



Spokane County

PUBLIC WORKS

December 12, 2023

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

RE: Mica Landfill Annual Progress Report 2023

Dear Sandra,

Enclosed you will find one copy of the Mica Landfill September 2023 Annual Progress Report.

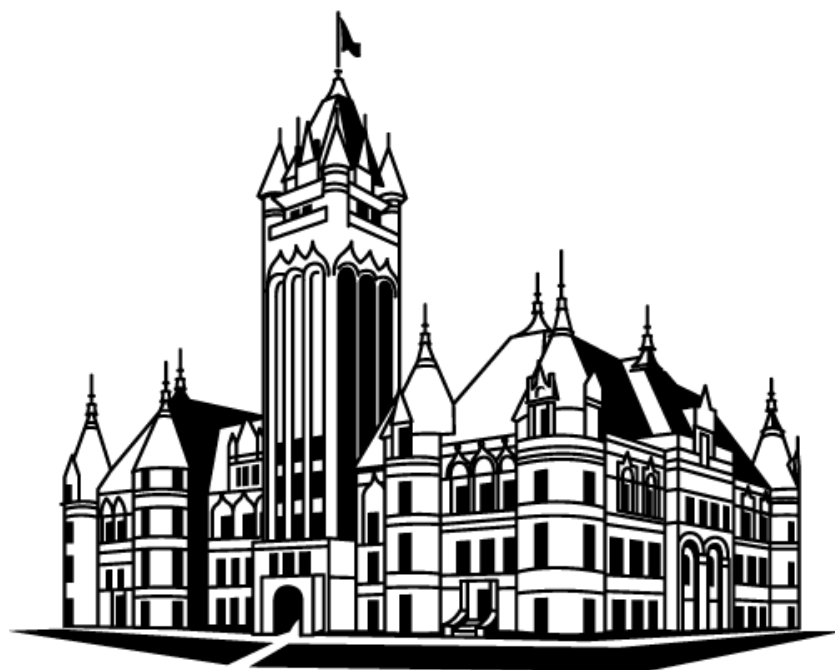
If you have comments or questions, please call me at (509) 238-6607.

Sincerely,

Austin Stewart
PW Project Manager

Enc.

Mica Landfill Annual Remedial Action Performance Report
September 2023



Spokane County
WASHINGTON

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1 INTRODUCTION

1.1 MICA LANDFILL INFORMATION SUMMARY

SITE:	Mica Landfill, Spokane County, WA S.11, 14 & 15 T.24 R.44
REPORTING PERIOD:	October 2022 through September 2023
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 for the established cleanup criteria.
SAMPLING PROGRAMS:	<u>Compliance Monitoring Program:</u> Groundwater sampling (leachate sampling/permit discontinued) 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 for the 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		

Mica Landfill Site Map

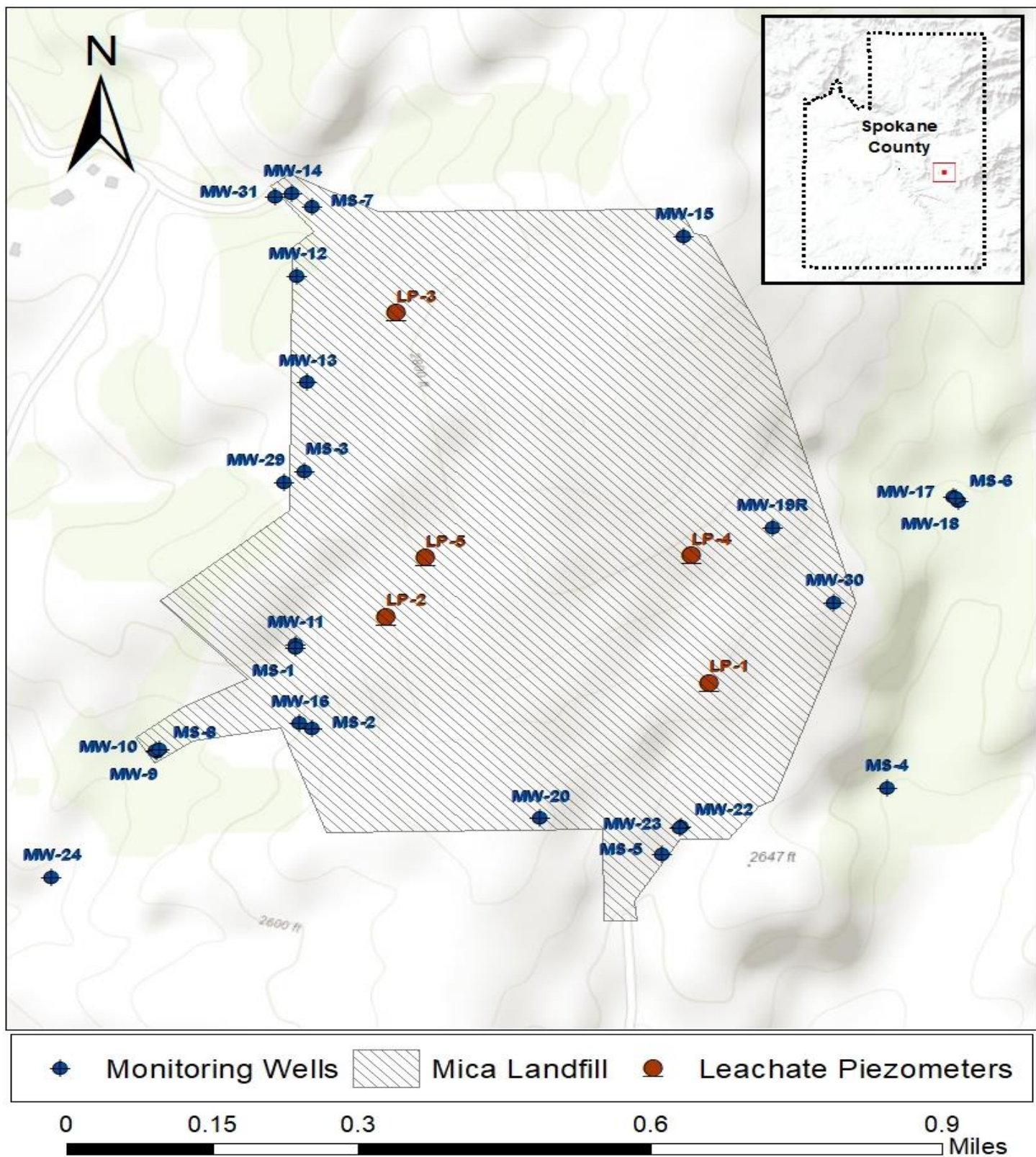


Figure 1-1: Mica Landfill Site Map

Mica Landfill RA Compliance Monitoring Wells

Table 1-2: Mica Landfill Summary of RA Compliance Monitoring Well

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

Mica Landfill Sampling Schedule

Table 1-3: Mica Landfill Sampling Schedule

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

2 GROUNDWATER

2.1 GROUNDWATER DATA/SUMMARIES

PROBLEMS/ DEVIATIONS

Monitoring wells MS-4, MW-13, MW-19R, and MW-29 are low-producing wells that are purged once and allowed to recharge before obtaining samples. The groundwater level in MW-31 was at the top of the intakes for the pump, and County personnel attempted to obtain a sample. The results from the collected sample indicated inconsistent analyte concentrations for alkalinity, zinc, TDS, barium, and more. The results from the sample collected from MW-31 will be qualified as estimates.

FIELD DATA

Field parameters for this report are shown in Table 2-1. Hydrographs are presented in Figure 2-1 through Figure 2-5. Water level readings are shown in Table 2-1. Sen's slope trend analysis results for individual well groundwater elevations over time are presented in Table 2-2. Groundwater elevation contours/flow directions are presented in Figure 2-6.

CRITERIA EXCEEDANCES

Detected analyte concentrations and clean-up criteria exceedances for this annual report are presented in Table 2-3 through Table 2-7. Clean-up criteria were presented previously in Table 1-1. Cleanup-level exceedance geospatial maps are presented in Figure 2-7 through Figure 2-15.

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):

Analyte concentrations in monitoring well MW-16 exceeded the criteria for several VOCs, including 1,2-Dichloroethane (1,2-DCA), 1,2-Dichloropropane (1,2-DCP), benzene, and Vinyl chloride. 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. MW-20 also exhibited exceedances for lead and arsenic.

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 concentrations in DW-2 and DW-3 exceeded the clean-up criteria during this reporting period.

CHEMICAL DATA AND STATISTICAL TRENDS

All laboratory data collected during this annual reporting period is shown in APPENDIX A - LABORATORY RESULTS. Volatile organic detections and semi-volatile detections for this reporting period are presented in Table 2-4 and Table 2-5, respectively. Inorganic detections are presented in Table 2-6, and conventional detections are presented in Table 2-7. Data summary analyses are presented in APPENDIX B - DATA SUMMARY ANALYSIS. Data validation performed for this reporting period is presented in APPENDIX C - DATA VALIDATION.

STATISTICAL ANALYSIS: Trend analyses were performed on chemical data from 1994 to the present date using Sen's non-parametric trend test. Statistically significant trends are included in Table 2-8. 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 graphs for northwest area analyte concentrations are presented in Figure 2-16 through Figure 2-22. Statistically significant trends for the northwest area analyte concentrations are presented in Table 2-8. The northwest drainage wells show little to no detections of VOCs. Monitoring well MW-29, located in the southern area of the northwest drainage, indicates increasing trends in a majority of the conventionals, along with barium. While MW-29 currently indicates criteria exceedances/increasing concentration trends for nitrate, overall nitrate concentrations have decreased over the last 5 years. MW-31 indicates decreasing trends for alkalinity, chloride, sulfate, TDS, and TOC. As mentioned above, the results from samples collected from MW-31 during the September sampling event indicated inconsistent analyte concentrations for alkalinity, zinc, TDS, barium, and more. The results from this sample will be qualified as estimates. MW-13 is exhibiting decreasing trends for nitrate, sulfate, barium, and PCE. MW-14 exhibited an increasing trend for alkalinity.

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

Time-series graphs for southwest area analyte concentrations are presented in Figure 2-23 through Figure 2-40. Statistically significant trends for the southwest area are shown in Table 2-8. Monitoring wells MW-9 and MW-10 show no detections of VOCs. MW-9 is exhibiting decreasing trends for a majority of conventionals/manganese, and an increasing trend for barium. Acetone concentrations for MW-9 were above the detection limit for the first time since monitoring began. While this could be an indication of potential migration from MW-16, acetone is a common chemical used in laboratories and could have been the result of cross-contamination, although no acetone concentrations were detected in trip blanks/laboratory quality control data. MW-10 indicates a decreasing trend for chloride, and increasing trends for alkalinity, nitrate, and barium. Out of all wells monitored at the Mica Landfill, MW-16 typically has the highest concentrations of analytes and statistical analysis shows increasing trends for several constituents. Monitoring well MW-16 is exhibiting increasing trends for alkalinity, ammonia, chloride, arsenic, 1,2-DCP, and benzene. In recent years, MW-16 exhibited decreasing trends for 1,2-DCP and 1,2-DCA, however, the most recent sampling events indicate increasing trends for both constituents. MW-16 also indicates decreasing trends for sulfate, TOC, barium, manganese, acetone, MC, TCE, and toluene. Although MW-16 continues to exhibit a high level of constituent detections and cleanup criteria exceedances, several constituent concentrations have plateaued/started exhibiting decreasing concentration trends.

Because of the high volatile organic concentrations found in MW-16, dilutions for laboratory analysis are necessary. This typically increases the method reporting limit for the analytes, and while most detections are well above these elevated reporting limits, there may be some low-level concentrations that will not be represented with these lab results.

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

Time-series graphs for the south area analyte concentrations are presented in Figure 2-41 through Figure 2-49. Statistically significant trends for the south area are shown in Table 2-8. Decreasing trends for nitrate, PCE, MC, TCE, 1,2-DCA, 1,2-DCP, cis-1,2-DCE, and barium are indicated in MW-23. Increasing trends for MW-23 include chloride and manganese for this reporting period. Increasing trends for alkalinity and TDS in previous reporting periods have plateaued/decreased. Monitoring well MS-5 is exhibiting increasing trends for chloride and sulfate, and decreasing trends for nitrate and barium. Although MS-5 is exhibiting increasing trends for chloride and sulfate, concentrations for both constituents appear to be plateauing/decreasing. Statistical analysis shows decreasing trends for chloride, nitrate, sulfate,

TDS, and TOC in MW-20. Inorganic concentrations for MW-20 appear to have significant seasonal variation, with peak concentrations commonly occurring in the March sampling events. These peak concentrations also appear to coincide with seasonal variation present in groundwater elevations in MW-20, with the lowest elevations commonly occurring in the March sampling events.

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

Time-series graphs for the southeast area analyte concentrations are presented in Figure 2-50 through Figure 2-55. Statistically significant trends are shown in Table 2-8. Monitoring well MS-4 shows increasing trends for alkalinity, nitrate, sulfate, TDS, and barium. While nitrate concentrations have recently exhibited an increasing trend, the September sampling event indicates a possible plateau/decrease in concentrations. Monitoring well MW-19R indicates decreasing trends for most conventionals and barium. There are several examples of inorganic and conventional concentrations decreasing in MW-19R while concentrations increase in MS-4, indicating constituent concentration relationships between the two monitoring wells that are supported by the groundwater flow direction.

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

Time-series graphs for the domestic well analyte concentrations are presented in Figure 2-56 through Figure 2-60. Statistically significant trends are shown in Table 2-8. Data from DW-1 show overall increasing trends for nitrate, chloride, and barium. While these constituents exhibit statistically significant increasing concentration trends, concentrations have been plateauing/decreasing during the most recent sampling events. DW-3 shows increasing trends for nitrate, sulfate, and barium. DW-2 indicates a decreasing trend for nitrate. Acetone concentrations for DW-2 were above the detection limit for the first time since monitoring began. While this could be an indication of migration from upgradient wells, acetone is a common chemical used in laboratories and could have been the result of cross-contamination, although no acetone concentrations were detected in trip blanks/laboratory quality control data.

MICA LANDFILL DATA SUMMARY

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

While statistical trend analysis shows a majority of increasing analyte concentration trends for the Northwest drainage wells, concentration differences between the 2022 to 2023 sampling events indicate a majority of decreases in overall concentrations, especially among the conventional analytes, given a few exceptions. As mentioned above, the groundwater level in MW-31 was at the intake for the pump, and County personnel attempted to obtain a sample. The results from the collected sample indicated inconsistent analyte concentrations for alkalinity, zinc, TDS, barium, and more. The results from the sample collected from MW-31 will be qualified as estimates, and sampling at MW-31 will be conducted in December for future sampling events.

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

Statistical trend analysis is reflective of the analyte concentration differences between 2022 and 2023, where the majority of analyte concentrations for the Southwest wells are exhibiting decreases, however, several analyte concentrations (especially in monitoring well MW-16) are exhibiting increases, such as 1,2-DCA and 1,2-DCP. Acetone concentrations for MW-9 were above detection limits for the first time since monitoring began. While this could be an indication of potential migration from MW-16, acetone is a common chemical used in laboratories and could have been the result of cross-contamination, although no acetone concentrations were detected in trip blanks/laboratory quality control data.

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

Statistical trend analysis is reflective of the analyte concentration differences between 2022 and 2023, where the majority of analyte concentrations found in the South wells are exhibiting

decreases in concentrations, with a few analyte concentration increases, such as TDS for MS-005, arsenic for MW-20, TDS for MW-20, and chloride/DCA/manganese for MW-23.

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

Statistical trend analysis indicates that for almost every statistically significant decreasing trend for analyte concentrations exhibited in MW-19R, a statistically significant increasing trend is occurring for those same analytes in MS-004, further indicating constituent concentration relationships between the two monitoring wells that are supported by the groundwater flow direction. Analyte concentration differences between 2022 and 2023 indicate that a majority of the analytes exhibited concentration decreases during this reporting period.

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

No problems or delays occurred while sampling the domestic wells during the September 2023 sampling event. Nitrate levels at domestic well DW-2 were over the clean-up criteria during the 2023 March and September sampling events. The statistical analysis for nitrate at this well indicates a decreasing trend in concentrations. Nitrate levels at domestic well DW-3 were over the clean-up criteria for both sampling events during this annual reporting period. This well has exhibited an increasing trend for nitrate since 2006, but concentrations are currently exhibiting a decreasing trend that started in 2016.

The zinc concentrations found at DW-1 exceeded the clean-up criteria in 2021, but concentrations remained below the criteria for all of the 2022 and 2023 sampling events. The zinc concentrations in this well continue to exhibit a decreasing trend after the 2021 repairs were completed for the well.

Mica Landfill Field Parameters

Table 2-1: Mica Landfill Field Parameters Summary

StationID	SampleDate	Temp	PH	Conductivity	Turbidity	WElev
DW-001	3/15/2023	11.2	6.76	373	0.3	
DW-001	9/12/2023	11.7	6.86	304	0.4	
DW-002	3/15/2023	11	6.72	360	0.16	
DW-002	9/12/2023	11.3	6.71	317	0.37	
DW-003	3/15/2023	11.4	7.23	359	0.25	2395.75
DW-003	9/12/2023	12	7.34	326	0.2	2391.35
MS-004	3/15/2023	8.9	6.87	459	0.3	2514.50
MS-004	9/12/2023	10.6	6.79	412	3.51	2511.93
MS-005	3/16/2023	10.6	6.55	298	2.32	2559.78
MS-005	9/13/2023	11.1	6.46	287	0.25	2557.94
MW-009	3/15/2023	7.8	6.85	457	1.31	2494.62
MW-009	9/12/2023	10.6	6.75	505	36.8	2487.72
MW-010	3/15/2023	8.6	7.08	150	0.19	2494.20
MW-010	9/12/2023	9.7	7.33	184	0.64	2489.09
MW-013	3/15/2023	9.2	6.89	386	0.61	2672.15
MW-013	9/12/2023	10.9	6.86	390	0.87	2671.13
MW-014	3/15/2023	8.6	7.1	153	0.89	2591.06
MW-014	9/12/2023	10.8	7.11	150	0.79	2584.67
MW-016	3/16/2023	10.4	6.8	1988	0.58	2536.37
MW-016	9/13/2023	12.6	6.79	1650	0.52	2536.74
MW-019R	3/15/2023	10.3	6.68	231	4.01	2692.70
MW-019R	9/12/2023	11.8	6.69	230	5.55	2684.56
MW-020	3/16/2023	10.1	7.31	512	550	2591.03
MW-020	9/12/2023	10.9	7.15	515	4.97	2591.93
MW-023	3/16/2023	10.6	6.99	679	5.14	2561.18
MW-023	9/13/2023	11.4	6.89	665	0.51	2559.85
MW-029	3/16/2023	7.5	6.33	592	0.3	2588.93
MW-029	9/12/2023	10.1	6.14	639	0.46	2591.30
MW-031	3/15/2023	8.6	6.79	145	1.21	2589.99
MW-031	9/12/2023	9.7	6.81	115	0.97	

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

Hydrographs/Groundwater Flow Contours

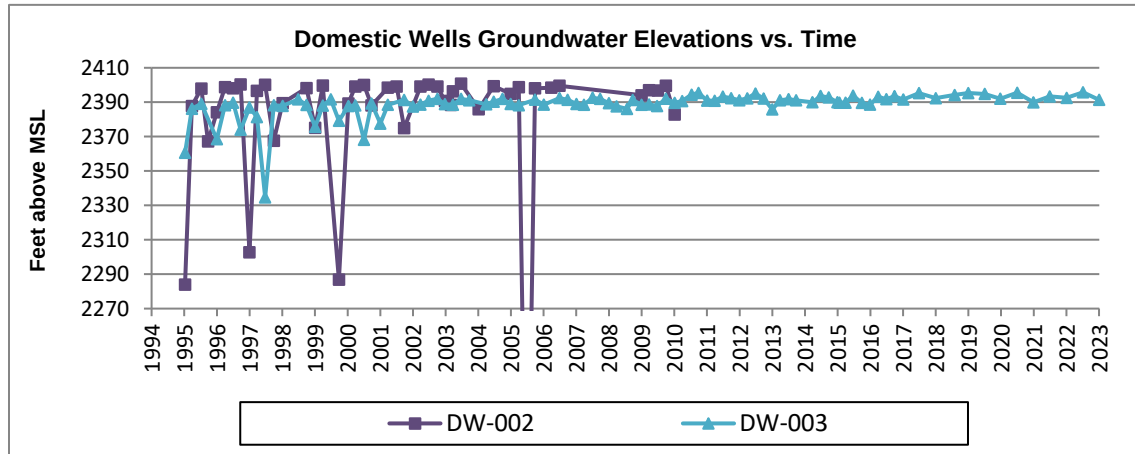


Figure 2-1: Domestic Wells Groundwater Elevation vs. Time

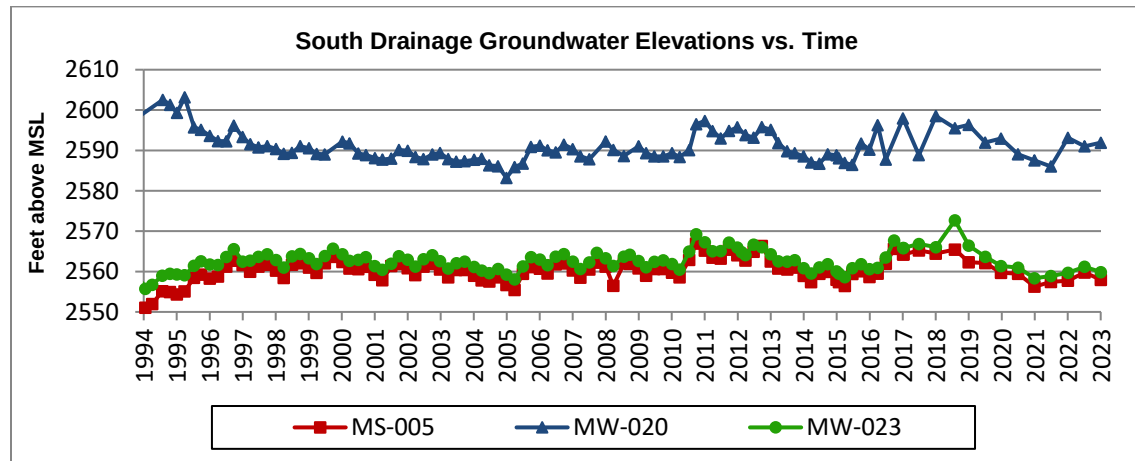


Figure 2-2: South Drainage Groundwater Elevations vs. Time

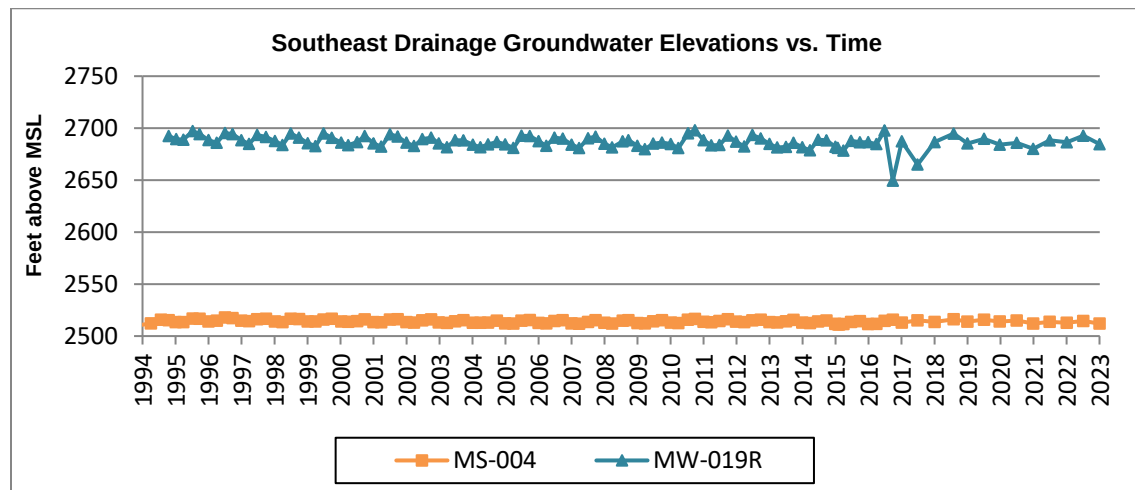


Figure 2-3: Southeast Drainage Groundwater Elevations vs. Time

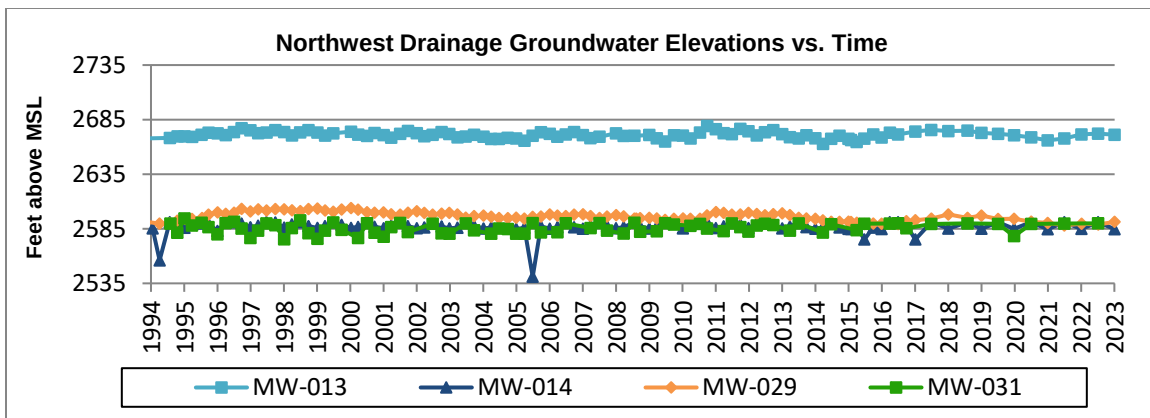


Figure 2-4: Northwest Drainage Groundwater Elevations vs. Time

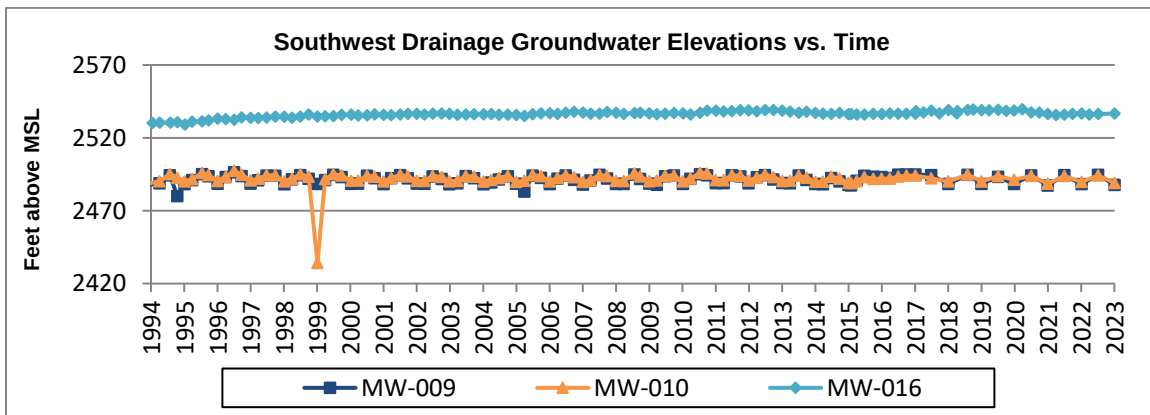


Figure 2-5: Southwest Drainage Groundwater Elevations vs. Time

Table 2-2: Sen's Slope Trend Analysis – Groundwater Elevations (99% Confidence Level)

Station	Parameter	Slope	Y-Intercept	Lower Limit	Upper Limit	Result
Domestic Wells						
DW-002	Water_Elev	0.00047	2380.3	-0.000505	0.00312	no trend
DW-003	Water_Elev	0.00072	2361.8	0.000504	0.000993	increasing
Southeast Drainage						
MS-004	Water_Elev	-0.0001643	2520.6	-0.0002935	-0.00003704	decreasing
MW-019R	Water_Elev	-0.00054	2708.2	-0.000952	-0.0001138	decreasing
South Drainage						
MS-005	Water_Elev	0.0004124	2544	0.0001388	0.000673	increasing
MW-020	Water_Elev	-0.0001305	2595.8	-0.000503	0.0002456	no trend
MW-023	Water_Elev	0.0002737	2551.5	0.0000492	0.000492	increasing
Southwest Drainage						
MW-009	Water_Elev	0.00001608	2490.3	-0.0001266	0.0001895	no trend
MW-010	Water_Elev	-0.0000714	2495.1	-0.000219	0.0000671	no trend
MW-016	Water_Elev	0.000552	2514.4	0.0004354	0.000669	increasing
Northwest Drainage						
MW-013	Water_Elev	-0.000095	2675	-0.000411	0.0001762	no trend
MW-014	Water_Elev	0	2591.1	-0.0001893	0.0000513	no trend
MW-029	Water_Elev	-0.001012	2636.6	-0.00128	-0.000733	decreasing
MW-031	Water_Elev	0.0000982	2583.5	-0.0001087	0.000542	no trend

