner
Project Manager



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

Work Order: **X810259**
Reported: 01-Oct-18 10:47

Client Sample ID: **GWMW-014-180911**

Sampled: 11-Sep-18 09:30

Received: 12-Sep-18

Sampled By: GF/MT/KM

SVL Sample ID: **X810259-07 (Ground Water)****Sample Report Page 1 of 1**

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	0.000093		X838159	DPW	09/21/18 11:39	
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Metals (Total Recoverable)

EPA 6010D	Barium	< 0.0020	mg/L	0.0020	0.0019		X837266	AS	09/29/18 08:30	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X837266	AS	09/29/18 08:30	
EPA 6010D	Manganese	0.348	mg/L	0.0080	0.0034		X837266	AS	09/29/18 08:30	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X837266	AS	09/29/18 08:30	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X837266	AS	09/29/18 08:30	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X837256	KWH	09/26/18 09:24	

Classical Chemistry Parameters

EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X838191	APH	09/20/18 12:49	
SM 2320 B	Total Alkalinity	78.7	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 15:35	
SM 2320 B	Bicarbonate	78.7	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 15:35	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 15:35	
SM 2540 C	Total Diss. Solids	124	mg/L	10			X837189	RS	09/13/18 14:35	
SM 5310B	Total Organic Carbon	< 1.00	mg/L	1.00	0.38		X837225	APH	09/13/18 18:22	

Anions by Ion Chromatography

EPA 300.0	Chloride	0.75	mg/L	0.20	0.14		X837156	DJS	09/12/18 20:27	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.043		X837156	DJS	09/12/18 20:27	
EPA 300.0	Sulfate as SO₄	8.75	mg/L	0.30	0.18		X837156	DJS	09/12/18 20:27	

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

Dianne Gardner
Project Manager



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

Work Order: **X810259**
Reported: 01-Oct-18 10:47

Client Sample ID: **GWMW-019R-180911**

Sampled: 11-Sep-18 13:21

SVL Sample ID: **X810259-08 (Ground Water)**

Received: 12-Sep-18

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	0.000093		X838159	DPW	09/21/18 11:40	
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Metals (Total Recoverable)

EPA 6010D	Barium	0.0374	mg/L	0.0020	0.0019		X837266	AS	09/29/18 08:34	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X837266	AS	09/29/18 08:34	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X837266	AS	09/29/18 08:34	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X837266	AS	09/29/18 08:34	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X837266	AS	09/29/18 08:34	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X837256	KWH	09/26/18 09:26	

Classical Chemistry Parameters

EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X838191	APH	09/20/18 12:52	
SM 2320 B	Total Alkalinity	106	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 15:39	
SM 2320 B	Bicarbonate	106	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 15:39	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 15:39	
SM 2540 C	Total Diss. Solids	182	mg/L	10			X837189	RS	09/13/18 14:35	
SM 5310B	Total Organic Carbon	1.41	mg/L	1.00	0.38		X837225	APH	09/13/18 18:35	

Anions by Ion Chromatography

EPA 300.0	Chloride	8.18	mg/L	0.20	0.14		X837156	DJS	09/12/18 20:39	
EPA 300.0	Nitrate as N	1.39	mg/L	0.050	0.043		X837156	DJS	09/12/18 20:39	
EPA 300.0	Sulfate as SO₄	14.4	mg/L	0.30	0.18		X837156	DJS	09/12/18 20:39	

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

Dianne Gardner
Project Manager



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net

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

Work Order: **X810259**
Reported: 01-Oct-18 10:47

Client Sample ID: **GWMW-013-180911**

Sampled: 11-Sep-18 11:00

SVL Sample ID: **X810259-09 (Ground Water)**

Received: 12-Sep-18

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	0.000093		X838159	DPW	09/21/18 11:42	
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Metals (Total Recoverable)

EPA 6010D	Barium	0.0519	mg/L	0.0020	0.0019		X837266	AS	09/29/18 08:37	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X837266	AS	09/29/18 08:37	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X837266	AS	09/29/18 08:37	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X837266	AS	09/29/18 08:37	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X837266	AS	09/29/18 08:37	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X837256	KWH	09/26/18 09:28	

Classical Chemistry Parameters

EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X838191	APH	09/20/18 12:55	
SM 2320 B	Total Alkalinity	197	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 15:42	
SM 2320 B	Bicarbonate	197	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 15:42	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 15:42	
SM 2540 C	Total Diss. Solids	251	mg/L	10			X837189	RS	09/13/18 14:35	
SM 5310B	Total Organic Carbon	1.26	mg/L	1.00	0.38		X837225	APH	09/13/18 19:14	

Anions by Ion Chromatography

EPA 300.0	Chloride	9.33	mg/L	0.20	0.14		X837156	DJS	09/12/18 20:52	
EPA 300.0	Nitrate as N	0.197	mg/L	0.050	0.043		X837156	DJS	09/12/18 20:52	
EPA 300.0	Sulfate as SO₄	3.87	mg/L	0.30	0.18		X837156	DJS	09/12/18 20:52	

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

Dianne Gardner
Project Manager



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

Work Order: **X810259**
Reported: 01-Oct-18 10:47

Client Sample ID: **GWMW-029-180911**

Sampled: 11-Sep-18 11:59

SVL Sample ID: **X810259-10 (Ground Water)**

Received: 12-Sep-18

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	0.000093		X838159	DPW	09/21/18 11:48	
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Metals (Total Recoverable)

EPA 6010D	Barium	0.100	mg/L	0.0020	0.0019		X837266	AS	09/29/18 08:41	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X837266	AS	09/29/18 08:41	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X837266	AS	09/29/18 08:41	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X837266	AS	09/29/18 08:41	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X837266	AS	09/29/18 08:41	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X837256	KWH	09/26/18 09:30	

Classical Chemistry Parameters

EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X838191	APH	09/20/18 12:58	
SM 2320 B	Total Alkalinity	75.9	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 15:49	
SM 2320 B	Bicarbonate	75.9	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 15:49	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 15:49	
SM 2540 C	Total Diss. Solids	452	mg/L	10			X837189	RS	09/13/18 14:35	
SM 5310B	Total Organic Carbon	< 1.00	mg/L	1.00	0.38		X837225	APH	09/13/18 19:27	

Anions by Ion Chromatography

EPA 300.0	Chloride	145	mg/L	5.00	3.50	25	X837156	DJS	09/13/18 06:46	D2
EPA 300.0	Nitrate as N	0.718	mg/L	0.050	0.043		X837156	DJS	09/12/18 21:05	
EPA 300.0	Sulfate as SO₄	6.03	mg/L	0.30	0.18		X837156	DJS	09/12/18 21:05	

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

Dianne Gardner
Project Manager



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

Work Order: **X810259**
Reported: 01-Oct-18 10:47

Client Sample ID: **MWS-1-1-180911**

Sampled: 11-Sep-18 10:13

Received: 12-Sep-18

Sampled By: GF/MT/KM

SVL Sample ID: **X810259-11 (Ground Water)**

Sample Report Page 1 of 1

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X838159	DPW	09/21/18 11:49	
Metals (Total Recoverable)										
EPA 6010D	Barium	0.144	mg/L	0.0020	0.0019		X837266	AS	09/29/18 08:44	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X837266	AS	09/29/18 08:44	
EPA 6010D	Manganese	0.565	mg/L	0.0080	0.0034		X837266	AS	09/29/18 08:44	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X837266	AS	09/29/18 08:44	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X837266	AS	09/29/18 08:44	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X837256	KWH	09/26/18 09:32	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X838191	APH	09/20/18 13:01	
SM 2320 B	Total Alkalinity	265	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 15:52	
SM 2320 B	Bicarbonate	265	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 15:52	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 15:52	
SM 2540 C	Total Diss. Solids	369	mg/L	10			X837189	RS	09/13/18 14:35	
SM 5310B	Total Organic Carbon	2.62	mg/L	1.00	0.38		X837225	APH	09/13/18 19:40	
Anions by Ion Chromatography										
EPA 300.0	Chloride	36.4	mg/L	2.00	1.40	10	X837156	DJS	09/13/18 06:58	D2
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.043		X837156	DJS	09/12/18 21:18	M2
EPA 300.0	Sulfate as SO₄	3.35	mg/L	0.30	0.18		X837156	DJS	09/12/18 21:18	

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

Dianne Gardner
Project Manager



Spokane County Environmental Services (Colbert)

22515 N. Elk Chattaroy Road

Colbert, WA 99005

Work Order:

X810259

Reported:

01-Oct-18 10:47

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
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Metals (Total)

EPA 7470A	Mercury	mg/L	<0.00020	0.000093	0.00020	X838159	21-Sep-18	
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Metals (Total Recoverable)

EPA 6010D	Barium	mg/L	<0.0020	0.0019	0.0020	X837266	29-Sep-18	
EPA 6010D	Lead	mg/L	<0.0075	0.0049	0.0075	X837266	29-Sep-18	
EPA 6010D	Manganese	mg/L	<0.0080	0.0034	0.0080	X837266	29-Sep-18	
EPA 6010D	Vanadium	mg/L	<0.0050	0.0019	0.0050	X837266	29-Sep-18	
EPA 6010D	Zinc	mg/L	<0.010	0.005	0.010	X837266	29-Sep-18	
EPA 6020B	Arsenic	mg/L	<0.00300	0.00021	0.00300	X837256	26-Sep-18	

Classical Chemistry Parameters

EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X838191	20-Sep-18	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X838051	19-Sep-18	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X838051	19-Sep-18	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X839007	24-Sep-18	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X839007	24-Sep-18	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X838051	19-Sep-18	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X838051	19-Sep-18	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X839007	24-Sep-18	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X839007	24-Sep-18	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X838051	19-Sep-18	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X838051	19-Sep-18	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X839007	24-Sep-18	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X839007	24-Sep-18	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X837189	13-Sep-18	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X837279	14-Sep-18	
SM 5310B	Total Organic Carbon	mg/L	<1.00	0.38	1.00	X837225	13-Sep-18	
SM 5310B	Total Organic Carbon	mg/L	<1.00	0.38	1.00	X837225	13-Sep-18	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.14	0.20	X837156	12-Sep-18	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.043	0.050	X837156	12-Sep-18	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X837156	12-Sep-18	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
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Metals (Total)

EPA 7470A	Mercury	mg/L	0.00497	0.00500	99.4	80 - 120	X838159	21-Sep-18	
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Metals (Total Recoverable)

EPA 6010D	Barium	mg/L	1.02	1.00	102	80 - 120	X837266	29-Sep-18	
EPA 6010D	Lead	mg/L	1.01	1.00	101	80 - 120	X837266	29-Sep-18	
EPA 6010D	Manganese	mg/L	1.03	1.00	103	80 - 120	X837266	29-Sep-18	
EPA 6010D	Vanadium	mg/L	1.05	1.00	105	80 - 120	X837266	29-Sep-18	
EPA 6010D	Zinc	mg/L	1.02	1.00	102	80 - 120	X837266	29-Sep-18	
EPA 6020B	Arsenic	mg/L	0.0261	0.0250	104	80 - 120	X837256	26-Sep-18	

Classical Chemistry Parameters

EPA 350.1	Ammonia as N	mg/L	1.01	1.00	101	90 - 110	X838191	20-Sep-18	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	98.5	99.3	99.2	94.3 - 106	X838051	19-Sep-18	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	104	99.3	105	94.3 - 106	X838051	19-Sep-18	

SVL holds the following certifications:

AZ:0538, CA:2080, ID:ID00019 & ID00965 (Microbiology), NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 13 of 16



Spokane County Environmental Services (Colbert)

22515 N. Elk Chattaroy Road

Colbert, WA 99005

Work Order:

X810259

Reported:

01-Oct-18 10:47

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
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Classical Chemistry Parameters (Continued)

SM 2320 B	Total Alkalinity	mg/L as CaCO3	96.4	99.3	97.1	94.3 - 106	X839007	24-Sep-18	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	97.3	99.3	98.0	94.3 - 106	X839007	24-Sep-18	
SM 2320 B	Bicarbonate	mg/L as CaCO3	98.5	99.3	99.2	95.1 - 106	X838051	19-Sep-18	
SM 2320 B	Bicarbonate	mg/L as CaCO3	104	99.3	105	95.1 - 106	X838051	19-Sep-18	
SM 2320 B	Bicarbonate	mg/L as CaCO3	96.4	99.3	97.1	95.1 - 106	X839007	24-Sep-18	
SM 2320 B	Bicarbonate	mg/L as CaCO3	97.3	99.3	98.0	95.1 - 106	X839007	24-Sep-18	
SM 5310B	Total Organic Carbon	mg/L	36.1	34.3	105	90 - 110	X837225	13-Sep-18	
SM 5310B	Total Organic Carbon	mg/L	35.8	34.3	104	90 - 110	X837225	13-Sep-18	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.00	3.00	100	90 - 110	X837156	12-Sep-18	
EPA 300.0	Nitrate as N	mg/L	2.01	2.00	100	90 - 110	X837156	12-Sep-18	
EPA 300.0	Sulfate as SO4	mg/L	10.1	10.0	101	90 - 110	X837156	12-Sep-18	

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch ID	Analyzed	Notes
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Classical Chemistry Parameters

SM 2320 B	Total Alkalinity	mg/L as CaCO3	113	113	0.0	20	X839007	24-Sep-18	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	4.4	4.6	4.7	20	X839007	24-Sep-18	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	77.5	78.7	1.6	20	X838051	19-Sep-18	
SM 2320 B	Bicarbonate	mg/L as CaCO3	113	113	0.0	20	X839007	24-Sep-18	
SM 2320 B	Bicarbonate	mg/L as CaCO3	4.4	4.6	4.7	20	X839007	24-Sep-18	
SM 2320 B	Bicarbonate	mg/L as CaCO3	77.5	78.7	1.6	20	X838051	19-Sep-18	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X838051	19-Sep-18	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X839007	24-Sep-18	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X839007	24-Sep-18	
SM 2540 C	Total Diss. Solids	mg/L	263	256	2.7	10	X837279	14-Sep-18	
SM 2540 C	Total Diss. Solids	mg/L	459	452	1.5	10	X837189	13-Sep-18	
SM 2540 C	Total Diss. Solids	mg/L	538	543	0.9	10	X837279	14-Sep-18	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Recovery	Acceptance Limits	Batch ID	Analyzed	Notes
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Metals (Total)

EPA 7470A	Mercury	mg/L	0.00098	<0.00020	0.00100	97.6	75 - 125	X838159	21-Sep-18	
EPA 7470A	Mercury	mg/L	0.00086	<0.00020	0.00100	85.7	75 - 125	X838159	21-Sep-18	

Metals (Total Recoverable)

EPA 6010D	Barium	mg/L	1.08	0.0602	1.00	102	75 - 125	X837266	29-Sep-18	
EPA 6010D	Lead	mg/L	0.991	<0.0075	1.00	99.1	75 - 125	X837266	29-Sep-18	
EPA 6010D	Manganese	mg/L	0.998	<0.0080	1.00	99.8	75 - 125	X837266	29-Sep-18	
EPA 6010D	Vanadium	mg/L	1.03	<0.0050	1.00	102	75 - 125	X837266	29-Sep-18	
EPA 6010D	Zinc	mg/L	0.995	<0.010	1.00	99.5	75 - 125	X837266	29-Sep-18	
EPA 6020B	Arsenic	mg/L	0.0255	<0.00300	0.0250	100	75 - 125	X837256	26-Sep-18	

Classical Chemistry Parameters

EPA 350.1	Ammonia as N	mg/L	0.993	<0.030	1.00	99.3	90 - 110	X838191	20-Sep-18	
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SVL holds the following certifications:

AZ:0538, CA:2080, ID:ID00019 & ID00965 (Microbiology), NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 14 of 16



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

Work Order: **X810259**
Reported: 01-Oct-18 10:47

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Recovery	Acceptance Limits	Batch ID	Analyzed	Notes
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Classical Chemistry Parameters (Continued)

EPA 350.1	Ammonia as N	mg/L	0.970	<0.030	1.00	97.0	90 - 110	X838191	20-Sep-18	
SM 5310B	Total Organic Carbon	mg/L	10.5	<1.00	10.0	101	80 - 120	X837225	13-Sep-18	
SM 5310B	Total Organic Carbon	mg/L	11.4	1.57	10.0	98.1	80 - 120	X837225	13-Sep-18	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	33.7	30.8	3.00	97.3	90 - 110	X837156	13-Sep-18	D2
EPA 300.0	Chloride	mg/L	39.4	36.4	3.00	102	90 - 110	X837156	13-Sep-18	D2
EPA 300.0	Nitrate as N	mg/L	3.35	1.51	2.00	92.1	90 - 110	X837156	12-Sep-18	
EPA 300.0	Nitrate as N	mg/L	0.514	<0.050	2.00	25.7	90 - 110	X837156	12-Sep-18	M2
EPA 300.0	Sulfate as SO4	mg/L	33.9	23.0	10.0	109	90 - 110	X837156	12-Sep-18	
EPA 300.0	Sulfate as SO4	mg/L	13.5	3.35	10.0	102	90 - 110	X837156	12-Sep-18	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	% Rec.	RPD	RPD Limit	Batch ID	Analyzed	Notes
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Metals (Total)

EPA 7470A	Mercury	mg/L	0.00099	0.00098	0.00100	98.6	1.0	20	X838159	21-Sep-18	
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Metals (Total Recoverable)

EPA 6010D	Barium	mg/L	1.08	1.08	1.00	102	0.8	20	X837266	29-Sep-18	
EPA 6010D	Lead	mg/L	0.991	0.991	1.00	99.1	0.0	20	X837266	29-Sep-18	
EPA 6010D	Manganese	mg/L	1.02	0.998	1.00	102	1.9	20	X837266	29-Sep-18	
EPA 6010D	Vanadium	mg/L	1.04	1.03	1.00	104	1.2	20	X837266	29-Sep-18	
EPA 6010D	Zinc	mg/L	0.997	0.995	1.00	99.7	0.2	20	X837266	29-Sep-18	
EPA 6020B	Arsenic	mg/L	0.0259	0.0255	0.0250	102	1.7	20	X837256	26-Sep-18	

Classical Chemistry Parameters

EPA 350.1	Ammonia as N	mg/L	1.02	0.993	1.00	102	2.4	20	X838191	20-Sep-18	
SM 5310B	Total Organic Carbon	mg/L	10.6	10.5	10.0	102	1.0	20	X837225	13-Sep-18	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	34.0	33.7	3.00	105	0.7	20	X837156	13-Sep-18	D2
EPA 300.0	Nitrate as N	mg/L	3.41	3.35	2.00	95.1	1.8	20	X837156	12-Sep-18	
EPA 300.0	Sulfate as SO4	mg/L	33.9	33.9	10.0	109	0.2	20	X837156	12-Sep-18	



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

Work Order: **X810259**
Reported: 01-Oct-18 10:47

Notes and Definitions

D2	Sample required dilution due to high concentration of target analyte.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable



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

Work Order: **X8I0327**
Reported: 01-Oct-18 11:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GWMW-016-180912	X8I0327-01	Water	12-Sep-18 08:41	MT	13-Sep-2018	Q5
GWMW-020-180912	X8I0327-02	Water	12-Sep-18 09:17	MT	13-Sep-2018	
GWMW-023-180912	X8I0327-03	Water	12-Sep-18 09:15	MT	13-Sep-2018	
MWS-1-2-180912	X8I0327-04	Water	12-Sep-18 09:30	MT	13-Sep-2018	

Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested.

Sample preparation is defined by the client as per their Data Quality Objectives.

This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.

Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.

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



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

Work Order: **X810327**
Reported: 01-Oct-18 11:19

Client Sample ID: **GWMW-016-180912**

Sampled: 12-Sep-18 08:41

Received: 13-Sep-18

Sampled By: MT

SVL Sample ID: **X810327-01 (Water)****Sample Report Page 1 of 1**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X839144	DPW	09/27/18 12:19	
Metals (Total Recoverable)										
EPA 6010D	Barium	0.744	mg/L	0.0020	0.0019		X837302	AS	09/29/18 09:19	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X837302	AS	09/29/18 09:19	
EPA 6010D	Manganese	0.907	mg/L	0.0080	0.0034		X837302	AS	09/29/18 09:19	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X837302	AS	09/29/18 09:19	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X837302	AS	09/29/18 09:19	
EPA 6020B	Arsenic	0.0634	mg/L	0.00300	0.00021		X837298	KWH	09/26/18 09:38	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	0.230	mg/L	0.030	0.013		X838192	APH	09/20/18 14:13	
SM 2320 B	Total Alkalinity	1510	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 15:56	
SM 2320 B	Bicarbonate	1510	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 15:56	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 15:56	
SM 2540 C	Total Diss. Solids	1760	mg/L	40			X837279	RS	09/14/18 14:45	D2
SM 5310B	Total Organic Carbon	117	mg/L	10.0	3.84	10	X838140	APH	09/20/18 14:53	D2
Anions by Ion Chromatography										
EPA 300.0	Chloride	165	mg/L	5.00	3.50	25	X837244	DJS	09/17/18 18:45	D2,M4
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.043		X837244	DJS	09/13/18 16:07	M2
EPA 300.0	Sulfate as SO ₄	< 0.30	mg/L	0.30	0.18		X837244	DJS	09/13/18 16:07	

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

Dianne Gardner
Project Manager



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

Work Order: **X810327**
Reported: 01-Oct-18 11:19

Client Sample ID: **GWMW-020-180912**

Sampled: 12-Sep-18 09:17

Received: 13-Sep-18

Sampled By: MT

SVL Sample ID: **X810327-02 (Water)****Sample Report Page 1 of 1**

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	0.000093		X839144	DPW	09/27/18 12:21	
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Metals (Total Recoverable)

EPA 6010D	Barium	0.137	mg/L	0.0020	0.0019		X837302	AS	09/29/18 09:28	
EPA 6010D	Lead	0.0083	mg/L	0.0075	0.0049		X837302	AS	09/29/18 09:28	
EPA 6010D	Manganese	0.0139	mg/L	0.0080	0.0034		X837302	AS	09/29/18 09:28	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X837302	AS	09/29/18 09:28	
EPA 6010D	Zinc	0.010	mg/L	0.010	0.005		X837302	AS	09/29/18 09:28	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X837298	KWH	09/26/18 09:49	

Classical Chemistry Parameters

EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X838192	APH	09/20/18 14:17	
SM 2320 B	Total Alkalinity	232	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 16:05	
SM 2320 B	Bicarbonate	232	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 16:05	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 16:05	
SM 2540 C	Total Diss. Solids	320	mg/L	10			X837279	RS	09/14/18 14:45	
SM 5310B	Total Organic Carbon	1.50	mg/L	1.00	0.38		X838140	APH	09/20/18 15:06	

Anions by Ion Chromatography

EPA 300.0	Chloride	7.11	mg/L	0.20	0.14		X837244	DJS	09/13/18 17:30	
EPA 300.0	Nitrate as N	3.83	mg/L	0.050	0.043		X837244	DJS	09/13/18 17:30	
EPA 300.0	Sulfate as SO₄	7.07	mg/L	0.30	0.18		X837244	DJS	09/13/18 17:30	

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

Dianne Gardner
Project Manager



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

Work Order: **X810327**
Reported: 01-Oct-18 11:19

Client Sample ID: **GWMW-023-180912**

Sampled: 12-Sep-18 09:15

Received: 13-Sep-18

Sampled By: MT

SVL Sample ID: **X810327-03 (Water)****Sample Report Page 1 of 1**

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	0.000093		X839144	DPW	09/27/18 12:26	
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Metals (Total Recoverable)

EPA 6010D	Barium	0.171	mg/L	0.0020	0.0019		X837302	AS	09/29/18 09:31	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X837302	AS	09/29/18 09:31	
EPA 6010D	Manganese	1.02	mg/L	0.0080	0.0034		X837302	AS	09/29/18 09:31	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X837302	AS	09/29/18 09:31	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X837302	AS	09/29/18 09:31	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X837298	KWH	09/26/18 09:51	

Classical Chemistry Parameters

EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X838192	APH	09/20/18 14:20	
SM 2320 B	Total Alkalinity	405	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 16:09	
SM 2320 B	Bicarbonate	405	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 16:09	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 16:09	
SM 2540 C	Total Diss. Solids	535	mg/L	10			X837279	RS	09/14/18 14:45	
SM 5310B	Total Organic Carbon	2.97	mg/L	1.00	0.38		X838140	APH	09/20/18 13:21	

Anions by Ion Chromatography

EPA 300.0	Chloride	61.9	mg/L	2.00	1.40	10	X837244	DJS	09/13/18 18:39	D2
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.043		X837244	DJS	09/13/18 18:25	
EPA 300.0	Sulfate as SO₄	7.90	mg/L	0.30	0.18		X837244	DJS	09/13/18 18:25	

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

Dianne Gardner
Project Manager



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

Work Order: **X810327**
Reported: 01-Oct-18 11:19

Client Sample ID: **MWS-1-2-180912**
SVL Sample ID: **X810327-04 (Water)**

Sampled: 12-Sep-18 09:30
Received: 13-Sep-18
Sampled By: MT

Sample Report Page 1 of 1

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X839144	DPW	09/27/18 12:32	
Metals (Total Recoverable)										
EPA 6010D	Barium	0.169	mg/L	0.0020	0.0019		X837302	AS	09/29/18 09:34	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X837302	AS	09/29/18 09:34	
EPA 6010D	Manganese	1.01	mg/L	0.0080	0.0034		X837302	AS	09/29/18 09:34	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X837302	AS	09/29/18 09:34	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X837302	AS	09/29/18 09:34	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X837298	KWH	09/26/18 09:53	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X838192	APH	09/20/18 14:23	
SM 2320 B	Total Alkalinity	404	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 16:13	
SM 2320 B	Bicarbonate	404	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 16:13	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X838051	JDM	09/19/18 16:13	
SM 2540 C	Total Diss. Solids	543	mg/L	10			X837279	RS	09/14/18 14:45	
SM 5310B	Total Organic Carbon	2.85	mg/L	1.00	0.38		X838140	APH	09/20/18 15:19	
Anions by Ion Chromatography										
EPA 300.0	Chloride	62.2	mg/L	2.00	1.40	10	X837244	DJS	09/13/18 19:07	D2
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.043		X837244	DJS	09/13/18 18:53	
EPA 300.0	Sulfate as SO₄	7.94	mg/L	0.30	0.18		X837244	DJS	09/13/18 18:53	

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

Dianne Gardner
Project Manager



Spokane County Environmental Services (Colbert)

22515 N. Elk Chattaroy Road

Colbert, WA 99005

Work Order:

X810327

Reported:

01-Oct-18 11:19

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
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Metals (Total)

EPA 7470A	Mercury	mg/L	<0.00020	0.000093	0.00020	X839144	27-Sep-18	
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Metals (Total Recoverable)

EPA 6010D	Barium	mg/L	<0.0020	0.0019	0.0020	X837302	29-Sep-18	
EPA 6010D	Lead	mg/L	<0.0075	0.0049	0.0075	X837302	29-Sep-18	
EPA 6010D	Manganese	mg/L	<0.0080	0.0034	0.0080	X837302	29-Sep-18	
EPA 6010D	Vanadium	mg/L	<0.0050	0.0019	0.0050	X837302	29-Sep-18	
EPA 6010D	Zinc	mg/L	<0.010	0.005	0.010	X837302	29-Sep-18	
EPA 6020B	Arsenic	mg/L	<0.00300	0.00021	0.00300	X837298	26-Sep-18	

Classical Chemistry Parameters

EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X838192	20-Sep-18	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X838051	19-Sep-18	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X838051	19-Sep-18	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X838051	19-Sep-18	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X838051	19-Sep-18	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X838051	19-Sep-18	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X838051	19-Sep-18	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X837279	14-Sep-18	
SM 5310B	Total Organic Carbon	mg/L	<1.00	0.38	1.00	X838140	20-Sep-18	
SM 5310B	Total Organic Carbon	mg/L	<1.00	0.38	1.00	X838140	20-Sep-18	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.14	0.20	X837244	13-Sep-18	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.043	0.050	X837244	13-Sep-18	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X837244	13-Sep-18	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
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Metals (Total)

EPA 7470A	Mercury	mg/L	0.00520	0.00500	104	80 - 120	X839144	27-Sep-18	
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Metals (Total Recoverable)

EPA 6010D	Barium	mg/L	1.04	1.00	104	80 - 120	X837302	29-Sep-18	
EPA 6010D	Lead	mg/L	1.03	1.00	103	80 - 120	X837302	29-Sep-18	
EPA 6010D	Manganese	mg/L	1.04	1.00	104	80 - 120	X837302	29-Sep-18	
EPA 6010D	Vanadium	mg/L	1.08	1.00	108	80 - 120	X837302	29-Sep-18	
EPA 6010D	Zinc	mg/L	1.03	1.00	103	80 - 120	X837302	29-Sep-18	
EPA 6020B	Arsenic	mg/L	0.0258	0.0250	103	80 - 120	X837298	26-Sep-18	

Classical Chemistry Parameters

EPA 350.1	Ammonia as N	mg/L	0.999	1.00	99.9	90 - 110	X838192	20-Sep-18	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	98.5	99.3	99.2	94.3 - 106	X838051	19-Sep-18	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	104	99.3	105	94.3 - 106	X838051	19-Sep-18	
SM 2320 B	Bicarbonate	mg/L as CaCO3	98.5	99.3	99.2	95.1 - 106	X838051	19-Sep-18	
SM 2320 B	Bicarbonate	mg/L as CaCO3	104	99.3	105	95.1 - 106	X838051	19-Sep-18	
SM 5310B	Total Organic Carbon	mg/L	34.6	34.3	101	90 - 110	X838140	20-Sep-18	
SM 5310B	Total Organic Carbon	mg/L	36.1	34.3	105	90 - 110	X838140	20-Sep-18	



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

Work Order: **X810327**
Reported: 01-Oct-18 11:19

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.95	3.00	98.5	90 - 110	X837244	13-Sep-18	
EPA 300.0	Nitrate as N	mg/L	1.98	2.00	99.0	90 - 110	X837244	13-Sep-18	
EPA 300.0	Sulfate as SO4	mg/L	9.83	10.0	98.3	90 - 110	X837244	13-Sep-18	

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2320 B	Total Alkalinity	mg/L as CaCO3	77.5	78.7	1.6	20	X838051	19-Sep-18	
SM 2320 B	Bicarbonate	mg/L as CaCO3	77.5	78.7	1.6	20	X838051	19-Sep-18	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X838051	19-Sep-18	
SM 2540 C	Total Diss. Solids	mg/L	263	256	2.7	10	X837279	14-Sep-18	
SM 2540 C	Total Diss. Solids	mg/L	538	543	0.9	10	X837279	14-Sep-18	
SM 5310B	Total Organic Carbon	mg/L	<1.00	<1.00	<RL	20	X838140	20-Sep-18	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Recovery	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	mg/L	0.00106	<0.00020	0.00100	106	75 - 125	X839144	27-Sep-18	
Metals (Total Recoverable)										
EPA 6010D	Barium	mg/L	1.81	0.744	1.00	107	75 - 125	X837302	29-Sep-18	
EPA 6010D	Lead	mg/L	1.00	<0.0075	1.00	100	75 - 125	X837302	29-Sep-18	
EPA 6010D	Manganese	mg/L	1.97	0.907	1.00	106	75 - 125	X837302	29-Sep-18	
EPA 6010D	Vanadium	mg/L	1.10	<0.0050	1.00	110	75 - 125	X837302	29-Sep-18	
EPA 6010D	Zinc	mg/L	1.01	<0.010	1.00	101	75 - 125	X837302	29-Sep-18	
EPA 6020B	Arsenic	mg/L	0.0882	0.0634	0.0250	99.1	75 - 125	X837298	26-Sep-18	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	mg/L	0.990	<0.030	1.00	99.0	90 - 110	X838192	20-Sep-18	
EPA 350.1	Ammonia as N	mg/L	0.992	<0.030	1.00	99.2	90 - 110	X838192	20-Sep-18	
SM 5310B	Total Organic Carbon	mg/L	11.2	<1.00	10.0	103	80 - 120	X838140	20-Sep-18	
SM 5310B	Total Organic Carbon	mg/L	13.3	2.97	10.0	103	80 - 120	X838140	20-Sep-18	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	162	165	3.00	0.30R>S	90 - 110	X837244	17-Sep-18	D2,M4
EPA 300.0	Nitrate as N	mg/L	0.319	<0.050	2.00	15.9	90 - 110	X837244	13-Sep-18	M2
EPA 300.0	Sulfate as SO4	mg/L	9.98	<0.30	10.0	99.8	90 - 110	X837244	13-Sep-18	



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

Work Order: **X810327**
Reported: 01-Oct-18 11:19

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	% Rec.	RPD	RPD Limit	Batch ID	Analyzed	Notes
Metals (Total)											
EPA 7470A	Mercury	mg/L	0.00107	0.00106	0.00100	107	0.9	20	X839144	27-Sep-18	
Metals (Total Recoverable)											
EPA 6010D	Barium	mg/L	1.78	1.81	1.00	103	1.8	20	X837302	29-Sep-18	
EPA 6010D	Lead	mg/L	0.994	1.00	1.00	99.4	0.6	20	X837302	29-Sep-18	
EPA 6010D	Manganese	mg/L	1.94	1.97	1.00	104	1.5	20	X837302	29-Sep-18	
EPA 6010D	Vanadium	mg/L	1.09	1.10	1.00	109	1.5	20	X837302	29-Sep-18	
EPA 6010D	Zinc	mg/L	0.998	1.01	1.00	99.8	0.8	20	X837302	29-Sep-18	
EPA 6020B	Arsenic	mg/L	0.0881	0.0882	0.0250	98.8	0.1	20	X837298	26-Sep-18	
Classical Chemistry Parameters											
EPA 350.1	Ammonia as N	mg/L	0.963	0.990	1.00	96.3	2.8	20	X838192	20-Sep-18	
SM 5310B	Total Organic Carbon	mg/L	11.5	11.2	10.0	106	2.9	20	X838140	20-Sep-18	
Anions by Ion Chromatography											
EPA 300.0	Chloride	mg/L	163	162	3.00	0.30R>S	0.7	20	X837244	17-Sep-18	D2,M4
EPA 300.0	Nitrate as N	mg/L	0.328	0.319	2.00	16.4	2.7	20	X837244	13-Sep-18	M2
EPA 300.0	Sulfate as SO4	mg/L	9.77	9.98	10.0	97.7	2.2	20	X837244	13-Sep-18	

Notes and Definitions

D2	Sample required dilution due to high concentration of target analyte.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
Q5	Sample was received with inadequate preservation, but preserved by the laboratory.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

Anatek Labs, Inc.

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-001	Sampling Date	9/11/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWDW-002-180911	Sampling Time	9:01 AM		
Matrix	Water	Sample Location	X8I0345-01		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-001	Sampling Date	9/11/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWDW-002-180911	Sampling Time	9:01 AM		
Matrix	Water	Sample Location	X8I0345-01		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromobenzene	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
Bromochloromethane	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	9/21/2018 9:56:00 PM	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 **Batch #:** 180914038
Address: 22515 N. ELK CHATTAROY ROAD **Project Name:** SVL #X8I0345
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Analytical Results Report

Sample Number	180914038-001	Sampling Date	9/11/2018	Date/Time Received	9/13/201811:15 AM		
Client Sample ID	GWDW-002-180911	Sampling Time	9:01 AM				
Matrix	Water	Sample Location	X8I0345-01				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
p-isopropyltoluene	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
sec-Butylbenzene	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
Trichloroflouromethane	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	9/21/2018 9:56:00 PM	SAT	EPA 8260C	

Surrogate Data

Sample Number	180914038-001			
Surrogate Standard	Method	Percent Recovery	Control Limits	
1,2-Dichlorobenzene-d4	EPA 8260C	98.4	70-130	
4-Bromofluorobenzene	EPA 8260C	104.4	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
Attn: SVL ANALYTICAL, INC.

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-002	Sampling Date	9/11/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWDW-003-180911	Sampling Time	10:29 AM		
Matrix	Water	Sample Location	X8I0345-02		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-002	Sampling Date	9/11/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWDW-003-180911	Sampling Time	10:29 AM		
Matrix	Water	Sample Location	X8I0345-02		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-002	Sampling Date	9/11/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWDW-003-180911	Sampling Time	10:29 AM		
Matrix	Water	Sample Location	X8I0345-02		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
Trichlorofluoromethane	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	9/21/2018 10:25:00 PM	SAT	EPA 8260C	

Surrogate Data

Sample Number	180914038-002			
Surrogate Standard	Method	Percent Recovery	Control Limits	
1,2-Dichlorobenzene-d4	EPA 8260C	101.6	70-130	
4-Bromofluorobenzene	EPA 8260C	102.0	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
Attn: SVL ANALYTICAL, INC.

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-003	Sampling Date	9/11/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWMS-004-180911	Sampling Time	12:55 PM		
Matrix	Water	Sample Location	X8I0345-03		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
1,1-Dichloroethene	1.30	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-003	Sampling Date	9/11/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWMS-004-180911	Sampling Time	12:55 PM		
Matrix	Water	Sample Location	X8I0345-03		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
Dichlorodifluoromethane	1.34	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-003	Sampling Date	9/11/2018		Date/Time Received	9/13/2018 11:15 AM		
Client Sample ID	GWMS-004-180911	Sampling Time	12:55 PM					
Matrix	Water	Sample Location	X8I0345-03					
Comments								
	Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
	sec-Butylbenzene	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
	Styrene	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
	tert-Butylbenzene	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
	Tetrachloroethene	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
	Toluene	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
	trans-1,2-Dichloroethene	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
	trans-1,3-Dichloropropene	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
	Trichloroethene	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
	Trichloroflouromethane	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	
	Vinyl Chloride	ND	ug/L	0.5	9/21/2018 10:55:00 PM	SAT	EPA 8260C	

Surrogate Data

Sample Number	180914038-003		
Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	100.0	70-130
4-Bromofluorobenzene	EPA 8260C	102.0	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
Attn: SVL ANALYTICAL, INC.

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-004	Sampling Date	9/11/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWMS-005-180911	Sampling Time	1:00 PM		
Matrix	Water	Sample Location	X8I0345-04		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-004	Sampling Date	9/11/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWMS-005-180911	Sampling Time	1:00 PM		
Matrix	Water	Sample Location	X8I0345-04		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-004	Sampling Date	9/11/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWMS-005-180911	Sampling Time	1:00 PM		
Matrix	Water	Sample Location	X8I0345-04		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
Trichlorofluoromethane	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	9/21/2018 11:24:00 PM	SAT	EPA 8260C	

Surrogate Data

Sample Number	180914038-004			
Surrogate Standard	Method	Percent Recovery	Control Limits	
1,2-Dichlorobenzene-d4	EPA 8260C	100.4	70-130	
4-Bromofluorobenzene	EPA 8260C	94.4	70-130	
Toluene-d8	EPA 8260C	93.6	70-130	

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-005	Sampling Date	9/11/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWMW-009-180911	Sampling Time	10:11 AM		
Matrix	Water	Sample Location	X8I0345-05		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-005	Sampling Date	9/11/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWMW-009-180911	Sampling Time	10:11 AM		
Matrix	Water	Sample Location	X8I0345-05		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	9/21/2018 11:53:00 PM	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

Anatek Labs, Inc.

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-005	Sampling Date	9/11/2018	Date/Time Received	9/13/201811:15 AM		
Client Sample ID	GWMW-009-180911	Sampling Time	10:11 AM				
Matrix	Water	Sample Location	X8I0345-05				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
Trichloroflouromethane	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	9/21/2018 11:53:00 PM	SAT	EPA 8260C	

Surrogate Data

Sample Number	180914038-005			
Surrogate Standard	Method	Percent Recovery	Control Limits	
1,2-Dichlorobenzene-d4	EPA 8260C	99.2	70-130	
4-Bromofluorobenzene	EPA 8260C	102.0	70-130	
Toluene-d8	EPA 8260C	100.4	70-130	

Anatek Labs, Inc.

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-005A	Sampling Date	9/11/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWMW-009-180911A	Sampling Time	10:11 AM		
Matrix	Water	Sample Location	X8I0345-5A		
Comments	Sample Matrix Spike				

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	9.66	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
1,1,1-Trichloroethane	9.88	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	9.92	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
1,1,2-Trichloroethane	9.52	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
1,1-Dichloroethane	10.5	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
1,1-Dichloroethene	9.96	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
1,1-dichloropropene	9.67	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	7.62	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
1,2,3-Trichloropropane	9.34	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	8.65	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	8.91	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	8.35	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
1,2-Dibromoethane	9.46	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
1,2-Dichlorobenzene	9.27	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
1,2-Dichloroethane	9.77	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
1,2-Dichloropropane	10.3	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	8.75	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
1,3-Dichlorobenzene	9.20	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
1,3-Dichloropropane	9.77	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
1,4-Dichlorobenzene	9.42	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
2,2-Dichloropropane	10.2	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
2-Chlorotoluene	10.2	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
2-hexanone	10.5	ug/L	2.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
4-Chlorotoluene	10.6	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
Acetone	13.2	ug/L	2.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
Acrylonitrile	10.8	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
Benzene	9.95	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
Bromobenzene	10.0	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-005A	Sampling Date	9/11/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWMW-009-180911A	Sampling Time	10:11 AM		
Matrix	Water	Sample Location	X8I0345-5A		
Comments	Sample Matrix Spike				

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	9.91	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
Bromodichloromethane	9.77	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
Bromoform	9.74	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
Bromomethane	8.72	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
Carbon disulfide	10.1	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
Carbon Tetrachloride	9.57	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
Chlorobenzene	9.56	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
Chloroethane	8.59	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
Chloroform	10.1	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
Chloromethane	9.03	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
cis-1,2-dichloroethene	9.79	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	9.93	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
Dibromochloromethane	9.28	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
Dibromomethane	9.55	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
Dichlorodifluoromethane	10.1	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
Ethylbenzene	9.72	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
Hexachlorobutadiene	9.20	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
Isopropylbenzene	9.67	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
m+p-Xylene	19.1	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	9.58	ug/L	2.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	10.7	ug/L	2.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
Methylene chloride	9.94	ug/L	2.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	9.89	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
Naphthalene	7.08	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
n-Butylbenzene	9.78	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
n-Propylbenzene	9.98	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
o-Xylene	9.68	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
p-isopropyltoluene	9.90	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	

Anatek Labs, Inc.

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-005A	Sampling Date	9/11/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWMW-009-180911A	Sampling Time	10:11 AM		
Matrix	Water	Sample Location	X8I0345-5A		
Comments	Sample Matrix Spike				

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	10.1	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
Styrene	7.11	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
tert-Butylbenzene	10.3	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
Tetrachloroethene	9.10	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
Toluene	10.2	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
trans-1,2-Dichloroethene	9.89	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
trans-1,3-Dichloropropene	10.0	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
Trichloroethene	9.46	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
Trichlorofluoromethane	10.5	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	
Vinyl Chloride	8.68	ug/L	0.5	9/21/2018 7:59:00 PM	SAT	EPA 8260C	

Surrogate Data

Sample Number	180914038-005A		
Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	100.4	70-130
4-Bromofluorobenzene	EPA 8260C	108.8	70-130
Toluene-d8	EPA 8260C	102.4	70-130

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-005B	Sampling Date	9/11/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWMW-009-180911B	Sampling Time	10:11 AM		
Matrix	Water	Sample Location	X8I0345-5B		
Comments	Sample Matrix Spike Duplicate				

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	9.29	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
1,1,1-Trichloroethane	9.74	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	9.51	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
1,1,2-Trichloroethane	9.27	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
1,1-Dichloroethane	10.5	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
1,1-Dichloroethene	9.91	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
1,1-dichloropropene	9.47	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	7.51	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
1,2,3-Trichloropropane	8.84	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	8.26	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	8.84	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	8.16	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
1,2-Dibromoethane	9.16	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
1,2-Dichlorobenzene	9.19	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
1,2-Dichloroethane	9.82	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
1,2-Dichloropropane	10.2	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	8.64	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
1,3-Dichlorobenzene	9.33	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
1,3-Dichloropropane	9.45	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
1,4-Dichlorobenzene	9.36	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
2,2-Dichloropropane	9.87	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
2-Chlorotoluene	10.1	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
2-hexanone	9.82	ug/L	2.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
4-Chlorotoluene	10.3	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
Acetone	12.6	ug/L	2.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
Acrylonitrile	10.7	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
Benzene	9.68	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
Bromobenzene	9.84	ug/L	0.5	9/21/2018 8:28:00 PM	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
Attn: SVL ANALYTICAL, INC.

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-005B	Sampling Date	9/11/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWMW-009-180911B	Sampling Time	10:11 AM		
Matrix	Water	Sample Location	X8I0345-5B		
Comments	Sample Matrix Spike Duplicate				

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	9.84	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
Bromodichloromethane	9.75	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
Bromoform	9.38	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
Bromomethane	7.81	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
Carbon disulfide	8.94	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
Carbon Tetrachloride	9.51	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
Chlorobenzene	9.32	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
Chloroethane	8.85	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
Chloroform	10.0	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
Chloromethane	8.78	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
cis-1,2-dichloroethene	9.32	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	9.84	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
Dibromochloromethane	8.88	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
Dibromomethane	9.66	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
Dichlorodifluoromethane	10.1	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
Ethylbenzene	9.36	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
Hexachlorobutadiene	9.24	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
Isopropylbenzene	9.38	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
m+p-Xylene	19.1	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	9.25	ug/L	2.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	10.1	ug/L	2.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
Methylene chloride	10.0	ug/L	2.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	9.97	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
Naphthalene	6.85	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
n-Butylbenzene	9.82	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
n-Propylbenzene	9.76	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
o-Xylene	9.26	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
p-isopropyltoluene	9.63	ug/L	0.5	9/21/2018 8:28:00 PM	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
Attn: SVL ANALYTICAL, INC.

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-005B	Sampling Date	9/11/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWMW-009-180911B	Sampling Time	10:11 AM		
Matrix	Water	Sample Location	X8I0345-5B		
Comments	Sample Matrix Spike Duplicate				

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	9.82	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
Styrene	6.98	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
tert-Butylbenzene	10.0	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
Tetrachloroethene	8.59	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
Toluene	10.0	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
trans-1,2-Dichloroethene	9.80	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
trans-1,3-Dichloropropene	9.80	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
Trichloroethene	9.41	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
Trichlorofluoromethane	10.4	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	
Vinyl Chloride	8.63	ug/L	0.5	9/21/2018 8:28:00 PM	SAT	EPA 8260C	

Surrogate Data

Sample Number	180914038-005B			
Surrogate Standard	Method	Percent Recovery	Control Limits	
1,2-Dichlorobenzene-d4	EPA 8260C	98.8	70-130	
4-Bromofluorobenzene	EPA 8260C	105.2	70-130	
Toluene-d8	EPA 8260C	103.6	70-130	

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-006	Sampling Date	9/11/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWMW-010-180911	Sampling Time	9:19 AM		
Matrix	Water	Sample Location	X8I0345-06		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-006	Sampling Date	9/11/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWMW-010-180911	Sampling Time	9:19 AM		
Matrix	Water	Sample Location	X8I0345-06		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	9/22/2018 12:22:00 AM	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

Anatek Labs, Inc.