Groundwater Elevation Contours – September 2023

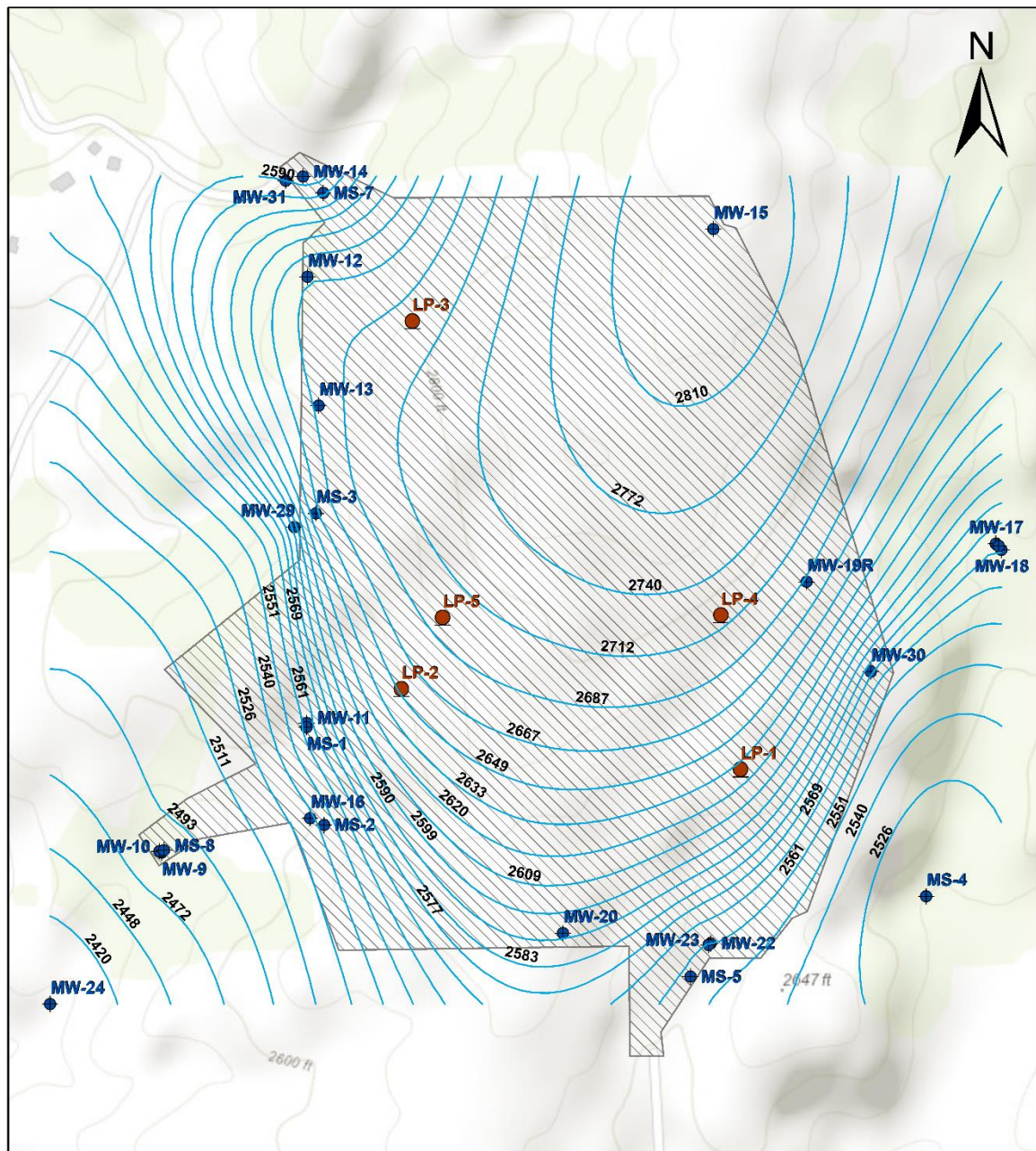


Figure 2-6: Mica Landfill Groundwater Elevation Contours

Criteria Exceedances

Table 2-3: Mica Landfill Analyte Criteria Exceedances

StationID	SampleDate	Analyte	MTCAB	Result	Detect Limit	Qualifier	Units	Type	DrainageArea
DW-002	3/15/2023	N-Nitrate	0.8	1.09	0.05		mg/L	C	Domestic
DW-002	9/12/2023	N-Nitrate	0.8	0.881	0.05		mg/L	C	Domestic
DW-002	9/12/2023	N-Nitrate	0.8	0.879	0.05		mg/L	C	Domestic
DW-003	3/15/2023	N-Nitrate	0.8	1.56	0.05		mg/L	C	Domestic
DW-003	3/15/2023	N-Nitrate	0.8	1.56	0.05		mg/L	C	Domestic
DW-003	9/12/2023	N-Nitrate	0.8	1.69	0.05		mg/L	C	Domestic
MW-029	3/16/2023	N-Nitrate	0.8	1.02	0.05		mg/L	C	Northwest
MW-029	9/12/2023	N-Nitrate	0.8	0.992	0.05		mg/L	C	Northwest
MS-005	3/16/2023	N-Nitrate	0.8	1.36	0.05		mg/L	C	South
MS-005	9/13/2023	N-Nitrate	0.8	1.3	0.05		mg/L	C	South
MW-020	3/16/2023	N-Nitrate	0.8	1.96	0.05		mg/L	C	South
MW-020	3/16/2023	N-Nitrate	0.8	1.94	0.05		mg/L	C	South
MW-020	9/12/2023	N-Nitrate	0.8	1.74	0.05		mg/L	C	South
MW-020	3/16/2023	Arsenic	0.005	0.00558	0.003		mg/L	I	South
MW-020	3/16/2023	Arsenic	0.005	0.00564	0.003		mg/L	I	South
MW-020	3/16/2023	Lead	0.015	0.0222	0.015		mg/L	I	South
MW-020	3/16/2023	Lead	0.015	0.0221	0.015		mg/L	I	South
MS-004	3/15/2023	N-Nitrate	0.8	10.7	0.5		mg/L	C	Southeast
MS-004	9/12/2023	N-Nitrate	0.8	9.93	0.5		mg/L	C	Southeast
MW-019R	3/15/2023	N-Nitrate	0.8	1.36	0.05		mg/L	C	Southeast
MW-019R	9/12/2023	N-Nitrate	0.8	1.29	0.05		mg/L	C	Southeast
MW-016	12/8/2022	Arsenic	0.005	0.0604	0.003		mg/L	I	Southwest
MW-016	3/16/2023	Arsenic	0.005	0.0723	0.003		mg/L	I	Southwest
MW-016	6/15/2023	Arsenic	0.005	0.0665	0.003		mg/L	I	Southwest
MW-016	9/13/2023	Arsenic	0.005	0.0616	0.001		mg/L	I	Southwest
MW-016	12/8/2022	Barium	0.56	0.684	0.004		mg/L	I	Southwest
MW-016	3/16/2023	Barium	0.56	0.643	0.004		mg/L	I	Southwest
MW-016	6/15/2023	Barium	0.56	0.703	0.004		mg/L	I	Southwest
MW-016	9/13/2023	Barium	0.56	0.627	0.004		mg/L	I	Southwest
MW-016	12/8/2022	1,2-Dichloroethane	1.2	3.55	2.5		ug/L	V	Southwest
MW-016	3/16/2023	1,2-Dichloroethane	1.2	2.86	0.5		ug/L	V	Southwest
MW-016	6/15/2023	1,2-Dichloroethane	1.2	2.73	0.5		ug/L	V	Southwest
MW-016	9/13/2023	1,2-Dichloroethane	1.2	3.5	0.5		ug/L	V	Southwest
MW-016	12/8/2022	1,2-Dichloropropane	0.643	18.1	2.5		ug/L	V	Southwest
MW-016	3/16/2023	1,2-Dichloropropane	0.643	16.9	0.5		ug/L	V	Southwest
MW-016	6/15/2023	1,2-Dichloropropane	0.643	17.2	0.5		ug/L	V	Southwest
MW-016	9/13/2023	1,2-Dichloropropane	0.643	18.2	5		ug/L	V	Southwest
MW-016	12/8/2022	Benzene	0.795	14.5	2.5		ug/L	V	Southwest
MW-016	3/16/2023	Benzene	0.795	13.7	0.5		ug/L	V	Southwest
MW-016	6/15/2023	Benzene	0.795	12.5	0.5		ug/L	V	Southwest
MW-016	9/13/2023	Benzene	0.795	12.3	5		ug/L	V	Southwest
MW-016	12/8/2022	Vinyl Chloride	0.023	4.1	2.5		ug/L	V	Southwest
MW-016	3/16/2023	Vinyl Chloride	0.023	0.97	0.5		ug/L	V	Southwest
MW-016	6/15/2023	Vinyl Chloride	0.023	0.95	0.5		ug/L	V	Southwest
MW-016	9/13/2023	Vinyl Chloride	0.023	0.8	0.5		ug/L	V	Southwest

Results with reporting limits greater than the Method B clean-up levels are highlighted in **Red**

Criteria Exceedances – Summary of changes from 2022 to 2023:

StationID	Drainage	Analyte	Summary of change
MW-031	Northwest	N-Nitrate	Decreased from exceedance in 2022 to no exceedance in 2023
MW-016	Southwest	Acetone	Decreased from exceedance in 2022 to no exceedance in 2023

Mica Landfill Volatile Organic Detections

Table 2-4: Mica Landfill VOC Detections for the Reporting Period (ug/L)

StationID	SampleDate	1,2-DCA	1,2-DCP	Acetone	Benzene	cis-1,2-DCE	Ethylbenzene	m,p-Xylene	o-Xylene	Toluene	VC	TCE	PCE
MW-016	12/7/2021	2.7	15.1	740	13	5.02	63	43.6	18.8	12.6	1.04		
MW-016	3/9/2022	2.23	13.3	123	11.7	2.16	53.8	35.5	16.3	5.28	1.17	0.5	
MW-016	6/7/2022	2.32	13.1	408	11.8	3.71	56.6	39.7	16.9	9.65	1.17	0.5	
MW-016	9/14/2022	2.42	14.4	304	12.7	2.95	48.8	43.6	20.4	8.09	0.91	0.53	
MW-029	3/9/2022												0.52
MW-029	9/14/2022												0.59

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

Mica Landfill Semi-Volatile Organic Detections

Table 2-5: Mica Landfill SVOC Detections for the Reporting Period (ug/L)

StationID	SampleDate	bis(2-Ethylhexyl)Phthalate	Units	Qualifier
DW-001	3/15/2023	0.5	ug/L	U
DW-002	3/15/2023	0.5	ug/L	U
DW-003	3/15/2023	0.5	ug/L	U
MS-004	3/15/2023	0.5	ug/L	U
MS-004	9/12/2023	0.5	ug/L	U
MS-005	3/16/2023	0.5	ug/L	U
MW-009	3/15/2023	0.5	ug/L	U
MW-029	3/16/2023	0.5	ug/L	U

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

Mica Landfill Inorganic Detections

Table 2-6: Inorganics Detections for the Reporting Period (mg/L)

StationID	SampleDate	Arsenic	Barium	Lead	Manganese	Zinc
DW-001	3/15/2023		0.0193			0.0558
DW-001	9/12/2023	0.00206	0.0125			0.0473
DW-002	3/15/2023		0.0389			0.0493
DW-002	9/12/2023		0.0407			0.0153
DW-003	3/15/2023		0.028			0.123
DW-003	9/12/2023		0.0276			0.0709
MS-004	3/15/2023		0.0847			
MS-004	9/12/2023		0.0876		0.0087	
MS-005	3/16/2023		0.0422			
MS-005	9/13/2023		0.043			
MW-009	3/15/2023		0.102		0.186	
MW-009	9/12/2023		0.142		0.61	
MW-010	3/15/2023		0.0461			
MW-010	9/12/2023		0.0444			
MW-013	3/15/2023		0.0473			
MW-013	9/12/2023		0.0445			
MW-014	3/15/2023				0.145	
MW-014	9/12/2023				0.14	
MW-016	12/8/2022	0.0604	0.684		0.554	
MW-016	3/16/2023	0.0723	0.643		0.505	
MW-016	6/15/2023	0.0665	0.703		0.557	
MW-016	9/13/2023	0.0616	0.627		0.562	
MW-019R	3/15/2023		0.0321			
MW-019R	9/12/2023		0.0322			
MW-020	3/16/2023	0.00564	0.243	0.0222	0.131	0.0362
MW-020	9/12/2023	0.00156	0.209		0.0677	0.0262
MW-023	3/16/2023		0.12		0.892	
MW-023	9/13/2023		0.117		0.936	
MW-029	3/16/2023		0.101			
MW-029	9/12/2023		0.1			
MW-031	3/15/2023		0.0478			
MW-031	9/12/2023		0.0873			0.0109

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

Mica Landfill Conventional Detections

Table 2-7: Conventional Detections for the Reporting Period (mg/L)

StationID	SampleDate	ALK	CI	N-NH3	N-NO3	SO4	TDS	TOC
DW-001	3/15/2023	147	15.5		0.245	10.8		
DW-001	9/12/2023	151	7.79		0.105	10.2		
DW-002	3/15/2023	169	8.36		1.09	4.55		
DW-002	9/12/2023	165	8.05		0.881	3.94		
DW-003	3/15/2023	184	0.76		1.56	1.15		
DW-003	9/12/2023	178	0.74	0.039	1.69	1.22		
MS-004	3/15/2023	185	0.59		10.7	10.4	271	1.23
MS-004	9/12/2023	182	0.58		9.93	9.89	274	1.33
MS-005	3/16/2023	102	18.9		1.36	14	174	1.2
MS-005	9/13/2023	99.3	20.5		1.3	14.5	237	1.2
MW-009	3/15/2023	198	8.44		0.089	2.93	207	1.88
MW-009	9/12/2023	247	17.7			2.78	268	2.04
MW-010	3/15/2023	100	0.45		0.237	0.99	115	
MW-010	9/12/2023	95.3	0.44		0.218	0.68	105	
MW-013	3/15/2023	197	8.6		0.512	3.07	221	1.03
MW-013	9/12/2023	199	8.05		0.451	2.62	215	1.14
MW-014	3/15/2023	85.2	0.75			9.46	108	
MW-014	9/12/2023	81.2	0.86	0.234		9	111	
MW-016	12/8/2022			0.374				35.8
MW-016	3/16/2023	1350	162	0.422	0.168	0.47	1580	29.3
MW-016	6/15/2023			0.417				31.6
MW-016	9/13/2023	1290	166	0.352		0.41	1680	32.6
MW-019R	3/15/2023	106	6.05		1.36	4.69	143	1
MW-019R	9/12/2023	104	5.7		1.29	4.28	139	1.18
MW-020	3/16/2023	256	7.72		1.96	5.3	296	1.86
MW-020	9/12/2023	222	6.89		1.74	4.12	266	1.2
MW-023	3/16/2023	314	42.4			8.66	385	2.11
MW-023	9/13/2023	313	44.4			8.58	406	2.09
MW-029	3/16/2023	86.4	137		1.02	7.04	337	
MW-029	9/12/2023	114	137		0.992	7.01	378	
MW-031	3/15/2023	46.8	18.5		0.574	4.14	106	3.52
MW-031	9/12/2023	162	10		0.11	1.97	191	2.01

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

VOC detections/exceedance maps – 1,2-Dichloroethane

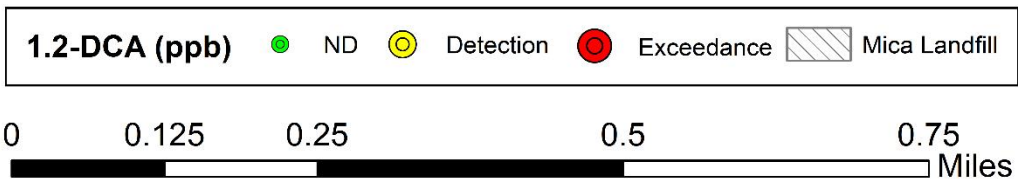
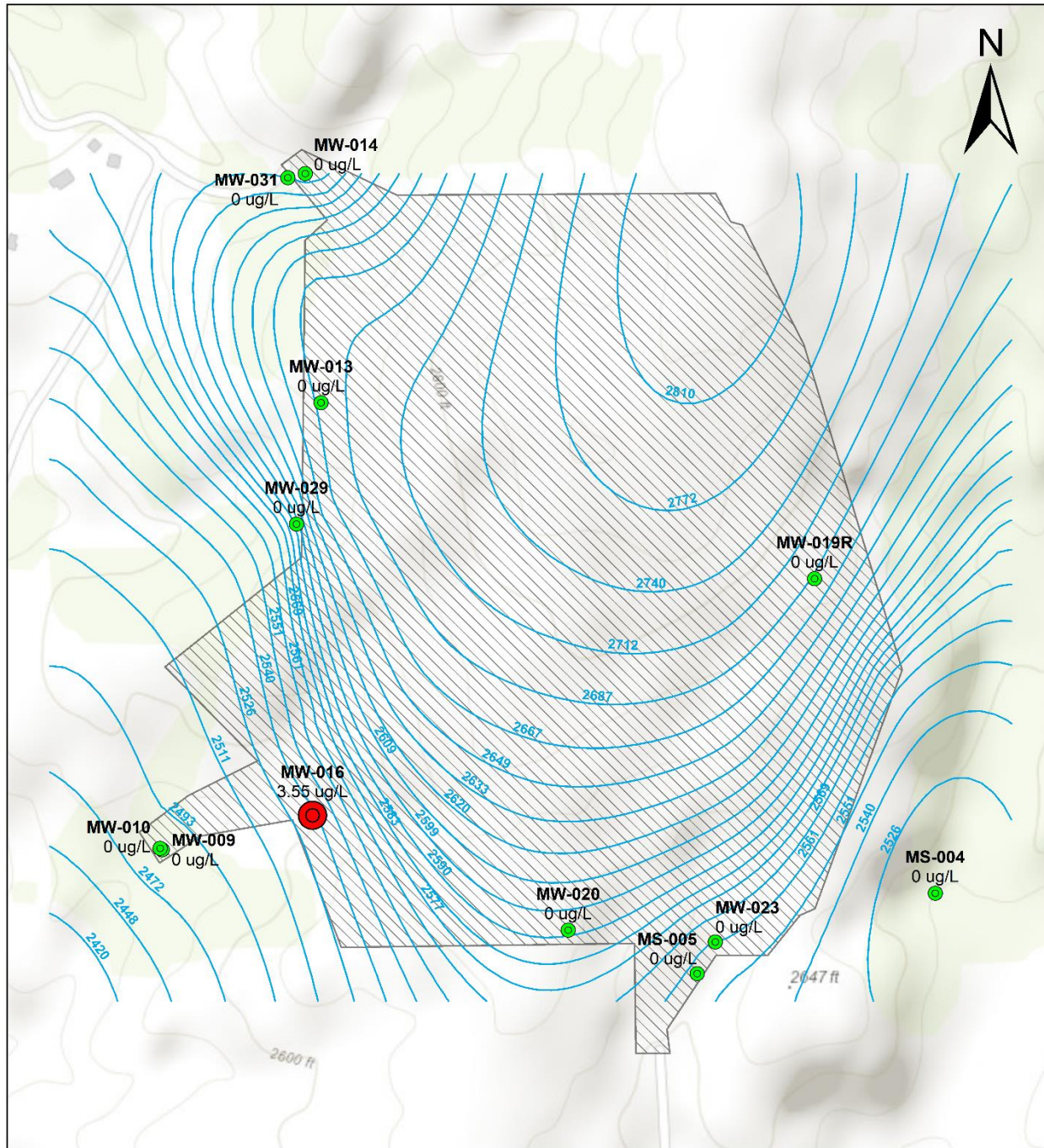


Figure 2-7: 1,2-Dichloroethane detections/exceedance map

VOC detections/exceedance maps – 1,2-Dichloropropane

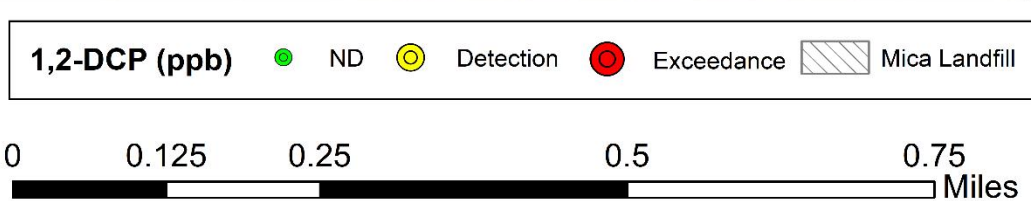
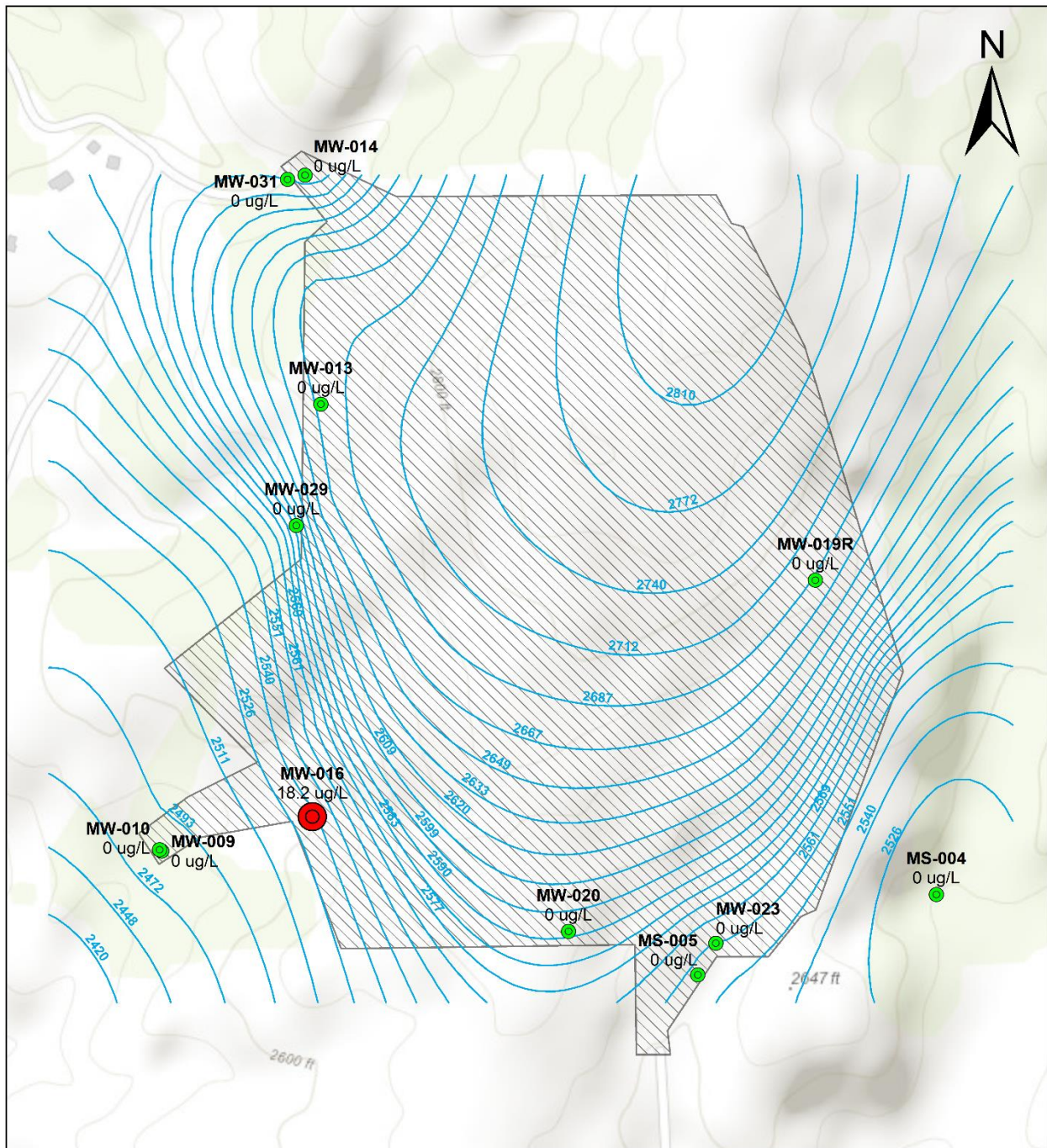
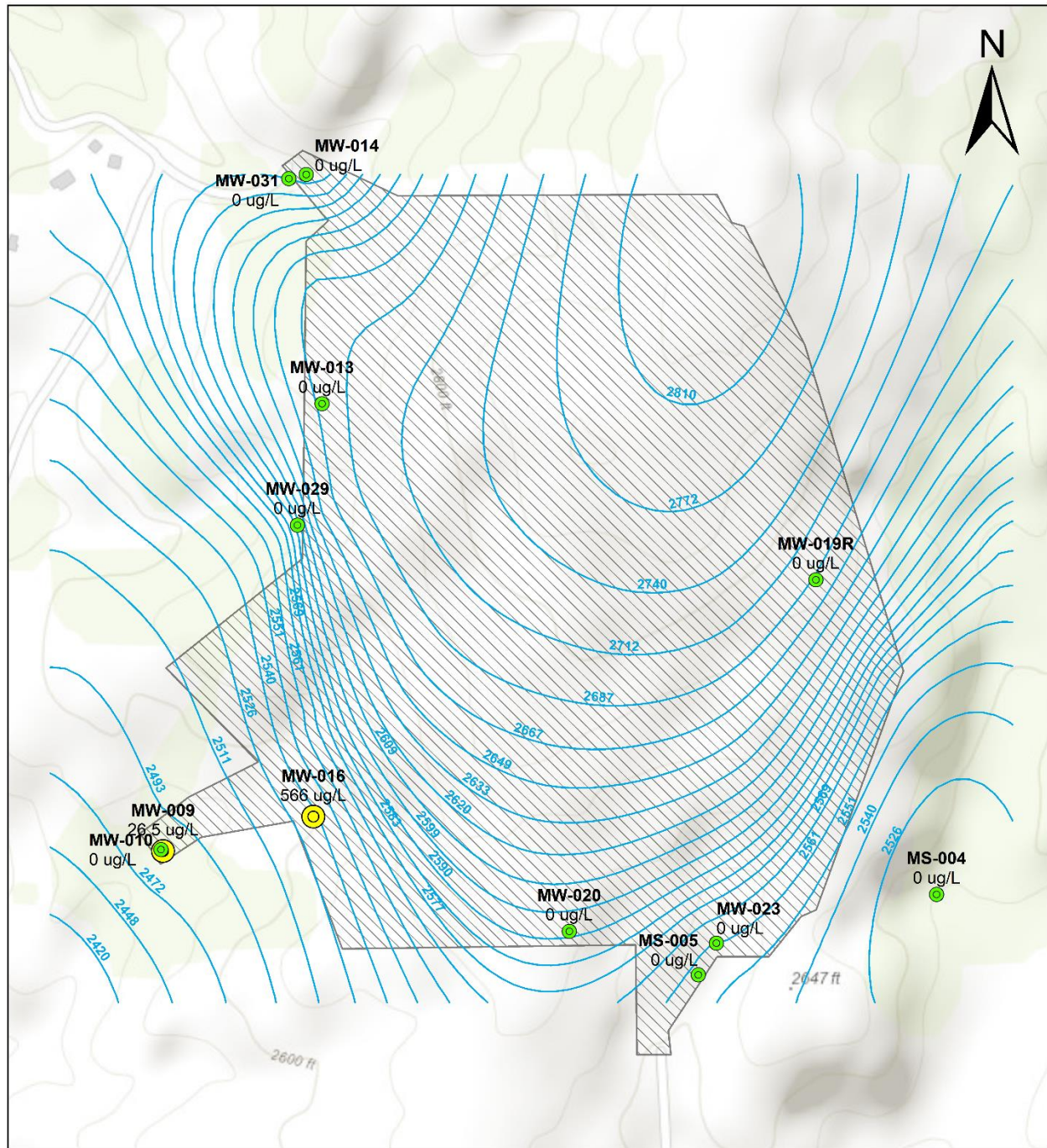


Figure 2-8: 1,2-Dichloropropane detections/exceedance map

VOC detections/exceedance maps - Acetone



Acetone (ppb)



ND



Detection



Exceedance



Mica Landfill

0 0.125 0.25 0.5 0.75 Miles

Figure 2-9: Acetone detections/exceedance map

VOC detections/exceedance maps – Benzene

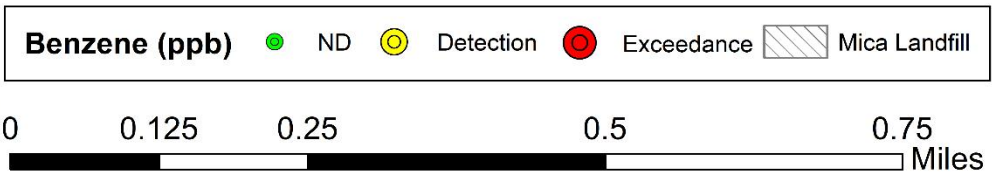
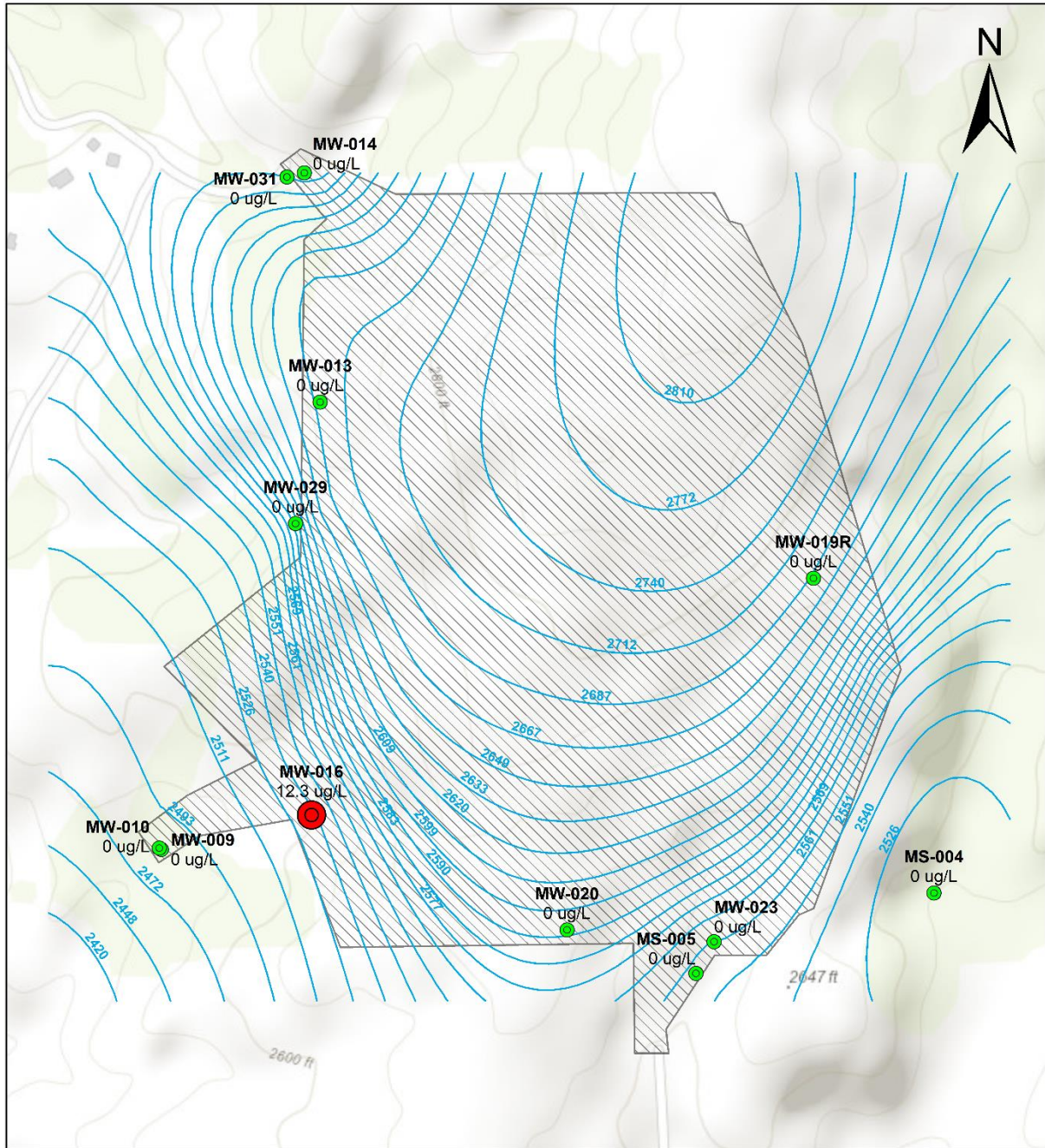


Figure 2-10: Benzene detections/exceedance map

VOC detections/exceedance maps – Vinyl chloride

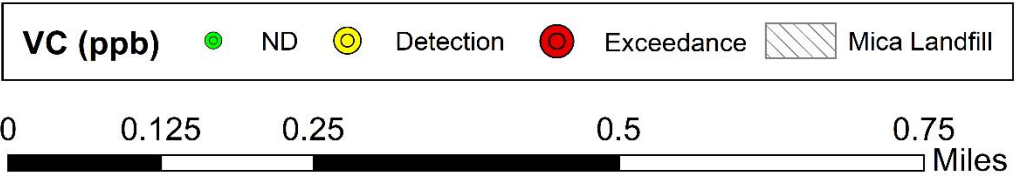
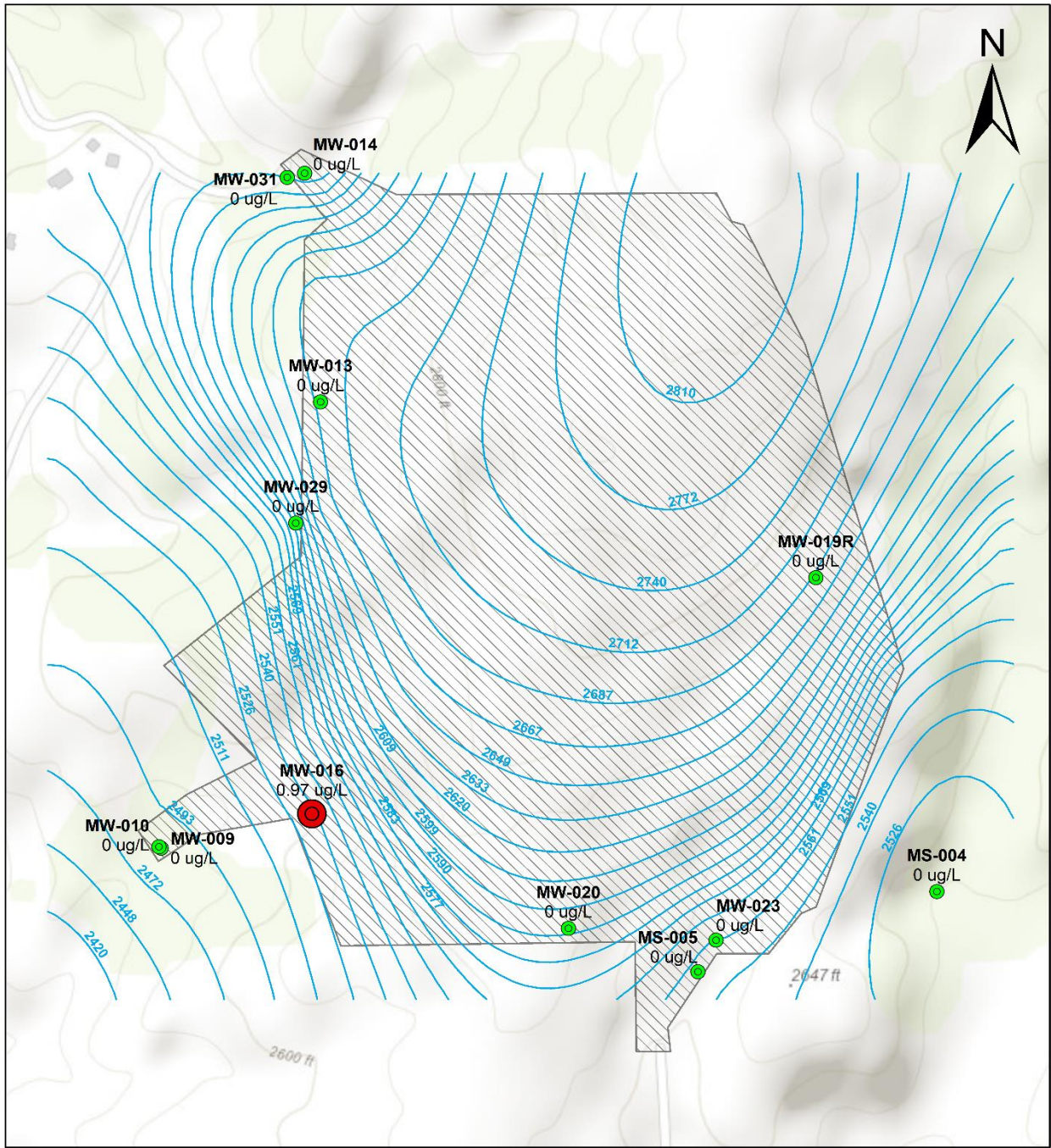