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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
Attn: SVL ANALYTICAL, INC.

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-006	Sampling Date	9/11/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWMW-010-180911	Sampling Time	9:19 AM		
Matrix	Water	Sample Location	X8I0345-06		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
Trichlorofluoromethane	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	9/22/2018 12:22:00 AM	SAT	EPA 8260C	

Surrogate Data

Sample Number	180914038-006			
Surrogate Standard	Method	Percent Recovery	Control Limits	
1,2-Dichlorobenzene-d4	EPA 8260C	98.8	70-130	
4-Bromofluorobenzene	EPA 8260C	96.4	70-130	
Toluene-d8	EPA 8260C	94.0	70-130	

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-007	Sampling Date	9/11/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWMW-013-180911	Sampling Time	11:00 AM		
Matrix	Water	Sample Location	X8I0345-07		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
1,1-Dichloroethane	1.14	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-007	Sampling Date	9/11/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWMW-013-180911	Sampling Time	11:00 AM		
Matrix	Water	Sample Location	X8I0345-07		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
Dichlorodifluoromethane	1.61	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-007	Sampling Date	9/11/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWMW-013-180911	Sampling Time	11:00 AM		
Matrix	Water	Sample Location	X8I0345-07		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
Trichlorofluoromethane	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	9/22/2018 12:51:00 AM	SAT	EPA 8260C	

Surrogate Data

Sample Number	180914038-007			
Surrogate Standard	Method	Percent Recovery	Control Limits	
1,2-Dichlorobenzene-d4	EPA 8260C	101.2	70-130	
4-Bromofluorobenzene	EPA 8260C	96.4	70-130	
Toluene-d8	EPA 8260C	95.2	70-130	

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-008	Sampling Date	9/11/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWMW-014-180911	Sampling Time	9:30 AM		
Matrix	Water	Sample Location	X8I0345-08		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	9/22/2018 1:21:00 AM	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
Attn: SVL ANALYTICAL, INC.

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-008	Sampling Date	9/11/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWMW-014-180911	Sampling Time	9:30 AM		
Matrix	Water	Sample Location	X8I0345-08		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	9/22/2018 1:21:00 AM	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
Attn: SVL ANALYTICAL, INC.

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-008	Sampling Date	9/11/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWMW-014-180911	Sampling Time	9:30 AM		
Matrix	Water	Sample Location	X8I0345-08		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
Trichlorofluoromethane	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	9/22/2018 1:21:00 AM	SAT	EPA 8260C	

Surrogate Data

Sample Number	180914038-008			
Surrogate Standard	Method	Percent Recovery	Control Limits	
1,2-Dichlorobenzene-d4	EPA 8260C	100.8	70-130	
4-Bromofluorobenzene	EPA 8260C	96.8	70-130	
Toluene-d8	EPA 8260C	94.4	70-130	

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-009	Sampling Date	9/11/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWMW-019R-180911	Sampling Time	1:21 PM		
Matrix	Water	Sample Location	X8I0345-09		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-009	Sampling Date	9/11/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWMW-019R-180911	Sampling Time	1:21 PM		
Matrix	Water	Sample Location	X8I0345-09		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	9/22/2018 1:50:00 AM	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

Anatek Labs, Inc.

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-009	Sampling Date	9/11/2018	Date/Time Received	9/13/201811:15 AM		
Client Sample ID	GWMW-019R-180911	Sampling Time	1:21 PM				
Matrix	Water	Sample Location	X8I0345-09				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
Trichloroflouromethane	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	9/22/2018 1:50:00 AM	SAT	EPA 8260C	

Surrogate Data

Sample Number	180914038-009			
Surrogate Standard	Method	Percent Recovery	Control Limits	
1,2-Dichlorobenzene-d4	EPA 8260C	99.2	70-130	
4-Bromofluorobenzene	EPA 8260C	100.8	70-130	
Toluene-d8	EPA 8260C	97.2	70-130	

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-010	Sampling Date	9/11/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWMW-029-180911	Sampling Time	11:59 AM		
Matrix	Water	Sample Location	X8I0345-10		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-010	Sampling Date	9/11/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWMW-029-180911	Sampling Time	11:59 AM		
Matrix	Water	Sample Location	X8I0345-10		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
Dichlorodifluoromethane	1.14	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	9/24/2018 9:32:00 PM	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

Anatek Labs, Inc.

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com
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
Attn: SVL ANALYTICAL, INC.

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-010	Sampling Date	9/11/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWMW-029-180911	Sampling Time	11:59 AM		
Matrix	Water	Sample Location	X8I0345-10		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
Tetrachloroethene	0.55	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
Trichlorofluoromethane	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	9/24/2018 9:32:00 PM	SAT	EPA 8260C	

Surrogate Data

Sample Number	180914038-010		
Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	100.4	70-130
4-Bromofluorobenzene	EPA 8260C	94.8	70-130
Toluene-d8	EPA 8260C	96.0	70-130

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Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-011	Sampling Date	9/11/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	MWS-1-1-180911	Sampling Time	10:13 AM		
Matrix	Water	Sample Location	X8I0345-11		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-011	Sampling Date	9/11/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	MWS-1-1-180911	Sampling Time	10:13 AM		
Matrix	Water	Sample Location	X8I0345-11		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	9/24/2018 10:01:00 PM	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
Attn: SVL ANALYTICAL, INC.

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-011	Sampling Date	9/11/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	MWS-1-1-180911	Sampling Time	10:13 AM		
Matrix	Water	Sample Location	X8I0345-11		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
Trichlorofluoromethane	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	9/24/2018 10:01:00 PM	SAT	EPA 8260C	

Surrogate Data

Sample Number	180914038-011			
Surrogate Standard	Method	Percent Recovery	Control Limits	
1,2-Dichlorobenzene-d4	EPA 8260C	103.2	70-130	
4-Bromofluorobenzene	EPA 8260C	95.6	70-130	
Toluene-d8	EPA 8260C	97.6	70-130	

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Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-012	Sampling Date	9/12/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWMW-016-180912	Sampling Time	8:41 AM		
Matrix	Water	Sample Location	X8I0345-12		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	12.5	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
1,2-Dichloropropane	14.6	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
2-hexanone	ND	ug/L	25	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
Acetone	2500	ug/L	25	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
Benzene	17.5	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-012	Sampling Date	9/12/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWMW-016-180912	Sampling Time	8:41 AM		
Matrix	Water	Sample Location	X8I0345-12		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
Bromoform	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
Bromomethane	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
Carbon disulfide	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
Chloroethane	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
Chloroform	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
Chloromethane	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
cis-1,2-dichloroethene	22.2	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
Ethylbenzene	71.8	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
Isopropylbenzene	5.03	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
m+p-Xylene	49.7	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	1040	ug/L	25	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	106	ug/L	25	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	25	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
Naphthalene	14.3	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
o-Xylene	20.8	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
p-isopropyltoluene	12.9	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-012	Sampling Date	9/12/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWMW-016-180912	Sampling Time	8:41 AM		
Matrix	Water	Sample Location	X8I0345-12		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
Styrene	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
Toluene	41.4	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
Trichlorofluoromethane	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	5	9/24/2018 11:57:00 PM	SAT	EPA 8260C	

Surrogate Data

Sample Number	180914038-012			
Surrogate Standard	Method	Percent Recovery	Control Limits	
1,2-Dichlorobenzene-d4	EPA 8260C	100.4	70-130	
4-Bromofluorobenzene	EPA 8260C	98.8	70-130	
Toluene-d8	EPA 8260C	101.2	70-130	

Anatek Labs, Inc.

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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
Attn: SVL ANALYTICAL, INC.

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-013	Sampling Date	9/12/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWMW-020-180912	Sampling Time	9:17 AM		
Matrix	Water	Sample Location	X8I0345-13		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
1,1-Dichloroethane	0.63	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-013	Sampling Date	9/12/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWMW-020-180912	Sampling Time	9:17 AM		
Matrix	Water	Sample Location	X8I0345-13		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
Dichlorodifluoromethane	1.17	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-013	Sampling Date	9/12/2018		Date/Time Received	9/13/201811:15 AM		
Client Sample ID	GWMW-020-180912	Sampling Time	9:17 AM					
Matrix	Water	Sample Location	X8I0345-13					
Comments								
	Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
	sec-Butylbenzene	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
	Styrene	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
	tert-Butylbenzene	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
	Tetrachloroethene	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
	Toluene	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
	trans-1,2-Dichloroethene	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
	trans-1,3-Dichloropropene	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
	Trichloroethene	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
	Trichloroflouromethane	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	
	Vinyl Chloride	ND	ug/L	0.5	9/24/2018 10:30:00 PM	SAT	EPA 8260C	

Surrogate Data

Sample Number	180914038-013		
Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	99.6	70-130
4-Bromofluorobenzene	EPA 8260C	94.4	70-130
Toluene-d8	EPA 8260C	97.2	70-130

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Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-014	Sampling Date	9/12/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWMW-023-180912	Sampling Time	9:15 AM		
Matrix	Water	Sample Location	X8I0345-14		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
1,1-Dichloroethane	2.63	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-014	Sampling Date	9/12/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWMW-023-180912	Sampling Time	9:15 AM		
Matrix	Water	Sample Location	X8I0345-14		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
cis-1,2-dichloroethene	0.50	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
Dichlorodifluoromethane	1.57	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	9/24/2018 10:59:00 PM	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

Anatek Labs, Inc.

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-014	Sampling Date	9/12/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWMW-023-180912	Sampling Time	9:15 AM		
Matrix	Water	Sample Location	X8I0345-14		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
Trichlorofluoromethane	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	9/24/2018 10:59:00 PM	SAT	EPA 8260C	

Surrogate Data

Sample Number	180914038-014			
Surrogate Standard	Method	Percent Recovery	Control Limits	
1,2-Dichlorobenzene-d4	EPA 8260C	102.0	70-130	
4-Bromofluorobenzene	EPA 8260C	95.2	70-130	
Toluene-d8	EPA 8260C	97.2	70-130	

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-015	Sampling Date	9/12/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	MWS-1-2-180912	Sampling Time	9:30 AM		
Matrix	Water	Sample Location	X8I0345-15		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
1,1-Dichloroethane	2.34	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-015	Sampling Date	9/12/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	MWS-1-2-180912	Sampling Time	9:30 AM		
Matrix	Water	Sample Location	X8I0345-15		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
Dichlorodifluoromethane	1.50	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-015	Sampling Date	9/12/2018	Date/Time Received	9/13/201811:15 AM		
Client Sample ID	MWS-1-2-180912	Sampling Time	9:30 AM				
Matrix	Water	Sample Location	X8I0345-15				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
Trichloroflouromethane	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	9/24/2018 11:23:00 PM	SAT	EPA 8260C	

Surrogate Data

Sample Number	180914038-015		
Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	98.8	70-130
4-Bromofluorobenzene	EPA 8260C	96.8	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
Attn: SVL ANALYTICAL, INC.

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-016	Sampling Date	9/12/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	MWS-2-1-180912	Sampling Time			
Matrix	Water	Sample Location	X8I0345-16		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	

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

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-016	Sampling Date	9/12/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	MWS-2-1-180912	Sampling Time			
Matrix	Water	Sample Location	X8I0345-16		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	9/21/2018 9:27:00 PM	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
Attn: SVL ANALYTICAL, INC.

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report

Sample Number	180914038-016	Sampling Date	9/12/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	MWS-2-1-180912	Sampling Time			
Matrix	Water	Sample Location	X8I0345-16		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
Trichlorofluoromethane	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	9/21/2018 9:27:00 PM	SAT	EPA 8260C	

Surrogate Data

Sample Number	180914038-016			
Surrogate Standard	Method	Percent Recovery	Control Limits	
1,2-Dichlorobenzene-d4	EPA 8260C	100.0	70-130	
4-Bromofluorobenzene	EPA 8260C	96.4	70-130	
Toluene-d8	EPA 8260C	96.0	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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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
Ethylbenzene	9.78	ug/L	10	97.8	80-120	9/21/2018	9/21/2018
1,1-Dichloroethene	9.05	ug/L	10	90.5	80-120	9/24/2018	9/24/2018
Benzene	9.88	ug/L	10	98.8	80-120	9/21/2018	9/21/2018
Benzene	9.40	ug/L	10	94.0	80-120	9/24/2018	9/24/2018
Chlorobenzene	9.52	ug/L	10	95.2	80-120	9/21/2018	9/21/2018
Chlorobenzene	9.45	ug/L	10	94.5	80-120	9/24/2018	9/24/2018
Chloroform	9.88	ug/L	10	98.8	80-120	9/21/2018	9/21/2018
Chloroform	9.28	ug/L	10	92.8	80-120	9/24/2018	9/24/2018
1,1-Dichloroethene	10.1	ug/L	10	101.0	80-120	9/21/2018	9/21/2018
cis-1,2-dichloroethene	9.41	ug/L	10	94.1	80-120	9/24/2018	9/24/2018
Trichloroethene	9.07	ug/L	10	90.7	80-120	9/24/2018	9/24/2018
Ethylbenzene	9.43	ug/L	10	94.3	80-120	9/24/2018	9/24/2018
o-Xylene	9.82	ug/L	10	98.2	80-120	9/21/2018	9/21/2018
o-Xylene	9.41	ug/L	10	94.1	80-120	9/24/2018	9/24/2018
Tetrachloroethene	8.94	ug/L	10	89.4	80-120	9/21/2018	9/21/2018
Tetrachloroethene	8.91	ug/L	10	89.1	80-120	9/24/2018	9/24/2018
Toluene	10.2	ug/L	10	102.0	80-120	9/21/2018	9/21/2018
Toluene	9.43	ug/L	10	94.3	80-120	9/24/2018	9/24/2018
Trichloroethene	9.41	ug/L	10	94.1	80-120	9/21/2018	9/21/2018
cis-1,2-dichloroethene	9.67	ug/L	10	96.7	80-120	9/21/2018	9/21/2018

Lab Control Sample Duplicate

Parameter	LCSD Result	Units	LCSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Trichloroethene	9.04	ug/L	10	90.4	0.3	0-25	9/24/2018	9/24/2018
Toluene	9.06	ug/L	10	90.6	4.0	0-25	9/24/2018	9/24/2018
Tetrachloroethene	9.45	ug/L	10	94.5	5.9	0-25	9/24/2018	9/24/2018
o-Xylene	9.26	ug/L	10	92.6	1.6	0-25	9/24/2018	9/24/2018
Ethylbenzene	9.54	ug/L	10	95.4	1.2	0-25	9/24/2018	9/24/2018
Chlorobenzene	9.50	ug/L	10	95.0	0.5	0-25	9/24/2018	9/24/2018
Benzene	9.37	ug/L	10	93.7	0.3	0-25	9/24/2018	9/24/2018
1,1-Dichloroethene	9.31	ug/L	10	93.1	2.8	0-25	9/24/2018	9/24/2018

Comments:

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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
Attn: SVL ANALYTICAL, INC.

Batch #: 180914038
Project Name: SVL #X8I0345

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
180914038-005	Trichloroethene	ND	9.46	ug/L	10	94.6	70-130	9/21/2018	9/21/2018
180914038-005	Toluene	ND	10.2	ug/L	10	102.0	70-130	9/21/2018	9/21/2018
180914038-005	Tetrachloroethene	ND	9.10	ug/L	10	91.0	70-130	9/21/2018	9/21/2018
180914038-005	o-Xylene	ND	9.68	ug/L	10	96.8	70-130	9/21/2018	9/21/2018
180914038-005	Ethylbenzene	ND	9.72	ug/L	10	97.2	70-130	9/21/2018	9/21/2018
180914038-005	cis-1,2-dichloroethene	ND	9.79	ug/L	10	97.9	70-130	9/21/2018	9/21/2018
180914038-005	Chloroform	ND	10.1	ug/L	10	101.0	70-130	9/21/2018	9/21/2018
180914038-005	Chlorobenzene	ND	9.56	ug/L	10	95.6	70-130	9/21/2018	9/21/2018
180914038-005	Benzene	ND	9.95	ug/L	10	99.5	70-130	9/21/2018	9/21/2018
180914038-005	1,1-Dichloroethene	ND	9.96	ug/L	10	99.6	70-130	9/21/2018	9/21/2018

Matrix Spike Duplicate

Parameter	MSD Result	Units	MSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Trichloroethene	9.41	ug/L	10	94.1	0.5	0-25	9/21/2018	9/21/2018
Toluene	10.0	ug/L	10	100.0	2.0	0-25	9/21/2018	9/21/2018
Tetrachloroethene	8.59	ug/L	10	85.9	5.8	0-25	9/21/2018	9/21/2018
o-Xylene	9.26	ug/L	10	92.6	4.4	0-25	9/21/2018	9/21/2018
Ethylbenzene	9.36	ug/L	10	93.6	3.8	0-25	9/21/2018	9/21/2018
cis-1,2-dichloroethene	9.32	ug/L	10	93.2	4.9	0-25	9/21/2018	9/21/2018
Chloroform	10.0	ug/L	10	100.0	1.0	0-25	9/21/2018	9/21/2018
Chlorobenzene	9.32	ug/L	10	93.2	2.5	0-25	9/21/2018	9/21/2018
Benzene	9.68	ug/L	10	96.8	2.8	0-25	9/21/2018	9/21/2018
1,1-Dichloroethene	9.91	ug/L	10	99.1	0.5	0-25	9/21/2018	9/21/2018

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/24/2018	9/24/2018
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/21/2018	9/21/2018
1,1,1-Trichloroethane	ND	ug/L	0.5	9/21/2018	9/21/2018
1,1,1-Trichloroethane	ND	ug/L	0.5	9/24/2018	9/24/2018
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/21/2018	9/21/2018
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/24/2018	9/24/2018
1,1,2-Trichloroethane	ND	ug/L	0.5	9/24/2018	9/24/2018

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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COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report Quality Control Data

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
1,1,2-Trichloroethane	ND	ug/L	0.5	9/21/2018	9/21/2018
1,1-Dichloroethane	ND	ug/L	0.5	9/21/2018	9/21/2018
1,1-Dichloroethane	ND	ug/L	0.5	9/24/2018	9/24/2018
1,1-Dichloroethene	ND	ug/L	0.5	9/21/2018	9/21/2018
1,1-Dichloroethene	ND	ug/L	0.5	9/24/2018	9/24/2018
1,1-dichloropropene	ND	ug/L	0.5	9/21/2018	9/21/2018
1,1-dichloropropene	ND	ug/L	0.5	9/24/2018	9/24/2018
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/24/2018	9/24/2018
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/21/2018	9/21/2018
1,2,3-Trichloropropane	ND	ug/L	0.5	9/24/2018	9/24/2018
1,2,3-Trichloropropane	ND	ug/L	0.5	9/21/2018	9/21/2018
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/21/2018	9/21/2018
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/24/2018	9/24/2018
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/21/2018	9/21/2018
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/24/2018	9/24/2018
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/24/2018	9/24/2018
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/21/2018	9/21/2018
1,2-Dibromoethane	ND	ug/L	0.5	9/21/2018	9/21/2018
1,2-Dibromoethane	ND	ug/L	0.5	9/24/2018	9/24/2018
1,2-Dichlorobenzene	ND	ug/L	0.5	9/21/2018	9/21/2018
1,2-Dichlorobenzene	ND	ug/L	0.5	9/24/2018	9/24/2018
1,2-Dichloroethane	ND	ug/L	0.5	9/21/2018	9/21/2018
1,2-Dichloroethane	ND	ug/L	0.5	9/24/2018	9/24/2018
1,2-Dichloropropane	ND	ug/L	0.5	9/21/2018	9/21/2018
1,2-Dichloropropane	ND	ug/L	0.5	9/24/2018	9/24/2018
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/21/2018	9/21/2018
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/24/2018	9/24/2018
1,3-Dichlorobenzene	ND	ug/L	0.5	9/21/2018	9/21/2018
1,3-Dichlorobenzene	ND	ug/L	0.5	9/24/2018	9/24/2018
1,3-Dichloropropane	ND	ug/L	0.5	9/21/2018	9/21/2018
1,3-Dichloropropane	ND	ug/L	0.5	9/24/2018	9/24/2018
1,4-Dichlorobenzene	ND	ug/L	0.5	9/21/2018	9/21/2018
1,4-Dichlorobenzene	ND	ug/L	0.5	9/24/2018	9/24/2018
2,2-Dichloropropane	ND	ug/L	0.5	9/21/2018	9/21/2018
2,2-Dichloropropane	ND	ug/L	0.5	9/24/2018	9/24/2018

Comments:

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COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report Quality Control Data

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
2-Chlorotoluene	ND	ug/L	0.5	9/24/2018	9/24/2018
2-Chlorotoluene	ND	ug/L	0.5	9/21/2018	9/21/2018
2-hexanone	ND	ug/L	2.5	9/21/2018	9/21/2018
2-hexanone	ND	ug/L	2.5	9/24/2018	9/24/2018
4-Chlorotoluene	ND	ug/L	0.5	9/21/2018	9/21/2018
4-Chlorotoluene	ND	ug/L	0.5	9/24/2018	9/24/2018
Acetone	ND	ug/L	2.5	9/21/2018	9/21/2018
Acetone	ND	ug/L	2.5	9/24/2018	9/24/2018
Acrylonitrile	ND	ug/L	0.5	9/21/2018	9/21/2018
Acrylonitrile	ND	ug/L	0.5	9/24/2018	9/24/2018
Benzene	ND	ug/L	0.5	9/21/2018	9/21/2018
Benzene	ND	ug/L	0.5	9/24/2018	9/24/2018
Bromobenzene	ND	ug/L	0.5	9/21/2018	9/21/2018
Bromobenzene	ND	ug/L	0.5	9/24/2018	9/24/2018
Bromochloromethane	ND	ug/L	0.5	9/21/2018	9/21/2018
Bromochloromethane	ND	ug/L	0.5	9/24/2018	9/24/2018
Bromodichloromethane	ND	ug/L	0.5	9/24/2018	9/24/2018
Bromodichloromethane	ND	ug/L	0.5	9/21/2018	9/21/2018
Bromoform	ND	ug/L	0.5	9/21/2018	9/21/2018
Bromoform	ND	ug/L	0.5	9/24/2018	9/24/2018
Bromomethane	ND	ug/L	0.5	9/21/2018	9/21/2018
Bromomethane	ND	ug/L	0.5	9/24/2018	9/24/2018
Carbon disulfide	ND	ug/L	0.5	9/21/2018	9/21/2018
Carbon disulfide	ND	ug/L	0.5	9/24/2018	9/24/2018
Carbon Tetrachloride	ND	ug/L	0.5	9/24/2018	9/24/2018
Carbon Tetrachloride	ND	ug/L	0.5	9/21/2018	9/21/2018
Chlorobenzene	ND	ug/L	0.5	9/21/2018	9/21/2018
Chlorobenzene	ND	ug/L	0.5	9/24/2018	9/24/2018
Chloroethane	ND	ug/L	0.5	9/21/2018	9/21/2018
Chloroethane	ND	ug/L	0.5	9/24/2018	9/24/2018
Chloroform	ND	ug/L	0.5	9/24/2018	9/24/2018
Chloroform	ND	ug/L	0.5	9/21/2018	9/21/2018
Chloromethane	ND	ug/L	0.5	9/21/2018	9/21/2018
Chloromethane	ND	ug/L	0.5	9/24/2018	9/24/2018
cis-1,2-dichloroethene	ND	ug/L	0.5	9/21/2018	9/21/2018

Comments:

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Batch #: 180914038
Project Name: SVL #X8I0345