Figure 2-11: Vinyl chloride detections/exceedance map

Inorganics detections/exceedance maps – Arsenic

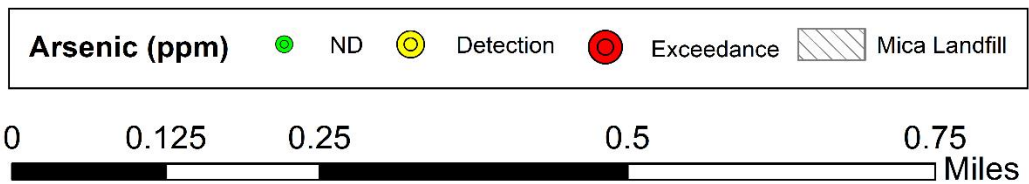
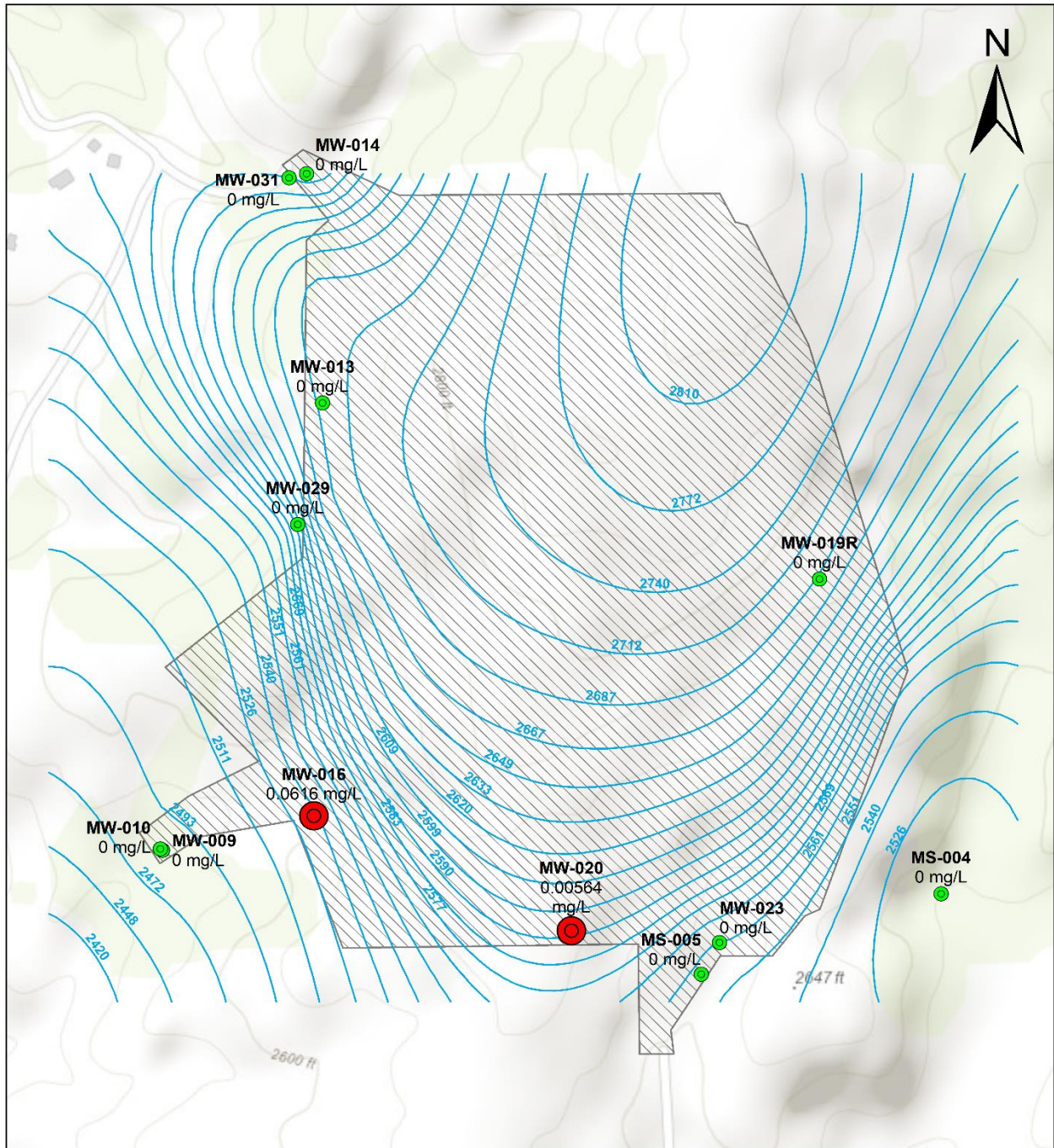


Figure 2-12: Arsenic detections/exceedance map

Inorganics detections/exceedance maps – Barium

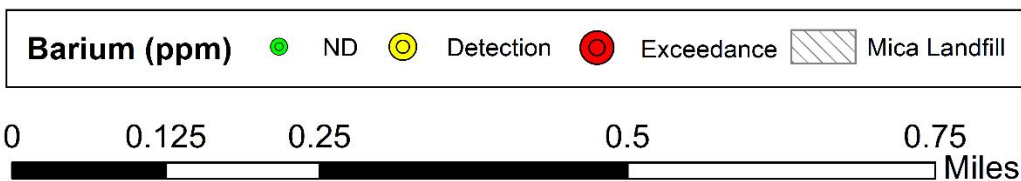
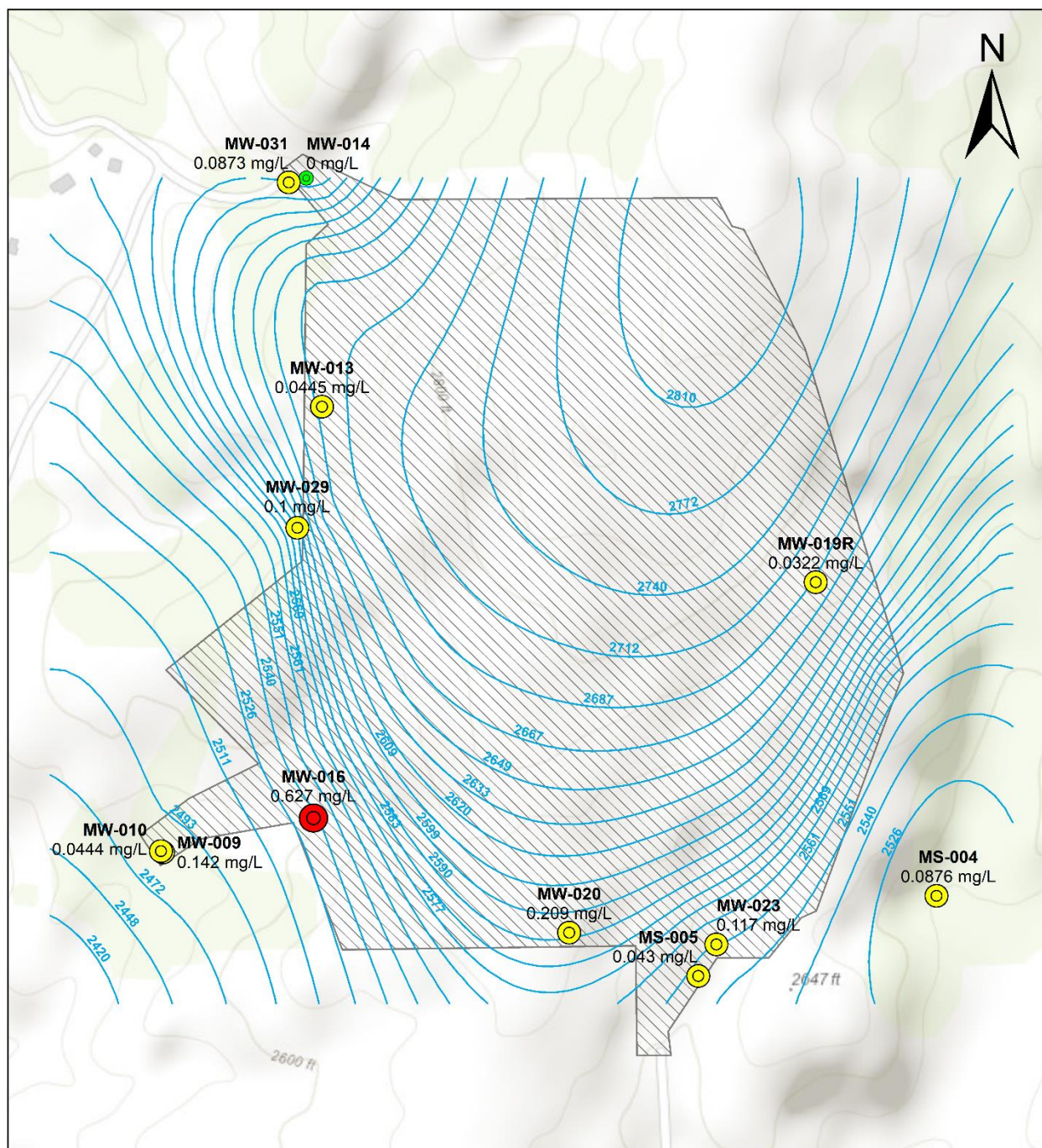


Figure 2-13: Barium detections/exceedance map

Inorganics detections/exceedance maps – Lead

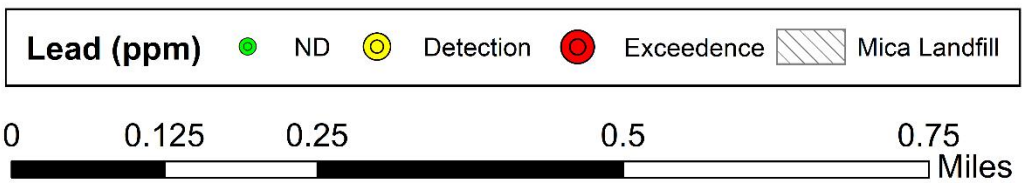
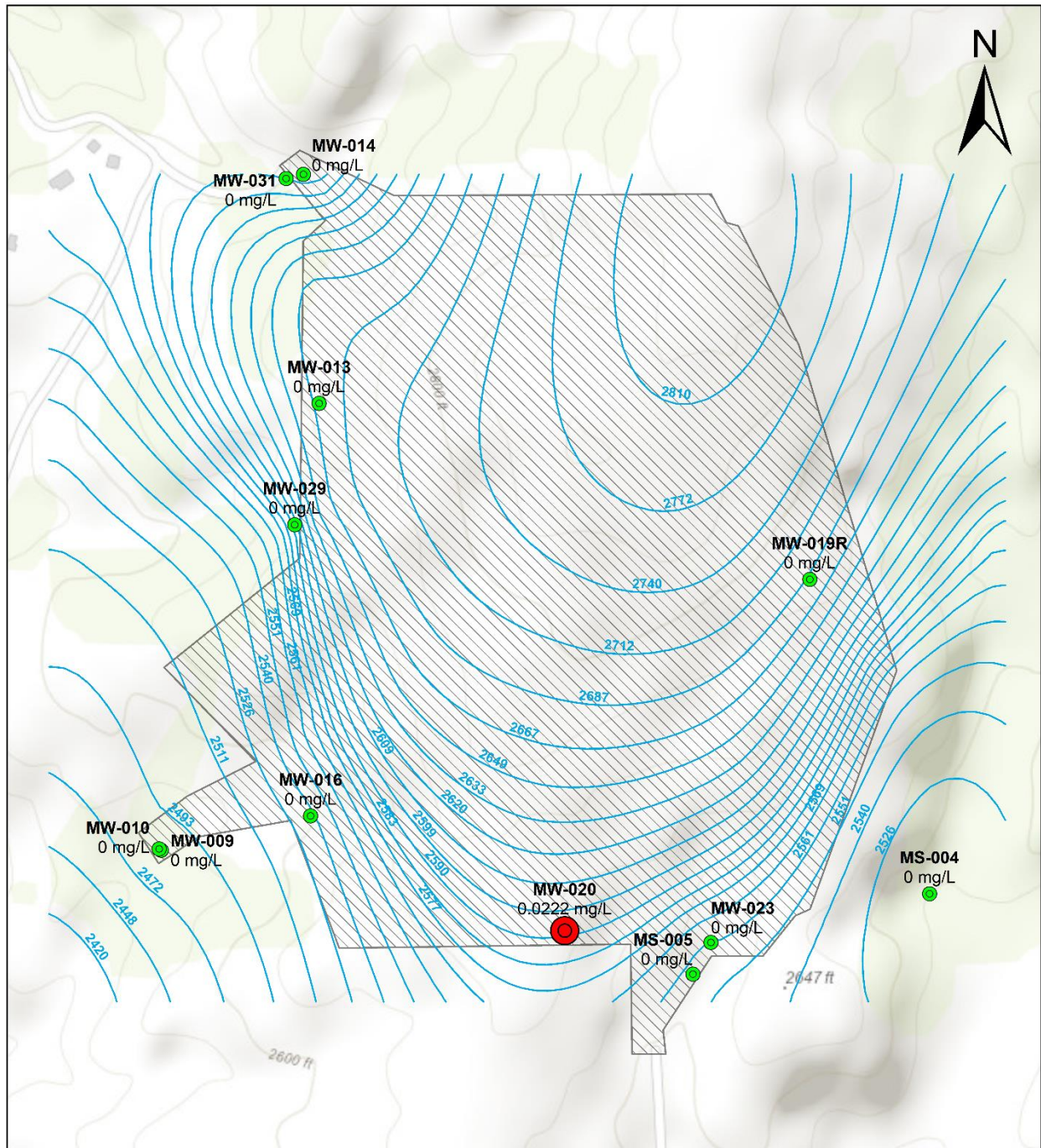


Figure 2-14: Lead detections/exceedance map

Conventional detections/exceedance maps – Nitrate

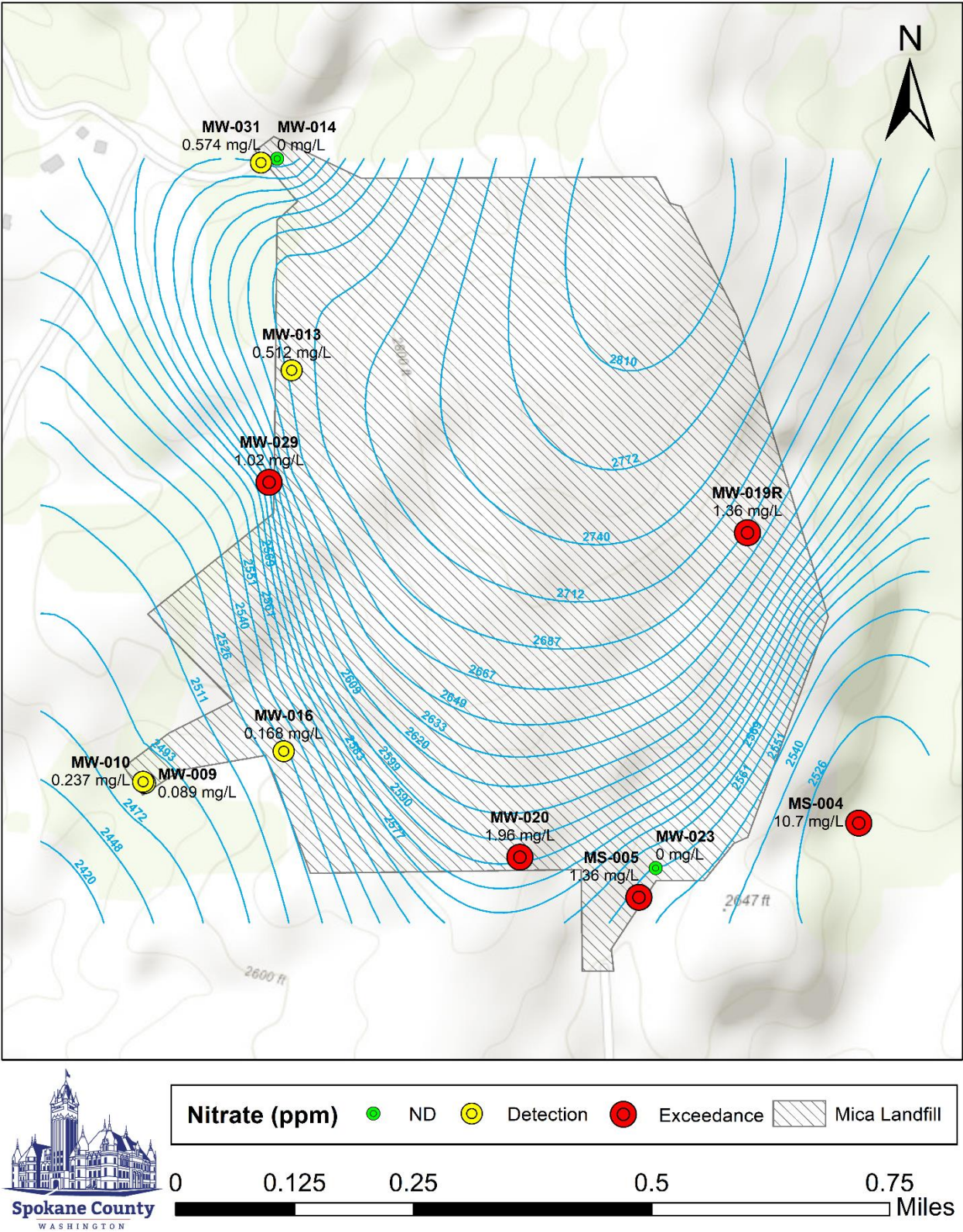


Figure 2-15: Nitrate detections/exceedance map

Mica Landfill Trend Analysis – 2023

Table 2-8: Mica Landfill Trend Analysis

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															

▲	= Increasing trend
▼	= Decreasing trend
	= Criteria exceedances for this reporting period

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

Trend Analysis – Summary of changes from 2022 to 2023:

StationID	Drainage	Analyte	Summary of change
MW-016	SW	1,2-DCP	Increased: no statistically significant trend to statistically significant increasing trend
MW-019R	SE	cis-1,2-DCE	Increased: statistically significant decreasing trend to no statistically significant trend
MW-031	NW	Ba	Increased: statistically significant decreasing trend to no statistically significant trend
MW-031	NW	TOC	Decreased: no statistically significant trend to a statistically significant decreasing trend

NW Drainage Monitoring Wells: VOCs/SVOCs Time Series Graphs

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

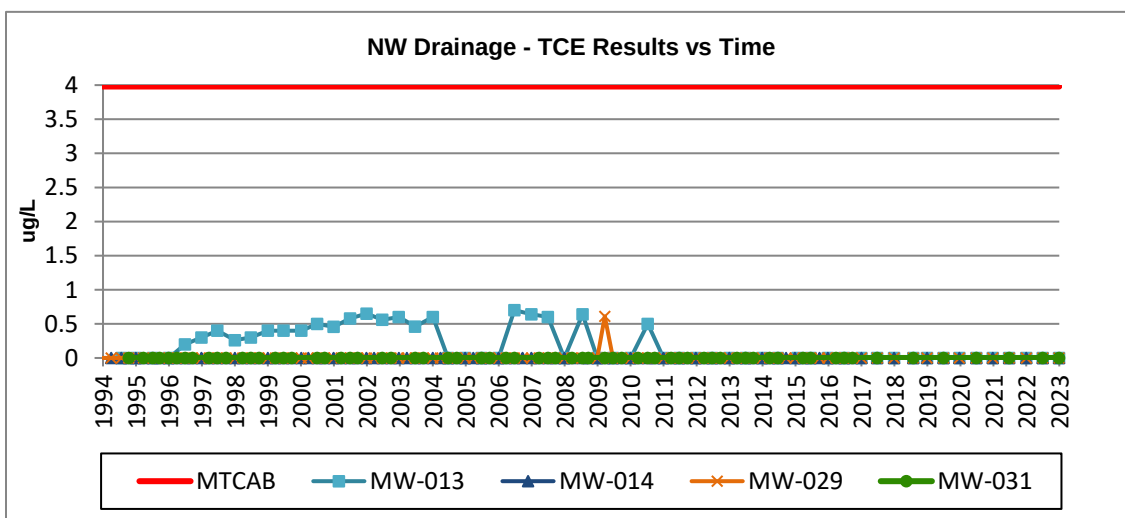
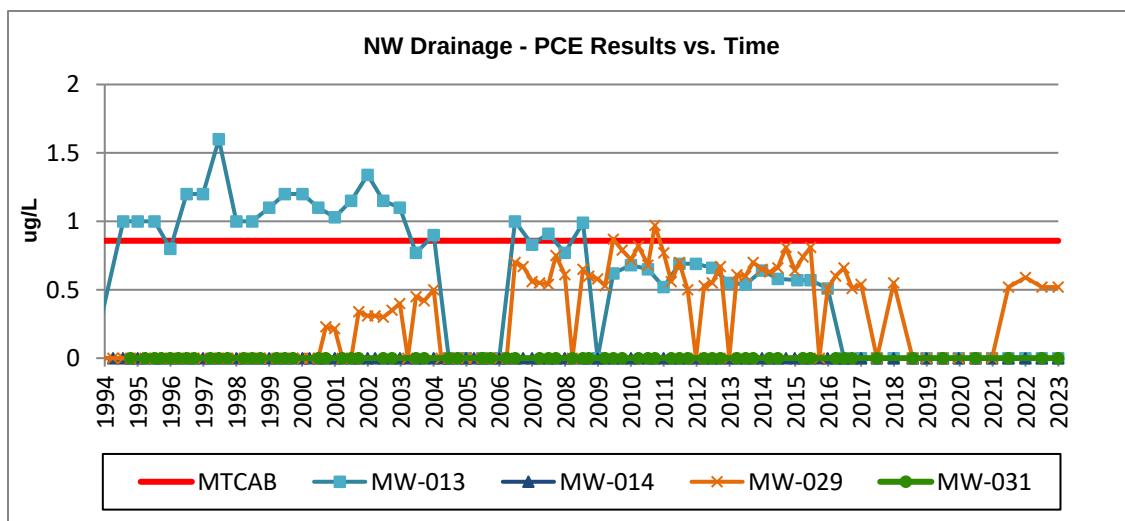
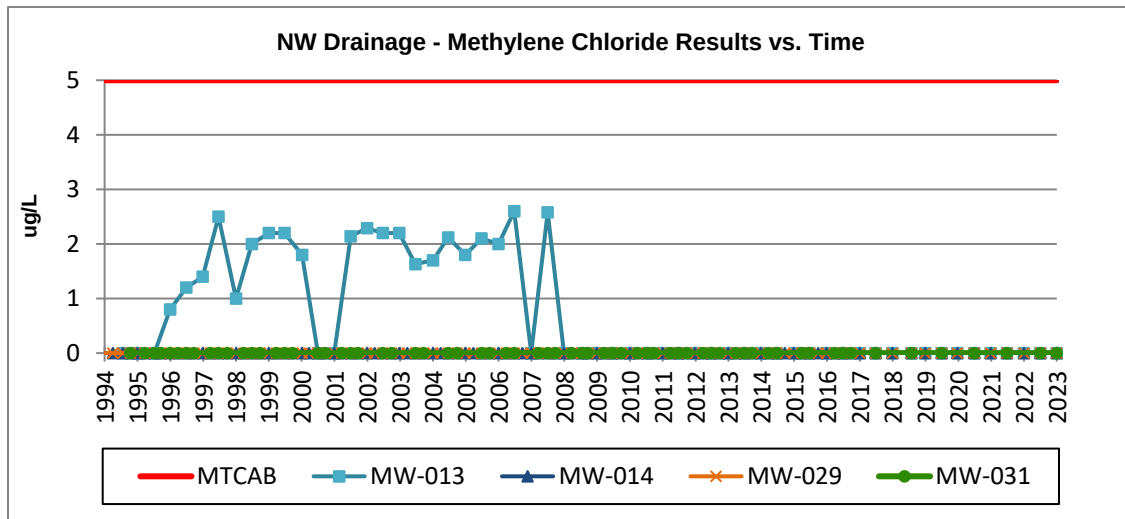
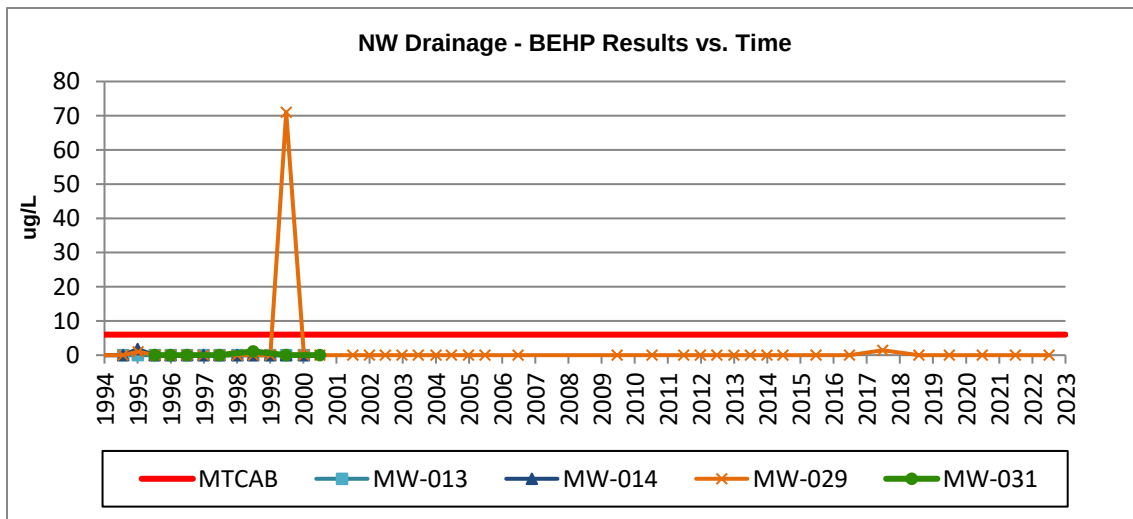
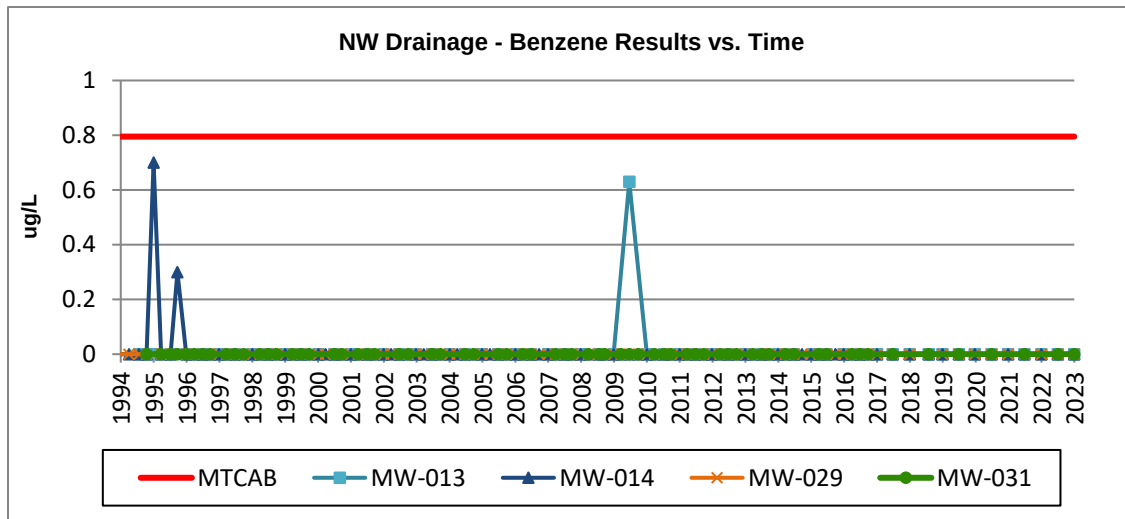
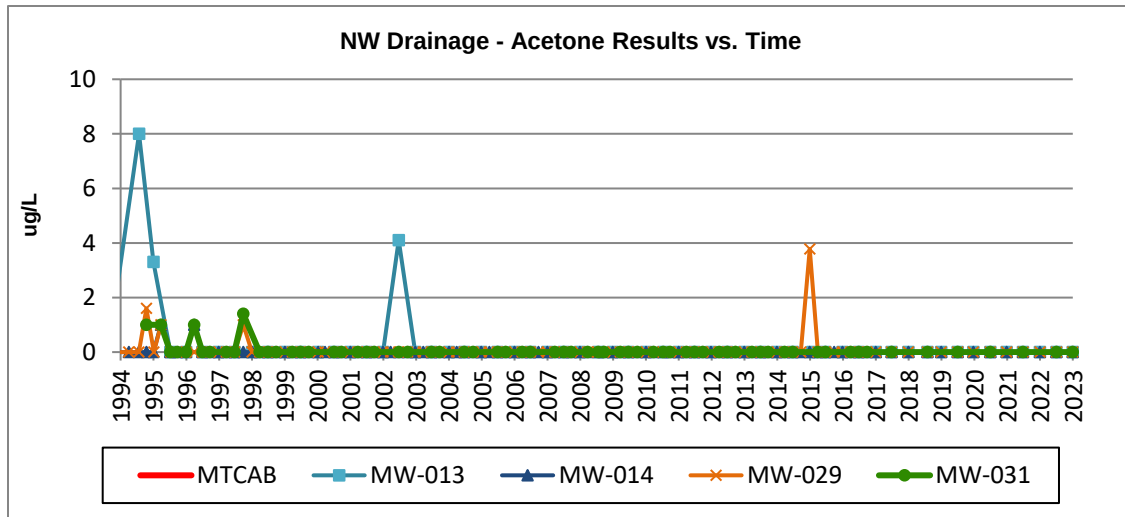


Figure 2-17: NW Wells – VOCs / SVOCs Concentration Graphs (cont.)