Analytical Results Report Quality Control Data

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
cis-1,2-dichloroethene	ND	ug/L	0.5	9/24/2018	9/24/2018
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/21/2018	9/21/2018
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/24/2018	9/24/2018
Dibromochloromethane	ND	ug/L	0.5	9/21/2018	9/21/2018
Dibromochloromethane	ND	ug/L	0.5	9/24/2018	9/24/2018
Dibromomethane	ND	ug/L	0.5	9/21/2018	9/21/2018
Dibromomethane	ND	ug/L	0.5	9/24/2018	9/24/2018
Dichlorodifluoromethane	ND	ug/L	0.5	9/21/2018	9/21/2018
Dichlorodifluoromethane	ND	ug/L	0.5	9/24/2018	9/24/2018
Ethylbenzene	ND	ug/L	0.5	9/21/2018	9/21/2018
Ethylbenzene	ND	ug/L	0.5	9/24/2018	9/24/2018
Hexachlorobutadiene	ND	ug/L	0.5	9/21/2018	9/21/2018
Hexachlorobutadiene	ND	ug/L	0.5	9/24/2018	9/24/2018
Isopropylbenzene	ND	ug/L	0.5	9/21/2018	9/21/2018
Isopropylbenzene	ND	ug/L	0.5	9/24/2018	9/24/2018
m+p-Xylene	ND	ug/L	0.5	9/24/2018	9/24/2018
m+p-Xylene	ND	ug/L	0.5	9/21/2018	9/21/2018
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/21/2018	9/21/2018
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/24/2018	9/24/2018
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/21/2018	9/21/2018
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/24/2018	9/24/2018
Methylene chloride	ND	ug/L	2.5	9/21/2018	9/21/2018
Methylene chloride	ND	ug/L	2.5	9/24/2018	9/24/2018
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/24/2018	9/24/2018
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/21/2018	9/21/2018
Naphthalene	ND	ug/L	0.5	9/24/2018	9/24/2018
Naphthalene	ND	ug/L	0.5	9/21/2018	9/21/2018
n-Butylbenzene	ND	ug/L	0.5	9/21/2018	9/21/2018
n-Butylbenzene	ND	ug/L	0.5	9/24/2018	9/24/2018
n-Propylbenzene	ND	ug/L	0.5	9/21/2018	9/21/2018
n-Propylbenzene	ND	ug/L	0.5	9/24/2018	9/24/2018
o-Xylene	ND	ug/L	0.5	9/21/2018	9/21/2018
o-Xylene	ND	ug/L	0.5	9/24/2018	9/24/2018
p-isopropyltoluene	ND	ug/L	0.5	9/21/2018	9/21/2018
p-isopropyltoluene	ND	ug/L	0.5	9/24/2018	9/24/2018

Comments:

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Analytical Results Report Quality Control Data

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
sec-Butylbenzene	ND	ug/L	0.5	9/21/2018	9/21/2018
sec-Butylbenzene	ND	ug/L	0.5	9/24/2018	9/24/2018
Styrene	ND	ug/L	0.5	9/24/2018	9/24/2018
Styrene	ND	ug/L	0.5	9/21/2018	9/21/2018
tert-Butylbenzene	ND	ug/L	0.5	9/24/2018	9/24/2018
tert-Butylbenzene	ND	ug/L	0.5	9/21/2018	9/21/2018
Tetrachloroethene	ND	ug/L	0.5	9/21/2018	9/21/2018
Tetrachloroethene	ND	ug/L	0.5	9/24/2018	9/24/2018
Toluene	ND	ug/L	0.5	9/21/2018	9/21/2018
Toluene	ND	ug/L	0.5	9/24/2018	9/24/2018
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/24/2018	9/24/2018
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/21/2018	9/21/2018
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/21/2018	9/21/2018
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/24/2018	9/24/2018
Trichloroethene	ND	ug/L	0.5	9/21/2018	9/21/2018
Trichloroethene	ND	ug/L	0.5	9/24/2018	9/24/2018
Trichloroflouromethane	ND	ug/L	0.5	9/21/2018	9/21/2018
Trichloroflouromethane	ND	ug/L	0.5	9/24/2018	9/24/2018
Vinyl Chloride	ND	ug/L	0.5	9/24/2018	9/24/2018
Vinyl Chloride	ND	ug/L	0.5	9/21/2018	9/21/2018

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

Comments:

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Analytical Results Report

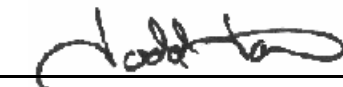
Sample Number	180914038-003	Sampling Date	9/11/2018	Date/Time Received	9/13/2018 11:15 AM
Client Sample ID	GWMS-004-180911	Sampling Time	12:55 PM	Extraction Date	9/17/2018
Matrix	Water	Sample Location	X8I0345-03		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
bis(2-Ethylhexyl)phthalate	5.49	ug/L	0.5	9/19/2018 7:13:00 PM	TGT	EPA 8270D	

Surrogate Data

Sample Number	Surrogate Standard	Method	Percent Recovery	Control Limits
180914038-003	2,4,6-Tribromophenol	EPA 8270D	83.6	43-120
	2-Fluorobiphenyl	EPA 8270D	82.8	55-127
	2-Fluorophenol	EPA 8270D	81.2	41-119
	Nitrobenzene-d5	EPA 8270D	86.0	55-120
	Phenol-d5	EPA 8270D	86.8	52-115
	Terphenyl-d14	EPA 8270D	94.8	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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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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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 180914038
Project Name: SVL #X8I0345

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	4.93	ug/L	5	98.6	51-149	9/17/2018	9/19/2018

Lab Control Sample Duplicate

Parameter	LCSD Result	Units	LCSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
bis(2-Ethylhexyl)phthalate	4.46	ug/L	5	89.2	10.0	0-43	9/17/2018	9/19/2018

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
bis(2-Ethylhexyl)phthalate	ND	ug/L	0.5	9/17/2018	9/19/2018

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
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

Anatek Labs, Inc.

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com
504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Login Report

Customer Name: SPOKANE COUNTY UTILITIES

Order ID: 180914038

22515 N. ELK CHATTAROY ROAD

Order Date: 9/14/2018

COLBERT WA 99005

Contact Name: SVL ANALYTICAL, INC.

Project Name: SVL #X8I0345

Comment:

Sample #: 180914038-001 **Customer Sample #:** GWDW-002-180911

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 9/11/2018
Quantity: 3 **Date Received:** 9/13/2018 11:15:00 AM **Time Collected:** 9:01 AM
Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	9/25/2018	<u>Normal (~10 Days)</u>

Sample #: 180914038-002 **Customer Sample #:** GWDW-003-180911

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 9/11/2018
Quantity: 3 **Date Received:** 9/13/2018 11:15:00 AM **Time Collected:** 10:29 AM
Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	9/25/2018	<u>Normal (~10 Days)</u>

Sample #: 180914038-003 **Customer Sample #:** GWMS-004-180911

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 9/11/2018
Quantity: 4 **Date Received:** 9/13/2018 11:15:00 AM **Time Collected:** 12:55 PM
Comment:

Test	Lab	Method	Due Date	Priority
SVOC 8270D MOSC	M	EPA 8270D	9/25/2018	<u>Normal (~10 Days)</u>
VOC 8260 MOSC	M	EPA 8260C	9/25/2018	<u>Normal (~10 Days)</u>

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

Order ID: 180914038
Order Date: 9/14/2018

Contact Name: SVL ANALYTICAL, INC.

Project Name: SVL #X8I0345

Comment:

Sample #: 180914038-004 **Customer Sample #:** GWMS-005-180911

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 9/11/2018
Quantity: 3 **Date Received:** 9/13/2018 11:15:00 AM **Time Collected:** 1:00 PM
Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	9/25/2018	<u>Normal (~10 Days)</u>

Sample #: 180914038-005 **Customer Sample #:** GWMW-009-180911

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 9/11/2018
Quantity: 3 **Date Received:** 9/13/2018 11:15:00 AM **Time Collected:** 10:11 AM
Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	9/25/2018	<u>Normal (~10 Days)</u>

Sample #: 180914038-005A **Customer Sample #:** GWMW-009-180911A

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 9/11/2018
Quantity: 3 **Date Received:** 9/13/2018 11:15:00 AM **Time Collected:** 10:11 AM
Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	9/25/2018	<u>Normal (~10 Days)</u>

Sample #: 180914038-005B **Customer Sample #:** GWMW-009-180911B

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 9/11/2018
Quantity: 3 **Date Received:** 9/13/2018 11:15:00 AM **Time Collected:** 10:11 AM
Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	9/25/2018	<u>Normal (~10 Days)</u>

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

Order ID: 180914038
Order Date: 9/14/2018

Contact Name: SVL ANALYTICAL, INC.

Project Name: SVL #X8I0345

Comment:

Sample #: 180914038-006 **Customer Sample #:** GWMW-010-180911

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 9/11/2018

Quantity: 3 **Date Received:** 9/13/2018 11:15:00 AM **Time Collected:** 9:19 AM

Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	9/25/2018	<u>Normal (~10 Days)</u>

Sample #: 180914038-007 **Customer Sample #:** GWMW-013-180911

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 9/11/2018

Quantity: 3 **Date Received:** 9/13/2018 11:15:00 AM **Time Collected:** 11:00 AM

Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	9/25/2018	<u>Normal (~10 Days)</u>

Sample #: 180914038-008 **Customer Sample #:** GWMW-014-180911

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 9/11/2018

Quantity: 3 **Date Received:** 9/13/2018 11:15:00 AM **Time Collected:** 9:30 AM

Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	9/25/2018	<u>Normal (~10 Days)</u>

Sample #: 180914038-009 **Customer Sample #:** GWMW-019R-180911

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 9/11/2018

Quantity: 3 **Date Received:** 9/13/2018 11:15:00 AM **Time Collected:** 1:21 PM

Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	9/25/2018	<u>Normal (~10 Days)</u>

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

Order ID: 180914038
Order Date: 9/14/2018

Contact Name: SVL ANALYTICAL, INC.

Project Name: SVL #X8I0345

Comment:

Sample #: 180914038-010 **Customer Sample #:** GWMW-029-180911

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 9/11/2018

Quantity: 3 **Date Received:** 9/13/2018 11:15:00 AM **Time Collected:** 11:59 AM

Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	9/25/2018	<u>Normal (~10 Days)</u>

Sample #: 180914038-011 **Customer Sample #:** MWS-1-1-180911

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 9/11/2018

Quantity: 3 **Date Received:** 9/13/2018 11:15:00 AM **Time Collected:** 10:13 AM

Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	9/25/2018	<u>Normal (~10 Days)</u>

Sample #: 180914038-012 **Customer Sample #:** GWMW-016-180912

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 9/12/2018

Quantity: 3 **Date Received:** 9/13/2018 11:15:00 AM **Time Collected:** 8:41 AM

Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	9/25/2018	<u>Normal (~10 Days)</u>

Sample #: 180914038-013 **Customer Sample #:** GWMW-020-180912

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 9/12/2018

Quantity: 3 **Date Received:** 9/13/2018 11:15:00 AM **Time Collected:** 9:17 AM

Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	9/25/2018	<u>Normal (~10 Days)</u>

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

Order ID: 180914038
Order Date: 9/14/2018

Contact Name: SVL ANALYTICAL, INC.

Project Name: SVL #X8I0345

Comment:

Sample #: 180914038-014 **Customer Sample #:** GWMW-023-180912

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 9/12/2018

Quantity: 3 **Date Received:** 9/13/2018 11:15:00 AM **Time Collected:** 9:15 AM

Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	9/25/2018	<u>Normal (~10 Days)</u>

Sample #: 180914038-015 **Customer Sample #:** MWS-1-2-180912

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 9/12/2018

Quantity: 3 **Date Received:** 9/13/2018 11:15:00 AM **Time Collected:** 9:30 AM

Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	9/25/2018	<u>Normal (~10 Days)</u>

Sample #: 180914038-016 **Customer Sample #:** MWS-2-1-180912

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 9/12/2018

Quantity: 2 **Date Received:** 9/13/2018 11:15:00 AM **Time Collected:**

Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	9/25/2018	<u>Normal (~10 Days)</u>

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

Order ID: 180914038
Order Date: 9/14/2018

Contact Name: SVL ANALYTICAL, INC.

Project Name: SVL #X8I0345

Comment:

SAMPLE CONDITION RECORD

Samples received in a cooler?	Yes
Samples received intact?	Yes
What is the temperature of the sample(s)? (°C)	2.3
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?	54

180914	038	SCOU	Last Due	9/25/2018
1st SAMP	9/11/2018	1st RCVD		9/13/2018

SHIPPING CO: UPS
SHIPPING # K2645909871
OF COOLERS: 1
DATE: 4-12-2011
PAGE 1 OF 2

PARAMETERS:		VOLATILES		SEMI VOLATILES		SAMPLERS:										
METHOD:	BOTTLES:	LAB:	PRESERVATION:	DATE	TIME	HCl pH<2	UNPRESERVED	BEHP	8270C	3-40 ml. VOAS	1 LITER AMBER GLASS	ANATEK LAB	ANATEK LAB	NUMBER OF BOTTLES	COOLER NUMBER	COMMENTS
RELINQUISHED BY: <u>Mike S. Terris</u> DATE: <u>9-12-18</u>																
SIGNATURE: <u>Mike S. Terris</u> PRINT NAME: <u>MIKE S. TERRIS</u> TIME: <u>1400</u>																
COMPANY: <u>SPOKANE COUNTY UTILITIES LANDFILL CLOSURE</u>																
COMMENTS: Please e-mail a sample condition report to Austin and Mike ASAP; astewart@spokanecounty.org & mterriss@spokane.gov																
ANATEK LABS RECEIVING LIST																
RECEIVED INTACT ☒ LABELS & CHAINS AGREE ☒ NO HEADSPACE ☒ ICE / ICE-PACKS PRESENT ☒ CUSTODY SEALS PRESENT ☒																
TEMP: <u>23</u> °C THERM # <u>3</u>																

ANATEK LABS RECEIVING LIST

☒	RECEIVED INTACT	TEMP: 23 °C
☒	LABELS & CHAINS AGREE	
☒	NO HEADSPACE	TERM # 3
☒	ICE / ICE-PACKS PRESENT	
☒	CUSTODY SEALS PRESENT	
PRESERVATIVES: HCL		
NUMBER OF CONTAINERS: 52 + 218		
SHIPPED VIA: UPS		
DATE & TIME: 9/12/18 11:15	INSPECTED BY: MM	

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

180914 038 **SCOU** Last Due **9/25/2018**
1st SAMP 9/11/2018 1st RCVD 9/13/2018
SVL #X810345

LABORATORY:
ANATEK LAB-MOSCOW
1282 ALTURAS DR
MOSCOW, IDAHO 83843
(208) 883-2839
CLIENT:
SPOKANE COUNTY UTILITIES
22515 N. ELK CHATTAROY RD.
COLBERT, WASHINGTON 99005
(509) 238-6607 FAX (509) 238-6812
MICA (509) 924-5223
ATTENTION: JOHN CODDINGTON

SHIPPING CO: UPS
SHIPPING # KA645909871 **DATE:** 7/11/2018
OF COOLERS: 1 **PAGE** 2 **OF** 2

PARAMETERS:	DATE	TIME	VOLATILES		SEMI VOLATILES		SAMPLERS:	NUMBER OF BOTTLES	COOLER NUMBER	COMMENTS
			8260B	8270C	BEHP	8270C				
METHOD:							G. FISSETTE K. McCLARTY M. TERRIS	3	#14	TRIP-BANKS
BOTTLES:			3-40 ml.		1 LITER					
LAB:			VOA'S		AMBER GLASS					
PRESERVATION:			ANATEK LAB		ANATEK LAB					
SAMPLE IDENTIFICATION			HCl pH<2		UNPRESERVED					
GW/MW-016-180912	9-12-18	0841								
GW/MW-020-180912		0917								
GW/MW-023-180912		0915								
MWS-1-2-180912		0930								
MWS-2-1-180912										

(Note: The first four rows of the table are crossed out with a large blue X.)

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

RELINQUISHED BY: *Mike S. Terris* **DATE:** 9-12-18
SIGNATURE: *Mike S. Terris* **PRINT NAME:** MIKE S. TERRIS **TIME:** 1400
COMPANY: SPOKANE COUNTY UTILITIES LANDFILL CLOSURE

RECEIVED BY: *MM* **DATE:** *MM*
SIGNATURE: *MM* **PRINT NAME:** *MM* **TIME:** *MM*
COMPANY: *MM*

APPENDIX B DATA SUMMARY ANALYSIS

StationID	Analyte	Count	Average	Min	Max	StDev	N Detects	N Non-Detects	N Exceedences
DW-001	1,2-Dichloroethane	94	0.000	0.000	0.000	0.000	0	94	0
DW-001	1,2-Dichloropropane	94	0.000	0.000	0.000	0.000	0	94	0
DW-001	Acetone	94	0.000	0.000	0.000	0.000	0	94	0
DW-001	Alkalinity	94	149.574	130.000	189.000	9.907	94	0	0
DW-001	Ammonia	93	0.011	0.000	0.270	0.036	18	75	0
DW-001	Arsenic	94	0.001	0.000	0.004	0.001	34	60	0
DW-001	Barium	94	0.009	0.000	0.043	0.006	90	4	0
DW-001	Benzene	94	0.000	0.000	0.000	0.000	0	94	0
DW-001	bis(2-Ethylhexyl)Phthalate	50	1.821	0.000	17.000	4.489	12	38	6
DW-001	Chloride	94	2.257	0.000	17.000	2.210	92	2	0
DW-001	cis-1,2-dichloroethene	91	0.000	0.000	0.000	0.000	0	91	0
DW-001	Ethylbenzene	85	0.000	0.000	0.000	0.000	0	85	0
DW-001	Lead	94	0.001	0.000	0.034	0.004	20	74	0
DW-001	m,p-Xylene	55	0.000	0.000	0.000	0.000	0	55	0
DW-001	Manganese	94	0.013	0.000	0.068	0.012	82	12	0
DW-001	Mercury	92	0.000	0.000	0.000	0.000	0	92	0
DW-001	Methylene Chloride	94	0.000	0.000	0.000	0.000	0	94	0
DW-001	N-Nitrate	94	0.058	0.000	0.496	0.074	66	28	0
DW-001	o-Xylene	82	0.000	0.000	0.000	0.000	0	82	0
DW-001	Sulfate	63	8.485	0.000	11.800	1.655	62	1	0
DW-001	Tetrachloroethene	94	0.000	0.000	0.000	0.000	0	94	0
DW-001	Toluene	94	0.000	0.000	0.000	0.000	0	94	0
DW-001	Total Dissolved Solids	2	189.000	188.000	190.000	1.414	2	0	0
DW-001	Total Organic Carbon	92	0.550	0.000	6.100	1.119	27	65	0
DW-001	Trichloroethene	94	0.000	0.000	0.000	0.000	0	94	0
DW-001	Vanadium	92	0.000	0.000	0.000	0.000	0	92	0
DW-001	Vinyl Chloride	94	0.000	0.000	0.000	0.000	0	94	0
DW-001	Xylene	30	0.000	0.000	0.000	0.000	0	30	0
DW-001	Zinc	97	0.841	0.081	7.180	1.093	97	0	0
DW-002	1,2-Dichloroethane	95	0.000	0.000	0.000	0.000	0	95	0
DW-002	1,2-Dichloropropane	95	0.000	0.000	0.000	0.000	0	95	0
DW-002	Acetone	95	0.000	0.000	0.000	0.000	0	95	0
DW-002	Alkalinity	110	154.855	144.000	180.000	5.876	110	0	0
DW-002	Ammonia	99	0.009	0.000	0.280	0.031	19	80	0
DW-002	Arsenic	95	0.000	0.000	0.000	0.000	0	95	0
DW-002	Barium	122	0.036	0.000	0.044	0.005	121	1	0
DW-002	Benzene	95	0.000	0.000	0.000	0.000	0	95	0
DW-002	bis(2-Ethylhexyl)Phthalate	32	0.103	0.000	1.700	0.405	2	30	0
DW-002	Chloride	112	9.744	5.300	14.600	1.934	112	0	0
DW-002	cis-1,2-dichloroethene	92	0.000	0.000	0.000	0.000	0	92	0
DW-002	Ethylbenzene	86	0.000	0.000	0.000	0.000	0	86	0
DW-002	Lead	96	0.000	0.000	0.023	0.003	4	92	0
DW-002	m,p-Xylene	57	0.003	0.000	0.150	0.020	1	56	0
DW-002	Manganese	102	0.003	0.000	0.033	0.006	49	53	0
DW-002	Mercury	95	0.000	0.000	0.000	0.000	0	95	0
DW-002	Methylene Chloride	96	0.001	0.000	0.120	0.012	1	95	0
DW-002	N-Nitrate	112	1.359	0.850	2.320	0.245	112	0	0
DW-002	o-Xylene	83	0.000	0.000	0.000	0.000	0	83	0
DW-002	Sulfate	87	5.582	0.000	8.100	0.855	86	1	0

DW-002	Tetrachloroethene	95	0.000	0.000	0.000	0.000	0	95	0
DW-002	Toluene	95	0.006	0.000	0.590	0.061	1	94	0
DW-002	Total Dissolved Solids	4	211.000	200.000	220.000	8.406	4	0	0
DW-002	Total Organic Carbon	105	0.603	0.000	13.100	1.458	38	67	0
DW-002	Trichloroethene	95	0.000	0.000	0.000	0.000	0	95	0
DW-002	Vanadium	95	0.000	0.000	0.005	0.001	1	94	0
DW-002	Vinyl Chloride	95	0.000	0.000	0.000	0.000	0	95	0
DW-002	Xylene	30	0.000	0.000	0.000	0.000	0	30	0
DW-002	Zinc	111	0.077	0.000	1.050	0.176	72	39	0
DW-003	1,2-Dichloroethane	97	0.000	0.000	0.000	0.000	0	97	0
DW-003	1,2-Dichloropropane	97	0.000	0.000	0.000	0.000	0	97	0
DW-003	Acetone	97	0.000	0.000	0.000	0.000	0	97	0
DW-003	Alkalinity	101	184.891	170.000	207.000	6.253	101	0	0
DW-003	Ammonia	97	0.027	0.000	1.940	0.197	21	76	0
DW-003	Arsenic	94	0.000	0.000	0.000	0.000	0	94	0
DW-003	Barium	102	0.028	0.000	0.032	0.003	101	1	0
DW-003	Benzene	97	0.000	0.000	0.000	0.000	0	97	0
DW-003	bis(2-Ethylhexyl)Phthalate	32	0.369	0.000	8.200	1.510	3	29	1
DW-003	Chloride	100	1.016	0.000	22.000	2.207	85	15	0
DW-003	cis-1,2-dichloroethene	94	0.000	0.000	0.000	0.000	0	94	0
DW-003	Ethylbenzene	88	0.000	0.000	0.000	0.000	0	88	0
DW-003	Lead	95	0.001	0.000	0.007	0.001	32	63	0
DW-003	m,p-Xylene	57	0.000	0.000	0.000	0.000	0	57	0
DW-003	Manganese	96	0.000	0.000	0.002	0.000	6	90	0
DW-003	Mercury	94	0.000	0.000	0.000	0.000	0	94	0
DW-003	Methylene Chloride	97	0.003	0.000	0.300	0.030	1	96	0
DW-003	N-Nitrate	101	0.898	0.000	7.400	1.120	100	1	0
DW-003	o-Xylene	85	0.000	0.000	0.000	0.000	0	85	0
DW-003	Sulfate	71	0.725	0.000	1.910	0.494	65	6	0
DW-003	Tetrachloroethene	97	0.000	0.000	0.000	0.000	0	97	0
DW-003	Toluene	97	0.000	0.000	0.000	0.000	0	97	0
DW-003	Total Dissolved Solids	3	210.000	200.000	220.000	10.000	3	0	0
DW-003	Total Organic Carbon	95	0.244	0.000	3.300	0.645	15	80	0
DW-003	Trichloroethene	97	0.000	0.000	0.000	0.000	0	97	0
DW-003	Vanadium	94	0.000	0.000	0.002	0.000	2	92	0
DW-003	Vinyl Chloride	97	0.000	0.000	0.000	0.000	0	97	0
DW-003	Xylene	31	0.000	0.000	0.000	0.000	0	31	0
DW-003	Zinc	104	0.246	0.043	0.774	0.127	104	0	0
LS-AB	Arsenic	4	0.000	0.000	0.000	0.000	0	4	0
LS-AB	Benzene	4	0.000	0.000	0.000	0.000	0	4	0
LS-AB	bis(2-Ethylhexyl)Phthalate	1	0.000	0.000	0.000		0	1	0
LS-AB	Cadmium	4	0.000	0.000	0.000	0.000	0	4	0
LS-AB	Copper	4	0.000	0.000	0.000	0.000	0	4	0
LS-AB	Ethylbenzene	4	0.000	0.000	0.000	0.000	0	4	0
LS-AB	Lead	4	0.000	0.000	0.000	0.000	0	4	0
LS-AB	m,p-Xylene	4	0.000	0.000	0.000	0.000	0	4	0
LS-AB	Mercury	4	0.000	0.000	0.000	0.000	0	4	0
LS-AB	Nickel	4	0.000	0.000	0.000	0.000	0	4	0
LS-AB	o-Xylene	4	0.000	0.000	0.000	0.000	0	4	0
LS-AB	Silver	4	0.000	0.000	0.000	0.000	0	4	0
LS-AB	Toluene	4	0.280	0.000	1.120	0.560	1	3	0

LS-AB	total cyanide	3	0.000	0.000	0.000	0.000	0	3	0
LS-AB	total oil & grease	1	0.000	0.000	0.000		0	1	0
LS-AB	Zinc	4	0.000	0.000	0.000	0.000	0	4	0
LS-GL	1,2-Dichloroethane	20	0.852	0.000	2.300	0.747	13	7	8
LS-GL	1,2-Dichloropropane	19	0.275	0.000	0.600	0.229	12	7	0
LS-GL	Acetone	26	14.203	0.000	53.000	15.255	22	4	0
LS-GL	Ammonia	1	2.700	2.700	2.700		1	0	0
LS-GL	Arsenic	37	0.001	0.000	0.005	0.001	15	22	0
LS-GL	Benzene	43	0.312	0.000	10.700	1.628	10	33	1
LS-GL	bis(2-Ethylhexyl)Phthalate	14	0.507	0.000	4.500	1.247	3	11	0
LS-GL	Cadmium	33	0.028	0.000	0.931	0.162	1	32	0
LS-GL	Chloride	1	43.000	43.000	43.000		1	0	0
LS-GL	cis-1,2-dichloroethene	23	1.270	0.000	3.600	1.101	16	7	0
LS-GL	Copper	33	0.029	0.000	0.948	0.165	1	32	0
LS-GL	Ethylbenzene	45	0.424	0.000	3.000	0.729	16	29	0
LS-GL	Lead	35	0.027	0.000	0.924	0.156	5	30	0
LS-GL	m,p-Xylene	26	0.307	0.000	4.520	1.093	2	24	0
LS-GL	Manganese	2	0.822	0.819	0.824	0.004	2	0	0
LS-GL	Mercury	32	0.000	0.000	0.000	0.000	0	32	0
LS-GL	Methylene Chloride	23	5.603	0.000	17.000	5.320	16	7	13
LS-GL	Nickel	33	0.027	0.000	0.900	0.157	2	31	2
LS-GL	o-Xylene	43	0.749	0.000	4.200	1.146	17	26	0
LS-GL	Silver	35	0.003	0.000	0.050	0.010	4	31	0
LS-GL	Tetrachloroethene	20	0.970	0.000	2.700	0.829	13	7	13
LS-GL	Toluene	58	1.991	0.000	14.000	2.889	37	21	0
LS-GL	total cyanide	27	0.000	0.000	0.000	0.000	0	27	0
LS-GL	Total Dissolved Solids	1	350.000	350.000	350.000		1	0	0
LS-GL	total oil & grease	20	0.795	0.000	3.600	1.187	7	13	0
LS-GL	Total Organic Carbon	1	6.900	6.900	6.900		1	0	0
LS-GL	Trichloroethene	19	0.471	0.000	1.200	0.418	12	7	0
LS-GL	Vinyl Chloride	20	1.002	0.000	3.800	1.107	13	7	13
LS-GL	Xylene	21	2.827	0.000	9.700	2.743	16	5	0
LS-GL	Zinc	38	0.030	0.000	0.915	0.148	14	24	0
LS-LSW	Ammonia	11	0.178	0.000	0.640	0.192	8	3	0
LS-LSW	Chloride	11	109.000	18.000	500.000	141.587	11	0	0
LS-LSW	Manganese	11	0.599	0.043	1.690	0.584	11	0	0
LS-LSW	Total Dissolved Solids	11	420.909	64.000	1300.000	369.535	11	0	0
LS-LSW	Total Organic Carbon	11	11.309	0.000	66.000	18.442	10	1	0
LS-NW	Ammonia	15	0.578	0.023	4.200	1.090	15	0	0
LS-NW	Chloride	15	24.253	3.500	120.000	29.587	15	0	0
LS-NW	Manganese	15	1.618	0.491	3.850	0.975	15	0	0
LS-NW	Total Dissolved Solids	15	329.000	280.000	450.000	43.103	15	0	0
LS-NW	Total Organic Carbon	15	7.280	0.000	12.000	3.181	14	1	0
LS-SE	Ammonia	24	8.400	0.044	60.000	15.603	24	0	0
LS-SE	Chloride	24	69.075	2.700	590.000	116.569	24	0	0
LS-SE	Manganese	26	2.152	0.068	6.690	1.845	26	0	0
LS-SE	Total Dissolved Solids	23	631.435	0.000	4000.000	795.224	22	1	0
LS-SE	Total Organic Carbon	24	98.283	3.100	1200.000	240.965	24	0	0
LS-SET	1,2-Dichloroethane	4	0.050	0.000	0.200	0.100	1	3	0
LS-SET	1,2-Dichloropropane	4	0.150	0.000	0.600	0.300	1	3	0
LS-SET	Acetone	4	363.500	14.000	800.000	324.893	4	0	1
LS-SET	Arsenic	4	0.003	0.002	0.004	0.001	4	0	0

LS-SET	Benzene	4	0.175	0.000	0.700	0.350	1	3	0
LS-SET	bis(2-Ethylhexyl)Phthalate	4	0.000	0.000	0.000	0.000	0	4	0
LS-SET	Cadmium	4	0.000	0.000	0.000	0.000	0	4	0
LS-SET	cis-1,2-dichloroethene	4	1.625	0.000	3.200	1.609	3	1	0
LS-SET	Copper	4	0.003	0.002	0.006	0.002	4	0	0
LS-SET	Ethylbenzene	4	2.450	0.000	5.200	2.588	3	1	0
LS-SET	Lead	4	0.000	0.000	0.000	0.000	0	4	0
LS-SET	Mercury	4	0.000	0.000	0.000	0.000	0	4	0
LS-SET	Methylene Chloride	4	15.175	0.000	36.000	16.992	3	1	2
LS-SET	Nickel	4	0.003	0.000	0.010	0.005	1	3	1
LS-SET	o-Xylene	4	2.475	0.000	4.800	2.526	3	1	0
LS-SET	Silver	4	0.000	0.000	0.000	0.000	0	4	0
LS-SET	Tetrachloroethene	4	0.350	0.000	1.400	0.700	1	3	1
LS-SET	Toluene	4	8.600	0.000	16.000	8.098	3	1	0
LS-SET	total cyanide	4	0.000	0.000	0.000	0.000	0	4	0
LS-SET	total oil & grease	4	3.425	1.900	5.100	1.315	4	0	0
LS-SET	Trichloroethene	4	0.450	0.000	1.600	0.772	2	2	0
LS-SET	Vinyl Chloride	4	0.125	0.000	0.500	0.250	1	3	1
LS-SET	Xylene	4	6.375	0.000	13.000	6.575	3	1	0
LS-SET	Zinc	4	0.018	0.000	0.027	0.013	3	1	0
LS-TT	1,2-Dichloroethane	7	1.586	0.000	4.200	1.966	4	3	3
LS-TT	1,2-Dichloropropane	6	0.183	0.000	0.700	0.299	2	4	1
LS-TT	Acetone	10	26.930	0.000	120.000	44.389	9	1	0
LS-TT	Alkalinity	1	140.000	140.000	140.000		1	0	0
LS-TT	Ammonia	2	2.100	0.000	4.200	2.970	1	1	0
LS-TT	Arsenic	8	0.011	0.000	0.040	0.017	7	1	0
LS-TT	Barium	1	0.006	0.006	0.006		1	0	0
LS-TT	Benzene	8	0.075	0.000	0.400	0.149	2	6	0
LS-TT	bis(2-Ethylhexyl)Phthalate	6	0.200	0.000	1.200	0.490	1	5	0
LS-TT	Cadmium	6	0.000	0.000	0.000	0.000	0	6	0
LS-TT	Chloride	2	38.100	1.600	74.600	51.619	2	0	0
LS-TT	cis-1,2-dichloroethene	7	0.800	0.000	2.300	1.021	3	4	0
LS-TT	Copper	8	0.011	0.003	0.026	0.009	8	0	0
LS-TT	Ethylbenzene	8	0.313	0.000	1.000	0.439	3	5	0
LS-TT	Lead	9	0.001	0.000	0.002	0.001	4	5	0
LS-TT	m,p-Xylene	1	0.000	0.000	0.000		0	1	0
LS-TT	Manganese	2	0.682	0.013	1.350	0.945	2	0	0
LS-TT	Mercury	7	0.000	0.000	0.000	0.000	0	7	0
LS-TT	Methylene Chloride	6	9.217	0.000	44.000	17.592	3	3	2
LS-TT	Nickel	7	0.003	0.000	0.011	0.005	2	5	2
LS-TT	N-Nitrate	1	0.018	0.018	0.018		1	0	0
LS-TT	o-Xylene	8	0.475	0.000	1.300	0.607	4	4	0
LS-TT	Silver	6	0.000	0.000	0.000	0.000	0	6	0
LS-TT	Tetrachloroethene	7	0.543	0.000	1.600	0.700	3	4	3
LS-TT	Toluene	10	2.166	0.000	4.600	1.983	6	4	0
LS-TT	total cyanide	7	0.002	0.000	0.009	0.004	2	5	2
LS-TT	Total Dissolved Solids	1	456.000	456.000	456.000		1	0	0
LS-TT	total oil & grease	9	2.533	0.000	6.900	2.224	8	1	0
LS-TT	Total Organic Carbon	2	6.050	0.000	12.100	8.556	1	1	0
LS-TT	Trichloroethene	7	0.414	0.000	1.400	0.561	3	4	0
LS-TT	Vanadium	1	0.000	0.000	0.000		0	1	0

LS-TT	Vinyl Chloride	7	0.457	0.000	1.300	0.600	3	4	3
LS-TT	Xylene	8	1.013	0.000	2.800	1.180	5	3	0
LS-TT	Zinc	11	0.136	0.000	1.030	0.298	10	1	0
LS-USW	Ammonia	15	12.556	0.014	130.000	32.608	15	0	0
LS-USW	Chloride	15	282.407	6.800	2600.000	650.002	15	0	0
LS-USW	Manganese	15	0.656	0.022	2.180	0.622	15	0	0
LS-USW	Total Dissolved Solids	15	747.200	210.000	4700.000	1107.255	15	0	0
LS-USW	Total Organic Carbon	15	14.667	4.900	64.000	14.368	15	0	0
MS-004	1,2-Dichloroethane	95	0.000	0.000	0.000	0.000	0	95	0
MS-004	1,2-Dichloropropane	95	0.000	0.000	0.000	0.000	0	95	0
MS-004	Acetone	95	0.000	0.000	0.000	0.000	0	95	0
MS-004	Alkalinity	64	73.931	47.000	120.000	13.159	64	0	0
MS-004	Ammonia	94	0.011	0.000	0.333	0.038	18	76	0
MS-004	Arsenic	94	0.000	0.000	0.006	0.001	3	91	0
MS-004	Barium	94	0.047	0.000	0.075	0.009	93	1	0
MS-004	Benzene	95	0.000	0.000	0.000	0.000	0	95	0
MS-004	bis(2-Ethylhexyl)Phthalate	45	1.148	0.000	11.100	2.237	15	30	2
MS-004	Chloride	63	1.013	0.000	23.000	3.051	43	20	0
MS-004	cis-1,2-dichloroethene	92	0.000	0.000	0.000	0.000	0	92	0
MS-004	Ethylbenzene	86	0.000	0.000	0.000	0.000	0	86	0
MS-004	Lead	94	0.001	0.000	0.028	0.004	12	82	0
MS-004	m,p-Xylene	56	0.000	0.000	0.000	0.000	0	56	0
MS-004	Manganese	94	0.021	0.000	0.234	0.038	74	20	0
MS-004	Mercury	94	0.000	0.000	0.001	0.000	1	93	0
MS-004	Methylene Chloride	95	0.000	0.000	0.000	0.000	0	95	0
MS-004	N-Nitrate	64	4.286	0.911	6.450	1.695	64	0	0
MS-004	o-Xylene	83	0.000	0.000	0.000	0.000	0	83	0
MS-004	Sulfate	63	10.727	4.100	20.000	2.623	63	0	0
MS-004	Tetrachloroethene	95	0.000	0.000	0.000	0.000	0	95	0
MS-004	Toluene	95	0.000	0.000	0.000	0.000	0	95	0
MS-004	Total Dissolved Solids	62	156.371	78.000	211.000	26.461	62	0	0
MS-004	Total Organic Carbon	94	1.084	0.000	3.700	0.942	64	30	0
MS-004	Trichloroethene	95	0.000	0.000	0.000	0.000	0	95	0
MS-004	Vanadium	94	0.000	0.000	0.004	0.001	5	89	0
MS-004	Vinyl Chloride	95	0.000	0.000	0.000	0.000	0	95	0
MS-004	Xylene	30	0.000	0.000	0.000	0.000	0	30	0
MS-004	Zinc	94	0.005	0.000	0.217	0.024	15	79	0
MS-005	1,2-Dichloroethane	95	0.000	0.000	0.000	0.000	0	95	0
MS-005	1,2-Dichloropropane	96	0.004	0.000	0.200	0.025	3	93	0
MS-005	Acetone	95	0.036	0.000	3.400	0.349	1	94	0
MS-005	Alkalinity	79	141.696	100.000	176.000	21.447	79	0	0
MS-005	Ammonia	109	0.012	0.000	0.526	0.053	23	86	0
MS-005	Arsenic	96	0.000	0.000	0.001	0.000	2	94	0
MS-005	Barium	118	0.089	0.044	0.121	0.019	118	0	0
MS-005	Benzene	95	0.000	0.000	0.000	0.000	0	95	0
MS-005	bis(2-Ethylhexyl)Phthalate	38	0.436	0.000	7.300	1.451	5	33	1
MS-005	Chloride	85	46.886	3.000	86.500	21.077	85	0	0
MS-005	cis-1,2-dichloroethene	94	0.138	0.000	0.600	0.205	31	63	0
MS-005	Ethylbenzene	86	0.000	0.000	0.000	0.000	0	86	0
MS-005	Lead	96	0.000	0.000	0.000	0.000	0	96	0
MS-005	m,p-Xylene	56	0.000	0.000	0.000	0.000	0	56	0

MS-005	Manganese	106	0.001	0.000	0.023	0.004	25	81	0
MS-005	Mercury	96	0.000	0.000	0.000	0.000	0	96	0
MS-005	Methylene Chloride	100	0.283	0.000	1.400	0.439	34	66	0
MS-005	N-Nitrate	79	5.593	0.850	17.100	3.495	79	0	0
MS-005	o-Xylene	83	0.000	0.000	0.000	0.000	0	83	0
MS-005	Sulfate	76	29.230	9.800	61.100	13.938	76	0	0
MS-005	Tetrachloroethene	99	0.179	0.000	0.900	0.249	39	60	1
MS-005	Toluene	95	0.000	0.000	0.000	0.000	0	95	0
MS-005	Total Dissolved Solids	82	386.024	202.000	1000.000	102.087	82	0	0
MS-005	Total Organic Carbon	124	1.824	0.000	12.200	1.512	103	21	0
MS-005	Trichloroethene	99	0.450	0.000	1.600	0.530	46	53	0
MS-005	Vanadium	98	0.000	0.000	0.004	0.001	16	82	0
MS-005	Vinyl Chloride	95	0.000	0.000	0.000	0.000	0	95	0
MS-005	Xylene	30	0.000	0.000	0.000	0.000	0	30	0
MS-005	Zinc	96	0.003	0.000	0.153	0.016	13	83	0
MS-007	1,2-Dichloroethane	1	0.000	0.000	0.000		0	1	0
MS-007	1,2-Dichloropropane	1	0.000	0.000	0.000		0	1	0
MS-007	Acetone	1	0.000	0.000	0.000		0	1	0
MS-007	Alkalinity	31	379.774	265.000	1200.000	164.789	31	0	0
MS-007	Ammonia	37	1.231	0.500	1.800	0.369	37	0	0
MS-007	Arsenic	31	0.024	0.000	0.039	0.007	30	1	0
MS-007	Barium	31	0.139	0.111	0.208	0.023	31	0	0
MS-007	Benzene	1	0.000	0.000	0.000		0	1	0
MS-007	Chloride	37	10.432	3.200	21.000	5.270	37	0	0
MS-007	Ethylbenzene	1	0.000	0.000	0.000		0	1	0
MS-007	Lead	1	0.000	0.000	0.000		0	1	0
MS-007	Manganese	37	7.725	6.200	10.700	1.045	37	0	0
MS-007	Mercury	1	0.000	0.000	0.000		0	1	0
MS-007	Methylene Chloride	1	0.000	0.000	0.000		0	1	0
MS-007	Sulfate	31	2.195	0.000	7.500	2.543	17	14	0
MS-007	Tetrachloroethene	1	0.000	0.000	0.000		0	1	0
MS-007	Toluene	1	0.000	0.000	0.000		0	1	0
MS-007	Total Dissolved Solids	31	388.548	280.000	616.000	71.269	31	0	0
MS-007	Total Organic Carbon	37	8.504	0.000	24.300	3.970	35	2	0
MS-007	Trichloroethene	1	0.000	0.000	0.000		0	1	0
MS-007	Vanadium	2	0.000	0.000	0.000	0.000	0	2	0
MS-007	Vinyl Chloride	1	0.000	0.000	0.000		0	1	0
MS-007	Xylene	1	0.000	0.000	0.000		0	1	0
MS-007	Zinc	31	0.003	0.000	0.018	0.005	9	22	0
MW-009	1,2-Dichloroethane	95	0.021	0.000	2.000	0.205	1	94	1
MW-009	1,2-Dichloropropane	95	0.000	0.000	0.000	0.000	0	95	0
MW-009	Acetone	95	0.000	0.000	0.000	0.000	0	95	0
MW-009	Alkalinity	75	271.533	193.000	440.000	50.269	75	0	0
MW-009	Ammonia	100	0.014	0.000	0.640	0.065	25	75	0
MW-009	Arsenic	95	0.000	0.000	0.002	0.000	2	93	0
MW-009	Barium	117	0.120	0.079	0.195	0.027	117	0	0
MW-009	Benzene	95	0.022	0.000	2.100	0.215	1	94	1
MW-009	bis(2-Ethylhexyl)Phthalate	35	0.024	0.000	0.850	0.144	1	34	0
MW-009	Chloride	83	55.511	14.000	160.000	41.243	83	0	0
MW-009	cis-1,2-dichloroethene	92	0.086	0.000	2.600	0.300	17	75	0
MW-009	Ethylbenzene	86	0.022	0.000	1.900	0.205	1	85	0
MW-009	Lead	94	0.000	0.000	0.008	0.001	5	89	0

MW-009	m,p-Xylene	56	0.000	0.000	0.000	0.000	0	56	0
MW-009	Manganese	118	0.759	0.139	1.870	0.391	118	0	0
MW-009	Mercury	95	0.000	0.000	0.000	0.000	4	91	0
MW-009	Methylene Chloride	97	0.015	0.000	1.000	0.107	3	94	0
MW-009	N-Nitrate	75	0.074	0.000	0.920	0.164	40	35	0
MW-009	o-Xylene	83	0.024	0.000	2.000	0.220	1	82	0
MW-009	Sulfate	77	11.689	2.000	35.500	8.401	77	0	0
MW-009	Tetrachloroethene	95	0.000	0.000	0.000	0.000	0	95	0
MW-009	Toluene	95	0.021	0.000	2.000	0.205	1	94	0
MW-009	Total Dissolved Solids	84	397.131	223.000	680.000	126.152	84	0	0
MW-009	Total Organic Carbon	119	4.282	0.000	153.000	13.824	114	5	0
MW-009	Trichloroethene	95	0.030	0.000	2.200	0.229	4	91	0
MW-009	Vanadium	96	0.000	0.000	0.004	0.001	6	90	0
MW-009	Vinyl Chloride	95	0.021	0.000	1.800	0.185	2	93	2
MW-009	Xylene	30	0.000	0.000	0.000	0.000	0	30	0
MW-009	Zinc	99	0.001	0.000	0.021	0.003	9	90	0
MW-010	1,2-Dichloroethane	95	0.000	0.000	0.000	0.000	0	95	0
MW-010	1,2-Dichloropropane	95	0.000	0.000	0.000	0.000	0	95	0
MW-010	Acetone	95	0.029	0.000	2.800	0.287	1	94	0
MW-010	Alkalinity	68	82.541	62.000	93.400	5.169	68	0	0
MW-010	Ammonia	96	0.016	0.000	0.860	0.089	16	80	0
MW-010	Arsenic	93	0.000	0.000	0.000	0.000	0	93	0
MW-010	Barium	99	0.042	0.019	0.048	0.004	99	0	0
MW-010	Benzene	95	0.002	0.000	0.200	0.021	1	94	0
MW-010	bis(2-Ethylhexyl)Phthalate	13	0.000	0.000	0.000	0.000	0	13	0
MW-010	Chloride	65	0.588	0.000	5.800	0.913	44	21	0
MW-010	cis-1,2-dichloroethene	92	0.005	0.000	0.500	0.052	1	91	0
MW-010	Ethylbenzene	86	0.000	0.000	0.000	0.000	0	86	0
MW-010	Lead	95	0.000	0.000	0.002	0.000	2	93	0
MW-010	m,p-Xylene	56	0.000	0.000	0.000	0.000	0	56	0
MW-010	Manganese	93	0.000	0.000	0.003	0.001	6	87	0
MW-010	Mercury	93	0.000	0.000	0.000	0.000	0	93	0
MW-010	Methylene Chloride	95	0.000	0.000	0.000	0.000	0	95	0
MW-010	N-Nitrate	65	0.236	0.028	0.365	0.037	65	0	0
MW-010	o-Xylene	84	0.008	0.000	0.400	0.054	2	82	0
MW-010	Sulfate	64	0.890	0.000	5.200	1.154	43	21	0
MW-010	Tetrachloroethene	95	0.000	0.000	0.000	0.000	0	95	0
MW-010	Toluene	96	0.017	0.000	0.900	0.104	3	93	0
MW-010	Total Dissolved Solids	69	112.638	69.000	160.000	14.042	69	0	0
MW-010	Total Organic Carbon	93	0.142	0.000	2.800	0.522	8	85	0
MW-010	Trichloroethene	95	0.000	0.000	0.000	0.000	0	95	0
MW-010	Vanadium	93	0.000	0.000	0.000	0.000	0	93	0
MW-010	Vinyl Chloride	95	0.000	0.000	0.000	0.000	0	95	0
MW-010	Xylene	31	0.058	0.000	1.000	0.226	2	29	0
MW-010	Zinc	96	0.000	0.000	0.007	0.002	8	88	0
MW-011	1,2-Dichloroethane	1	0.000	0.000	0.000		0	1	0
MW-011	1,2-Dichloropropane	1	0.000	0.000	0.000		0	1	0
MW-011	Acetone	1	7200.000	7200.000	7200.000		1	0	1
MW-011	Alkalinity	28	2184.286	1100.000	4400.000	792.261	28	0	0
MW-011	Ammonia	34	192.076	51.000	480.000	104.940	34	0	0
MW-011	Arsenic	27	0.020	0.000	0.046	0.013	26	1	0
MW-011	Barium	28	2.660	1.140	4.800	1.039	28	0	0