NW Drainage Monitoring Wells: Inorganics Time Series Graphs

Figure 2-18: NW Wells – Inorganics Concentration Graphs

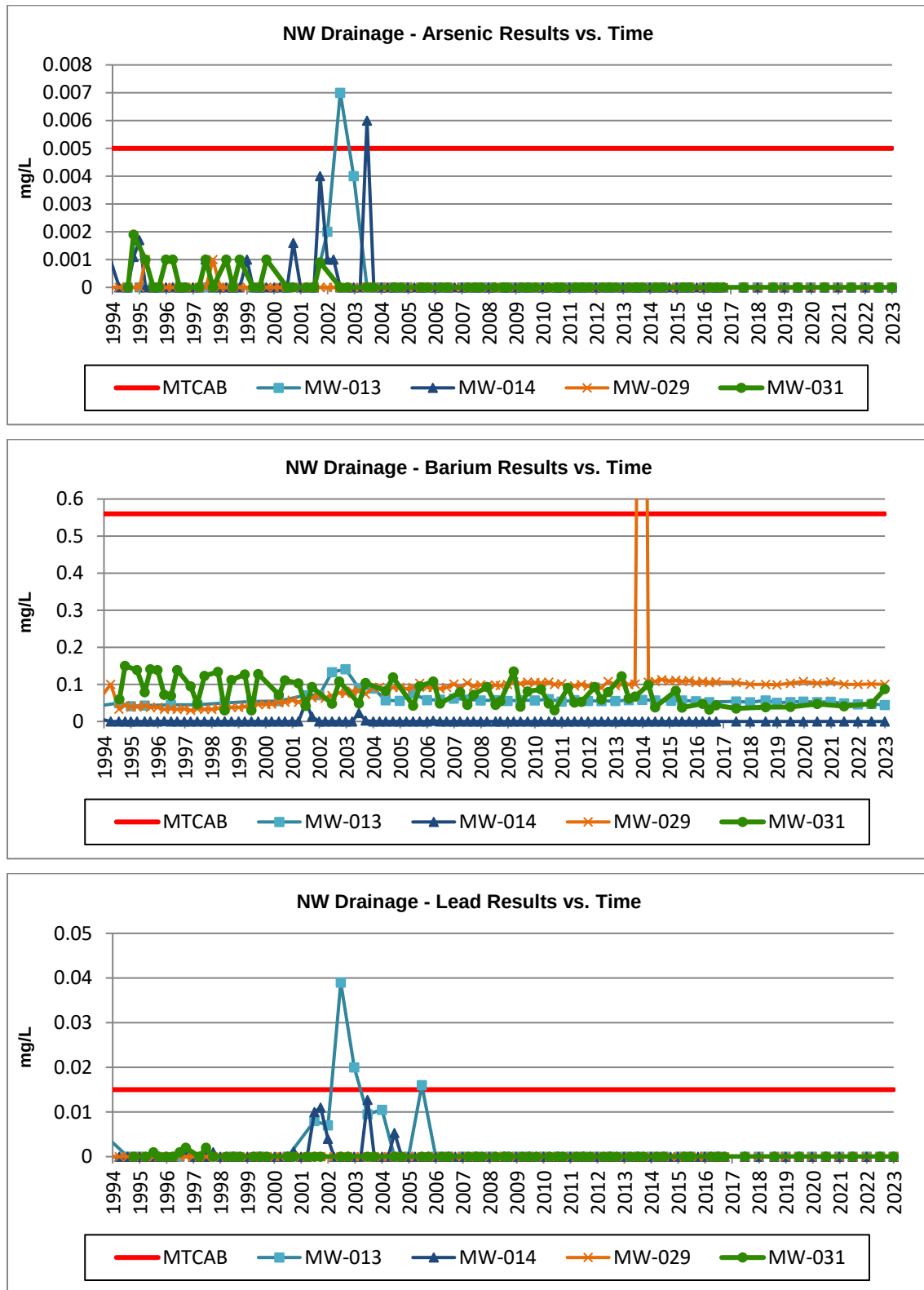
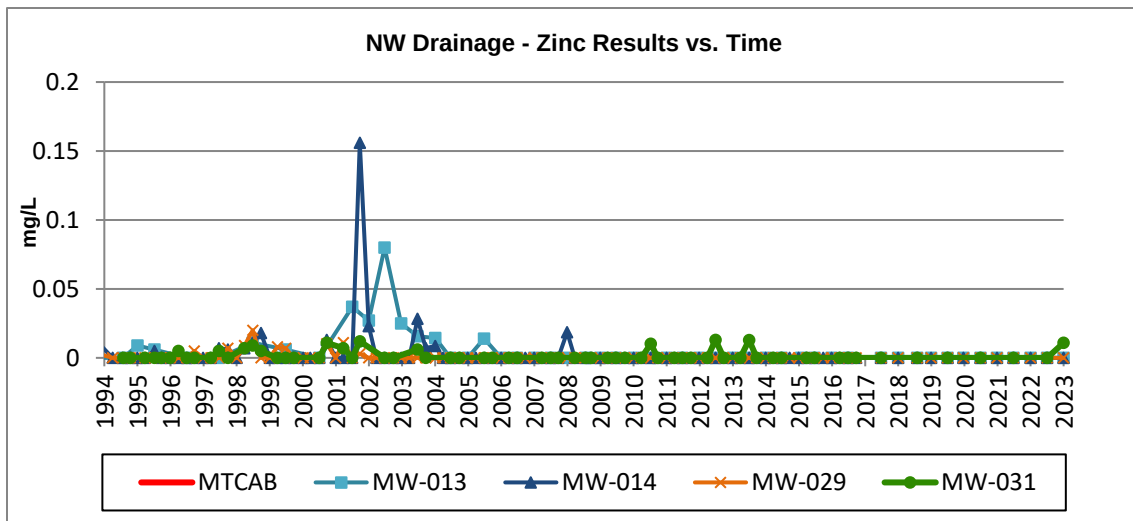
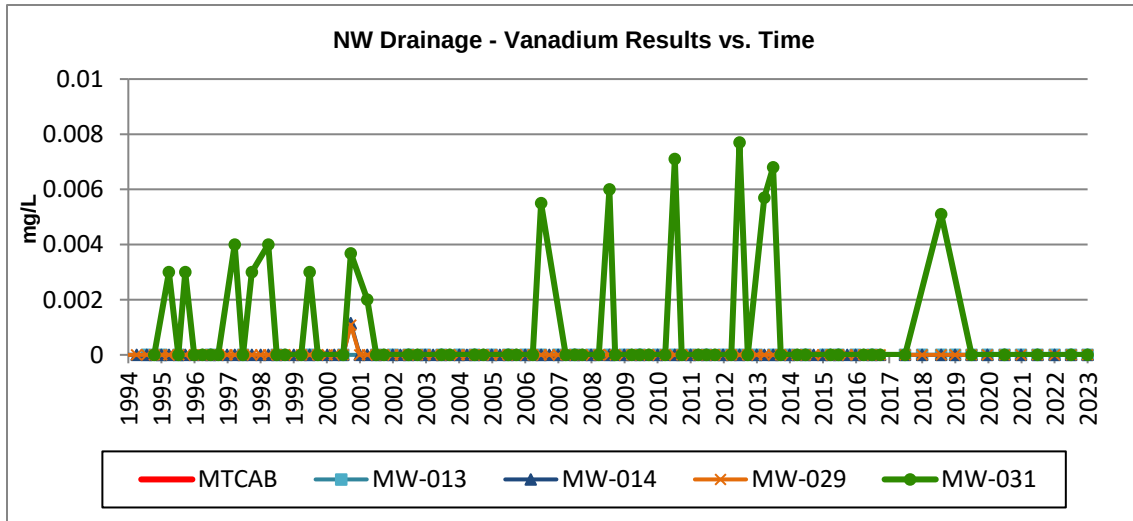
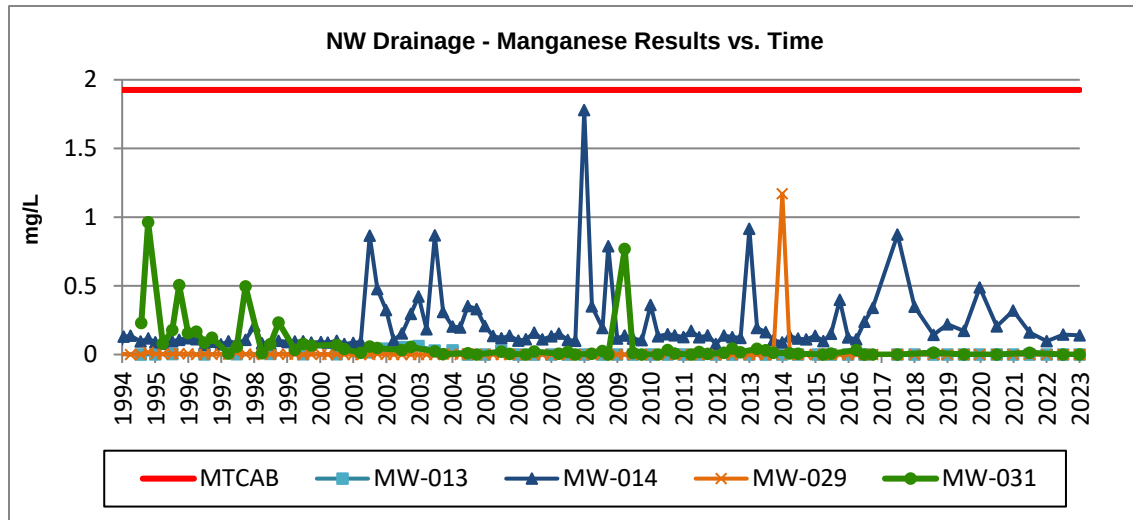


Figure 2-19: NW Wells – Inorganics Concentration Graphs (cont.)



NW Drainage Monitoring Wells: Conventional Time Series Graphs

Figure 2-20: NW Wells – Conventional Concentration Graphs

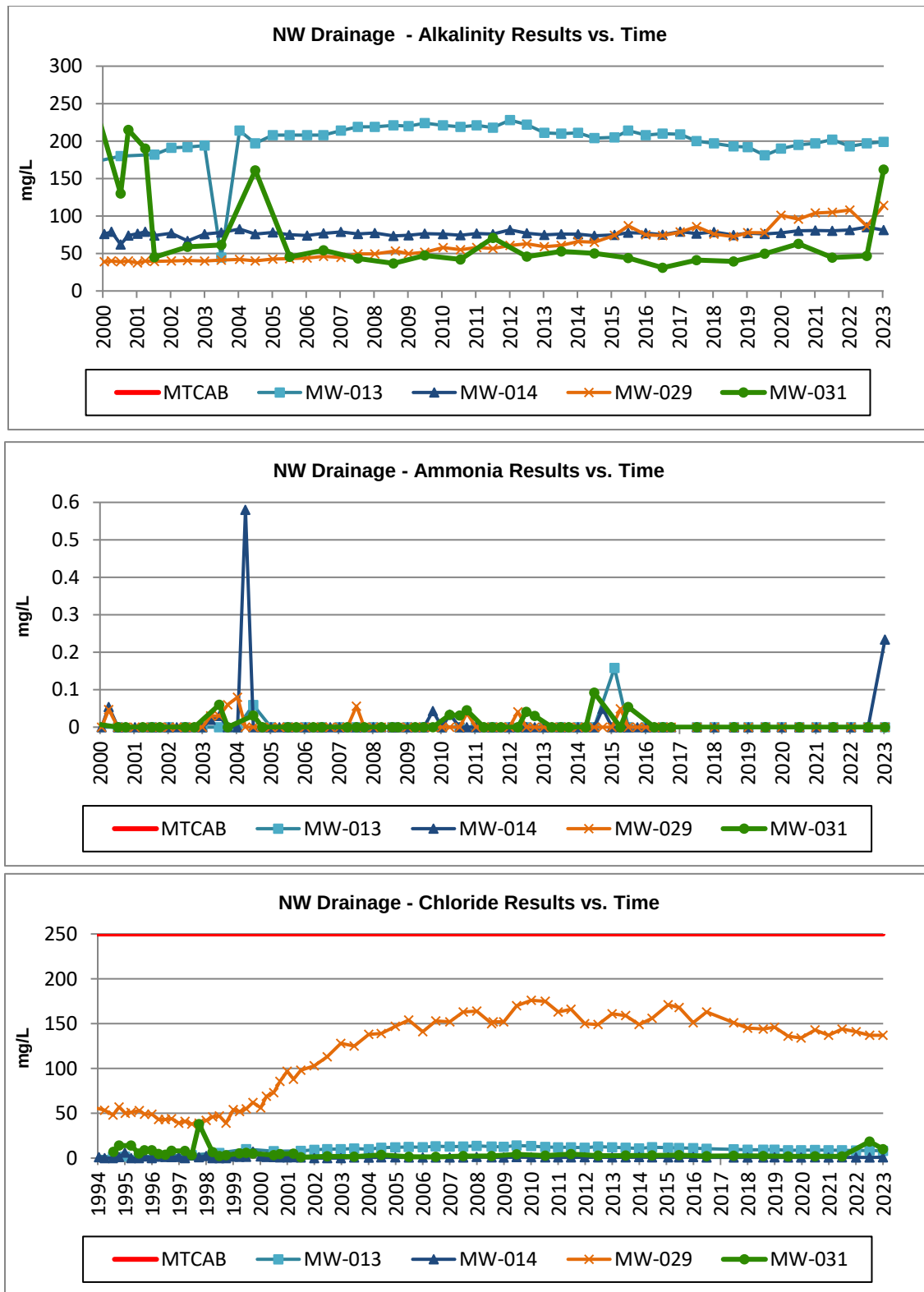


Figure 2-21: NW Wells – Conventional Concentration Graphs (cont.)

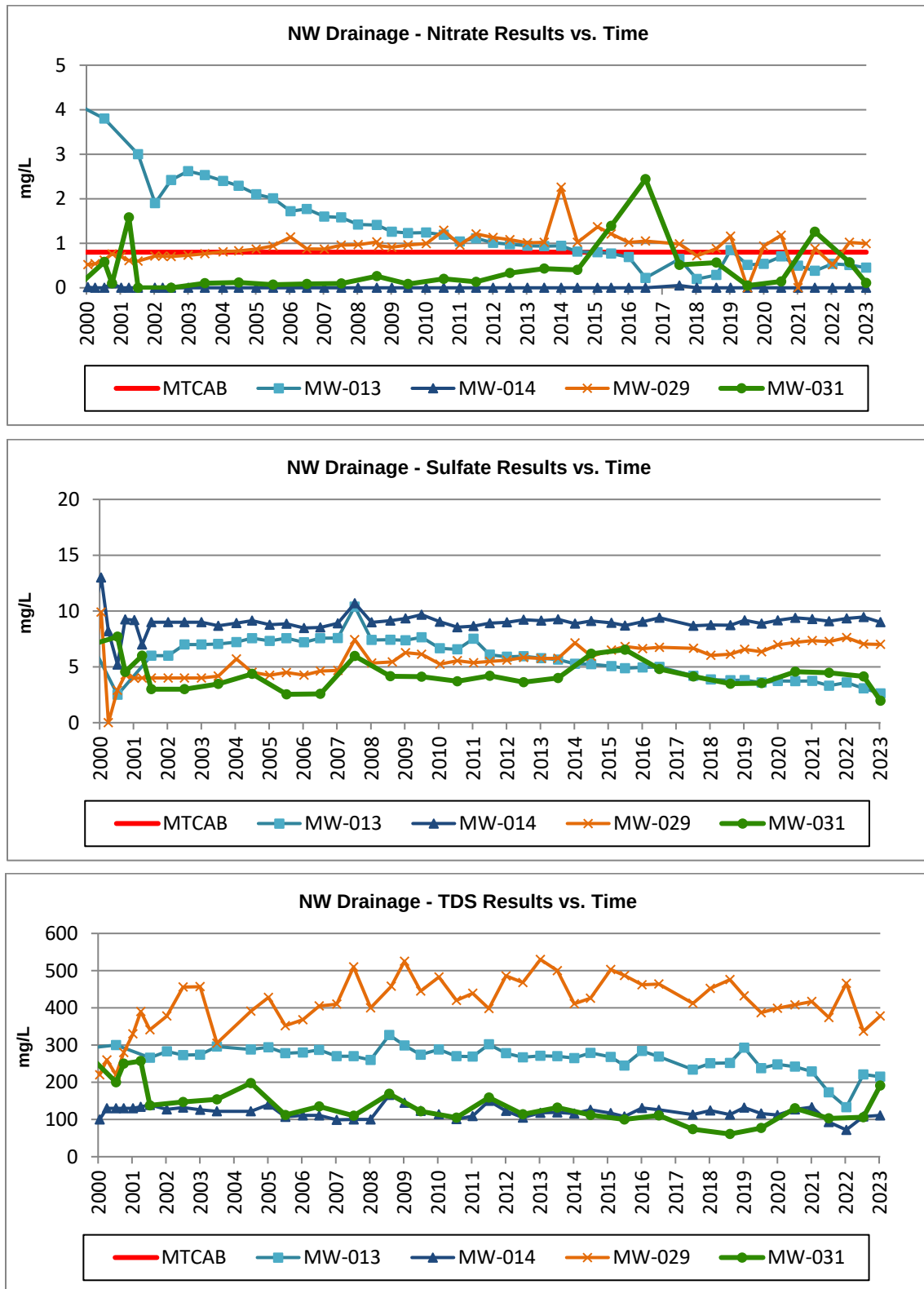
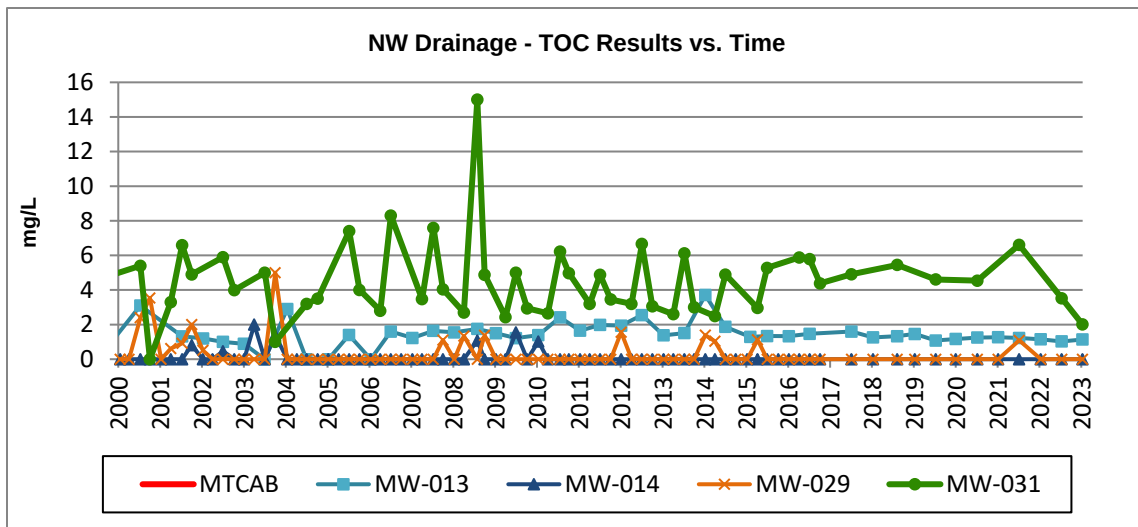


Figure 2-22: NW Wells – Conventional Concentration Graphs (cont.)



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

StationID	DrainageArea	Analyte	2018 Results	2022 Results	2023 Results	5-Year Difference	1-Year Difference	Units
MW-013	Northwest	1,2-DCP	0	0	0	0	0	ug/L
MW-013	Northwest	Acetone	0	0	0	0	0	ug/L
MW-013	Northwest	ALK	197	193	199	2	6	mg/L as Ca
MW-013	Northwest	As	0	0	0	0	0	mg/L
MW-013	Northwest	Ba	0.0519	0.0464	0.0445	-0.0074	-0.0019	mg/L
MW-013	Northwest	Benzene	0	0	0	0	0	ug/L
MW-013	Northwest	Cl	9.33	8.46	8.05	-1.28	-0.41	mg/L
MW-013	Northwest	DCA	1.14	0.82	0.73	-0.41	-0.09	ug/L
MW-013	Northwest	MC	0	0	0	0	0	ug/L
MW-013	Northwest	Mn	0	0	0	0	0	mg/L
MW-013	Northwest	N-NH3	0	0	0	0	0	mg/L
MW-013	Northwest	N-NO3	0.197	0.538	0.451	0.254	-0.087	mg/L
MW-013	Northwest	Pb	0	0	0	0	0	mg/L
MW-013	Northwest	PCE	0	0	0	0	0	ug/L
MW-013	Northwest	SO4	3.87	3.6	2.62	-1.25	-0.98	mg/L
MW-013	Northwest	TCE	0	0	0	0	0	ug/L
MW-013	Northwest	TDS	251	133	215	-36	82	mg/L
MW-013	Northwest	TOC	1.26	1.15	1.14	-0.12	-0.01	mg/L
MW-013	Northwest	Toluene	0	0	0	0	0	ug/L
MW-013	Northwest	VC	0	0	0	0	0	ug/L
MW-013	Northwest	Zn	0	0	0	0	0	mg/L
MW-014	Northwest	1,2-DCP	0	0	0	0	0	ug/L
MW-014	Northwest	Acetone	0	0	0	0	0	ug/L
MW-014	Northwest	ALK	78.7	81.3	81.2	2.5	-0.1	mg/L as Ca
MW-014	Northwest	As	0	0	0	0	0	mg/L
MW-014	Northwest	Ba	0	0	0	0	0	mg/L
MW-014	Northwest	Benzene	0	0	0	0	0	ug/L
MW-014	Northwest	Cl	0.75	0.76	0.86	0.11	0.1	mg/L
MW-014	Northwest	DCA	0	0	0	0	0	ug/L
MW-014	Northwest	MC	0	0	0	0	0	ug/L
MW-014	Northwest	Mn	0.348	0.097	0.14	-0.208	0.043	mg/L
MW-014	Northwest	N-NH3	0	0	0.234	0.234	0.234	mg/L
MW-014	Northwest	N-NO3	0	0	0	0	0	mg/L
MW-014	Northwest	Pb	0	0	0	0	0	mg/L
MW-014	Northwest	PCE	0	0	0	0	0	ug/L
MW-014	Northwest	SO4	8.75	9.34	9	0.25	-0.34	mg/L
MW-014	Northwest	TCE	0	0	0	0	0	ug/L
MW-014	Northwest	TDS	124	72	111	-13	39	mg/L
MW-014	Northwest	TOC	0	0	0	0	0	mg/L
MW-014	Northwest	Toluene	0	0	0	0	0	ug/L
MW-014	Northwest	VC	0	0	0	0	0	ug/L
MW-014	Northwest	Zn	0	0	0	0	0	mg/L
MW-029	Northwest	1,2-DCP	0	0	0	0	0	ug/L

StationID	DrainageArea	Analyte	2018 Results	2022 Results	2023 Results	5-Year Difference	1-Year Difference	Units
MW-029	Northwest	Acetone	0	0	0	0	0	ug/L
MW-029	Northwest	ALK	75.9	108	114	38.1	6	mg/L as Ca
MW-029	Northwest	As	0	0	0	0	0	mg/L
MW-029	Northwest	Ba	0.1	0.1	0.1	0	0	mg/L
MW-029	Northwest	Benzene	0	0	0	0	0	ug/L
MW-029	Northwest	Cl	145	141	137	-8	-4	mg/L
MW-029	Northwest	DCA	0	0	0	0	0	ug/L
MW-029	Northwest	MC	0	0	0	0	0	ug/L
MW-029	Northwest	Mn	0	0	0	0	0	mg/L
MW-029	Northwest	N-NH3	0	0	0	0	0	mg/L
MW-029	Northwest	N-NO3	0.718	0.516	0.992	0.274	0.476	mg/L
MW-029	Northwest	Pb	0	0	0	0	0	mg/L
MW-029	Northwest	PCE	0.55	0.59	0.52	-0.03	-0.07	ug/L
MW-029	Northwest	SO4	6.03	7.62	7.01	0.98	-0.61	mg/L
MW-029	Northwest	TCE	0	0	0	0	0	ug/L
MW-029	Northwest	TDS	452	466	378	-74	-88	mg/L
MW-029	Northwest	TOC	0	0	0	0	0	mg/L
MW-029	Northwest	Toluene	0	0	0	0	0	ug/L
MW-029	Northwest	VC	0	0	0	0	0	ug/L
MW-029	Northwest	Zn	0	0	0	0	0	mg/L
MW-031	Northwest	1,2-DCP	0	0	0	0	0	ug/L
MW-031	Northwest	Acetone	0	0	0	0	0	ug/L
MW-031	Northwest	ALK	41.2	44.5	46.8	5.6	2.3	mg/L as Ca
MW-031	Northwest	As	0	0	0	0	0	mg/L
MW-031	Northwest	Ba	0.0351	0.0411	0.0478	0.0127	0.0067	mg/L
MW-031	Northwest	Benzene	0	0	0	0	0	ug/L
MW-031	Northwest	Cl	2.56	1.9	18.5	15.94	16.6	mg/L
MW-031	Northwest	DCA	0	0	0	0	0	ug/L
MW-031	Northwest	MC	0	0	0	0	0	ug/L
MW-031	Northwest	Mn	0	0.0129	0	0	-0.0129	mg/L
MW-031	Northwest	N-NH3	0	0	0	0	0	mg/L
MW-031	Northwest	N-NO3	0.515	1.26	0.574	0.059	-0.686	mg/L
MW-031	Northwest	Pb	0	0	0	0	0	mg/L
MW-031	Northwest	PCE	0	0	0	0	0	ug/L
MW-031	Northwest	SO4	4.14	4.47	4.14	0	-0.33	mg/L
MW-031	Northwest	TCE	0	0	0	0	0	ug/L
MW-031	Northwest	TDS	74	103	106	32	3	mg/L
MW-031	Northwest	TOC	4.91	6.61	3.52	-1.39	-3.09	mg/L
MW-031	Northwest	Toluene	0	0	0	0	0	ug/L
MW-031	Northwest	VC	0	0	0	0	0	ug/L
MW-031	Northwest	Zn	0	0	0	0	0	mg/L

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

SW Drainage Monitoring Wells: VOCs/SVOCs Time Series Graphs

Figure 2-23: SW Wells – VOCs / SVOCs Concentration Graphs

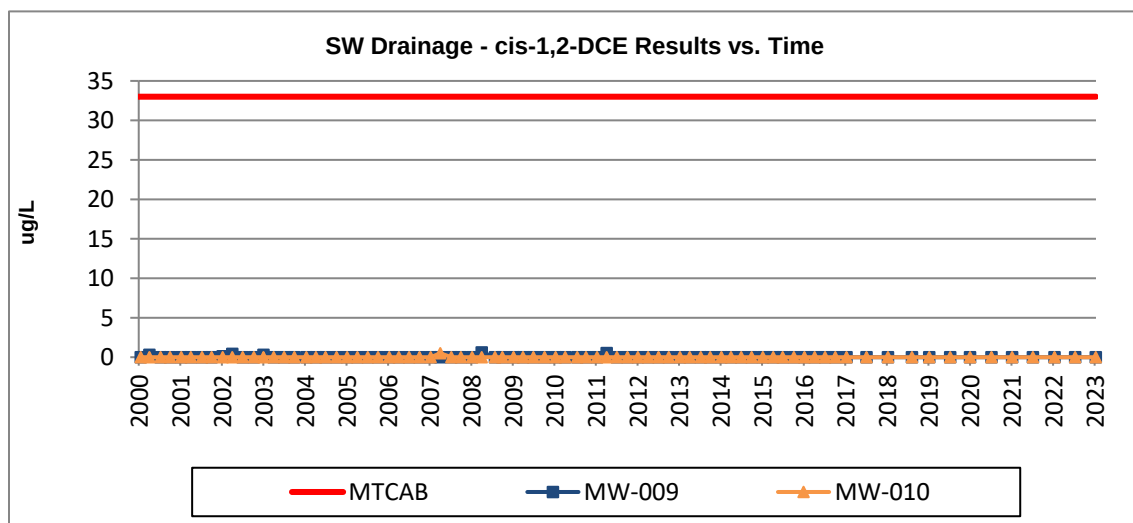
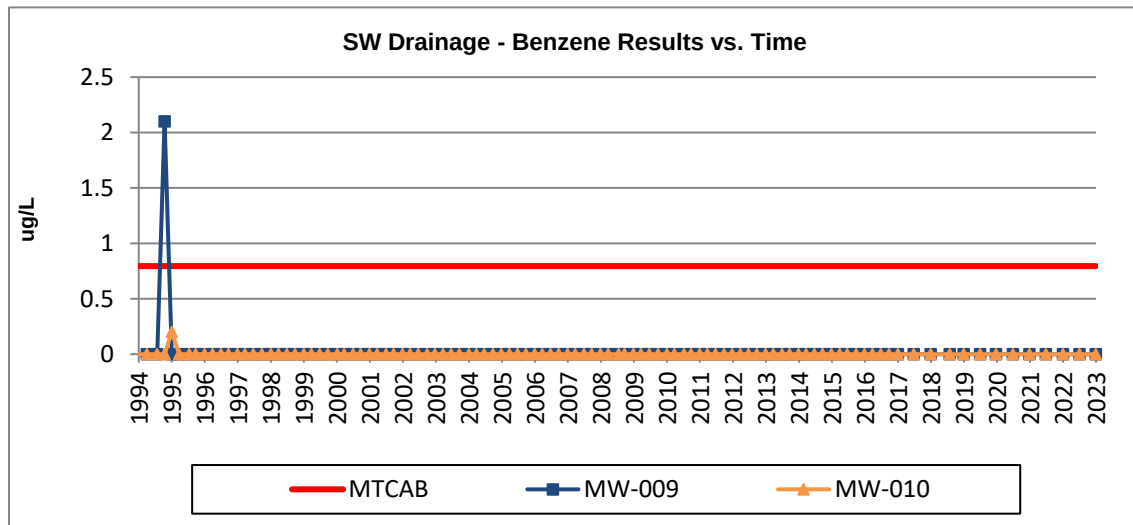
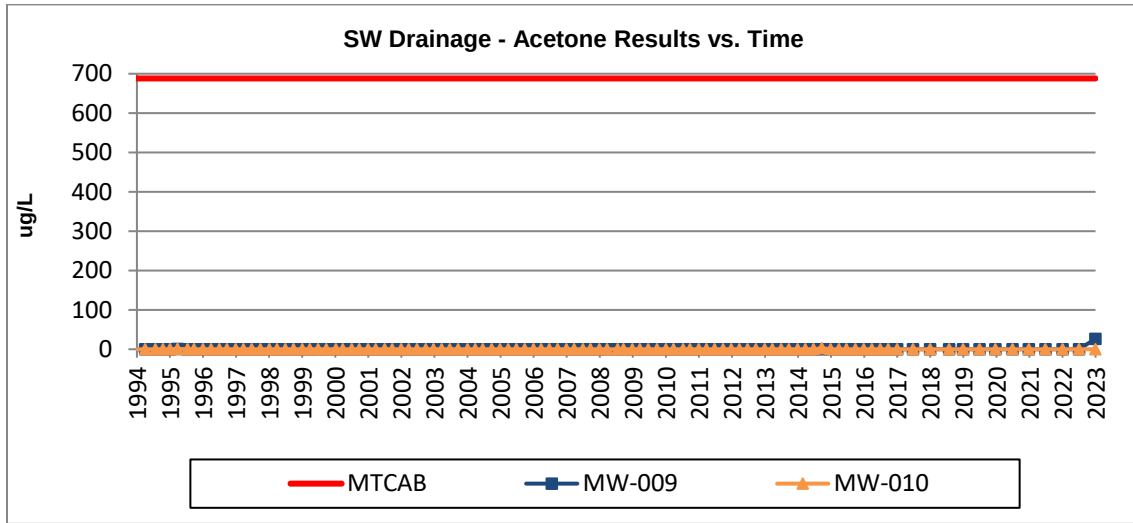


Figure 2-24: SW Wells – VOCs / SVOCs Concentration Graphs (cont.)

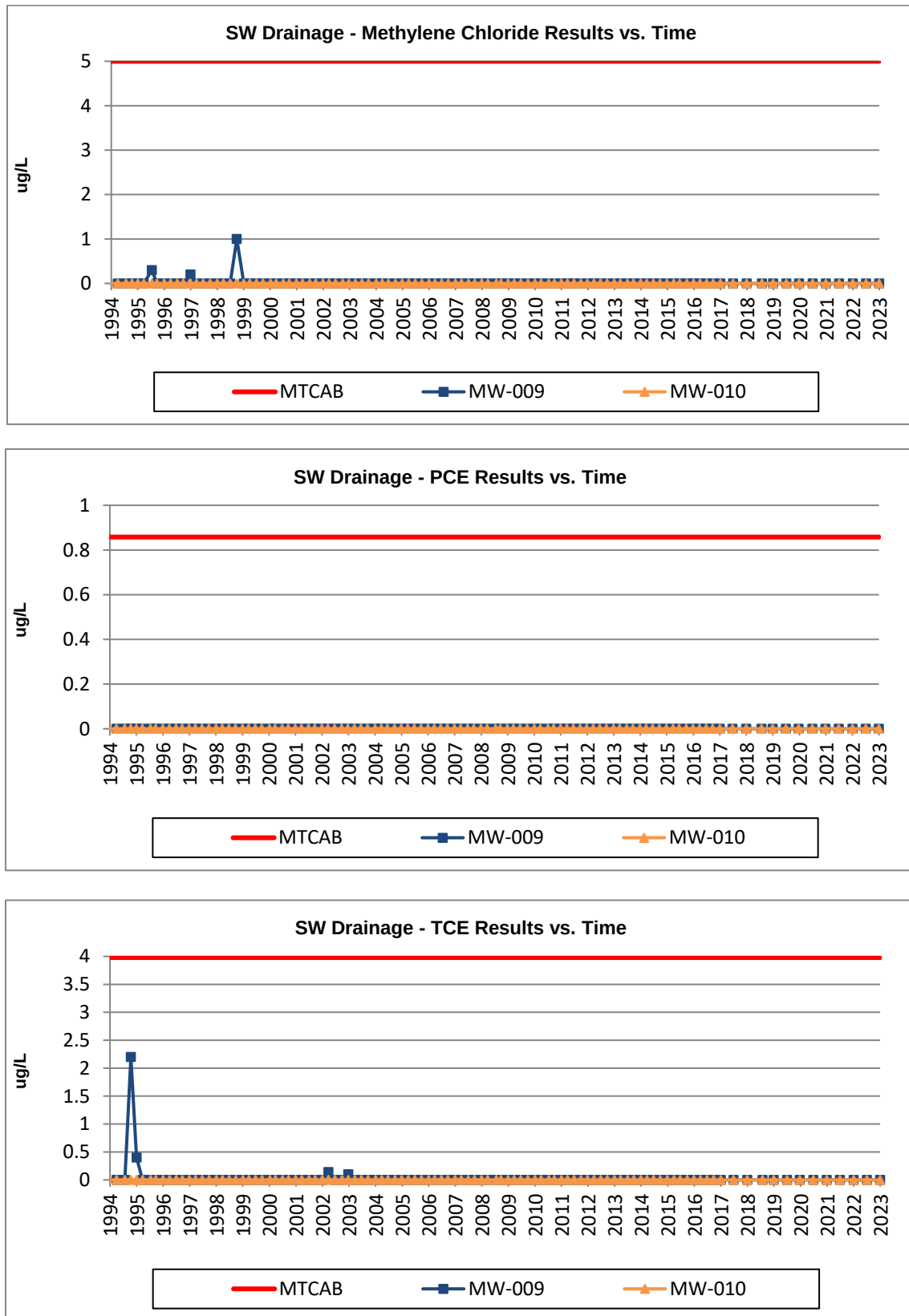


Figure 2-25: SW Wells – VOCs / SVOCs Concentration Graphs (cont.)