MW-011	Benzene	1	26.000	26.000	26.000		1	0	1
MW-011	Chloride	34	6209.118	620.000	12300.000	2779.120	34	0	0
MW-011	Ethylbenzene	1	52.000	52.000	52.000		1	0	0
MW-011	Lead	1	0.000	0.000	0.000		0	1	0
MW-011	Manganese	34	17.964	1.090	68.000	17.179	34	0	0
MW-011	Mercury	1	0.000	0.000	0.000		0	1	0
MW-011	Methylene Chloride	1	130.000	130.000	130.000		1	0	1
MW-011	Sulfate	27	34.604	0.000	300.000	66.194	22	5	0
MW-011	Tetrachloroethene	1	0.000	0.000	0.000		0	1	0
MW-011	Toluene	1	880.000	880.000	880.000		1	0	1
MW-011	Total Dissolved Solids	28	14513.929	2500.000	26000.000	5852.093	28	0	0
MW-011	Total Organic Carbon	34	1284.176	110.000	6900.000	1499.329	34	0	0
MW-011	Trichloroethene	1	0.000	0.000	0.000		0	1	0
MW-011	Vanadium	1	0.000	0.000	0.000		0	1	0
MW-011	Vinyl Chloride	1	14.000	14.000	14.000		1	0	1
MW-011	Xylene	1	72.000	72.000	72.000		1	0	0
MW-011	Zinc	28	0.273	0.000	6.700	1.261	17	11	0
MW-012	1,2-Dichloroethane	1	0.000	0.000	0.000		0	1	0
MW-012	1,2-Dichloropropane	1	0.000	0.000	0.000		0	1	0
MW-012	Acetone	1	0.000	0.000	0.000		0	1	0
MW-012	Alkalinity	9	140.889	110.000	170.000	25.925	9	0	0
MW-012	Ammonia	9	0.017	0.000	0.084	0.030	3	6	0
MW-012	Arsenic	9	0.000	0.000	0.000	0.000	0	9	0
MW-012	Barium	9	0.039	0.029	0.050	0.007	9	0	0
MW-012	Benzene	1	0.000	0.000	0.000		0	1	0
MW-012	bis(2-Ethylhexyl)Phthalate	1	0.000	0.000	0.000		0	1	0
MW-012	Chloride	9	5.322	4.000	6.800	0.871	9	0	0
MW-012	Ethylbenzene	1	0.000	0.000	0.000		0	1	0
MW-012	Lead	9	0.000	0.000	0.001	0.000	1	8	0
MW-012	Manganese	9	0.005	0.000	0.025	0.008	5	4	0
MW-012	Mercury	9	0.000	0.000	0.000	0.000	0	9	0
MW-012	Methylene Chloride	1	0.000	0.000	0.000		0	1	0
MW-012	N-Nitrate	9	0.707	0.247	1.100	0.242	9	0	0
MW-012	Sulfate	9	10.633	6.300	17.000	3.531	9	0	0
MW-012	Tetrachloroethene	1	0.000	0.000	0.000		0	1	0
MW-012	Toluene	1	0.000	0.000	0.000		0	1	0
MW-012	Total Dissolved Solids	9	256.333	167.000	370.000	58.660	9	0	0
MW-012	Total Organic Carbon	9	3.346	0.000	6.400	1.870	8	1	0
MW-012	Trichloroethene	1	0.000	0.000	0.000		0	1	0
MW-012	Vanadium	9	0.000	0.000	0.003	0.001	1	8	0
MW-012	Vinyl Chloride	1	0.000	0.000	0.000		0	1	0
MW-012	Xylene	1	0.000	0.000	0.000		0	1	0
MW-012	Zinc	9	0.004	0.000	0.016	0.006	4	5	0
MW-013	1,2-Dichloroethane	49	0.000	0.000	0.000	0.000	0	49	0
MW-013	1,2-Dichloropropane	49	0.000	0.000	0.000	0.000	0	49	0
MW-013	Acetone	50	0.408	0.000	8.000	1.487	4	46	0
MW-013	Alkalinity	45	192.613	44.600	228.000	37.087	45	0	0
MW-013	Ammonia	42	0.008	0.000	0.158	0.027	6	36	0
MW-013	Arsenic	42	0.000	0.000	0.007	0.001	3	39	0
MW-013	Barium	44	0.061	0.040	0.141	0.020	44	0	0
MW-013	Benzene	49	0.013	0.000	0.630	0.090	1	48	0

MW-013	bis(2-Ethylhexyl)Phthalate	13	0.000	0.000	0.000	0.000	0	13	0
MW-013	Chloride	43	9.985	1.300	14.000	3.597	43	0	0
MW-013	cis-1,2-dichloroethene	47	0.012	0.000	0.200	0.046	3	44	0
MW-013	Ethylbenzene	44	0.000	0.000	0.000	0.000	0	44	0
MW-013	Lead	42	0.003	0.000	0.039	0.007	8	34	0
MW-013	m,p-Xylene	29	0.000	0.000	0.000	0.000	0	29	0
MW-013	Manganese	42	0.007	0.000	0.061	0.015	15	27	0
MW-013	Mercury	42	0.000	0.000	0.000	0.000	0	42	0
MW-013	Methylene Chloride	49	0.826	0.000	2.600	1.015	21	28	0
MW-013	N-Nitrate	43	2.219	0.197	6.580	1.771	43	0	0
MW-013	o-Xylene	42	0.000	0.000	0.000	0.000	0	42	0
MW-013	Sulfate	43	6.180	0.000	10.400	1.697	42	1	0
MW-013	Tetrachloroethene	50	0.709	0.000	1.600	0.429	40	10	21
MW-013	Toluene	50	0.024	0.000	0.700	0.110	3	47	0
MW-013	Total Dissolved Solids	43	261.907	121.000	327.000	38.612	43	0	0
MW-013	Total Organic Carbon	43	1.346	0.000	4.700	1.065	32	11	0
MW-013	Trichloroethene	49	0.207	0.000	0.700	0.259	21	28	0
MW-013	Vanadium	42	0.000	0.000	0.000	0.000	0	42	0
MW-013	Vinyl Chloride	49	0.000	0.000	0.000	0.000	0	49	0
MW-013	Xylene	15	0.000	0.000	0.000	0.000	0	15	0
MW-013	Zinc	42	0.006	0.000	0.080	0.014	11	31	0
MW-014	1,2-Dichloroethane	95	0.000	0.000	0.000	0.000	0	95	0
MW-014	1,2-Dichloropropane	95	0.000	0.000	0.000	0.000	0	95	0
MW-014	Acetone	95	0.000	0.000	0.000	0.000	0	95	0
MW-014	Alkalinity	66	75.741	62.000	82.600	3.138	66	0	0
MW-014	Ammonia	102	0.012	0.000	0.580	0.059	22	80	0
MW-014	Arsenic	96	0.000	0.000	0.006	0.001	10	86	0
MW-014	Barium	95	0.001	0.000	0.052	0.006	7	88	0
MW-014	Benzene	95	0.011	0.000	0.700	0.078	2	93	0
MW-014	bis(2-Ethylhexyl)Phthalate	13	0.138	0.000	1.800	0.499	1	12	0
MW-014	Chloride	71	1.082	0.000	7.100	1.146	58	13	0
MW-014	cis-1,2-dichloroethene	92	0.000	0.000	0.000	0.000	0	92	0
MW-014	Ethylbenzene	86	0.006	0.000	0.500	0.054	1	85	0
MW-014	Lead	95	0.000	0.000	0.013	0.002	9	86	0
MW-014	m,p-Xylene	56	0.000	0.000	0.000	0.000	0	56	0
MW-014	Manganese	102	0.198	0.051	1.780	0.238	102	0	0
MW-014	Mercury	95	0.000	0.000	0.000	0.000	1	94	0
MW-014	Methylene Chloride	95	0.000	0.000	0.000	0.000	0	95	0
MW-014	N-Nitrate	64	0.004	0.000	0.059	0.011	12	52	0
MW-014	o-Xylene	83	0.023	0.000	1.500	0.170	2	81	0
MW-014	Sulfate	65	9.280	5.200	13.000	1.299	65	0	0
MW-014	Tetrachloroethene	95	0.000	0.000	0.000	0.000	0	95	0
MW-014	Toluene	95	0.038	0.000	1.600	0.217	3	92	0
MW-014	Total Dissolved Solids	64	123.391	99.000	166.000	15.364	64	0	0
MW-014	Total Organic Carbon	102	0.231	0.000	3.500	0.626	15	87	0
MW-014	Trichloroethene	95	0.000	0.000	0.000	0.000	0	95	0
MW-014	Vanadium	95	0.000	0.000	0.001	0.000	1	94	0
MW-014	Vinyl Chloride	95	0.000	0.000	0.000	0.000	0	95	0
MW-014	Xylene	30	0.117	0.000	2.900	0.537	2	28	0
MW-014	Zinc	96	0.003	0.000	0.156	0.017	14	82	0
MW-015	1,2-Dichloroethane	27	0.000	0.000	0.000	0.000	0	27	0

MW-015	1,2-Dichloropropane	27	0.000	0.000	0.000	0.000	0	27	0
MW-015	Acetone	27	0.067	0.000	1.800	0.346	1	26	0
MW-015	Alkalinity	27	16.830	6.600	39.000	6.349	27	0	0
MW-015	Ammonia	27	0.032	0.000	0.560	0.107	9	18	0
MW-015	Arsenic	27	0.000	0.000	0.000	0.000	0	27	0
MW-015	Barium	27	0.010	0.000	0.015	0.004	24	3	0
MW-015	Benzene	27	0.052	0.000	0.700	0.160	3	24	0
MW-015	bis(2-Ethylhexyl)Phthalate	12	0.000	0.000	0.000	0.000	0	12	0
MW-015	Chloride	27	1.876	1.000	2.900	0.528	27	0	0
MW-015	cis-1,2-dichloroethene	26	0.000	0.000	0.000	0.000	0	26	0
MW-015	Ethylbenzene	26	0.019	0.000	0.500	0.098	1	25	0
MW-015	Lead	27	0.000	0.000	0.001	0.000	5	22	0
MW-015	Manganese	27	0.004	0.000	0.012	0.003	21	6	0
MW-015	Mercury	27	0.000	0.000	0.000	0.000	0	27	0
MW-015	Methylene Chloride	27	0.000	0.000	0.000	0.000	0	27	0
MW-015	N-Nitrate	27	1.372	0.410	2.200	0.429	27	0	0
MW-015	o-Xylene	25	0.036	0.000	0.700	0.144	2	23	0
MW-015	Sulfate	27	4.597	0.000	8.700	2.275	24	3	0
MW-015	Tetrachloroethene	27	0.000	0.000	0.000	0.000	0	27	0
MW-015	Toluene	27	0.237	0.000	3.500	0.693	7	20	0
MW-015	Total Dissolved Solids	27	75.889	35.000	100.000	15.609	27	0	0
MW-015	Total Organic Carbon	27	2.533	0.000	8.300	1.699	23	4	0
MW-015	Trichloroethene	27	0.000	0.000	0.000	0.000	0	27	0
MW-015	Vanadium	27	0.000	0.000	0.000	0.000	0	27	0
MW-015	Vinyl Chloride	27	0.000	0.000	0.000	0.000	0	27	0
MW-015	Xylene	26	0.100	0.000	2.000	0.405	2	24	0
MW-015	Zinc	27	0.002	0.000	0.010	0.003	7	20	0
MW-016	1,2-Dichloroethane	111	2.263	0.000	14.900	1.925	80	31	78
MW-016	1,2-Dichloropropane	112	11.468	0.000	18.000	4.629	105	7	105
MW-016	Acetone	115	3881.754	0.000	14300.000	2103.448	112	3	108
MW-016	Alkalinity	76	1328.763	369.000	1890.000	400.123	76	0	0
MW-016	Ammonia	120	0.105	0.000	0.400	0.090	99	21	0
MW-016	Arsenic	116	0.038	0.000	0.063	0.016	113	3	0
MW-016	Barium	116	0.716	0.093	0.899	0.142	116	0	0
MW-016	Benzene	113	13.285	0.000	21.300	5.178	107	6	107
MW-016	Chloride	80	83.271	2.000	169.000	54.188	80	0	0
MW-016	cis-1,2-dichloroethene	111	81.435	5.100	148.000	40.809	111	0	85
MW-016	Ethylbenzene	103	54.594	0.000	86.400	19.531	101	2	0
MW-016	Lead	69	0.001	0.000	0.013	0.003	9	60	0
MW-016	m,p-Xylene	67	46.021	31.000	61.600	6.521	67	0	0
MW-016	Manganese	123	7.987	0.150	17.500	5.166	123	0	0
MW-016	Mercury	68	0.000	0.000	0.003	0.000	3	65	0
MW-016	Methylene Chloride	109	108.705	0.000	560.000	155.183	70	39	56
MW-016	N-Nitrate	39	0.851	0.000	22.100	3.584	11	28	0
MW-016	o-Xylene	100	20.132	0.000	31.600	6.656	98	2	0
MW-016	Sulfate	73	3.369	0.000	24.000	5.161	53	20	0
MW-016	Tetrachloroethene	99	1.043	0.000	17.000	2.910	22	77	19
MW-016	Toluene	114	77.732	0.000	160.000	33.252	112	2	28
MW-016	Total Dissolved Solids	75	1935.067	375.000	2943.000	672.113	75	0	0
MW-016	Total Organic Carbon	121	326.801	4.440	770.000	196.927	121	0	0
MW-016	Trichloroethene	113	19.859	0.000	96.000	23.911	99	14	88
MW-016	Vanadium	70	0.001	0.000	0.019	0.003	5	65	0

MW-016	Vinyl Chloride	114	8.404	0.000	17.100	4.529	99	15	99
MW-016	Xylene	36	32.375	0.000	55.900	15.575	35	1	0
MW-016	Zinc	99	0.003	0.000	0.110	0.012	13	86	0
MW-018	1,2-Dichloroethane	30	0.000	0.000	0.000	0.000	0	30	0
MW-018	1,2-Dichloropropane	30	0.000	0.000	0.000	0.000	0	30	0
MW-018	Acetone	30	0.553	0.000	9.000	1.864	3	27	0
MW-018	Alkalinity	30	82.660	45.000	98.000	8.784	30	0	0
MW-018	Ammonia	30	0.015	0.000	0.180	0.035	10	20	0
MW-018	Arsenic	30	0.002	0.000	0.003	0.001	26	4	0
MW-018	Barium	30	0.009	0.000	0.016	0.005	26	4	0
MW-018	Benzene	30	0.123	0.000	1.000	0.292	6	24	3
MW-018	bis(2-Ethylhexyl)Phthalate	14	0.164	0.000	1.200	0.418	2	12	0
MW-018	Chloride	30	7.210	3.060	26.000	5.562	30	0	0
MW-018	cis-1,2-dichloroethene	27	0.000	0.000	0.000	0.000	0	27	0
MW-018	Ethylbenzene	28	0.000	0.000	0.000	0.000	0	28	0
MW-018	Lead	30	0.000	0.000	0.001	0.000	1	29	0
MW-018	Manganese	30	0.006	0.000	0.026	0.006	26	4	0
MW-018	Mercury	30	0.000	0.000	0.000	0.000	0	30	0
MW-018	Methylene Chloride	30	0.000	0.000	0.000	0.000	0	30	0
MW-018	N-Nitrate	29	0.016	0.000	0.064	0.019	15	14	0
MW-018	o-Xylene	25	0.032	0.000	0.300	0.090	3	22	0
MW-018	Sulfate	30	7.420	3.400	11.000	1.586	30	0	0
MW-018	Tetrachloroethene	30	0.000	0.000	0.000	0.000	0	30	0
MW-018	Toluene	30	0.400	0.000	5.000	1.071	7	23	0
MW-018	Total Dissolved Solids	30	125.367	88.000	176.000	18.750	30	0	0
MW-018	Total Organic Carbon	30	0.323	0.000	3.000	0.858	4	26	0
MW-018	Trichloroethene	30	0.000	0.000	0.000	0.000	0	30	0
MW-018	Vanadium	30	0.000	0.000	0.000	0.000	0	30	0
MW-018	Vinyl Chloride	30	0.000	0.000	0.000	0.000	0	30	0
MW-018	Xylene	28	0.346	0.000	6.000	1.181	5	23	0
MW-018	Zinc	30	0.001	0.000	0.012	0.003	6	24	0
MW-019	1,2-Dichloroethane	1	0.000	0.000	0.000		0	1	0
MW-019	1,2-Dichloropropane	1	0.000	0.000	0.000		0	1	0
MW-019	Acetone	1	0.000	0.000	0.000		0	1	0
MW-019	Alkalinity	1	418.000	418.000	418.000		1	0	0
MW-019	Ammonia	1	0.001	0.001	0.001		1	0	0
MW-019	Arsenic	1	0.000	0.000	0.000		0	1	0
MW-019	Barium	1	0.141	0.141	0.141		1	0	0
MW-019	Benzene	1	0.000	0.000	0.000		0	1	0
MW-019	bis(2-Ethylhexyl)Phthalate	1	0.000	0.000	0.000		0	1	0
MW-019	Chloride	1	89.500	89.500	89.500		1	0	0
MW-019	Ethylbenzene	1	0.000	0.000	0.000		0	1	0
MW-019	Manganese	1	0.024	0.024	0.024		1	0	0
MW-019	Methylene Chloride	1	0.000	0.000	0.000		0	1	0
MW-019	Sulfate	1	8.000	8.000	8.000		1	0	0
MW-019	Tetrachloroethene	1	0.000	0.000	0.000		0	1	0
MW-019	Toluene	1	0.000	0.000	0.000		0	1	0
MW-019	Total Dissolved Solids	1	629.000	629.000	629.000		1	0	0
MW-019	Total Organic Carbon	1	10.200	10.200	10.200		1	0	0
MW-019	Trichloroethene	1	0.000	0.000	0.000		0	1	0
MW-019	Vinyl Chloride	1	13.000	13.000	13.000		1	0	1

MW-019	Xylene	1	0.000	0.000	0.000		0	1	0
MW-019	Zinc	1	0.018	0.018	0.018		1	0	0
MW-019R	1,2-Dichloroethane	64	0.005	0.000	0.200	0.031	2	62	0
MW-019R	1,2-Dichloropropane	64	0.002	0.000	0.100	0.013	1	63	0
MW-019R	Acetone	64	0.000	0.000	0.000	0.000	0	64	0
MW-019R	Alkalinity	59	198.678	106.000	246.000	40.379	59	0	0
MW-019R	Ammonia	90	0.023	0.000	1.210	0.128	19	71	0
MW-019R	Arsenic	90	0.000	0.000	0.005	0.001	3	87	0
MW-019R	Barium	90	0.087	0.037	0.201	0.032	90	0	0
MW-019R	Benzene	64	0.058	0.000	3.200	0.404	2	62	1
MW-019R	Chloride	59	37.982	8.180	64.000	17.619	59	0	0
MW-019R	cis-1,2-dichloroethene	64	0.679	0.000	3.080	0.918	27	37	0
MW-019R	Ethylbenzene	57	0.000	0.000	0.000	0.000	0	57	0
MW-019R	Lead	63	0.000	0.000	0.008	0.002	4	59	0
MW-019R	m,p-Xylene	55	0.013	0.000	0.690	0.093	1	54	0
MW-019R	Manganese	90	0.023	0.000	0.436	0.063	81	9	0
MW-019R	Mercury	63	0.000	0.000	0.000	0.000	0	63	0
MW-019R	Methylene Chloride	64	0.003	0.000	0.200	0.025	1	63	0
MW-019R	N-Nitrate	33	1.406	0.910	1.680	0.136	33	0	0
MW-019R	o-Xylene	57	0.000	0.000	0.000	0.000	0	57	0
MW-019R	Sulfate	59	15.938	5.800	77.000	15.974	59	0	0
MW-019R	Tetrachloroethene	64	0.054	0.000	0.520	0.146	8	56	0
MW-019R	Toluene	64	0.072	0.000	3.340	0.430	3	61	0
MW-019R	Total Dissolved Solids	58	316.569	174.000	450.000	78.456	58	0	0
MW-019R	Total Organic Carbon	90	2.786	0.000	9.000	1.469	85	5	0
MW-019R	Trichloroethene	64	0.075	0.000	0.600	0.188	9	55	0
MW-019R	Vanadium	63	0.000	0.000	0.000	0.000	0	63	0
MW-019R	Vinyl Chloride	64	0.196	0.000	2.280	0.454	13	51	13
MW-019R	Xylene	2	0.000	0.000	0.000	0.000	0	2	0
MW-019R	Zinc	90	0.006	0.000	0.147	0.018	28	62	0
MW-020	1,2-Dichloroethane	49	0.000	0.000	0.000	0.000	0	49	0
MW-020	1,2-Dichloropropane	49	0.000	0.000	0.000	0.000	0	49	0
MW-020	Acetone	49	0.494	0.000	10.000	1.974	4	45	0
MW-020	Alkalinity	43	265.395	161.000	307.000	33.352	43	0	0
MW-020	Ammonia	42	0.007	0.000	0.132	0.025	6	36	0
MW-020	Arsenic	42	0.002	0.000	0.009	0.002	20	22	0
MW-020	Barium	42	0.244	0.054	0.562	0.129	42	0	0
MW-020	Benzene	49	0.007	0.000	0.140	0.028	3	46	0
MW-020	bis(2-Ethylhexyl)Phthalate	1	0.000	0.000	0.000		0	1	0
MW-020	Chloride	42	14.584	0.000	27.500	6.644	41	1	0
MW-020	cis-1,2-dichloroethene	47	0.026	0.000	0.330	0.085	4	43	0
MW-020	Ethylbenzene	44	0.000	0.000	0.000	0.000	0	44	0
MW-020	Lead	42	0.017	0.000	0.053	0.015	32	10	0
MW-020	m,p-Xylene	29	0.000	0.000	0.000	0.000	0	29	0
MW-020	Manganese	42	0.111	0.000	0.434	0.099	36	6	0
MW-020	Mercury	42	0.000	0.000	0.000	0.000	1	41	0
MW-020	Methylene Chloride	49	0.667	0.000	2.300	0.865	19	30	0
MW-020	N-Nitrate	42	6.733	0.130	8.540	1.526	42	0	0
MW-020	o-Xylene	42	0.015	0.000	0.340	0.069	2	40	0
MW-020	Sulfate	42	15.116	0.000	27.800	4.979	41	1	0
MW-020	Tetrachloroethene	49	0.024	0.000	0.210	0.066	6	43	0
MW-020	Toluene	49	0.029	0.000	1.000	0.153	2	47	0

MW-020	Total Dissolved Solids	42	402.333	200.000	784.000	90.678	42	0	0
MW-020	Total Organic Carbon	42	2.509	0.000	6.800	1.309	40	2	0
MW-020	Trichloroethene	49	0.095	0.000	0.500	0.163	14	35	0
MW-020	Vanadium	42	0.001	0.000	0.012	0.003	7	35	0
MW-020	Vinyl Chloride	49	0.015	0.000	0.500	0.075	3	46	3
MW-020	Xylene	15	0.093	0.000	1.000	0.271	2	13	0
MW-020	Zinc	42	0.032	0.000	0.099	0.024	37	5	0
MW-023	1,2-Dichloroethane	136	1.164	0.000	2.400	0.636	120	16	65
MW-023	1,2-Dichloropropane	132	0.814	0.000	1.340	0.335	120	12	97
MW-023	Acetone	105	0.647	0.000	7.360	1.516	19	86	0
MW-023	Alkalinity	101	534.604	0.000	757.000	138.668	100	1	0
MW-023	Ammonia	116	0.010	0.000	0.120	0.021	27	89	0
MW-023	Arsenic	105	0.000	0.000	0.003	0.001	30	75	0
MW-023	Barium	145	0.206	0.009	0.299	0.051	145	0	0
MW-023	Benzene	135	1.360	0.000	2.900	0.883	119	16	92
MW-023	bis(2-Ethylhexyl)Phthalate	16	0.513	0.000	3.700	1.206	3	13	0
MW-023	Chloride	106	93.071	1.380	188.000	53.175	106	0	0
MW-023	cis-1,2-dichloroethene	143	3.247	0.000	8.370	2.149	140	3	0
MW-023	Ethylbenzene	87	0.000	0.000	0.000	0.000	0	87	0
MW-023	Lead	102	0.001	0.000	0.023	0.004	12	90	0
MW-023	m,p-Xylene	57	0.021	0.000	0.680	0.112	2	55	0
MW-023	Manganese	145	0.474	0.000	1.210	0.502	132	13	0
MW-023	Mercury	99	0.000	0.000	0.001	0.000	22	77	0
MW-023	Methylene Chloride	129	6.731	0.000	18.300	4.329	100	29	92
MW-023	N-Nitrate	90	2.016	0.000	8.040	1.943	71	19	0
MW-023	o-Xylene	116	4.063	0.000	13.900	3.989	87	29	0
MW-023	Sulfate	107	5.444	0.000	11.000	1.966	105	2	0
MW-023	Tetrachloroethene	118	2.150	0.000	9.000	2.560	65	53	62
MW-023	Toluene	97	0.002	0.000	0.220	0.022	1	96	0
MW-023	Total Dissolved Solids	104	745.606	394.000	1211.000	210.510	104	0	0
MW-023	Total Organic Carbon	158	5.292	0.000	60.000	6.952	152	6	0
MW-023	Trichloroethene	150	3.590	0.000	9.700	2.641	144	6	62
MW-023	Vanadium	110	0.001	0.000	0.009	0.002	33	77	0
MW-023	Vinyl Chloride	137	1.161	0.000	3.800	0.862	119	18	119
MW-023	Xylene	35	0.308	0.000	1.000	0.359	16	19	0
MW-023	Zinc	102	0.001	0.000	0.031	0.004	12	90	0
MW-024	Arsenic	15	0.000	0.000	0.000	0.000	0	15	0
MW-024	Barium	15	0.025	0.000	0.050	0.010	14	1	0
MW-024	Lead	15	0.000	0.000	0.000	0.000	0	15	0
MW-024	Manganese	15	0.002	0.000	0.008	0.003	10	5	0
MW-024	Mercury	15	0.000	0.000	0.000	0.000	0	15	0
MW-024	Vanadium	15	0.000	0.000	0.002	0.000	1	14	0
MW-024	Zinc	15	0.009	0.000	0.017	0.005	13	2	0
MW-025	Arsenic	15	0.000	0.000	0.002	0.000	2	13	0
MW-025	Barium	15	0.057	0.052	0.061	0.002	15	0	0
MW-025	Lead	15	0.000	0.000	0.002	0.001	3	12	0
MW-025	Manganese	15	0.001	0.000	0.005	0.001	4	11	0
MW-025	Mercury	15	0.000	0.000	0.000	0.000	0	15	0
MW-025	Vanadium	15	0.002	0.000	0.004	0.002	8	7	0
MW-025	Zinc	15	0.000	0.000	0.000	0.000	0	15	0
MW-026	1,2-Dichloroethane	1	0.000	0.000	0.000		0	1	0
MW-026	1,2-Dichloropropane	1	0.000	0.000	0.000		0	1	0

MW-026	Acetone	1	0.000	0.000	0.000		0	1	0
MW-026	Alkalinity	1	0.000	0.000	0.000		0	1	0
MW-026	Ammonia	1	0.000	0.000	0.000		0	1	0
MW-026	Arsenic	15	0.000	0.000	0.001	0.000	1	14	0
MW-026	Barium	17	0.057	0.051	0.065	0.004	17	0	0
MW-026	Benzene	1	0.000	0.000	0.000		0	1	0
MW-026	bis(2-Ethylhexyl)Phthalate	1	0.000	0.000	0.000		0	1	0
MW-026	Chloride	1	0.000	0.000	0.000		0	1	0
MW-026	Ethylbenzene	1	0.000	0.000	0.000		0	1	0
MW-026	Lead	15	0.000	0.000	0.001	0.000	1	14	0
MW-026	Manganese	15	0.000	0.000	0.003	0.001	1	14	0
MW-026	Mercury	15	0.000	0.000	0.000	0.000	0	15	0
MW-026	Methylene Chloride	1	0.000	0.000	0.000		0	1	0
MW-026	N-Nitrate	1	0.000	0.000	0.000		0	1	0
MW-026	Sulfate	1	0.000	0.000	0.000		0	1	0
MW-026	Tetrachloroethene	1	0.000	0.000	0.000		0	1	0
MW-026	Toluene	1	0.000	0.000	0.000		0	1	0
MW-026	Total Dissolved Solids	1	0.000	0.000	0.000		0	1	0
MW-026	Total Organic Carbon	1	0.000	0.000	0.000		0	1	0
MW-026	Trichloroethene	1	0.000	0.000	0.000		0	1	0
MW-026	Vanadium	16	0.000	0.000	0.002	0.001	2	14	0
MW-026	Vinyl Chloride	1	0.000	0.000	0.000		0	1	0
MW-026	Xylene	1	0.000	0.000	0.000		0	1	0
MW-026	Zinc	15	0.001	0.000	0.010	0.003	1	14	0
MW-027	1,2-Dichloroethane	1	0.000	0.000	0.000		0	1	0
MW-027	1,2-Dichloropropane	1	0.000	0.000	0.000		0	1	0
MW-027	Acetone	1	0.000	0.000	0.000		0	1	0
MW-027	Alkalinity	9	157.778	130.000	210.000	24.273	9	0	0
MW-027	Ammonia	9	0.003	0.000	0.029	0.010	1	8	0
MW-027	Arsenic	15	0.000	0.000	0.002	0.000	2	13	0
MW-027	Barium	17	0.149	0.128	0.176	0.012	17	0	0
MW-027	Benzene	1	0.000	0.000	0.000		0	1	0
MW-027	bis(2-Ethylhexyl)Phthalate	1	0.000	0.000	0.000		0	1	0
MW-027	Chloride	10	51.830	12.000	77.000	19.997	10	0	0
MW-027	Ethylbenzene	1	0.000	0.000	0.000		0	1	0
MW-027	Lead	15	0.000	0.000	0.001	0.000	1	14	0
MW-027	Manganese	15	0.003	0.000	0.023	0.006	8	7	0
MW-027	Mercury	15	0.000	0.000	0.000	0.000	0	15	0
MW-027	Methylene Chloride	1	0.000	0.000	0.000		0	1	0
MW-027	N-Nitrate	10	0.902	0.590	1.900	0.395	10	0	0
MW-027	Sulfate	10	15.340	12.000	18.000	1.838	10	0	0
MW-027	Tetrachloroethene	1	0.000	0.000	0.000		0	1	0
MW-027	Toluene	1	0.000	0.000	0.000		0	1	0
MW-027	Total Dissolved Solids	9	340.556	300.000	367.000	23.049	9	0	0
MW-027	Total Organic Carbon	10	1.726	0.000	3.900	1.449	7	3	0
MW-027	Trichloroethene	1	0.000	0.000	0.000		0	1	0
MW-027	Vanadium	17	0.002	0.000	0.005	0.002	8	9	0
MW-027	Vinyl Chloride	1	0.000	0.000	0.000		0	1	0
MW-027	Xylene	1	0.000	0.000	0.000		0	1	0
MW-027	Zinc	17	0.002	0.000	0.011	0.003	4	13	0
MW-028	1,2-Dichloroethane	9	0.000	0.000	0.000	0.000	0	9	0

MW-028	1,2-Dichloropropane	9	0.000	0.000	0.000	0.000	0	9	0
MW-028	Acetone	9	0.000	0.000	0.000	0.000	0	9	0
MW-028	Alkalinity	9	181.667	140.000	240.000	33.541	9	0	0
MW-028	Ammonia	9	0.007	0.000	0.035	0.015	2	7	0
MW-028	Arsenic	15	0.000	0.000	0.001	0.000	1	14	0
MW-028	Barium	15	0.094	0.055	0.190	0.042	15	0	0
MW-028	Benzene	9	0.000	0.000	0.000	0.000	0	9	0
MW-028	bis(2-Ethylhexyl)Phthalate	8	0.000	0.000	0.000	0.000	0	8	0
MW-028	Chloride	9	36.011	1.100	160.000	55.988	9	0	0
MW-028	cis-1,2-dichloroethene	7	0.000	0.000	0.000	0.000	0	7	0
MW-028	Ethylbenzene	9	0.000	0.000	0.000	0.000	0	9	0
MW-028	Lead	15	0.000	0.000	0.000	0.000	0	15	0
MW-028	Manganese	15	0.000	0.000	0.003	0.001	2	13	0
MW-028	Mercury	15	0.000	0.000	0.000	0.000	0	15	0
MW-028	Methylene Chloride	9	0.000	0.000	0.000	0.000	0	9	0
MW-028	N-Nitrate	9	12.223	8.400	14.700	2.479	9	0	0
MW-028	o-Xylene	7	0.000	0.000	0.000	0.000	0	7	0
MW-028	Sulfate	9	17.311	14.000	21.000	2.517	9	0	0
MW-028	Tetrachloroethene	9	0.000	0.000	0.000	0.000	0	9	0
MW-028	Toluene	9	0.000	0.000	0.000	0.000	0	9	0
MW-028	Total Dissolved Solids	9	374.333	294.000	620.000	121.620	9	0	0
MW-028	Total Organic Carbon	9	1.112	0.000	3.900	1.458	4	5	0
MW-028	Trichloroethene	9	0.000	0.000	0.000	0.000	0	9	0
MW-028	Vanadium	15	0.001	0.000	0.004	0.002	4	11	0
MW-028	Vinyl Chloride	9	0.000	0.000	0.000	0.000	0	9	0
MW-028	Xylene	9	0.000	0.000	0.000	0.000	0	9	0
MW-028	Zinc	15	0.001	0.000	0.007	0.002	2	13	0
MW-029	1,2-Dichloroethane	95	0.000	0.000	0.000	0.000	0	95	0
MW-029	1,2-Dichloropropane	95	0.000	0.000	0.000	0.000	0	95	0
MW-029	Acetone	95	0.057	0.000	3.780	0.420	2	93	0
MW-029	Alkalinity	64	51.220	26.000	311.000	35.990	64	0	0
MW-029	Ammonia	94	0.007	0.000	0.080	0.017	18	76	0
MW-029	Arsenic	94	0.000	0.000	0.001	0.000	1	93	0
MW-029	Barium	94	0.104	0.030	2.510	0.252	94	0	0
MW-029	Benzene	95	0.000	0.000	0.000	0.000	0	95	0
MW-029	bis(2-Ethylhexyl)Phthalate	36	2.039	0.000	71.000	11.825	3	33	1
MW-029	Chloride	64	104.939	38.000	176.000	51.066	64	0	0
MW-029	cis-1,2-dichloroethene	92	0.000	0.000	0.000	0.000	0	92	0
MW-029	Ethylbenzene	86	0.003	0.000	0.300	0.032	1	85	0
MW-029	Lead	94	0.000	0.000	0.000	0.000	0	94	0
MW-029	m,p-Xylene	56	0.000	0.000	0.000	0.000	0	56	0
MW-029	Manganese	94	0.014	0.000	1.170	0.121	29	65	0
MW-029	Mercury	94	0.000	0.000	0.000	0.000	0	94	0
MW-029	Methylene Chloride	95	0.000	0.000	0.000	0.000	0	95	0
MW-029	N-Nitrate	64	0.803	0.490	2.260	0.297	64	0	0
MW-029	o-Xylene	83	0.006	0.000	0.500	0.055	1	82	0
MW-029	Sulfate	63	4.935	0.000	9.900	1.676	60	3	0
MW-029	Tetrachloroethene	95	0.315	0.000	0.970	0.318	51	44	2
MW-029	Toluene	95	0.045	0.000	2.000	0.243	5	90	0
MW-029	Total Dissolved Solids	62	329.016	150.000	530.000	123.603	62	0	0
MW-029	Total Organic Carbon	94	0.326	0.000	5.000	0.850	17	77	0

MW-029	Trichloroethene	95	0.006	0.000	0.610	0.063	1	94	0
MW-029	Vanadium	94	0.000	0.000	0.001	0.000	1	93	0
MW-029	Vinyl Chloride	95	0.000	0.000	0.000	0.000	0	95	0
MW-029	Xylene	30	0.143	0.000	3.000	0.589	2	28	0
MW-029	Zinc	94	0.001	0.000	0.020	0.003	10	84	0
MW-031	1,2-Dichloroethane	61	0.000	0.000	0.000	0.000	0	61	0
MW-031	1,2-Dichloropropane	61	0.000	0.000	0.000	0.000	0	61	0
MW-031	Acetone	62	0.039	0.000	1.400	0.217	2	60	0
MW-031	Alkalinity	40	133.430	31.000	280.000	91.620	40	0	0
MW-031	Ammonia	64	0.014	0.000	0.092	0.025	19	45	0
MW-031	Arsenic	62	0.000	0.000	0.002	0.000	9	53	0
MW-031	Barium	64	0.081	0.030	0.150	0.035	64	0	0
MW-031	Benzene	61	0.000	0.000	0.000	0.000	0	61	0
MW-031	bis(2-Ethylhexyl)Phthalate	8	0.138	0.000	1.100	0.389	1	7	0
MW-031	Chloride	41	5.471	1.000	38.000	6.009	41	0	0
MW-031	cis-1,2-dichloroethene	61	0.000	0.000	0.000	0.000	0	61	0
MW-031	Ethylbenzene	56	0.000	0.000	0.000	0.000	0	56	0
MW-031	Lead	62	0.000	0.000	0.002	0.000	5	57	0
MW-031	m,p-Xylene	36	0.000	0.000	0.000	0.000	0	36	0
MW-031	Manganese	65	0.088	0.000	0.963	0.179	54	11	0
MW-031	Mercury	61	0.000	0.000	0.000	0.000	0	61	0
MW-031	Methylene Chloride	61	0.000	0.000	0.000	0.000	0	61	0
MW-031	N-Nitrate	39	0.333	0.000	2.440	0.555	32	7	0
MW-031	o-Xylene	56	0.000	0.000	0.000	0.000	0	56	0
MW-031	Sulfate	41	6.150	0.000	17.000	3.256	40	1	0
MW-031	Tetrachloroethene	61	0.000	0.000	0.000	0.000	0	61	0
MW-031	Toluene	61	0.005	0.000	0.300	0.038	1	60	0
MW-031	Total Dissolved Solids	40	197.550	74.000	340.000	79.603	40	0	0
MW-031	Total Organic Carbon	65	4.989	0.000	15.000	2.232	64	1	0
MW-031	Trichloroethene	61	0.000	0.000	0.000	0.000	0	61	0
MW-031	Vanadium	62	0.001	0.000	0.008	0.002	14	48	0
MW-031	Vinyl Chloride	61	0.000	0.000	0.000	0.000	0	61	0
MW-031	Xylene	20	0.000	0.000	0.000	0.000	0	20	0
MW-031	Zinc	63	0.002	0.000	0.013	0.004	13	50	0
MWS-1-1	1,2-Dichloroethane	1	0.750	0.750	0.750		1	0	0
MWS-1-1	1,2-Dichloropropane	1	0.860	0.860	0.860		1	0	1
MWS-1-1	Acetone	1	0.000	0.000	0.000		0	1	0
MWS-1-1	Benzene	1	1.260	1.260	1.260		1	0	1
MWS-1-1	cis-1,2-dichloroethene	1	2.110	2.110	2.110		1	0	0
MWS-1-1	Ethylbenzene	1	0.000	0.000	0.000		0	1	0
MWS-1-1	m,p-Xylene	1	0.000	0.000	0.000		0	1	0
MWS-1-1	Methylene Chloride	1	0.000	0.000	0.000		0	1	0
MWS-1-1	o-Xylene	1	0.510	0.510	0.510		1	0	0
MWS-1-1	Tetrachloroethene	1	0.000	0.000	0.000		0	1	0
MWS-1-1	Toluene	1	0.000	0.000	0.000		0	1	0
MWS-1-1	Trichloroethene	1	1.390	1.390	1.390		1	0	0
MWS-1-1	Vinyl Chloride	1	1.570	1.570	1.570		1	0	1
MWS-1-2	1,2-Dichloroethane	1	0.000	0.000	0.000		0	1	0
MWS-1-2	1,2-Dichloropropane	1	0.000	0.000	0.000		0	1	0
MWS-1-2	Acetone	1	0.000	0.000	0.000		0	1	0
MWS-1-2	Alkalinity	1	151.000	151.000	151.000		1	0	0
MWS-1-2	Ammonia	1	0.000	0.000	0.000		0	1	0

MWS-1-2	Arsenic	1	0.000	0.000	0.000		0	1	0
MWS-1-2	Barium	1	0.036	0.036	0.036		1	0	0
MWS-1-2	Benzene	1	0.000	0.000	0.000		0	1	0
MWS-1-2	Chloride	1	10.300	10.300	10.300		1	0	0
MWS-1-2	cis-1,2-dichloroethene	1	0.000	0.000	0.000		0	1	0
MWS-1-2	Ethylbenzene	1	0.000	0.000	0.000		0	1	0
MWS-1-2	Lead	1	0.000	0.000	0.000		0	1	0
MWS-1-2	m,p-Xylene	1	0.000	0.000	0.000		0	1	0
MWS-1-2	Manganese	1	0.000	0.000	0.000		0	1	0
MWS-1-2	Mercury	1	0.000	0.000	0.000		0	1	0
MWS-1-2	Methylene Chloride	1	0.000	0.000	0.000		0	1	0
MWS-1-2	N-Nitrate	1	1.300	1.300	1.300		1	0	0
MWS-1-2	o-Xylene	1	0.000	0.000	0.000		0	1	0
MWS-1-2	Sulfate	1	5.330	5.330	5.330		1	0	0
MWS-1-2	Tetrachloroethene	1	0.000	0.000	0.000		0	1	0
MWS-1-2	Toluene	1	0.000	0.000	0.000		0	1	0
MWS-1-2	Total Organic Carbon	1	1.720	1.720	1.720		1	0	0
MWS-1-2	Trichloroethene	1	0.000	0.000	0.000		0	1	0
MWS-1-2	Vanadium	1	0.000	0.000	0.000		0	1	0
MWS-1-2	Vinyl Chloride	1	0.000	0.000	0.000		0	1	0
MWS-1-2	Zinc	1	0.034	0.034	0.034		1	0	0
SW-1	Ammonia	2	0.011	0.000	0.021	0.015	1	1	0
SW-1	Arsenic	3	0.001	0.001	0.002	0.001	3	0	0
SW-1	Barium	3	0.064	0.062	0.066	0.002	3	0	0
SW-1	bis(2-Ethylhexyl)Phthalate	3	0.400	0.000	1.200	0.693	1	2	0
SW-1	Cadmium	1	0.000	0.000	0.000		0	1	0
SW-1	Chloride	3	7.900	6.600	9.300	1.353	3	0	0
SW-1	Copper	3	0.005	0.002	0.011	0.005	3	0	0
SW-1	Lead	2	0.000	0.000	0.000	0.000	0	2	0
SW-1	Mercury	2	0.000	0.000	0.000	0.000	0	2	0
SW-1	N-Nitrate	3	0.974	0.022	1.500	0.826	3	0	0
SW-1	Silver	2	0.000	0.000	0.000	0.000	0	2	0
SW-1	total cyanide	2	0.000	0.000	0.000	0.000	0	2	0
SW-1	Total Organic Carbon	3	8.967	6.700	13.000	3.502	3	0	0
SW-1	Zinc	3	0.028	0.021	0.040	0.010	3	0	0
SW-2	Ammonia	2	0.056	0.017	0.095	0.055	2	0	0
SW-2	Arsenic	2	0.001	0.000	0.002	0.001	1	1	0
SW-2	Barium	2	0.582	0.124	1.040	0.648	2	0	0
SW-2	bis(2-Ethylhexyl)Phthalate	2	0.000	0.000	0.000	0.000	0	2	0
SW-2	Cadmium	1	0.000	0.000	0.000		0	1	0
SW-2	Chloride	2	15.050	9.100	21.000	8.415	2	0	0
SW-2	Copper	2	0.059	0.009	0.109	0.071	2	0	0
SW-2	Lead	2	0.031	0.000	0.062	0.044	1	1	0
SW-2	Mercury	2	0.000	0.000	0.000	0.000	1	1	0
SW-2	N-Nitrate	2	0.452	0.014	0.890	0.619	2	0	0
SW-2	Silver	2	0.000	0.000	0.000	0.000	1	1	0
SW-2	total cyanide	2	0.000	0.000	0.000	0.000	0	2	0
SW-2	Total Organic Carbon	2	7.600	7.000	8.200	0.849	2	0	0
SW-2	Zinc	2	0.161	0.005	0.316	0.220	2	0	0
SW-3	Ammonia	3	0.013	0.010	0.019	0.005	3	0	0
SW-3	Arsenic	3	0.002	0.001	0.004	0.002	3	0	0

SW-3	Barium	3	0.177	0.154	0.191	0.020	3	0	0
SW-3	bis(2-Ethylhexyl)Phthalate	2	0.000	0.000	0.000	0.000	0	2	0
SW-3	Cadmium	1	0.000	0.000	0.000		0	1	0
SW-3	Chloride	3	21.000	15.000	25.000	5.292	3	0	0
SW-3	Copper	2	0.000	0.000	0.000	0.000	0	2	0
SW-3	Lead	2	0.001	0.000	0.001	0.001	1	1	0
SW-3	Mercury	2	0.000	0.000	0.000	0.000	0	2	0
SW-3	N-Nitrate	3	0.787	0.370	1.600	0.704	3	0	0
SW-3	Silver	2	0.000	0.000	0.000	0.000	0	2	0
SW-3	total cyanide	2	0.000	0.000	0.000	0.000	0	2	0
SW-3	Total Organic Carbon	3	7.833	6.700	9.400	1.401	3	0	0
SW-3	Zinc	3	0.003	0.000	0.005	0.003	2	1	0

APPENDIX C DATA VALIDATION

Analytical data for the September 2018 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 2018.