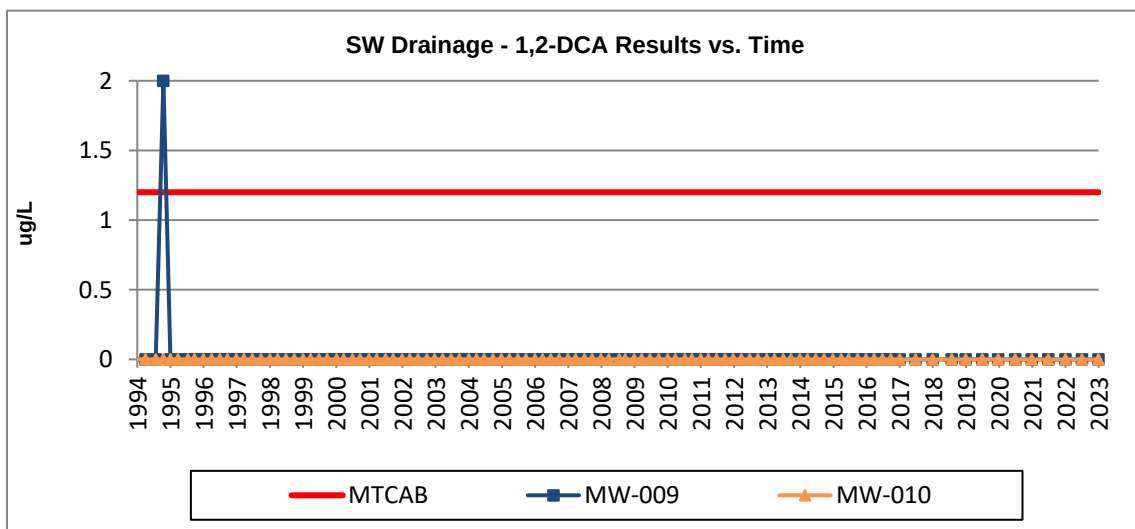
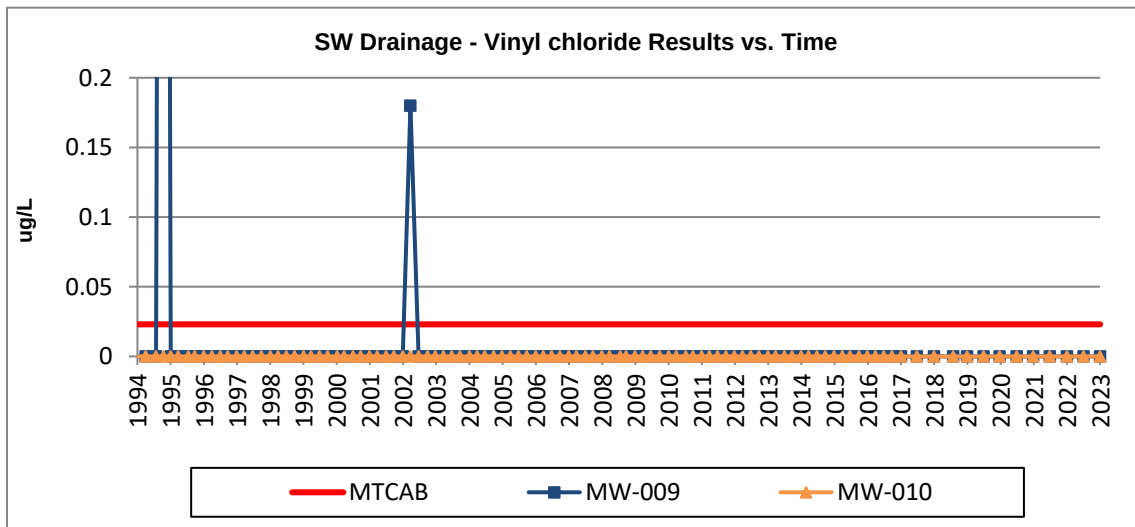
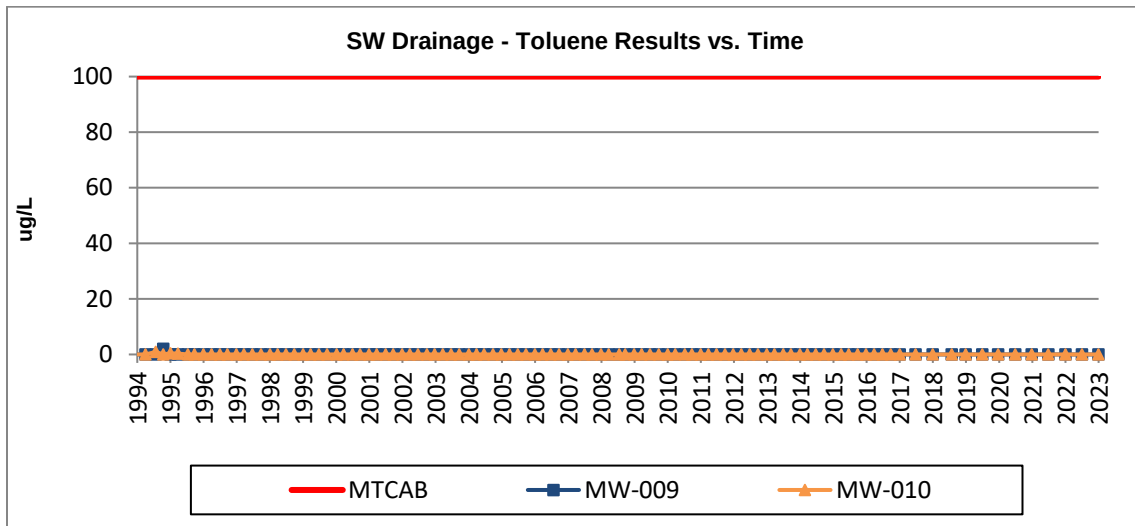
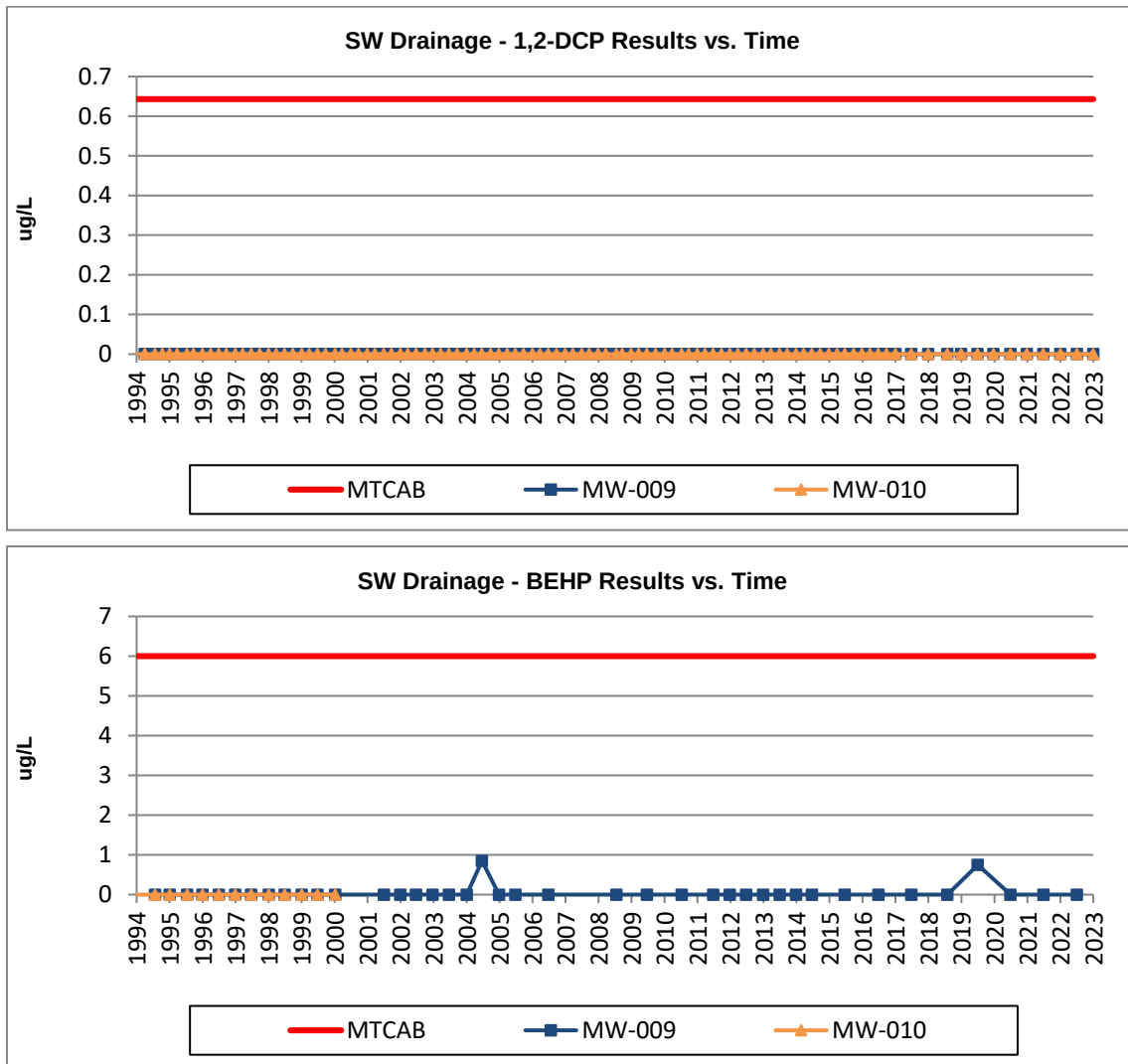


Figure 2-26: SW Wells – VOCs / SVOCs Concentration Graphs (cont.)



SW Drainage Monitoring Wells: Inorganics Time Series Graphs

Figure 2-27: SW Wells – Inorganics Concentration Graphs

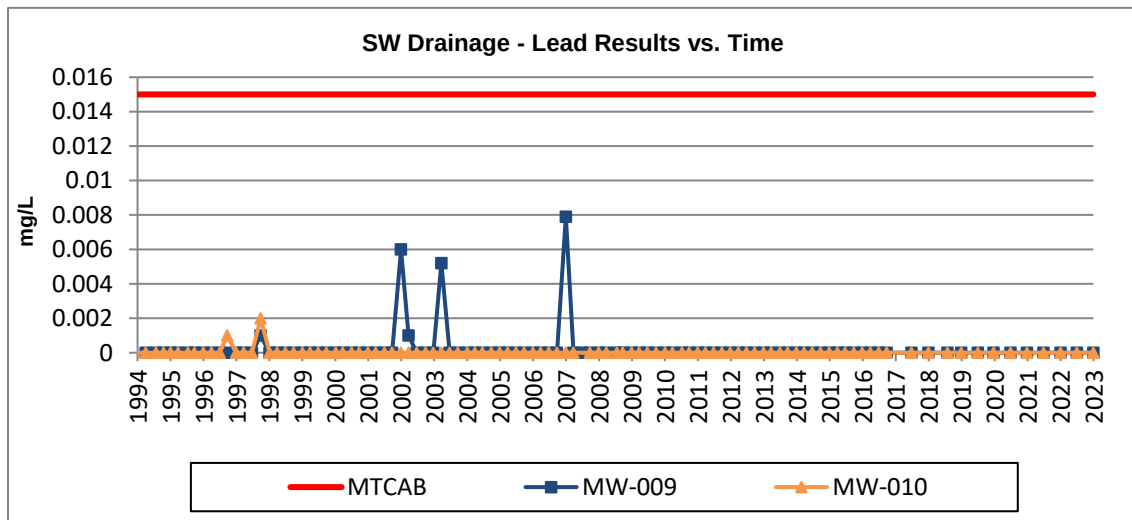
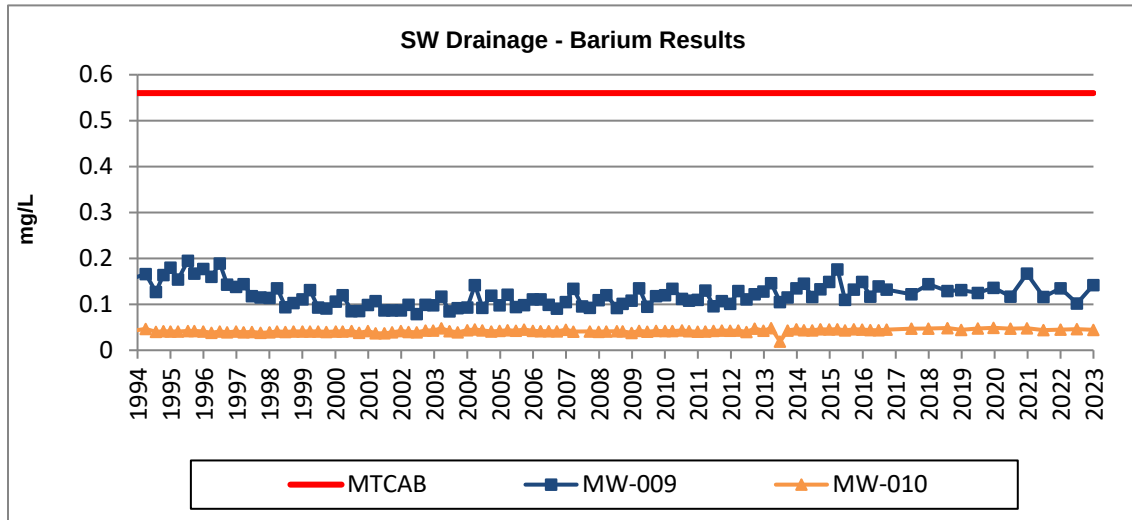
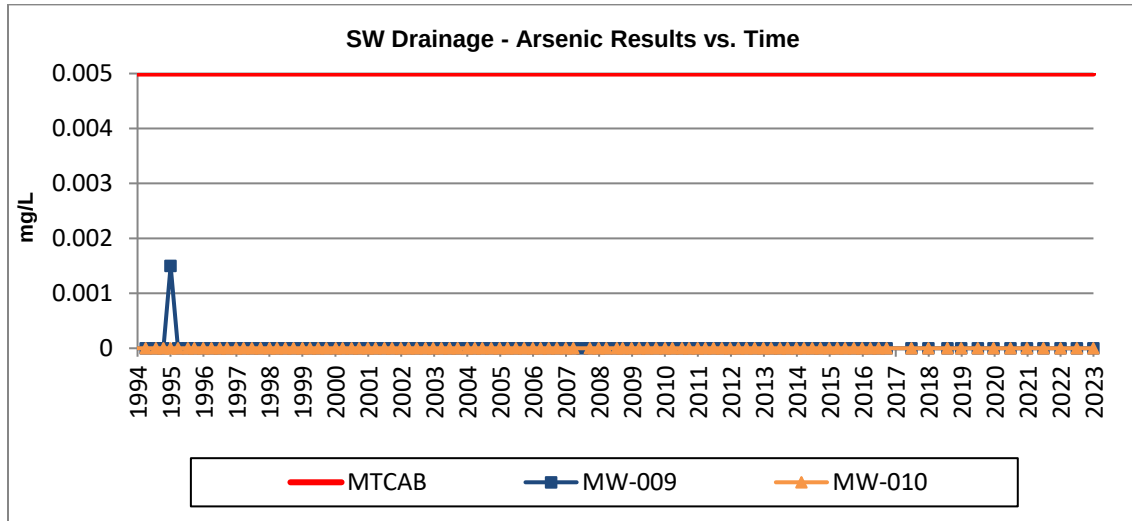
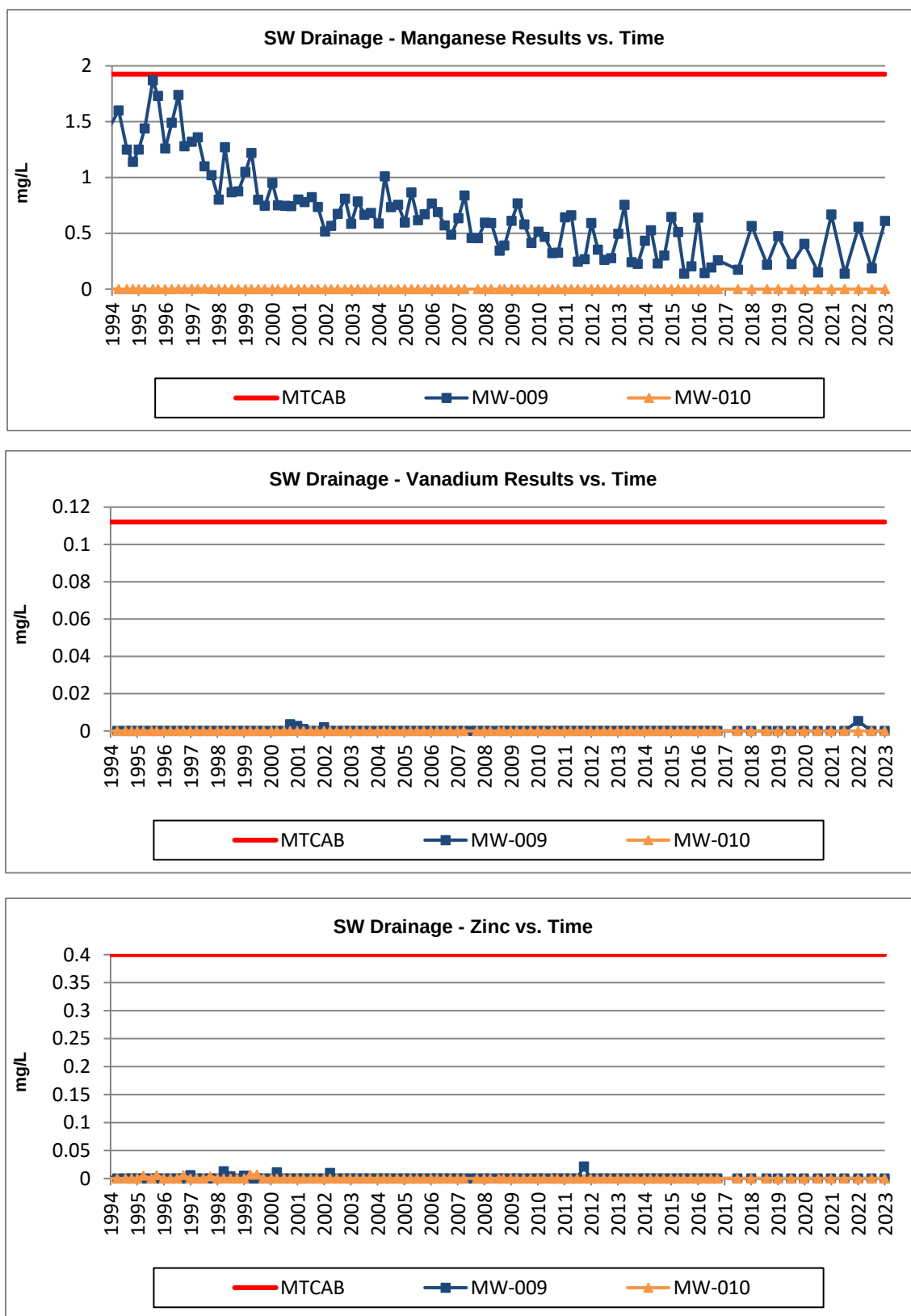


Figure 2-28: SW Wells – Inorganics Concentration Graphs (cont.)



SW Drainage Monitoring Wells: Conventional Time Series Graphs

Figure 2-29: SW Wells – Conventional Concentration Graphs

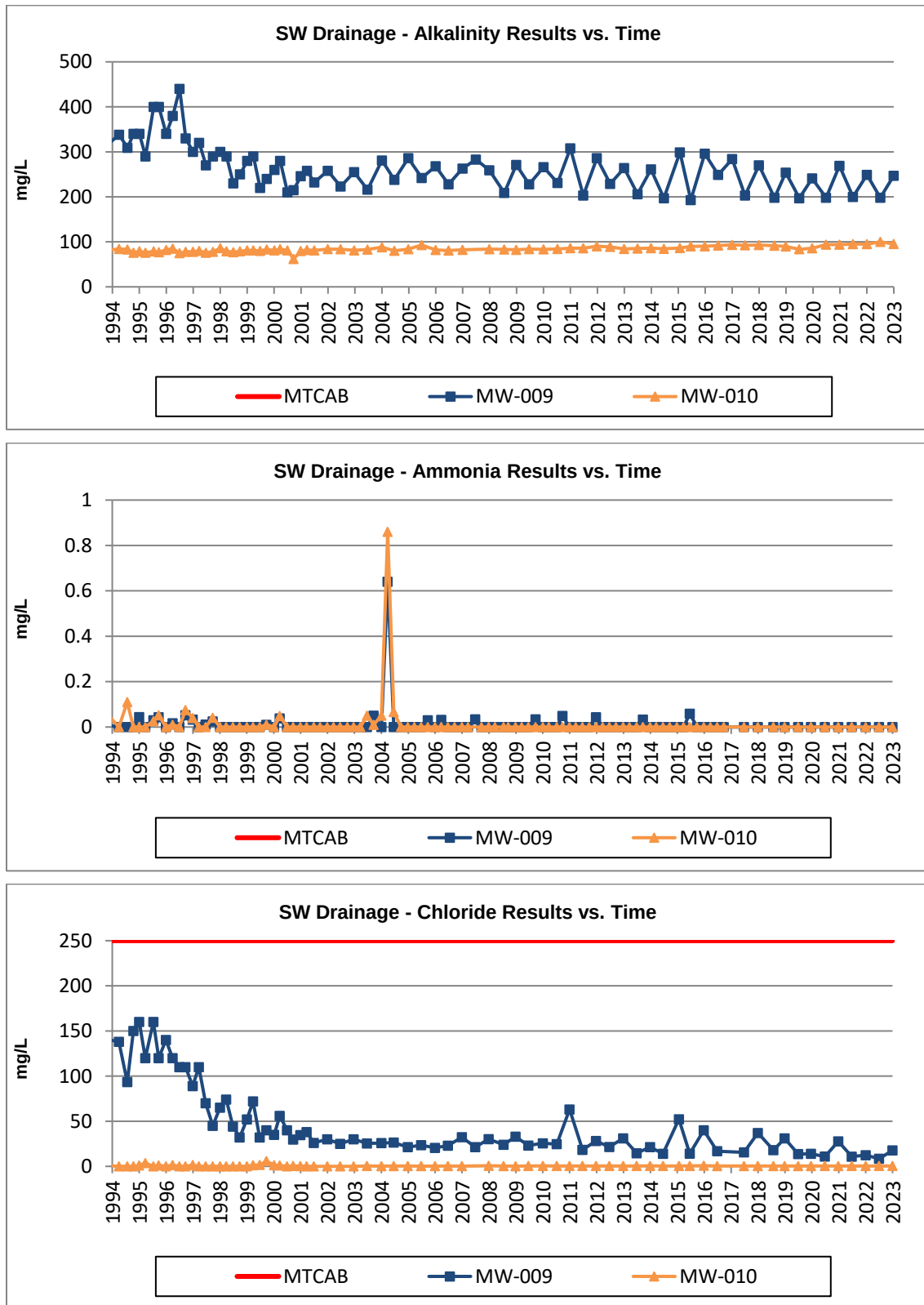


Figure 2-30: SW Wells – Conventional Concentration Graphs (cont.)

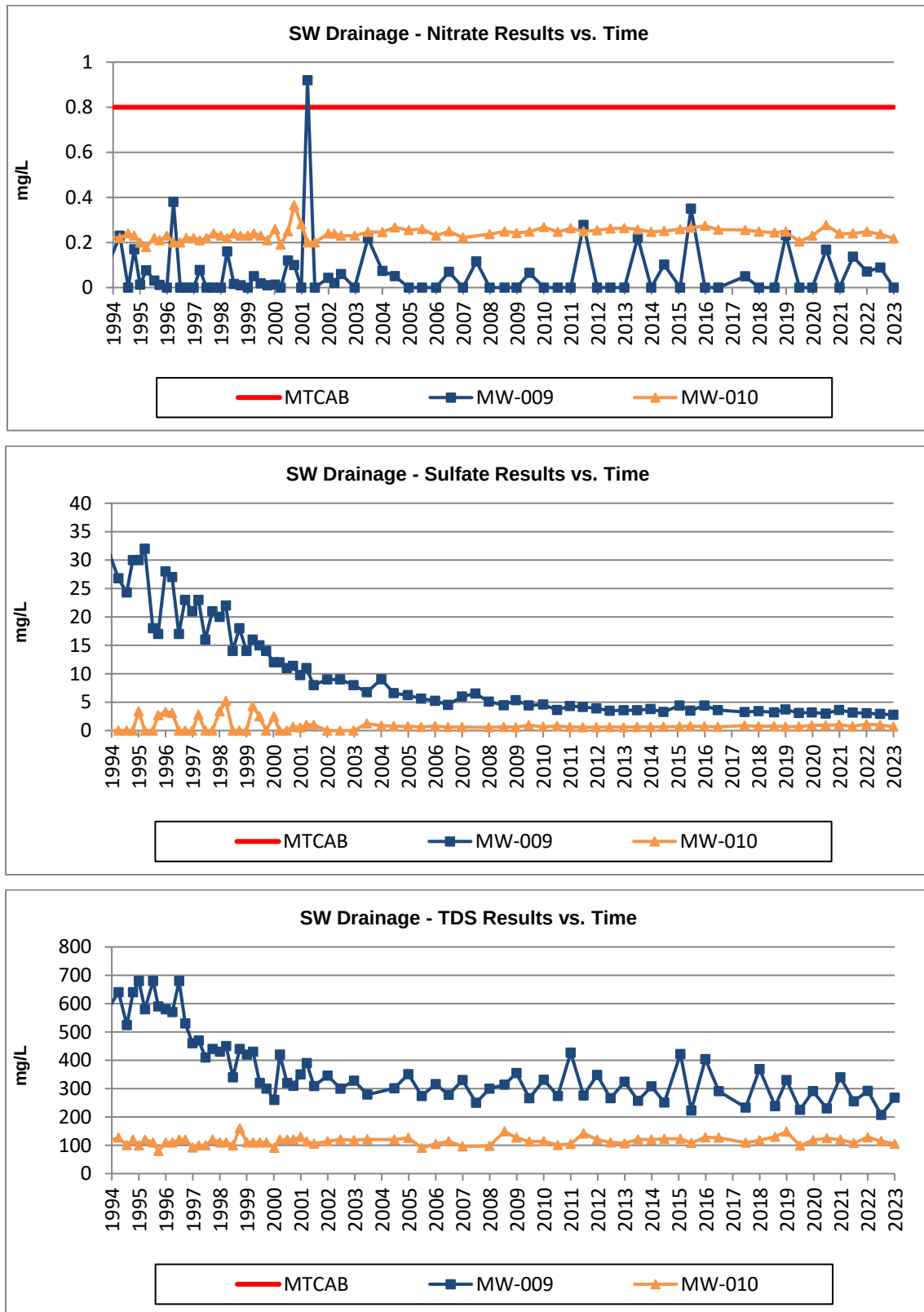
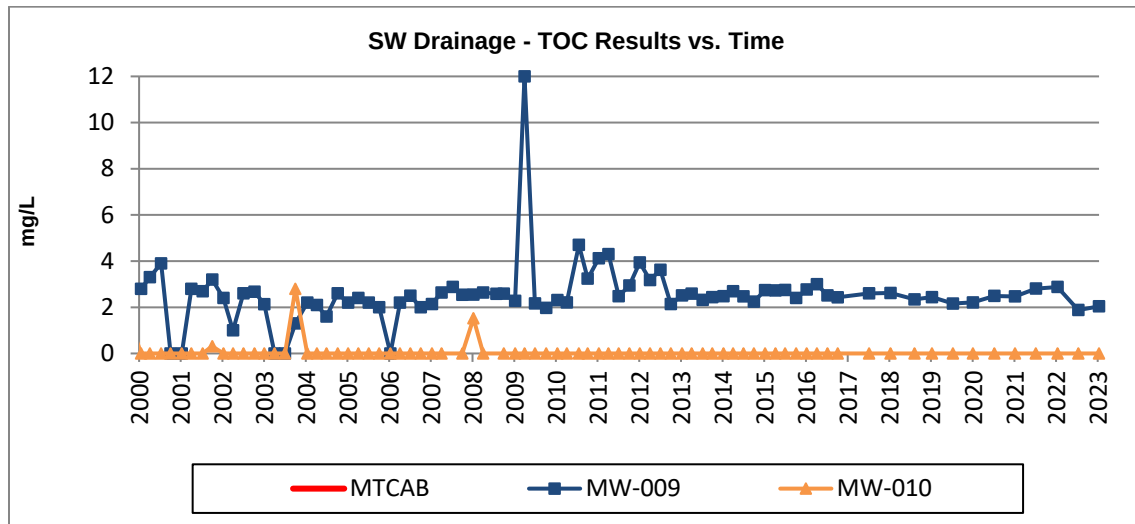


Figure 2-31: SW Wells – Conventional Concentration Graphs (cont.)



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

StationID	DrainageArea	Analyte	2018 Results	2022 Results	2023 Results	5-Year Difference	1-Year Difference	Units
MW-009	Southwest	1,2-DCP	0	0	0	0	0	ug/L
MW-009	Southwest	Acetone	0	0	26.5	26.5	26.5	ug/L
MW-009	Southwest	ALK	270	249	247	-23	-2	mg/L as Ca
MW-009	Southwest	As	0	0	0	0	0	mg/L
MW-009	Southwest	Ba	0.141	0.134	0.142	0.001	0.008	mg/L
MW-009	Southwest	Benzene	0	0	0	0	0	ug/L
MW-009	Southwest	Cl	37	12.4	17.7	-19.3	5.3	mg/L
MW-009	Southwest	DCA	0	0	0	0	0	ug/L
MW-009	Southwest	MC	0	0	0	0	0	ug/L
MW-009	Southwest	Mn	0.544	0.558	0.61	0.066	0.052	mg/L
MW-009	Southwest	N-NH3	0	0	0	0	0	mg/L
MW-009	Southwest	N-NO3	0	0.071	0	0	-0.071	mg/L
MW-009	Southwest	Pb	0	0	0	0	0	mg/L
MW-009	Southwest	PCE	0	0	0	0	0	ug/L
MW-009	Southwest	SO4	3.42	3.04	2.78	-0.64	-0.26	mg/L
MW-009	Southwest	TCE	0	0	0	0	0	ug/L
MW-009	Southwest	TDS	357	292	268	-89	-24	mg/L
MW-009	Southwest	TOC	2.56	2.88	2.04	-0.52	-0.84	mg/L
MW-009	Southwest	Toluene	0	0	0	0	0	ug/L
MW-009	Southwest	VC	0	0	0	0	0	ug/L
MW-009	Southwest	Zn	0	0	0	0	0	mg/L
MW-010	Southwest	1,2-DCP	0	0	0	0	0	ug/L
MW-010	Southwest	Acetone	0	0	0	0	0	ug/L
MW-010	Southwest	ALK	93	94.9	95.3	2.3	0.4	mg/L as Ca
MW-010	Southwest	As	0	0	0	0	0	mg/L
MW-010	Southwest	Ba	0.0473	0.0449	0.0444	-0.0029	-0.0005	mg/L
MW-010	Southwest	Benzene	0	0	0	0	0	ug/L
MW-010	Southwest	Cl	0.38	0.47	0.44	0.06	-0.03	mg/L
MW-010	Southwest	DCA	0	0	0	0	0	ug/L
MW-010	Southwest	MC	0	0	0	0	0	ug/L
MW-010	Southwest	Mn	0	0	0	0	0	mg/L
MW-010	Southwest	N-NH3	0	0	0	0	0	mg/L
MW-010	Southwest	N-NO3	0.248	0.248	0.218	-0.03	-0.03	mg/L
MW-010	Southwest	Pb	0	0	0	0	0	mg/L
MW-010	Southwest	PCE	0	0	0	0	0	ug/L
MW-010	Southwest	SO4	0.74	1.11	0.68	-0.06	-0.43	mg/L
MW-010	Southwest	TCE	0	0	0	0	0	ug/L
MW-010	Southwest	TDS	118	128	105	-13	-23	mg/L
MW-010	Southwest	TOC	0	0	0	0	0	mg/L
MW-010	Southwest	Toluene	0	0	0	0	0	ug/L
MW-010	Southwest	VC	0	0	0	0	0	ug/L
MW-010	Southwest	Zn	0	0	0	0	0	mg/L

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

Increases in analyte concentrations are highlighted in **RED**.