Data Qualifier Summary for September 2018 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: 1/4/2018

Temp: 25-33 deg F

Weather: cldy

Baro. Pres: 30.18 @ 730

Qualifier: F

Gas Extraction Monitoring Data

Filename: MP180104.XLS

Inst. Used: Landtec Gem 500 # 760

Time Gem Calib: 830

Time Gem Checked:

Baro. Pres: 30.16 @ 1210

Code	Time	Date	CH4	CO2	O2	Bal	Static Pre	Differenti	Temp	Refere	Adjus	Valve Pos	Comments
MGP00012	8:43	1/4/2018	0	1.3	19.4	79.3	0	0.44	>>>	>>>	>>>	>>>	
MGP0002R	9:19	1/4/2018	0	21.6	6.7	71.7	0	0	>>>	>>>	>>>	>>>	
MGP00007	9:27	1/4/2018	0	2.9	17.4	79.7	0	0	>>>	>>>	>>>	>>>	
MGP00009	9:39	1/4/2018	0	5.4	16.1	78.5	0	0.02	>>>	>>>	>>>	>>>	
MGP00001	9:43	1/4/2018							>>>	>>>	>>>	>>>	gw in screen, no sample
MGP00006	9:54	1/4/2018							>>>	>>>	>>>	>>>	gw in screen, no sample
MGP00003	10:22	1/4/2018							>>>	>>>	>>>	>>>	gw in screen, no sample
MGP00008	10:54	1/4/2018	0	2.8	17.7	79.5	0	0	>>>	>>>	>>>	>>>	
MGP00011	11:38	1/4/2018	0	2.2	17.8	80	0	0.12	>>>	>>>	>>>	>>>	
MGP00005	11:44	1/4/2018	0	2.1	18.3	79.6	0	0	>>>	>>>	>>>	>>>	
MGP00010	11:49	1/4/2018	0	5.8	15.1	79.1	0	0	>>>	>>>	>>>	>>>	

Mica Landfill Gas Measurements

Tech: GF

Date: 2/5/2018

Temp: 39-42 deg F

Weather: rain

Baro. Pres: 29.98 @ 830

Qualifier: R

Gas Extraction Monitoring Data

Filename: MP180205.XLS

Inst. Used: Landtec Gem 500 # 760

Time Gem Calib: 900

Time Gem Checked:

Baro. Pres: 30 @ 1133

Code	Time	Date	CH4	CO2	O2	Bal	Static Pre	Differenti	Temp	Refere	Adjus	Valve Pos	Comments
MGP00012	9:07	2/5/2018	0	1.1	19.5	79.4	0	-0.06	>>>	>>>	>>>	>>>	
MGP0002R	9:15	2/5/2018	0	12.5	13.1	74.4	0	0	>>>	>>>	>>>	>>>	
MGP00007	9:29	2/5/2018	0	4	16.2	79.8	0	-0.08	>>>	>>>	>>>	>>>	
MGP00008	9:43	2/5/2018	0	3.6	17.4	79	0	-0.28	>>>	>>>	>>>	>>>	
MGP00009	10:09	2/5/2018	0	5	15.7	79.3	0	-0.43	>>>	>>>	>>>	>>>	
MGP00001	10:15	2/5/2018							>>>	>>>	>>>	>>>	groundwater in screen, no sample
MGP00006	10:25	2/5/2018							>>>	>>>	>>>	>>>	groundwater in screen, no sample
MGP00011	10:53	2/5/2018	0	2.5	17.6	79.9	0	-0.31	>>>	>>>	>>>	>>>	
MGP00005	10:58	2/5/2018							>>>	>>>	>>>	>>>	groundwater in screen, no sample
MGP00010	11:05	2/5/2018	0	3	17.2	79.8	0	0	>>>	>>>	>>>	>>>	
MGP00003	11:15	2/5/2018							>>>	>>>	>>>	>>>	groundwater in screen, no sample

Mica Landfill Gas Measurements

Tech: GF

Date: 3/12/2018

Temp: 36-51 deg F

Weather: clear

Baro. Pres: 30.29 @ 745

Qualifier: F

Gas Extraction Monitoring Data

Filename: MP180312.XLS

Inst. Used: Landtec Gem 500 # 760

Time Gem Calib: 850

Time Gem Checked:

Baro. Pres: 30.23 @ 1346

Code	Time	Date	CH4	CO2	O2	Bal	Static Pre	Differenti	Temp	Refere	Adjus	Valve Pos	Comments
MGP00012	9:02	3/12/2018	0	1	19.6	79.4	0	-0.56	>>>	>>>	>>>	>>>	
MGP0002R	10:50	3/12/2018	0	0	20.8	79.2	0	0	>>>	>>>	>>>	>>>	
MGP00007	10:59	3/12/2018	0	4	16.4	79.6	0	0	>>>	>>>	>>>	>>>	
MGP00008	11:07	3/12/2018	0	3.5	17.3	79.2	0	-0.08	>>>	>>>	>>>	>>>	
MGP00009	12:47	3/12/2018	0	4.4	15.9	79.7	0	-0.21	>>>	>>>	>>>	>>>	
MGP00001	12:51	3/12/2018							>>>	>>>	>>>	>>>	no sample, gw in screens
MGP00006	12:54	3/12/2018							>>>	>>>	>>>	>>>	no sample, gw in screens
MGP00011	13:03	3/12/2018	0	1.6	18.6	79.8	0	0	>>>	>>>	>>>	>>>	
MGP00005	13:14	3/12/2018							>>>	>>>	>>>	>>>	no sample, gw in screens
MGP00010	13:16	3/12/2018	0	1.9	16.2	81.9	0	0	>>>	>>>	>>>	>>>	
MGP00003	13:28	3/12/2018	0	0.6	18.7	80.7	0	0	>>>	>>>	>>>	>>>	

Mica Landfill Gas Measurements

Tech: GF

Date: 4/10/2018

Temp: 44-50 deg F

Weather: cldy, some lt rains

Baro. Pres: 29.93 @ 800

Qualifier: F

Gas Extraction Monitoring Data

Filename: MP180410.XLS

Inst. Used: Landtec Gem 500 # 760

Time Gem Calib: 911

Time Gem Checked:

Baro. Pres: 29.9 @ 1220

Code	Time	Date	CH4	CO2	O2	Bal	Static Pre	Differenti	Temp	Refere	Adjus	Valve Pos	Comments
MGP00012	9:18	4/10/2018	0	1.2	19.7	79.1	0	1.17	>>>	>>>	>>>	>>>	
MGP0002R	9:29	4/10/2018	0	16.8	11	72.2	0	0	>>>	>>>	>>>	>>>	
MGP00007	9:37	4/10/2018	0	4.1	16.2	79.7	0	0.1	>>>	>>>	>>>	>>>	
MGP00008	9:44	4/10/2018	0	3.7	17.4	78.9	0	0.79	>>>	>>>	>>>	>>>	
MGP00009	9:52	4/10/2018	0	4.7	15.8	79.5	0	1.71	>>>	>>>	>>>	>>>	
MGP00001	10:01	4/10/2018							>>>	>>>	>>>	>>>	no sample, gw in screens
MGP00006	10:12	4/10/2018							>>>	>>>	>>>	>>>	no sample, gw in screens
MGP00011	10:19	4/10/2018	0	2.4	18	79.6	0	0.06	>>>	>>>	>>>	>>>	
MGP00005	10:25	4/10/2018							>>>	>>>	>>>	>>>	no sample, gw in screens
MGP00010	10:32	4/10/2018							>>>	>>>	>>>	>>>	no sample, gw in screens
MGP00003	10:49	4/10/2018							>>>	>>>	>>>	>>>	no sample, gw in screens

Mica Landfill Gas Measurements

Tech: GF

Date: 5/3/2018

Temp: 57-70 deg F

Weather: mstly clear

Baro. Pres: 30.13 @ 730

Qualifier: R

Gas Extraction Monitoring Data

Filename: MP180503.XLS

Inst. Used: Landtec Gem 500 # 760

Time Gem Calib: 950

Time Gem Checked:

Baro. Pres: 30.14 @ 1310

Code	Time	Date	CH4	CO2	O2	Bal	Static Pre	Differenti	Temp	Refere	Adjus	Valve Pos	Comments
MGP00012	10:01	5/3/2018	0	1.2	19.4	79.4	0	-0.8	>>>	>>>	>>>	>>>	
MGP0002R	10:06	5/3/2018	0	1.3	20.1	78.6	0	0	>>>	>>>	>>>	>>>	
MGP00007	10:14	5/3/2018	0	4	16.2	79.8	0	-0.22	>>>	>>>	>>>	>>>	
MGP00008	10:23	5/3/2018	0	0.2	20.6	79.2	0	-0.13	>>>	>>>	>>>	>>>	
MGP00009	10:32	5/3/2018	0	4.8	15.4	79.8	0	-0.79	>>>	>>>	>>>	>>>	
MGP00001	10:46	5/3/2018							>>>	>>>	>>>	>>>	gw in screen, no sample
MGP00006	12:16	5/3/2018							>>>	>>>	>>>	>>>	gw in screen, no sample
MGP00011	12:29	5/3/2018	0	1.5	18.8	79.7	0	-0.31	>>>	>>>	>>>	>>>	
MGP00005	12:35	5/3/2018							>>>	>>>	>>>	>>>	gw in screen, no sample
MGP00010	12:41	5/3/2018	0	4.6	10.5	84.9	0	0	>>>	>>>	>>>	>>>	
MGP00003	12:55	5/3/2018	0	5	4.3	90.7	0	0	>>>	>>>	>>>	>>>	

Mica Landfill Gas Measurements

Tech: GF

Date: 6/6/2018

Temp: 58-68 deg F

Weather: ptly cldy

Baro. Pres: 30.95 @ 900

Qualifier: R

Gas Extraction Monitoring Data

Filename: MP180606.XLS

Inst. Used: Landtec Gem 500 # 760

Time Gem Calib: 905

Time Gem Checked:

Baro. Pres: 30.96 @ 1215

Code	Time	Date	CH4	CO2	O2	Bal	Static Pre	Differenti	Temp	Refere	Adjus	Valve Pos	Comments
MGP00012	9:16	6/6/2018	0	1.2	19.6	79.2	0	-0.12	>>>	>>>	>>>	>>>	
MGP0002R	9:42	6/6/2018	0	12.6	14.6	72.8	0	0	>>>	>>>	>>>	>>>	
MGP00007	9:51	6/6/2018	0	3.9	16	80.1	0	0	>>>	>>>	>>>	>>>	
MGP00008	9:59	6/6/2018	0	3.1	17.7	79.2	0	0.02	>>>	>>>	>>>	>>>	
MGP00009	10:09	6/6/2018	0	4.8	15.4	79.8	0	0.02	>>>	>>>	>>>	>>>	
MGP00001	10:23	6/6/2018	0	0.3	20.2	79.5	0	0	>>>	>>>	>>>	>>>	
MGP00006	10:46	6/6/2018	0	5	16.9	78.1	0	0	>>>	>>>	>>>	>>>	
MGP00011	10:57	6/6/2018	0	2.4	17.7	79.9	0	0.03	>>>	>>>	>>>	>>>	
MGP00005	11:04	6/6/2018	0	3.5	13	83.5	0	0	>>>	>>>	>>>	>>>	
MGP00010	11:18	6/6/2018	0	7.3	10.7	82	0	0	>>>	>>>	>>>	>>>	
MGP00003	11:28	6/6/2018	0	7.2	2.5	90.3	0	0	>>>	>>>	>>>	>>>	

Gas Extraction Monitoring Data

Code	Time	Date	CH4	CO2	O2	Bal	Static Press	Differential	Temperature	Reference	Adjusted FI	Reference	Adjusted EI	Pod Type	Pod Value	Comments
MGP00012	7:44	7/3/2018	0	1.1	19.6	79.3	0	-0.13	>>>	>>>	>>>	>>>	>>>	NOT FITTE	>>>	
MGP0002R	7:51	7/3/2018	0	6.2	17.8	76	0	0	>>>	>>>	>>>	>>>	>>>	NOT FITTE	>>>	
MGP00007	7:59	7/3/2018	0	1.4	19	79.6	0	-0.02	>>>	>>>	>>>	>>>	>>>	NOT FITTE	>>>	
MGP00008	8:07	7/3/2018	0	3.1	17.4	79.5	0	-0.17	>>>	>>>	>>>	>>>	>>>	NOT FITTE	>>>	
MGP00009	8:37	7/3/2018	0	5.4	15.3	79.3	0	-0.07	>>>	>>>	>>>	>>>	>>>	NOT FITTE	>>>	
MGP00001	8:48	7/3/2018	0	5	0.2	94.8	0	0	>>>	>>>	>>>	>>>	>>>	NOT FITTE	>>>	
MGP00006	8:57	7/3/2018	0	1.3	19.5	79.2	0	0	>>>	>>>	>>>	>>>	>>>	NOT FITTE	>>>	
MGP00011	9:05	7/3/2018	0	4	17.1	78.9	0	0	>>>	>>>	>>>	>>>	>>>	NOT FITTE	>>>	
MGP00005	9:12	7/3/2018	0	4	16.1	79.9	0	0	>>>	>>>	>>>	>>>	>>>	NOT FITTE	>>>	
MGP00010	9:18	7/3/2018	0	7.7	11.9	80.4	0	0	>>>	>>>	>>>	>>>	>>>	NOT FITTE	>>>	
MGP00003	9:28	7/3/2018	0	9.2	1.2	89.6	0	0	>>>	>>>	>>>	>>>	>>>	NOT FITTE	>>>	

Mica Landfill Gas Measurements

Tech: GF

Date: 8/9/2018

Temp: 68-87 deg F

Weather: hazy from smoke

Baro. Pres: 30.02 @ 750

Qualifier: S

Gas Extraction Monitoring Data

Filename: MP180809.XLS

Inst. Used: Landtec Gem 500 # 760

Time Gem Calib: 805

Time Gem Checked:

Baro. Pres: 30.02 @ 1120

Code	Time	Date	CH4	CO2	O2	Bal	Static Pre	Differenti	Temp	Refere	Adjus	Valve Pos	Comments
MGP00012	8:11	8/9/2018	0	1.2	19.3	79.5	0	-0.49	>>>	>>>	>>>	>>>	
MGP0002R	8:30	8/9/2018	0	18.3	12.7	69	0	0	>>>	>>>	>>>	>>>	
MGP00007	8:37	8/9/2018	0	3.9	14.9	81.2	0	-0.02	>>>	>>>	>>>	>>>	
MGP00008	8:45	8/9/2018	0	0.7	19.8	79.5	0	-0.1	>>>	>>>	>>>	>>>	
MGP00009	9:04	8/9/2018	0	5.4	15.9	78.7	0	-0.05	>>>	>>>	>>>	>>>	
MGP00001	9:12	8/9/2018	0.1	6.1	0.1	93.7	0	0	>>>	>>>	>>>	>>>	
MGP00006	9:45	8/9/2018	0	3.2	17.6	79.2	0	0	>>>	>>>	>>>	>>>	
MGP00011	9:57	8/9/2018	0	2.4	17.6	80	0	0	>>>	>>>	>>>	>>>	
MGP00005	10:16	8/9/2018	0	2.9	17.7	79.4	0	0	>>>	>>>	>>>	>>>	
MGP00010	10:22	8/9/2018	0	5.5	16.2	78.3	0	0	>>>	>>>	>>>	>>>	
MGP00003	10:40	8/9/2018	0	11.6	1.7	86.7	0	0	>>>	>>>	>>>	>>>	

Mica Landfill Gas Measurements

Tech: GF

Date: 9/5/2018

Temp: 60-75 deg F

Weather: mstly clear, a bit smokey

Baro. Pres: 30.02 @ 945

Qualifier: F

Gas Extraction Monitoring Data

Filename: MP180905.XLS

Inst. Used: Landtec Gem 500 # 547

Time Gem Calib: 930

Time Gem Checked:

Baro. Pres: 29.99 @ 1410

Code	Time	Date	CH4	CO2	O2	Bal	Static Pre	Differenti	Temp	Refere	Adjus	Valve Pos	Comments
MGP00012	9:49	9/5/2018	0	1.9	18.8	79.3	0	-0.27	>>>	>>>	>>>	>>>	
MGP0002R	9:59	9/5/2018	0	20.6	11.9	67.5	0	0	>>>	>>>	>>>	>>>	
MGP00007	10:08	9/5/2018	0	4.1	14.6	81.3	0	0	>>>	>>>	>>>	>>>	
MGP00008	10:19	9/5/2018	0	3.5	16.5	80	0	-0.09	>>>	>>>	>>>	>>>	
MGP00009	10:50	9/5/2018	0	4.9	16.1	79	0	-0.01	>>>	>>>	>>>	>>>	
MGP00001	11:06	9/5/2018	0	6.5	0	93.5	0	0	>>>	>>>	>>>	>>>	
MGP00006	11:17	9/5/2018	0	0.4	20.1	79.5	0	0	>>>	>>>	>>>	>>>	
MGP00011	12:50	9/5/2018	0	2.8	17.2	80	0	0	>>>	>>>	>>>	>>>	
MGP00005	12:59	9/5/2018	0	2.4	18.4	79.2	0	0	>>>	>>>	>>>	>>>	
MGP00010	13:05	9/5/2018	0	4.7	16.3	79	0	0	>>>	>>>	>>>	>>>	
MGP00003	13:15	9/5/2018	0	12.9	3.9	83.2	0	0	>>>	>>>	>>>	>>>	

Mica Landfill Gas Measurements

Tech: GF

Date: 10/10/2018

Temp: 44-50 deg F

Weather: ptly cldy to mstly clear

Baro. Pres: 29.95 @ 930

Qualifier: F

Gas Extraction Monitoring Data

Filename: MP181010.XLS

Inst. Used: Landtec Gem 500 # 760

Time Gem Calib: 930

Time Gem Checked:

Baro. Pres: 29.92 @ 1409

Code	Time	Date	CH4	CO2	O2	Bal	Static Pre	Differenti	Temp	Refere	Adjus	Valve Pos	Comments
MGP00012	10:01	10/10/2018	0	1.4	19.4	79.2	0	-0.35	>>>	>>>	>>>	>>>	
MGP0002R	10:17	10/10/2018	0	20.5	11.6	67.9	0	0	>>>	>>>	>>>	>>>	
MGP00007	10:27	10/10/2018	0	4.3	15.5	80.2	0	0	>>>	>>>	>>>	>>>	
MGP00008	10:36	10/10/2018	0	3.6	17.5	78.9	0	-0.05	>>>	>>>	>>>	>>>	
MGP00009	10:45	10/10/2018	0	4.6	17.5	77.9	0	-0.01	>>>	>>>	>>>	>>>	
MGP00001	10:59	10/10/2018	0	6.1	0	93.9	0	0	>>>	>>>	>>>	>>>	
MGP00006	11:08	10/10/2018	0	0.7	20.3	79	0	0	>>>	>>>	>>>	>>>	
MGP00011	12:36	10/10/2018	0	0.9	19.6	79.5	0	0	>>>	>>>	>>>	>>>	
MGP00005	12:43	10/10/2018	0	2.6	18.3	79.1	0	0	>>>	>>>	>>>	>>>	
MGP00010	12:56	10/10/2018	0	5.3	16.6	78.1	0	0	>>>	>>>	>>>	>>>	
MGP00003	13:18	10/10/2018	0	10.9	10.1	79	0	0	>>>	>>>	>>>	>>>	

Mica Landfill Gas Measurements

Tech: GF

Date: 11/6/2018

Temp: 42-45 deg F

Weather: cldy

Baro. Pres: 30.04 @ 950

Qualifier: R

Gas Extraction Monitoring Data

Filename: MP181106.XLS

Inst. Used: Landtec Gem 500 # 760

Time Gem Calib: 1010

Time Gem Checked:

Baro. Pres: 30.05 @ 1400

Code	Time	Date	CH4	CO2	O2	Bal	Static Pre	Differenti	Temp	Refere	Adjus	Valve Pos	Comments
MGP00012	10:21	11/6/2018	0	1.1	19.7	79.2	0	-0.98	>>>	>>>	>>>	>>>	
MGP0002R	10:25	11/6/2018	0	13.2	14.6	72.2	0	0	>>>	>>>	>>>	>>>	
MGP00007	10:30	11/6/2018	0	1.4	19.4	79.2	0	0	>>>	>>>	>>>	>>>	
MGP00008	10:36	11/6/2018	0	3.8	17.3	78.9	0	-0.24	>>>	>>>	>>>	>>>	
MGP00009	10:43	11/6/2018	0	3.5	18.3	78.2	0	-0.07	>>>	>>>	>>>	>>>	
MGP00001	10:49	11/6/2018	0.1	5.7	0	94.2	0	0	>>>	>>>	>>>	>>>	
MGP00006	10:55	11/6/2018	0	0.7	19.9	79.4	0	0	>>>	>>>	>>>	>>>	
MGP00003	11:00	11/6/2018	0	7.9	11	81.1	0	0	>>>	>>>	>>>	>>>	
MGP00011	13:22	11/6/2018	0	1.3	19.5	79.2	0	0	>>>	>>>	>>>	>>>	
MGP00005	13:30	11/6/2018	0	2.4	18.4	79.2	0	-0.02	>>>	>>>	>>>	>>>	
MGP00010	13:38	11/6/2018	0	5.8	15.8	78.4	0	-0.02	>>>	>>>	>>>	>>>	

Mica Landfill Gas Measurements

Tech: GF

Date: 12/6/2018

Temp: 20-28 deg F

Weather: mstly clear to clear

Baro. Pres: 30.22 @ 815

Qualifier: F

Gas Extraction Monitoring Data

Filename: MP181206.XLS

Inst. Used: Landtec Gem 500 # 760

Time Gem Calib: 945

Time Gem Checked:

Baro. Pres: 30.17 @ 1325

Code	Time	Date	CH4	CO2	O2	Bal	Static Pre	Differenti	Temp	Refere	Adjus	Valve Pos:	Comments
MGP00012	9:53	12/6/2018	0	0.9	19.5	79.6	0	-0.27	>>>	>>>	>>>	>>>	
MGP0002R	10:16	12/6/2018	0	0.5	20.4	79.1	0	0	>>>	>>>	>>>	>>>	
MGP00007	10:45	12/6/2018	0	3.8	16.6	79.6	0	0	>>>	>>>	>>>	>>>	
MGP00008	10:54	12/6/2018	0	2.1	18.1	79.8	0	0	>>>	>>>	>>>	>>>	
MGP00009	11:04	12/6/2018	0	3.8	17.5	78.7	0	0	>>>	>>>	>>>	>>>	
MGP00001	11:09	12/6/2018							>>>	>>>	>>>	>>>	gw in screen, no samp
MGP00006	11:15	12/6/2018						.	>>>	>>>	>>>	>>>	gw in screen, no samp
MGP00011	12:20	12/6/2018	0	3.7	17.8	78.5	0	0	>>>	>>>	>>>	>>>	
MGP00005	12:26	12/6/2018	0	2.1	18.6	79.3	0	0	>>>	>>>	>>>	>>>	
MGP00010	12:33	12/6/2018	0	5.4	15.9	78.7	0	0	>>>	>>>	>>>	>>>	
MGP00003	12:40	12/6/2018	0	4.5	16.1	79.4	0	0	>>>	>>>	>>>	>>>	

Mica Landfill Gas Measurements

Tech: GF

Date: 12/4/2018

Temp: 27 deg F

Weather: cldy

Baro. Pres: 30.24 @ 1400

Qualifier: S

Gas Extraction Monitoring Data

Filename: MF181204.XLS

Inst. Used: Landtec Gem 500 # 760

Time Gem Calib: 1000

Time Gem Checked:

Baro. Pres: 30.24 @ 1441

Code	Time	Date	CH4	CO2	O2	Bal	Static Pre	Differenti	Temp	Refere	Adjus	Valve Pos	Comments
MFLARE15	14:16	12/4/2018	OL	OL	OL	OL	OL	OL	OL	OL	OL	NC	backup only
MFLARE06	14:21	12/4/2018	33.3	22.5	0	44.2	0	0.14	36	500	500	open	flame on
MFLARE07	14:25	12/4/2018	30.7	21.7	0	47.6	0	0.16	37	380	380	open	flame on