Decreases in analyte concentrations are highlighted in **BLUE**.

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

Figure 2-32: MW-016 VOCs / SVOCs Concentration Graphs

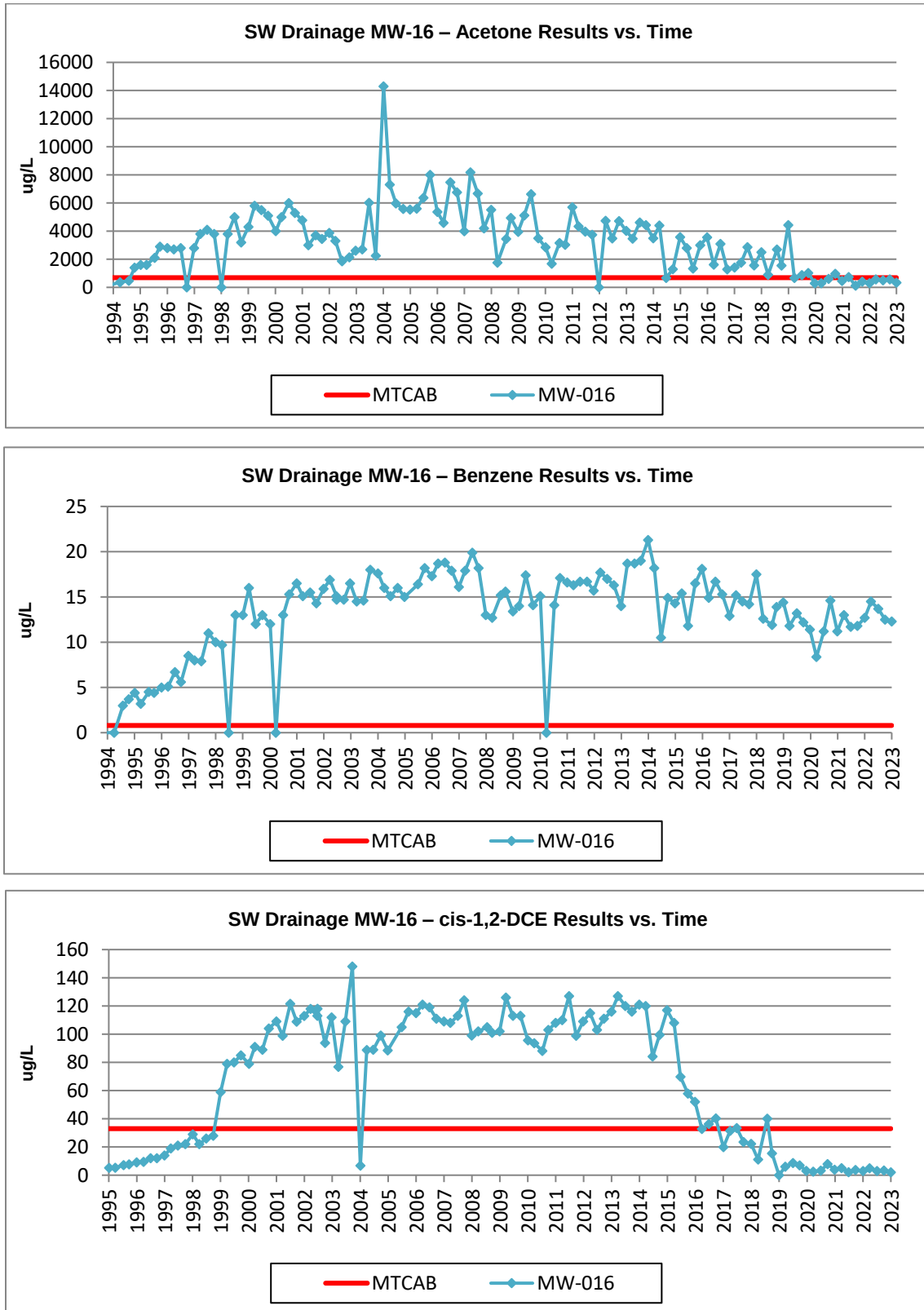


Figure 2-33: MW-016 VOCs / SVOCs Concentration Graphs (cont.)

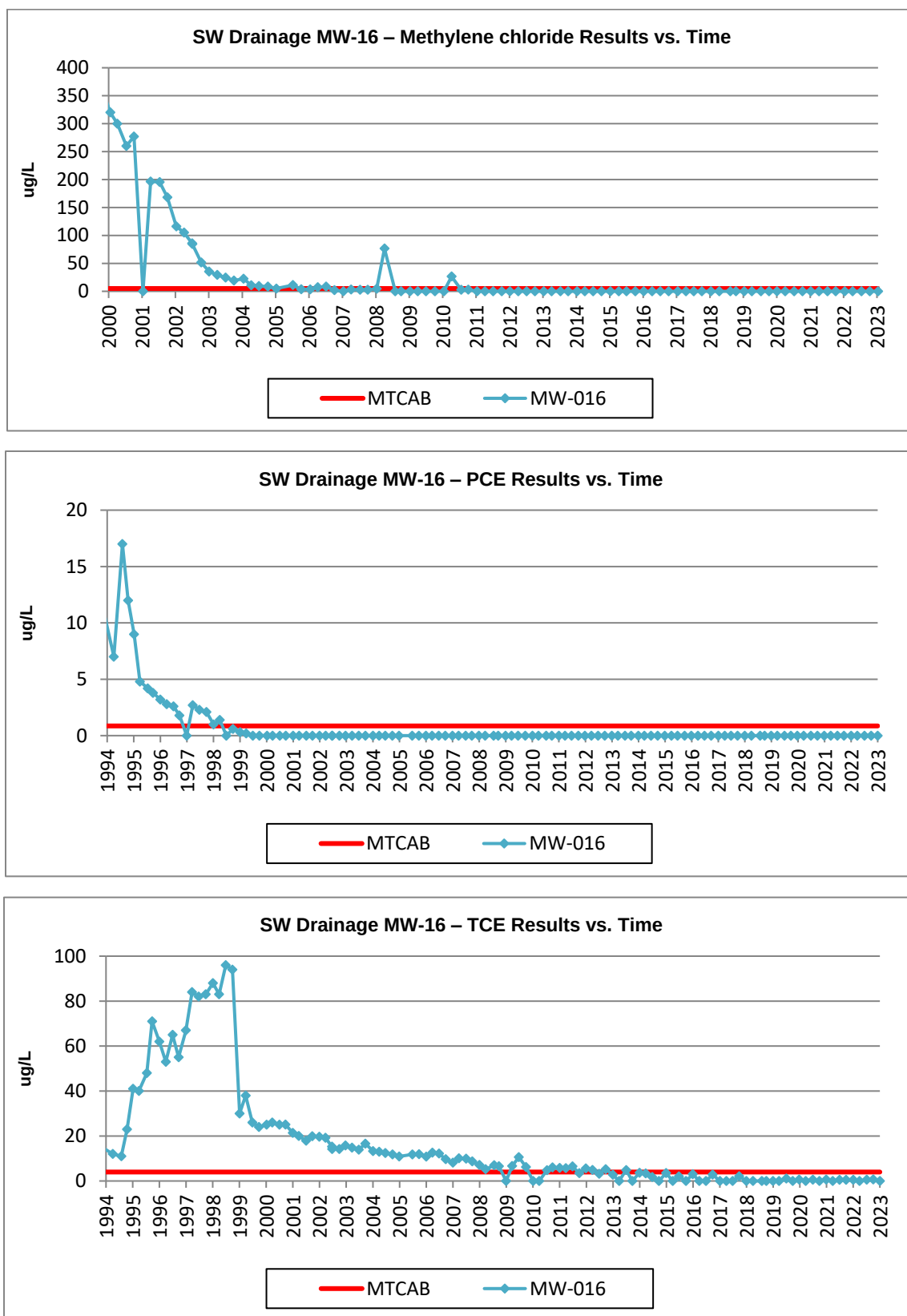


Figure 2-34: MW-016 VOCs / SVOCs Concentration Graphs (cont.)

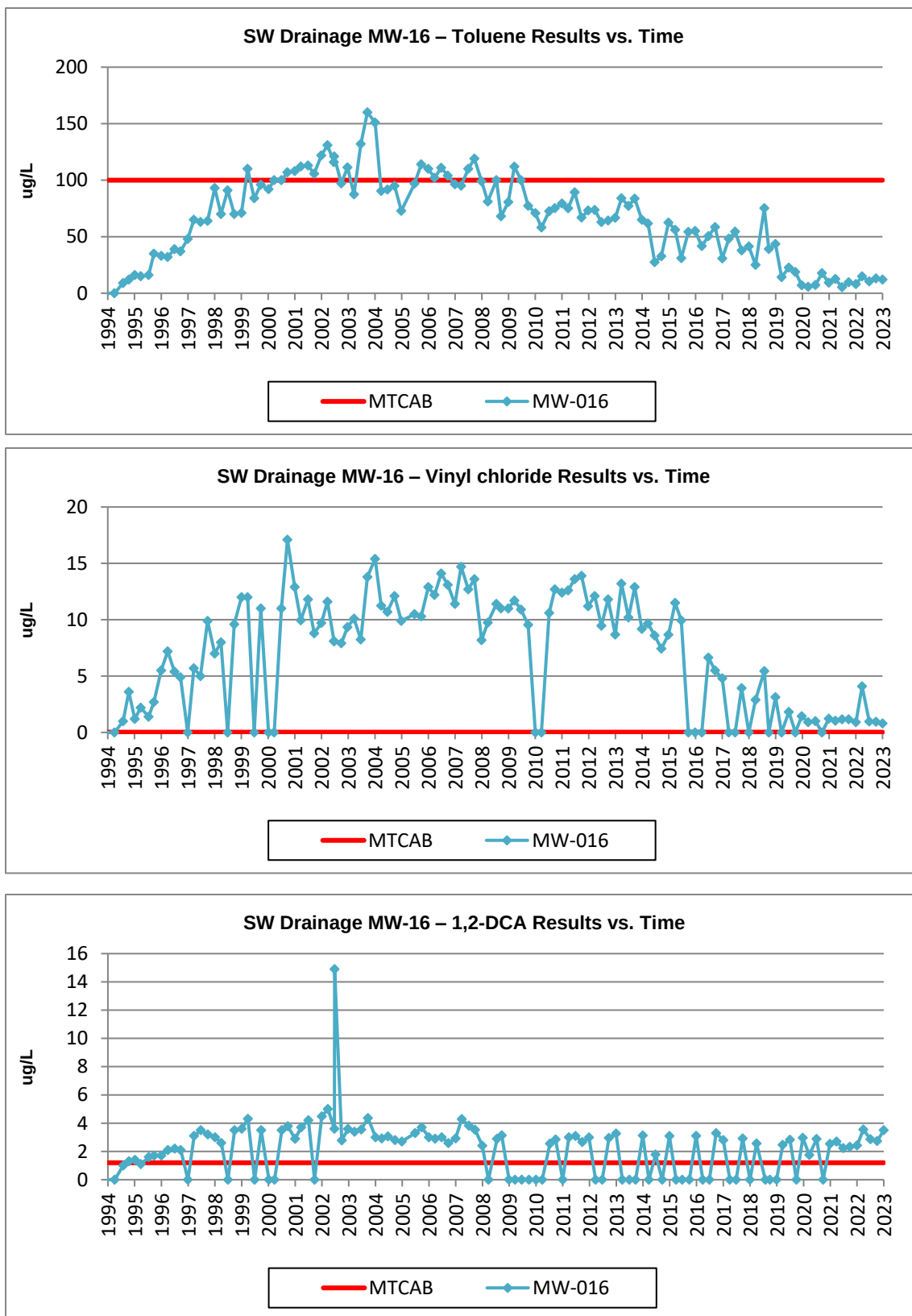
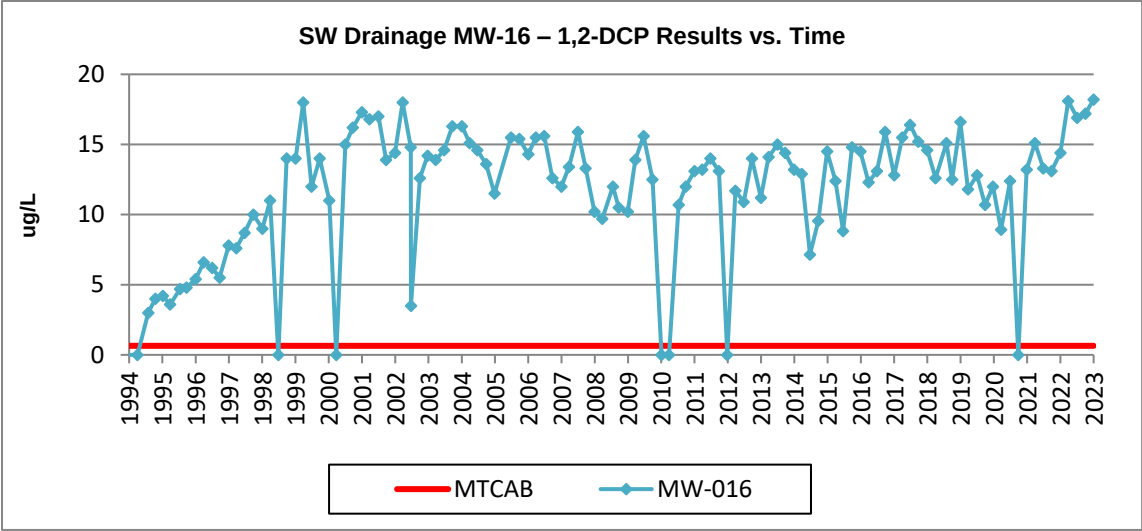


Figure 2-35: MW-016 VOCs / SVOCs Concentration Graphs (cont.)



SW MW-16 Monitoring Wells: Inorganics Time Series Graphs

Figure 2-36: MW-016 Inorganics Concentration Graphs

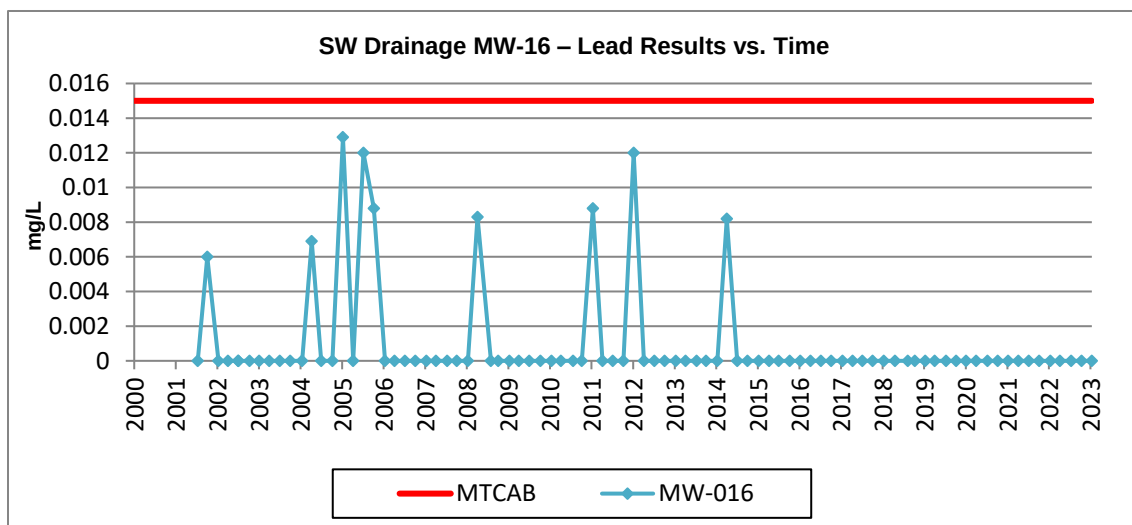
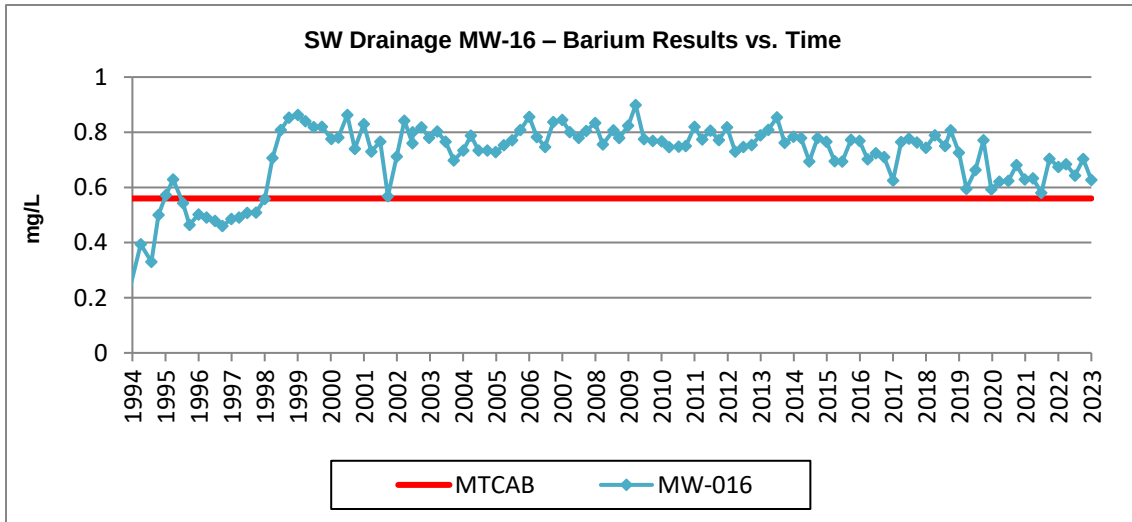
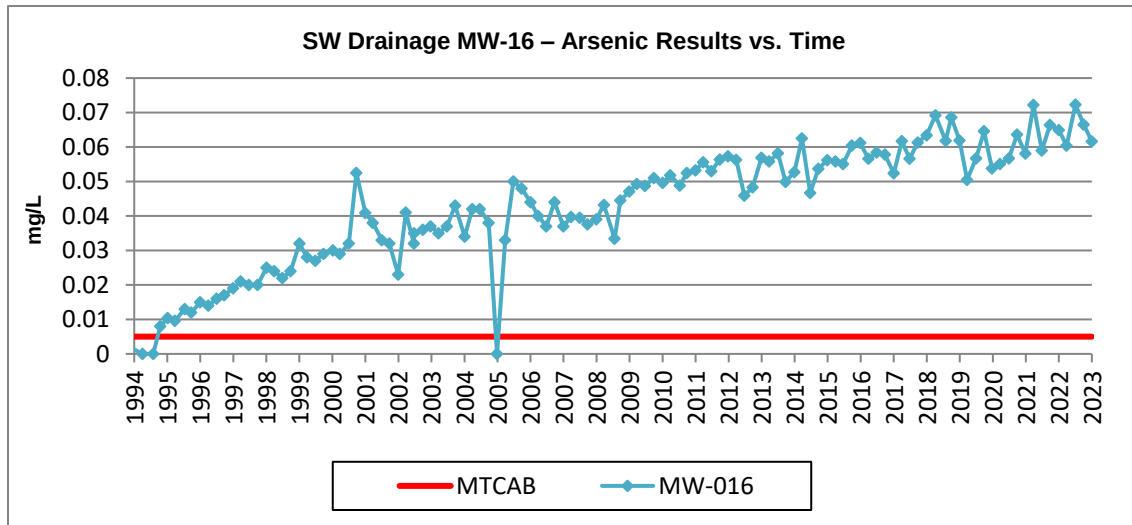
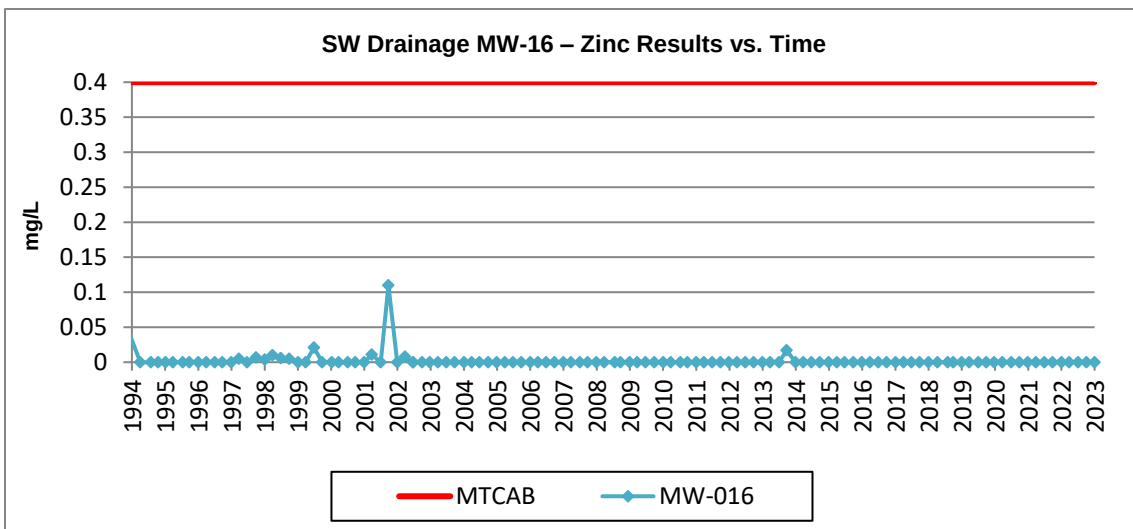
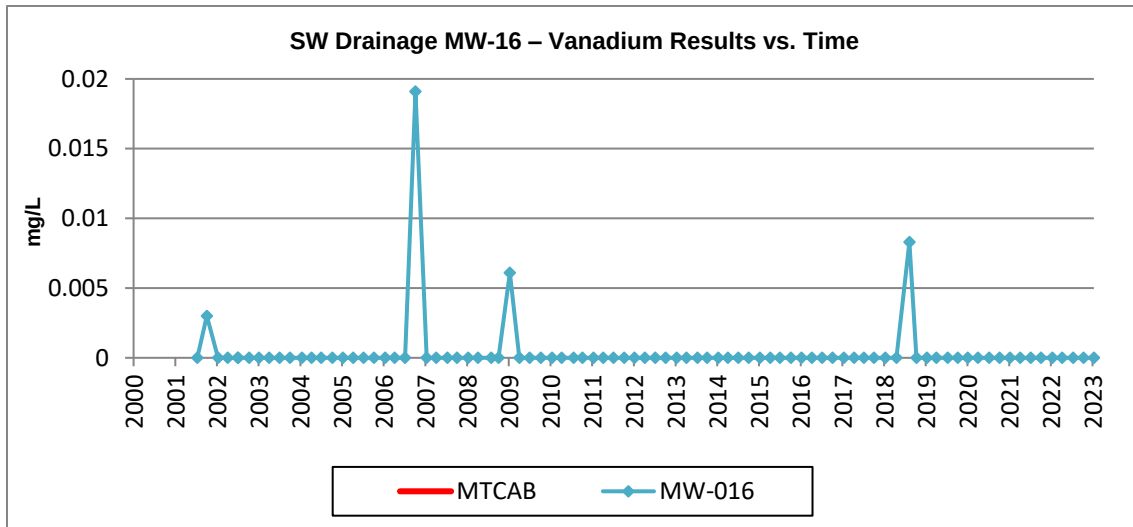
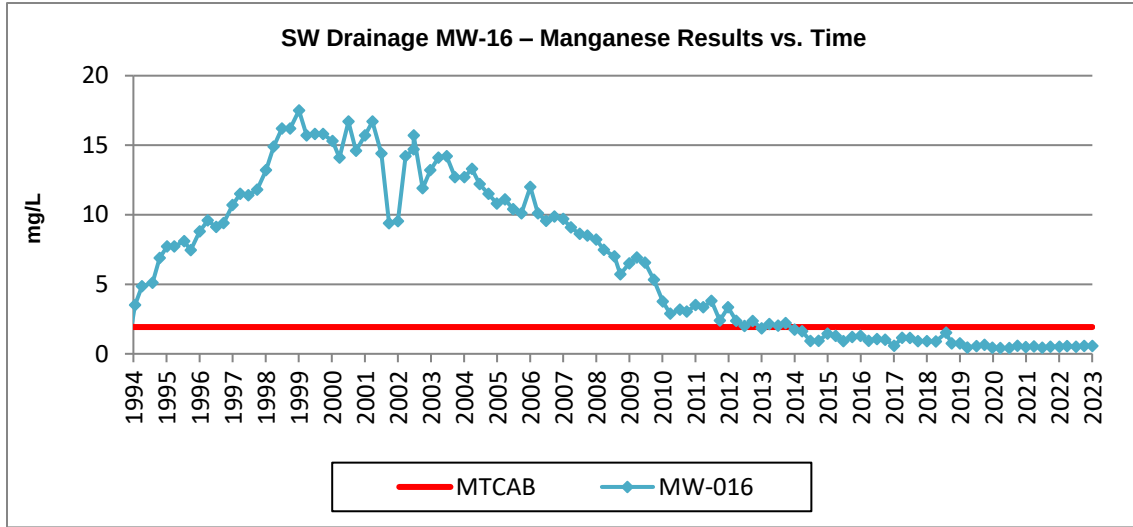


Figure 2-37: MW-016 Inorganics Concentration Graphs (cont.)



SW MW-16 Monitoring Wells: Conventional Time Series Graphs

Figure 2-38: MW-016 Conventional Concentration Graphs

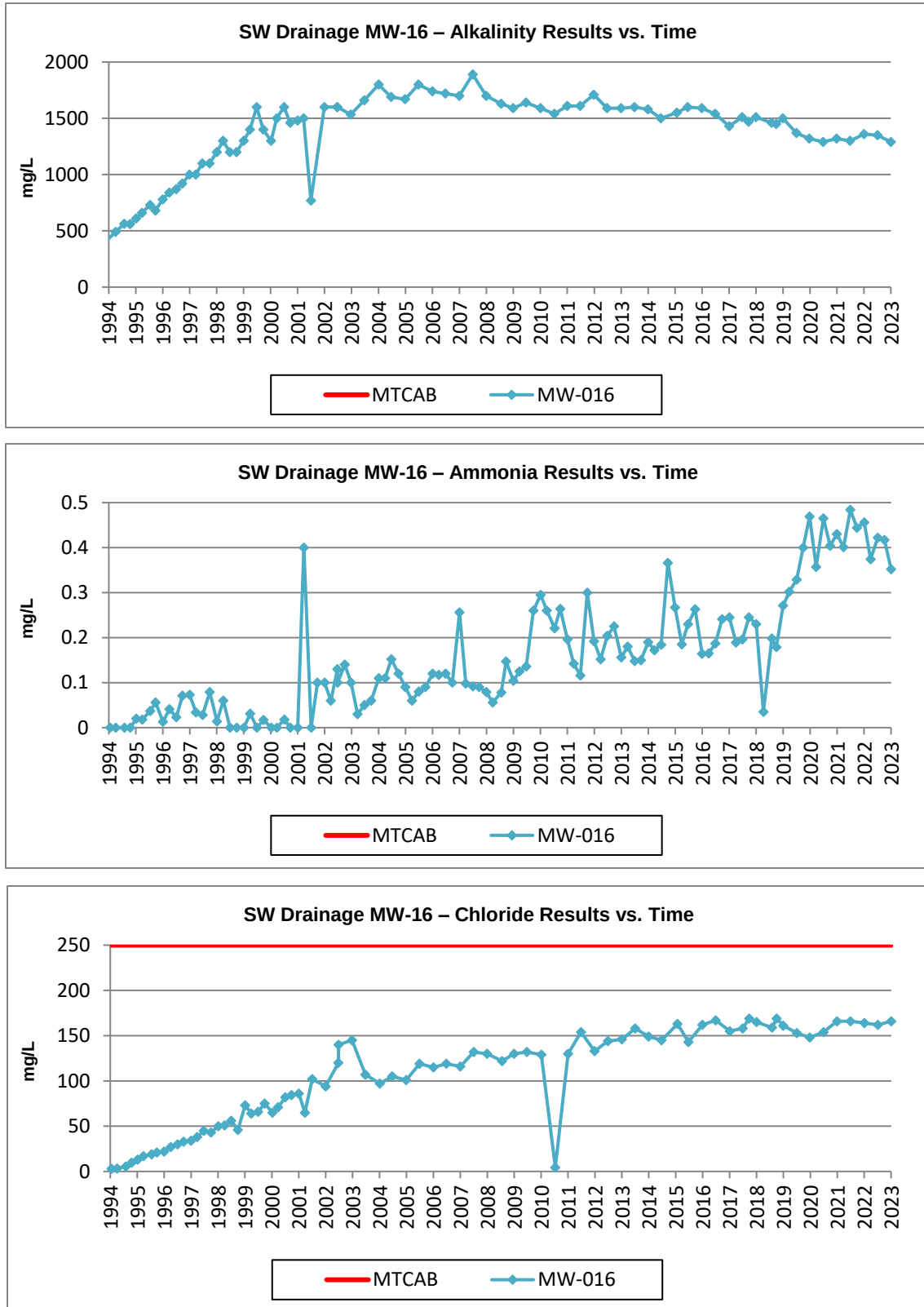


Figure 2-39: MW-016 Conventional Concentration Graphs (cont.)

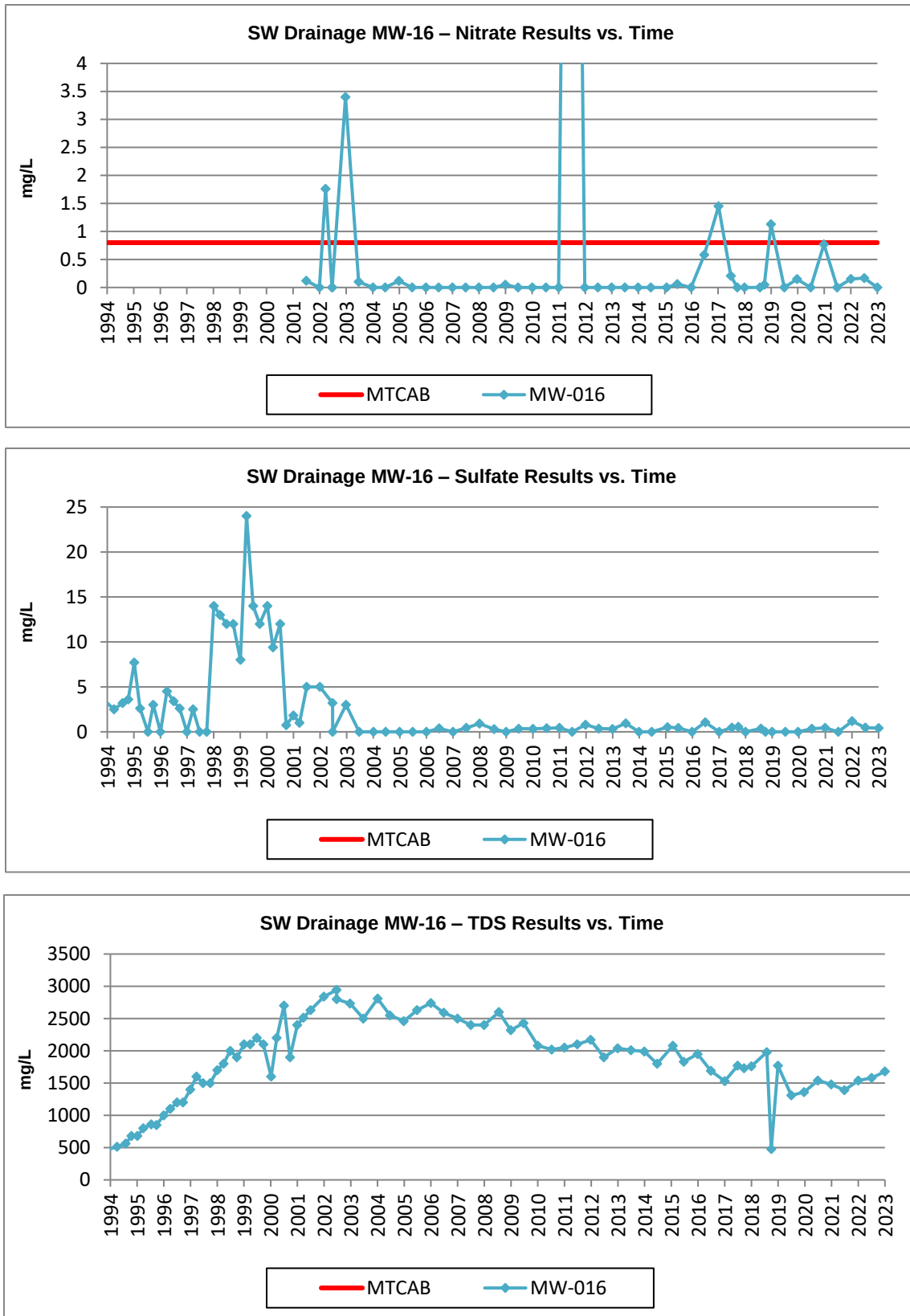
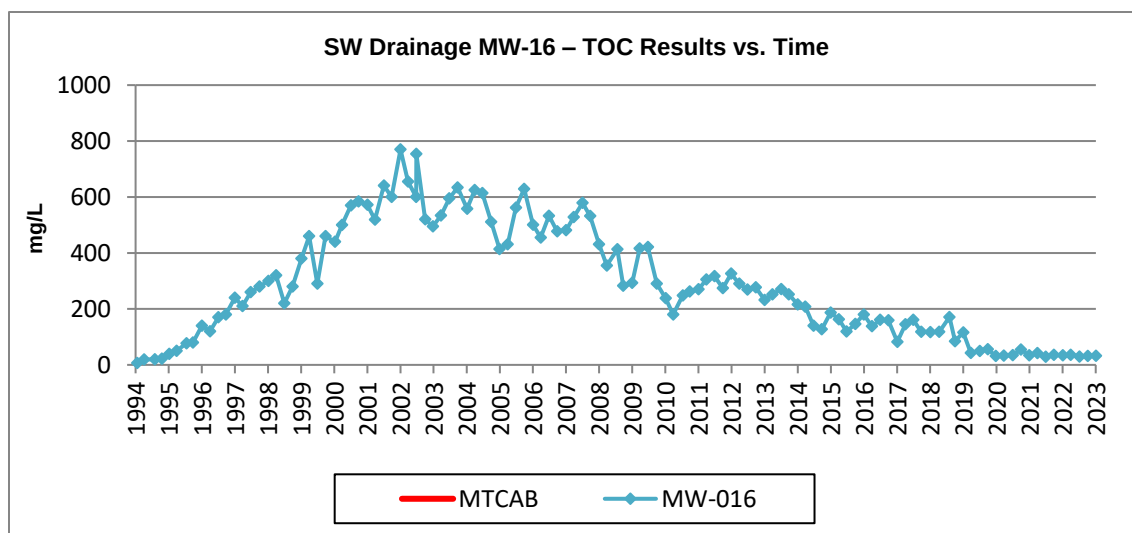


Figure 2-40: MW-016 Conventional Concentration Graphs



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

StationID	DrainageArea	Analyte	2018 Results	2022 Results	2023 Results	5-Year Difference	1-Year Difference	Units
MW-016	Southwest	1,2-DCP	14.6	14.4	18.2	3.6	3.8	ug/L
MW-016	Southwest	Acetone	2500	304	340	-2160	36	ug/L
MW-016	Southwest	ALK	1510	1360	1290	-220	-70	mg/L as Ca
MW-016	Southwest	As	0.0634	0.0649	0.0616	-0.0018	-0.0033	mg/L
MW-016	Southwest	Ba	0.744	0.674	0.627	-0.117	-0.047	mg/L
MW-016	Southwest	Benzene	17.5	12.7	12.3	-5.2	-0.4	ug/L
MW-016	Southwest	Cl	165	164	166	1	2	mg/L
MW-016	Southwest	DCA	0	7.05	11.3	11.3	4.25	ug/L
MW-016	Southwest	MC	0	0	0	0	0	ug/L
MW-016	Southwest	Mn	0.907	0.503	0.562	-0.345	0.059	mg/L
MW-016	Southwest	N-NH3	0.23	0.456	0.352	0.122	-0.104	mg/L
MW-016	Southwest	N-NO3	0	0.152	0	0	-0.152	mg/L
MW-016	Southwest	Pb	0	0	0	0	0	mg/L
MW-016	Southwest	PCE	0	0	0	0	0	ug/L
MW-016	Southwest	SO4	0	1.18	0.41	0.41	-0.77	mg/L
MW-016	Southwest	TCE	0	0.53	0	0	-0.53	ug/L
MW-016	Southwest	TDS	1760	1540	1680	-80	140	mg/L
MW-016	Southwest	TOC	117	34	32.6	-84.4	-1.4	mg/L
MW-016	Southwest	Toluene	41.4	8.09	12	-29.4	3.91	ug/L
MW-016	Southwest	VC	0	0.91	0.8	0.8	-0.11	ug/L
MW-016	Southwest	Zn	0	0	0	0	0	mg/L

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

Increases in analyte concentrations are highlighted in **RED**.

Decreases in analyte concentrations are highlighted in **BLUE**.

South Drainage Monitoring Wells: VOCs/SVOCs Time Series Graphs

Figure 2-41: South Wells VOCs / SVOCs Concentration Graphs

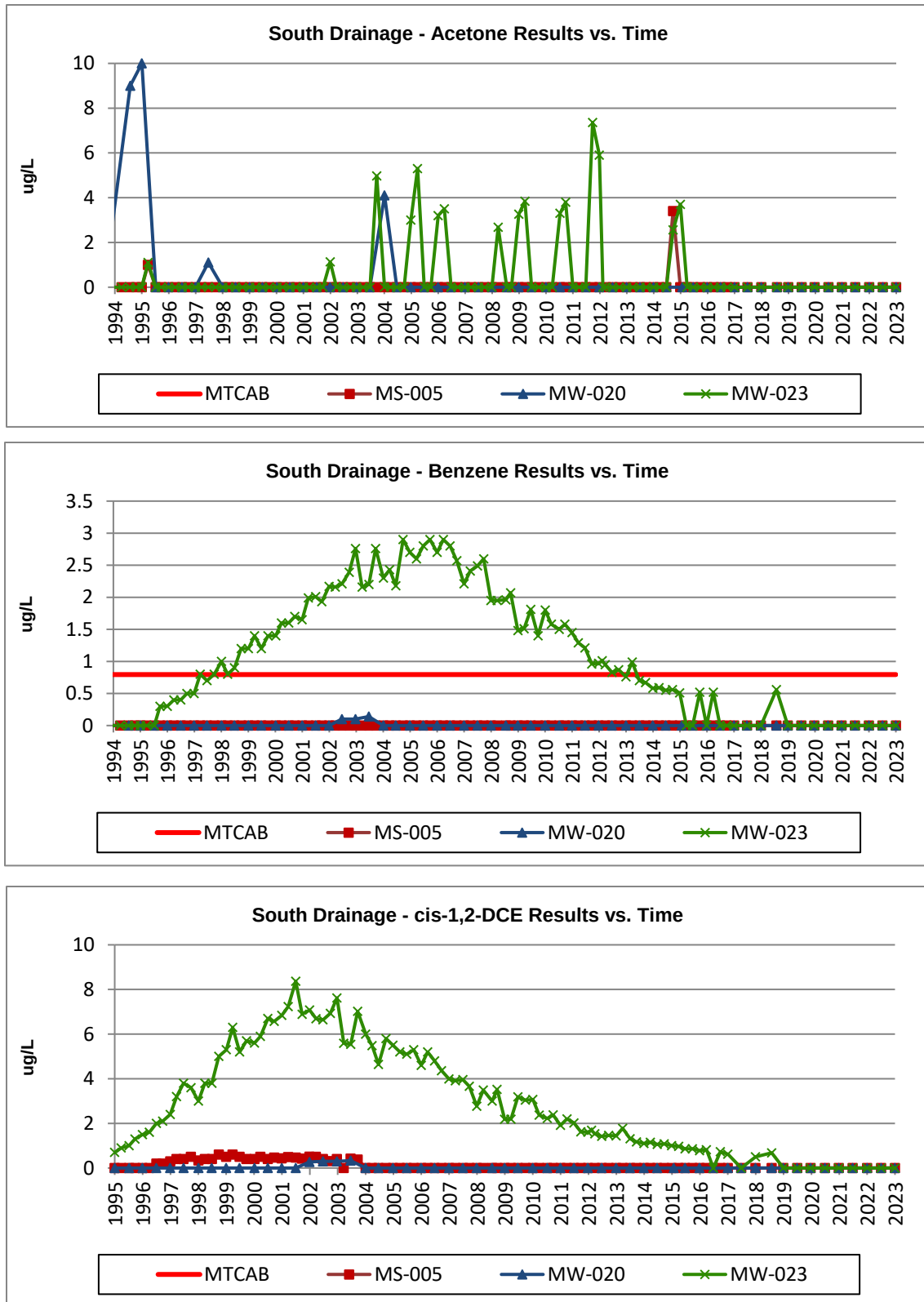


Figure 2-42: South Wells VOCs / SVOCs Concentration Graphs

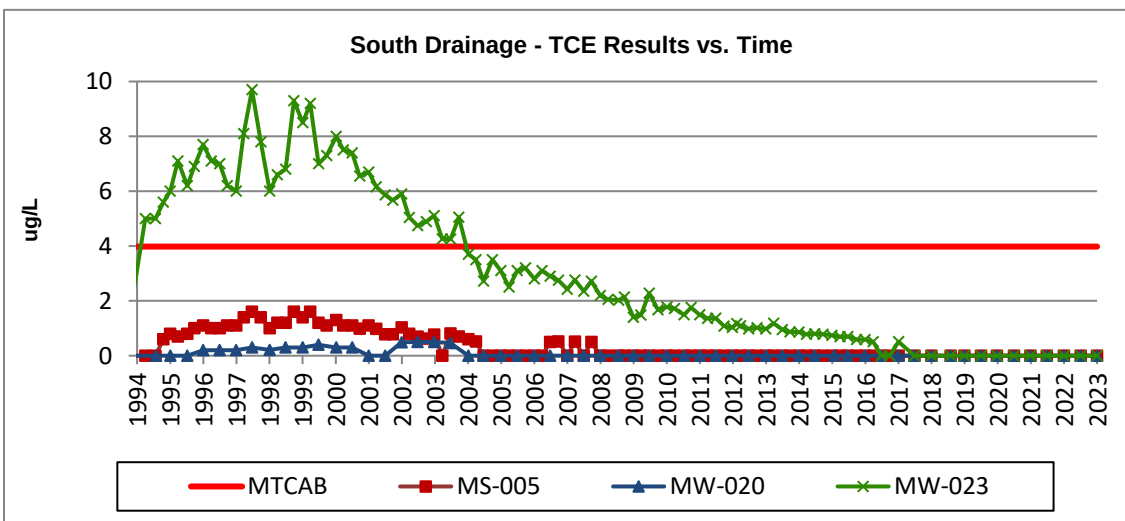
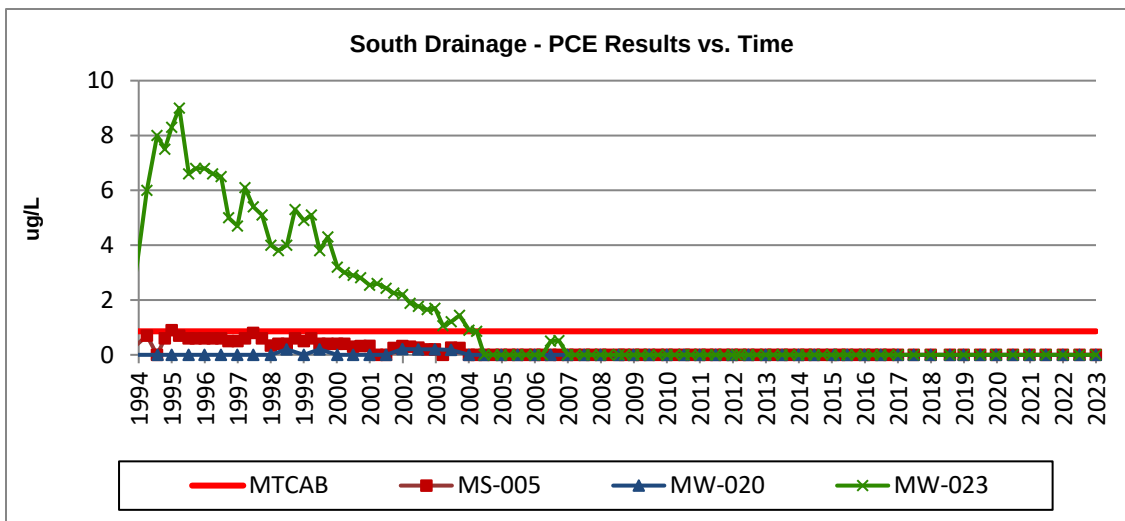
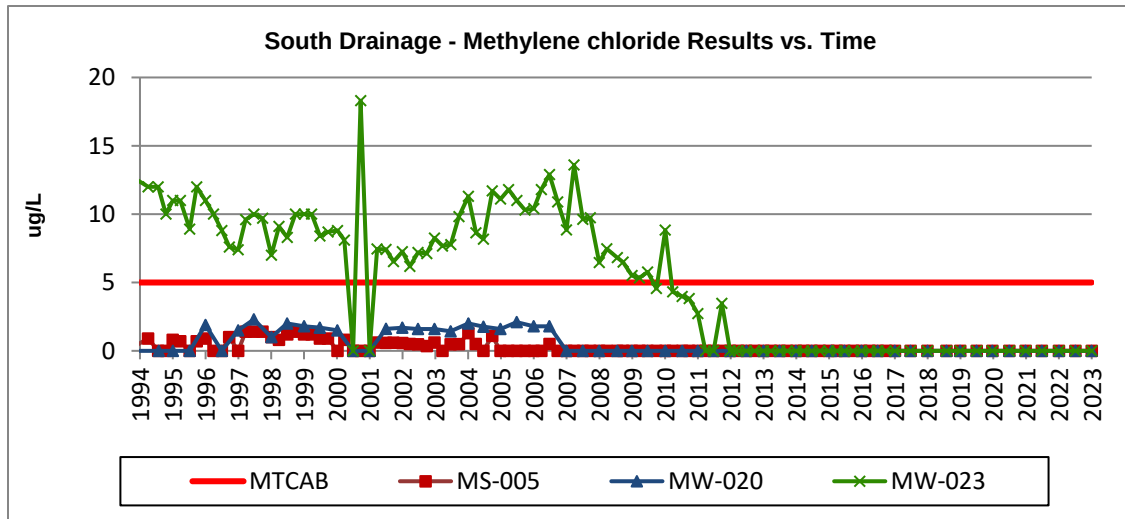


Figure 2-43: South Wells VOCs / SVOCs Concentration Graphs (cont.)

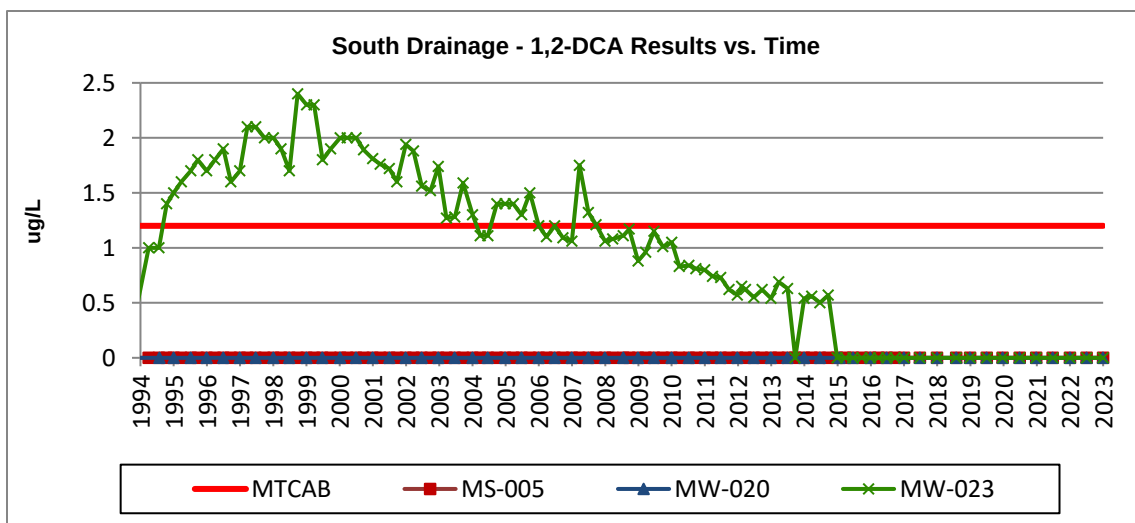
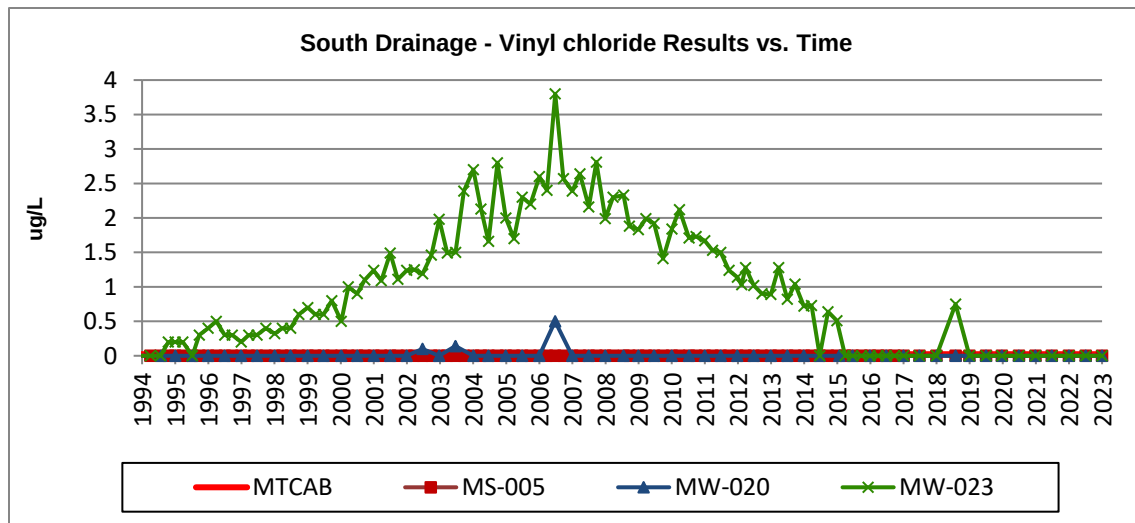
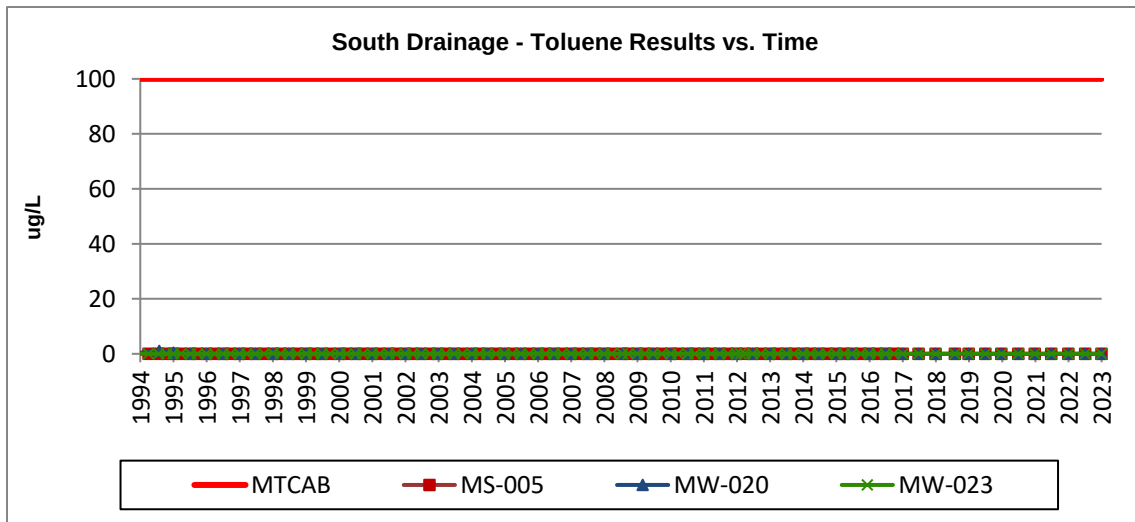
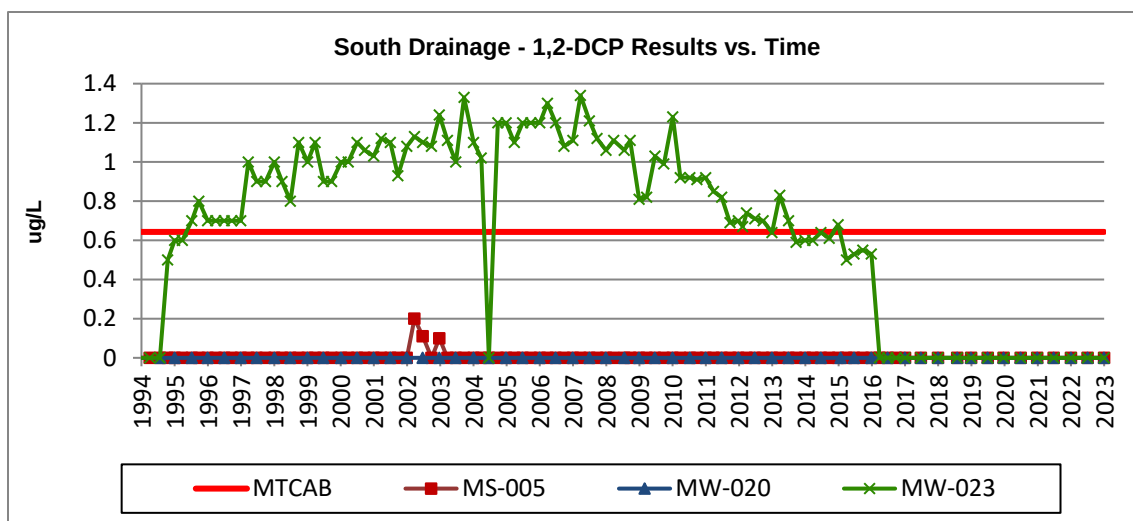


Figure 2-44: South Wells VOCs / SVOCs Concentration Graphs (cont.)



South Drainage Monitoring Wells: Inorganics Time Series Graphs

Figure 2-45: South Wells Inorganics Concentration Graphs

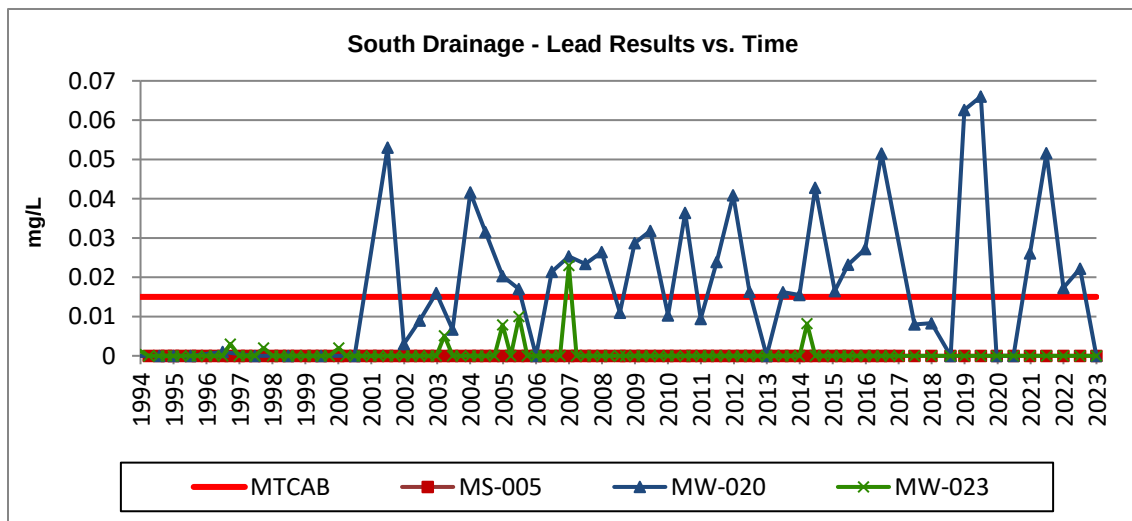
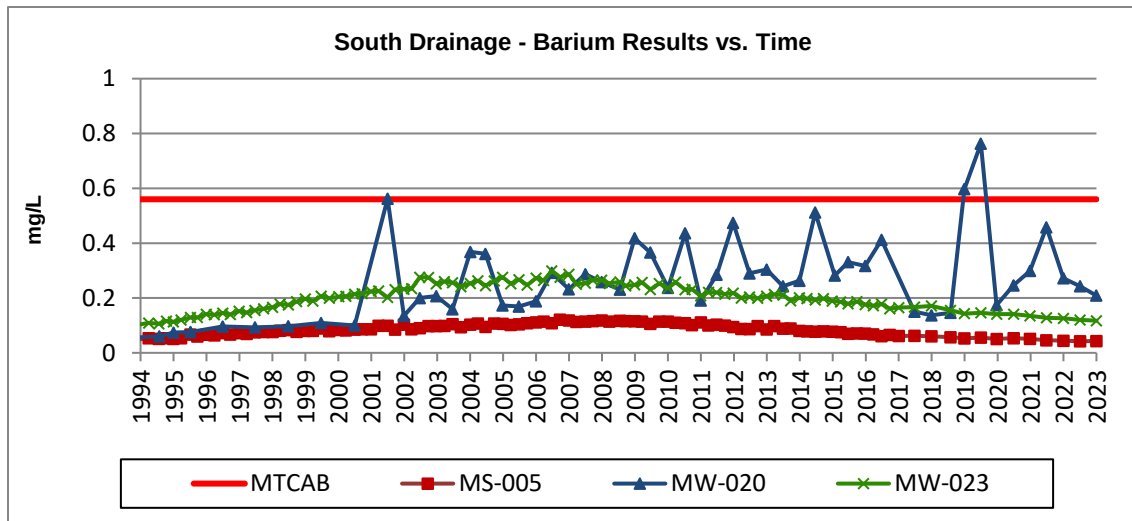
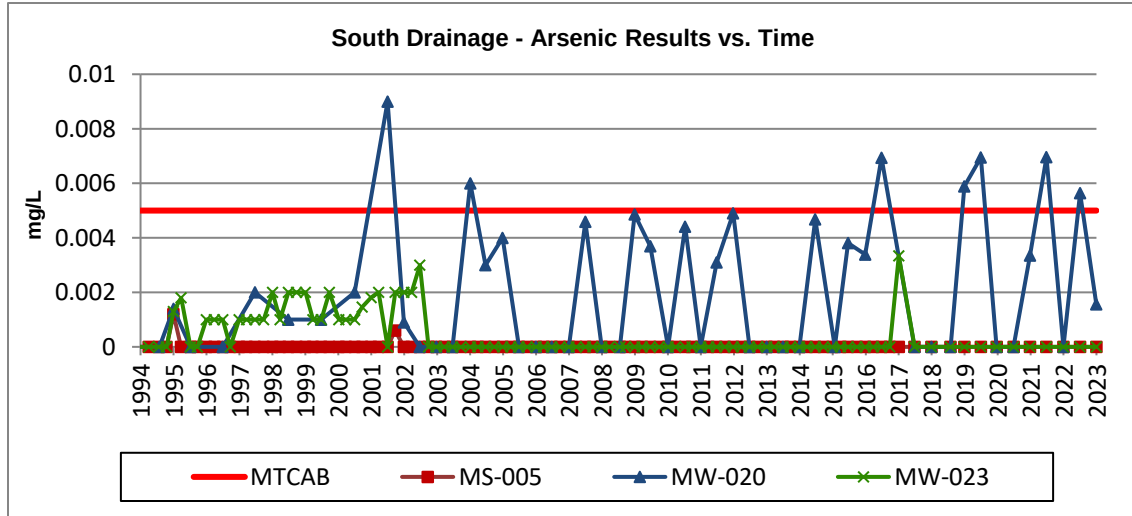
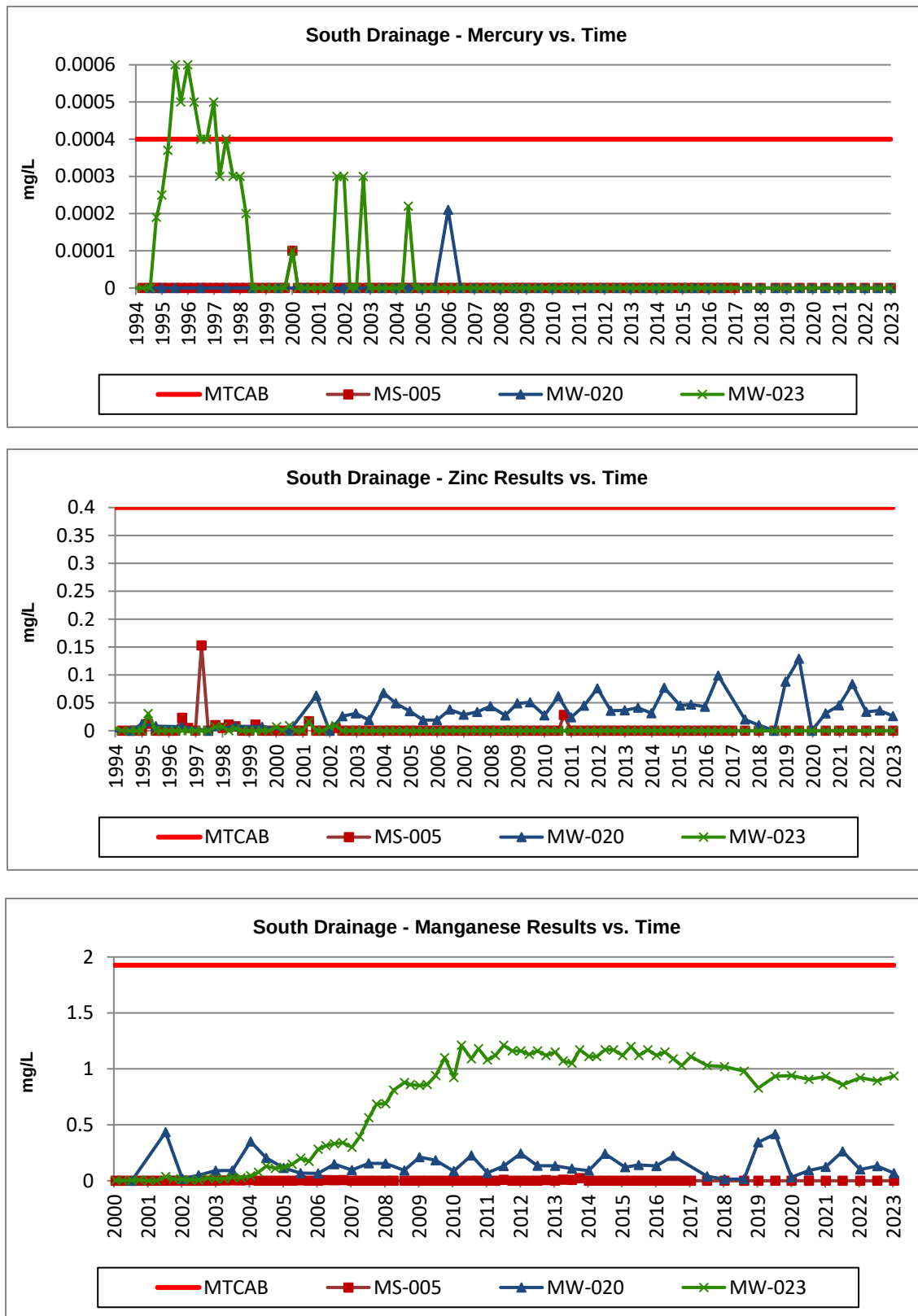


Figure 2-46: South Wells Inorganics Concentration Graphs (cont.)



South Drainage Monitoring Wells: Conventional Time Series Graphs

Figure 2-47: South Wells Conventional Concentration Graphs

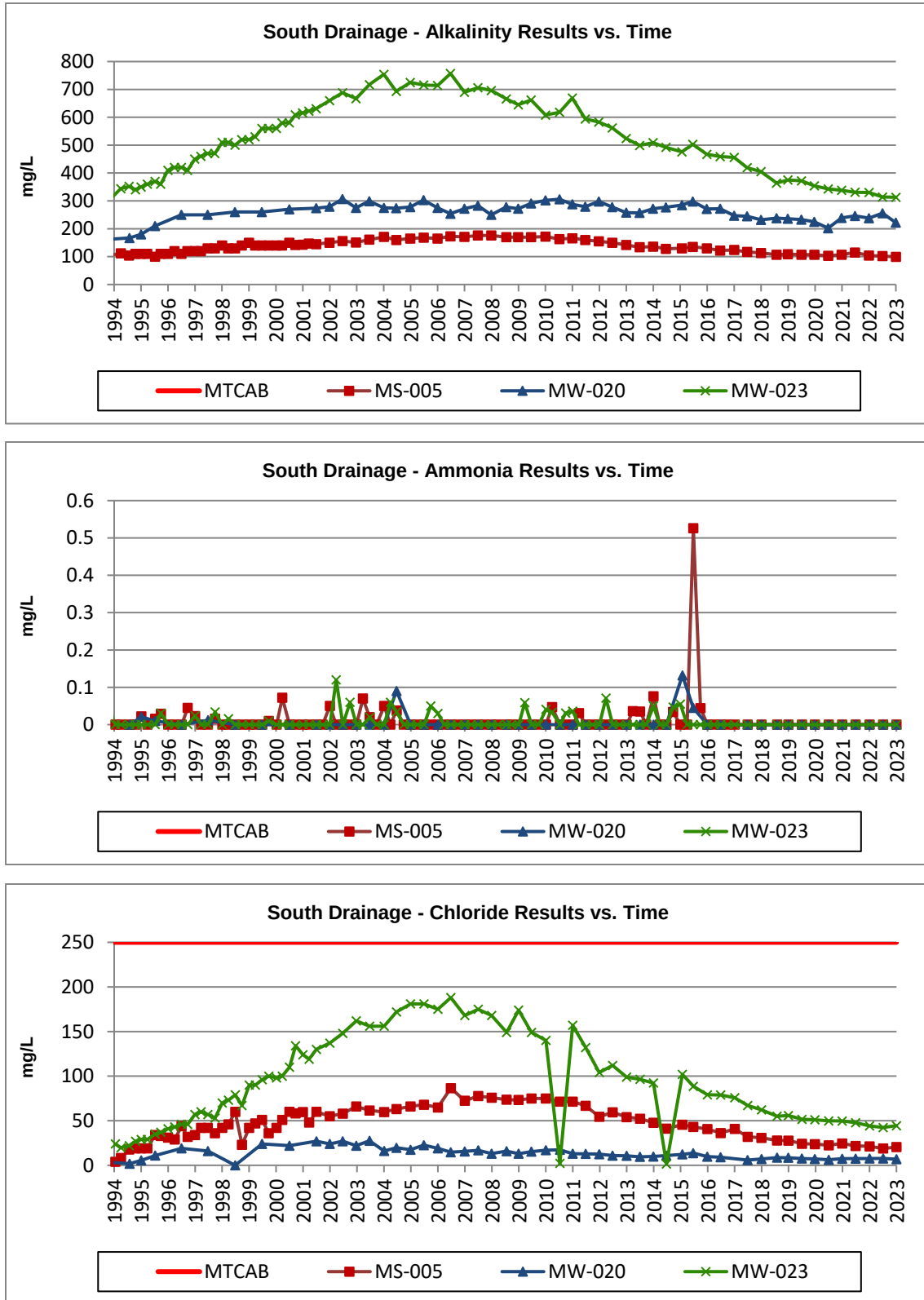


Figure 2-48: South Wells Conventionals Concentration Graphs (cont.)

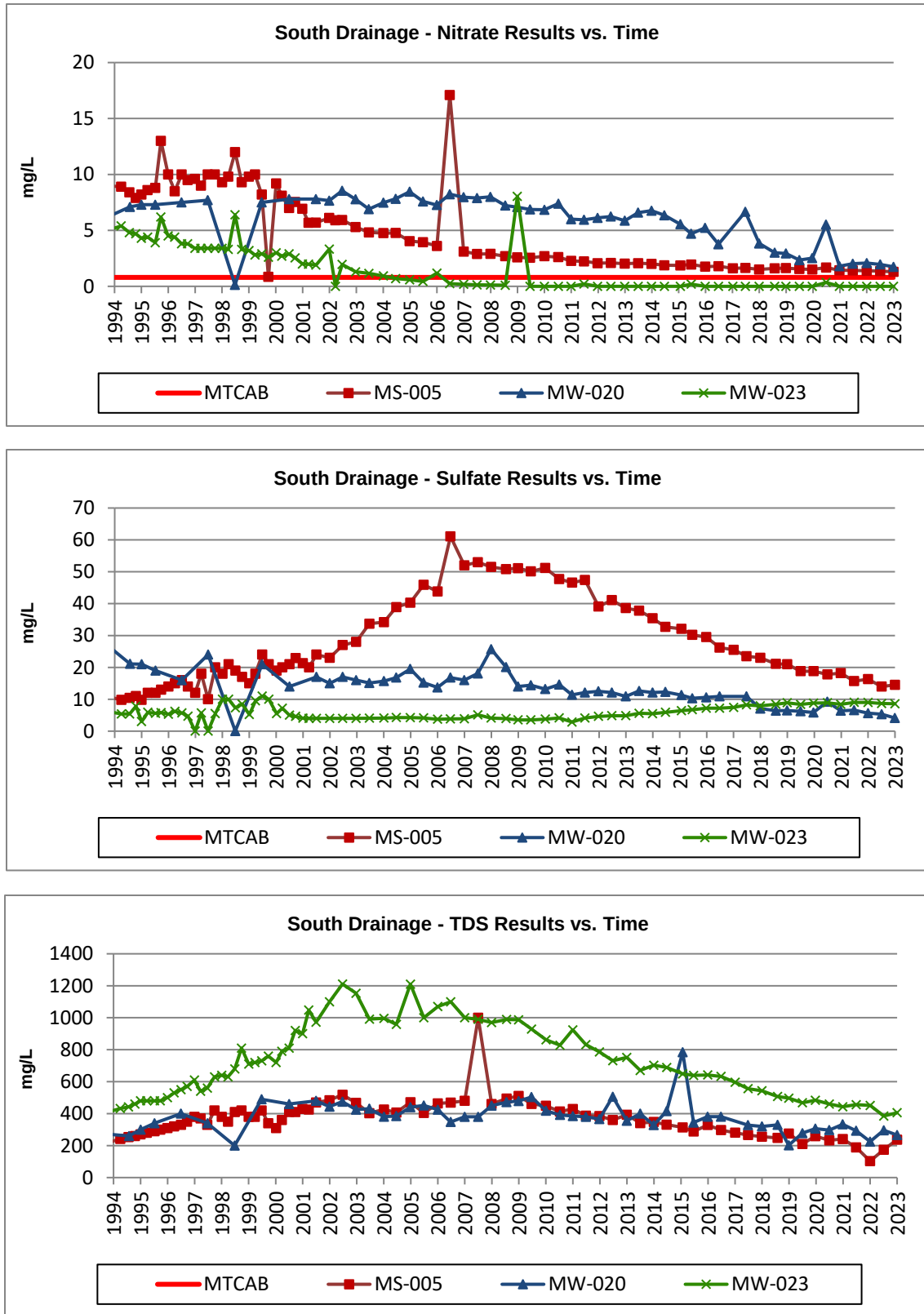
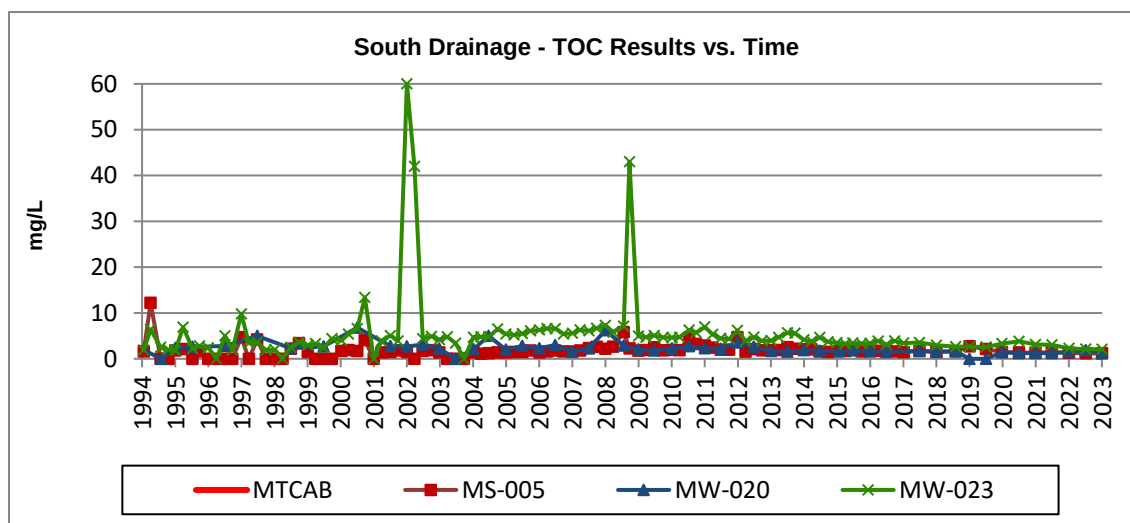


Figure 2-49: South Wells – Conventional Concentration Graphs (cont.)



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

StationID	DrainageArea	Analyte	2018 Results	2022 Results	2023 Results	5-Year Difference	1-Year Difference	Units
MS-005	South	1,2-DCP	0	0	0	0	0	ug/L
MS-005	South	Acetone	0	0	0	0	0	ug/L
MS-005	South	ALK	113	104	99.3	-13.7	-4.7	mg/L as Ca
MS-005	South	As	0	0	0	0	0	mg/L
MS-005	South	Ba	0.0602	0.0443	0.043	-0.0172	-0.0013	mg/L
MS-005	South	Benzene	0	0	0	0	0	ug/L
MS-005	South	Cl	30.8	21.3	20.5	-10.3	-0.8	mg/L
MS-005	South	DCA	0	0	0	0	0	ug/L
MS-005	South	MC	0	0	0	0	0	ug/L
MS-005	South	Mn	0	0	0	0	0	mg/L
MS-005	South	N-NH3	0	0	0	0	0	mg/L
MS-005	South	N-NO3	1.51	1.39	1.3	-0.21	-0.09	mg/L
MS-005	South	Pb	0	0	0	0	0	mg/L
MS-005	South	PCE	0	0	0	0	0	ug/L
MS-005	South	SO4	23	16.3	14.5	-8.5	-1.8	mg/L
MS-005	South	TCE	0	0	0	0	0	ug/L
MS-005	South	TDS	256	103	237	-19	134	mg/L
MS-005	South	TOC	1.57	1.32	1.2	-0.37	-0.12	mg/L
MS-005	South	Toluene	0	0	0	0	0	ug/L
MS-005	South	VC	0	0	0	0	0	ug/L
MS-005	South	Zn	0	0	0	0	0	mg/L
MW-020	South	1,2-DCP	0	0	0	0	0	ug/L
MW-020	South	Acetone	0	0	0	0	0	ug/L
MW-020	South	ALK	232	238	222	-10	-16	mg/L as Ca
MW-020	South	As	0	0	0.00156	0.00156	0.00156	mg/L
MW-020	South	Ba	0.137	0.272	0.209	0.072	-0.063	mg/L
MW-020	South	Benzene	0	0	0	0	0	ug/L
MW-020	South	Cl	7.11	7.59	6.89	-0.22	-0.7	mg/L
MW-020	South	DCA	0.63	0.67	0.55	-0.08	-0.12	ug/L
MW-020	South	MC	0	0	0	0	0	ug/L
MW-020	South	Mn	0.0139	0.101	0.0677	0.0538	-0.0333	mg/L
MW-020	South	N-NH3	0	0	0	0	0	mg/L

StationID	DrainageArea	Analyte	2018 Results	2022 Results	2023 Results	5-Year Difference	1-Year Difference	Units
MW-020	South	N-NO3	3.83	2.08	1.74	-2.09	-0.34	mg/L
MW-020	South	Pb	0.0083	0.0173	0	-0.0083	-0.0173	mg/L
MW-020	South	PCE	0	0	0	0	0	ug/L
MW-020	South	SO4	7.07	5.63	4.12	-2.95	-1.51	mg/L
MW-020	South	TCE	0	0	0	0	0	ug/L
MW-020	South	TDS	320	225	266	-54	41	mg/L
MW-020	South	TOC	1.5	1.48	1.2	-0.3	-0.28	mg/L
MW-020	South	Toluene	0	0	0	0	0	ug/L
MW-020	South	VC	0	0	0	0	0	ug/L
MW-020	South	Zn	0.01	0.0338	0.0262	0.0162	-0.0076	mg/L
MW-023	South	1,2-DCP	0	0	0	0	0	ug/L
MW-023	South	Acetone	0	0	0	0	0	ug/L
MW-023	South	ALK	405	329	313	-92	-16	mg/L as Ca
MW-023	South	As	0	0	0	0	0	mg/L
MW-023	South	Ba	0.171	0.126	0.117	-0.054	-0.009	mg/L
MW-023	South	Benzene	0	0	0	0	0	ug/L
MW-023	South	Cl	61.9	43.5	44.4	-17.5	0.9	mg/L
MW-023	South	DCA	2.63	1.53	1.87	-0.76	0.34	ug/L
MW-023	South	MC	0	0	0	0	0	ug/L
MW-023	South	Mn	1.02	0.921	0.936	-0.084	0.015	mg/L
MW-023	South	N-NH3	0	0	0	0	0	mg/L
MW-023	South	N-NO3	0	0	0	0	0	mg/L
MW-023	South	Pb	0	0	0	0	0	mg/L
MW-023	South	PCE	0	0	0	0	0	ug/L
MW-023	South	SO4	7.9	8.96	8.58	0.68	-0.38	mg/L
MW-023	South	TCE	0	0	0	0	0	ug/L
MW-023	South	TDS	535	438	406	-129	-32	mg/L
MW-023	South	TOC	2.97	2.29	2.09	-0.88	-0.2	mg/L
MW-023	South	Toluene	0	0	0	0	0	ug/L
MW-023	South	VC	0	0	0	0	0	ug/L
MW-023	South	Zn	0	0	0	0	0	mg/L

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

SE Drainage Monitoring Wells: VOCs/SVOCs Time Series Graphs

Figure 2-50: Southeast Wells VOCs / SVOCs Concentration Graphs

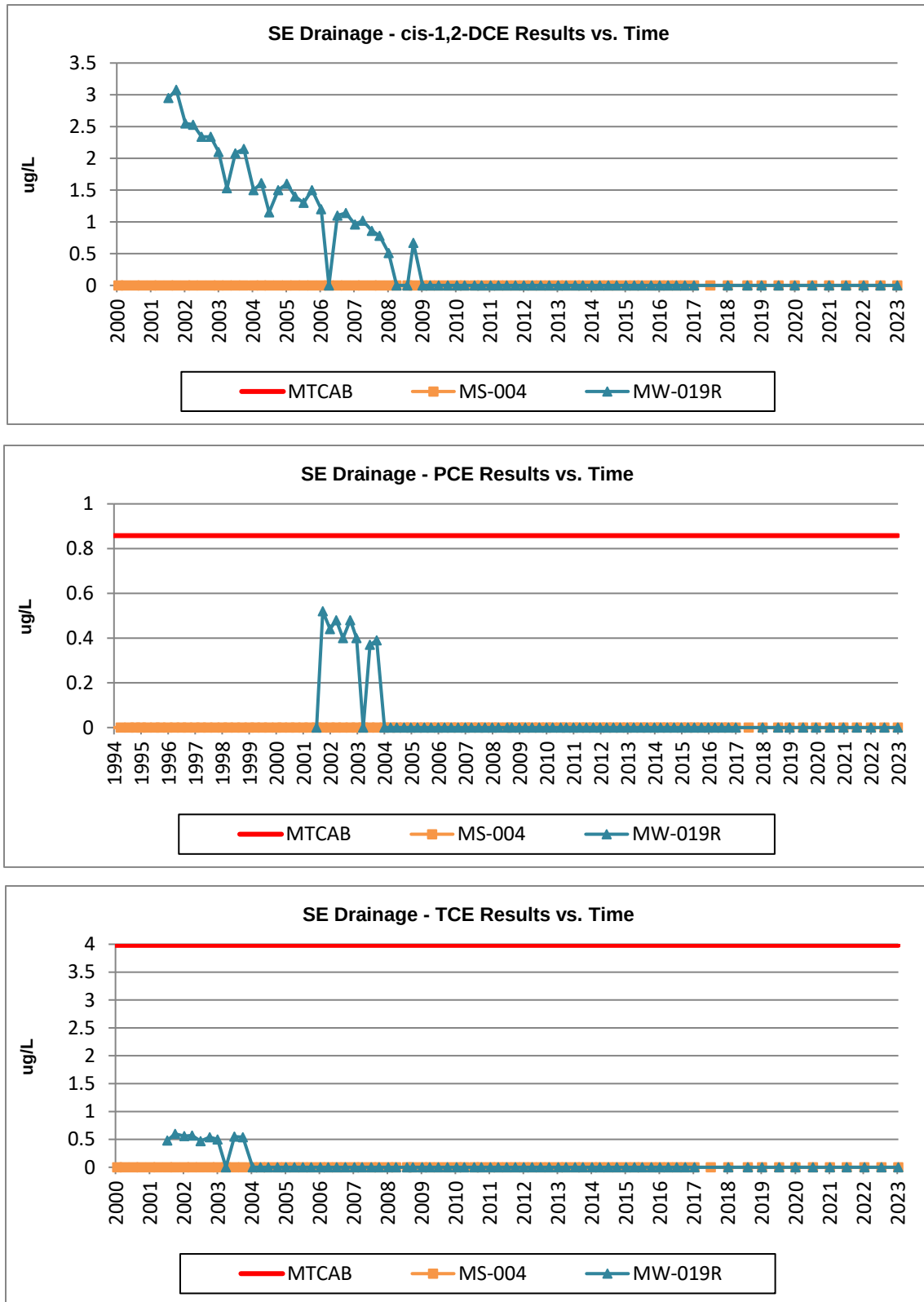
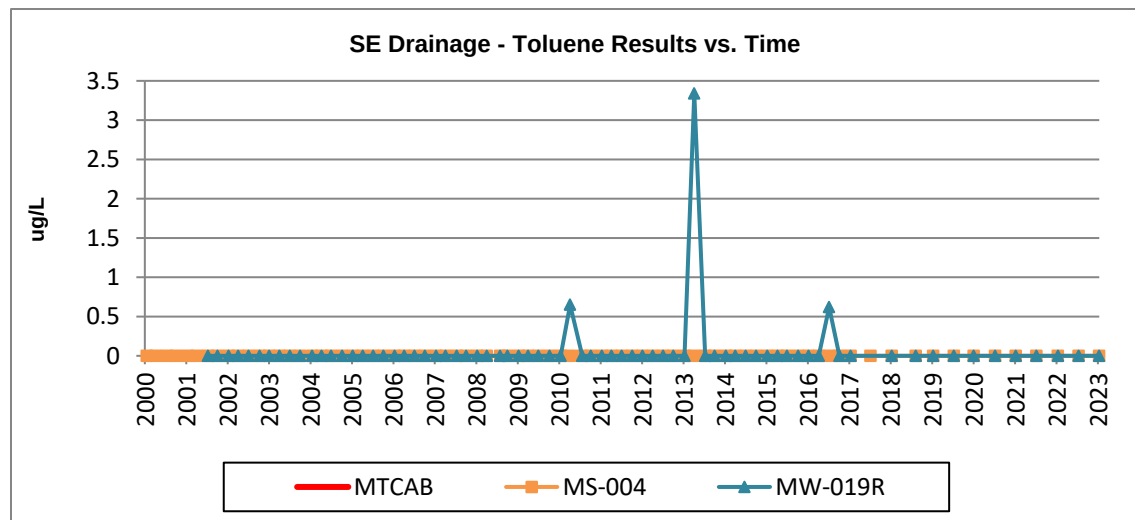
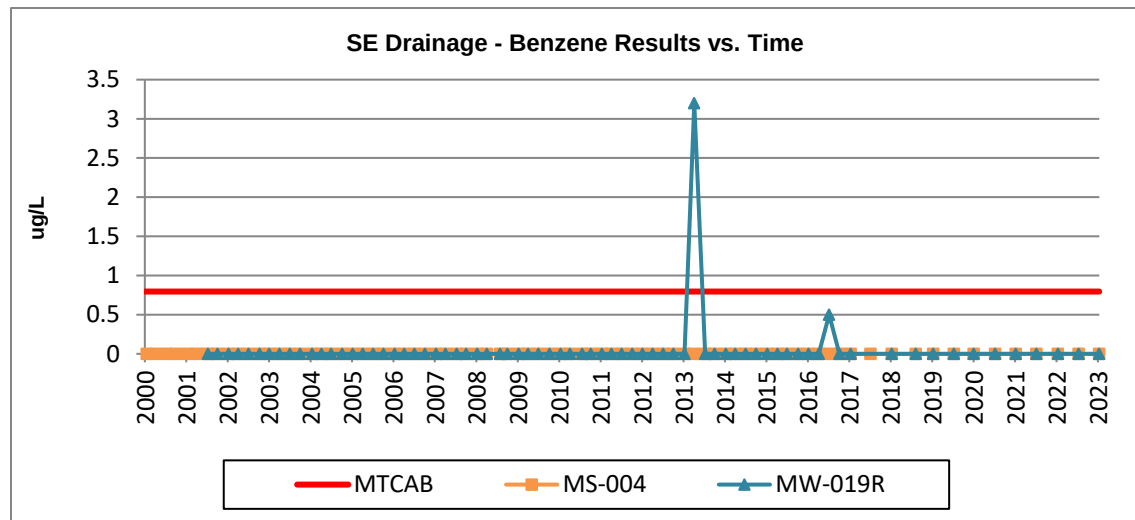
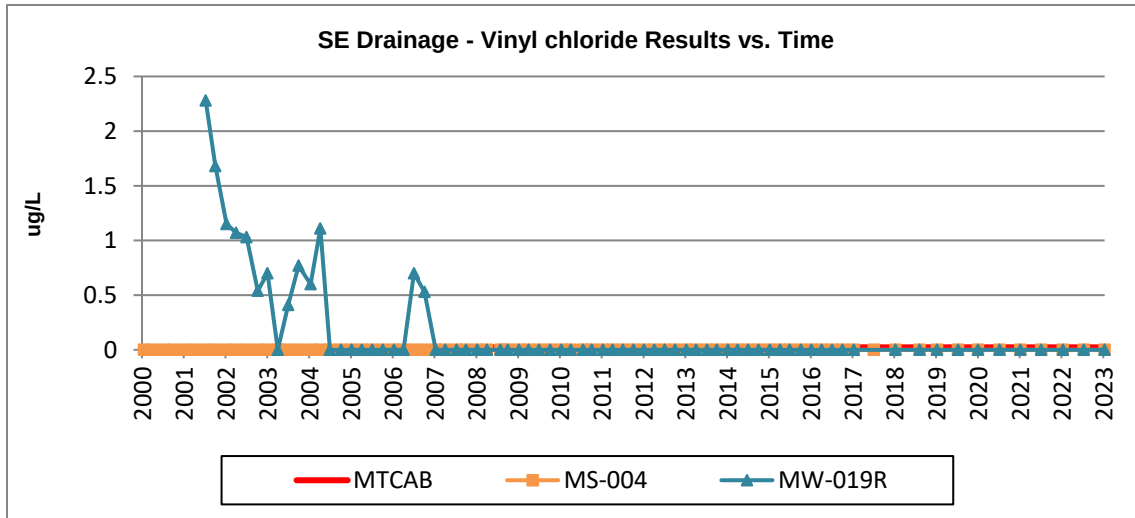


Figure 2-51: Southeast Wells VOCs / SVOCs Concentration Graphs



SE Drainage Monitoring Wells: Inorganics Time Series Graphs

Figure 2-52: SE Wells Inorganics Concentration Graphs

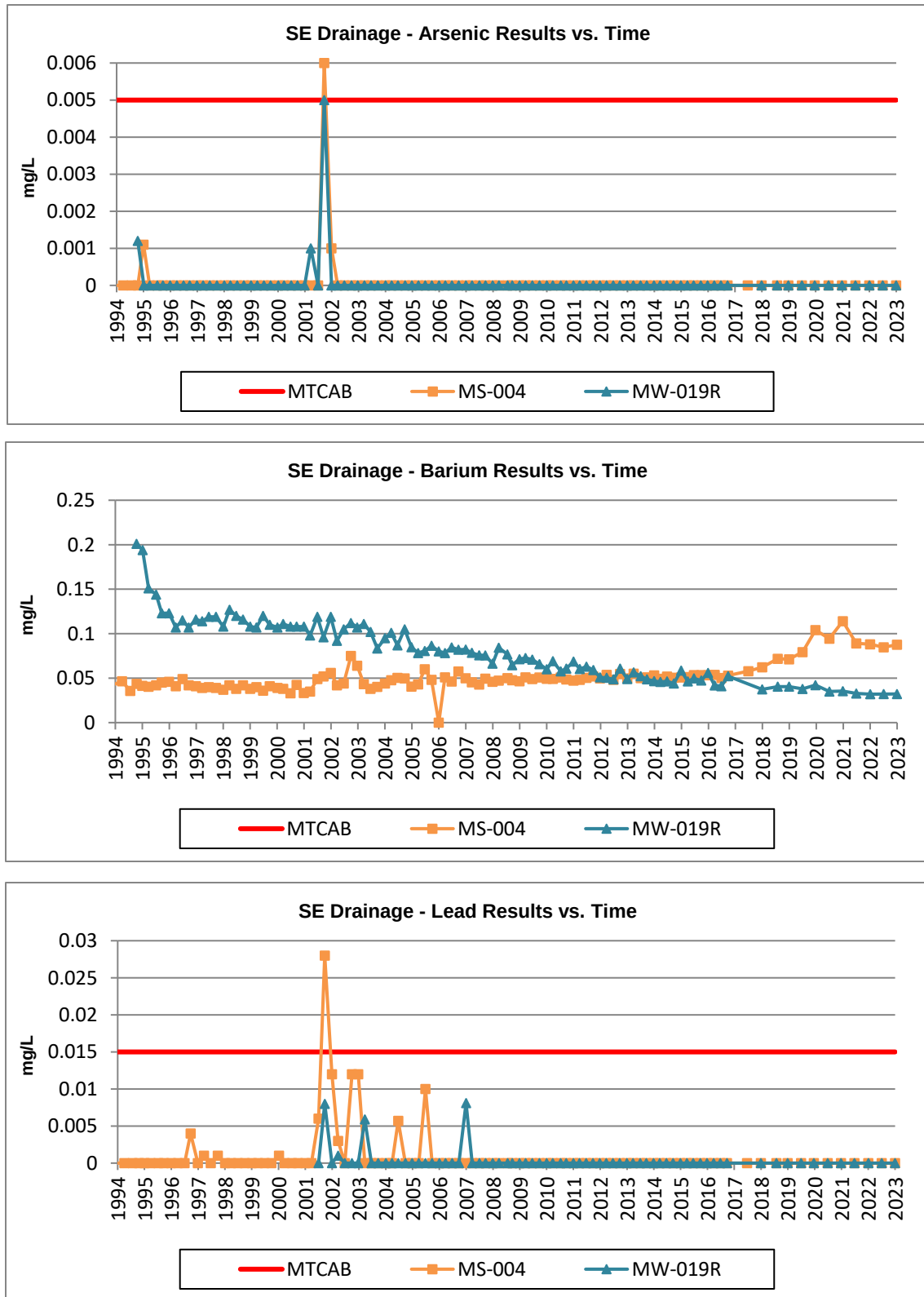
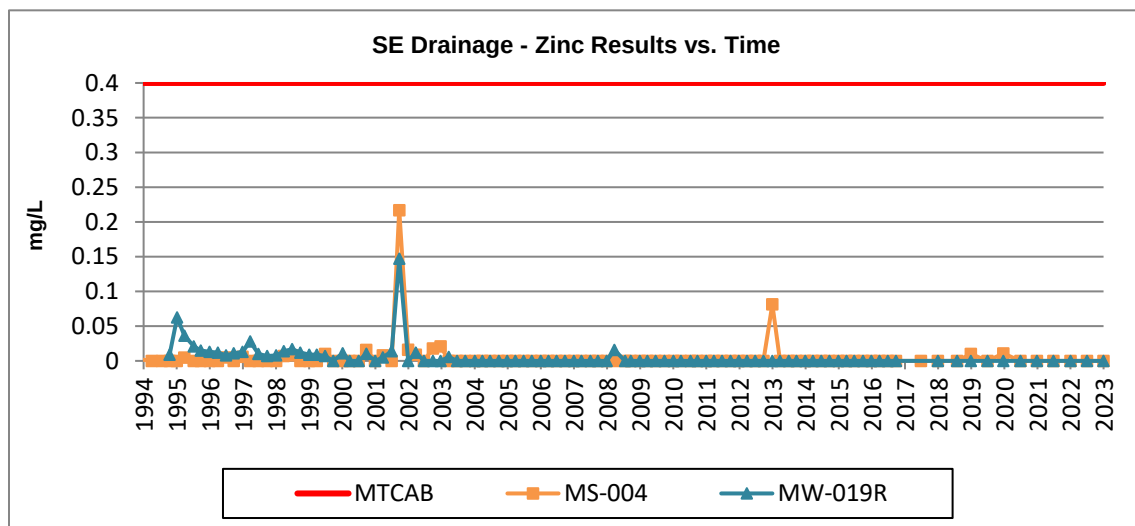
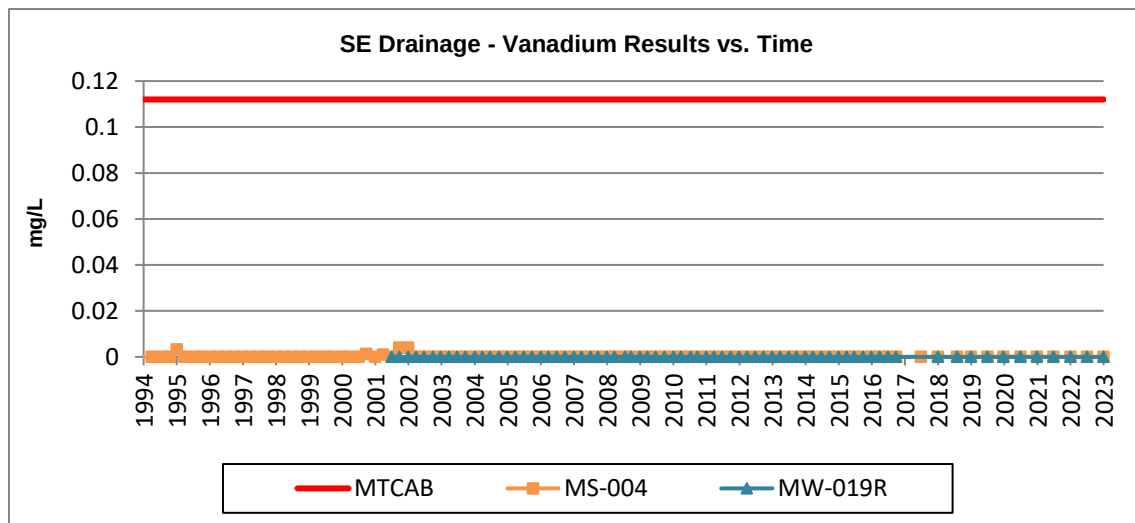
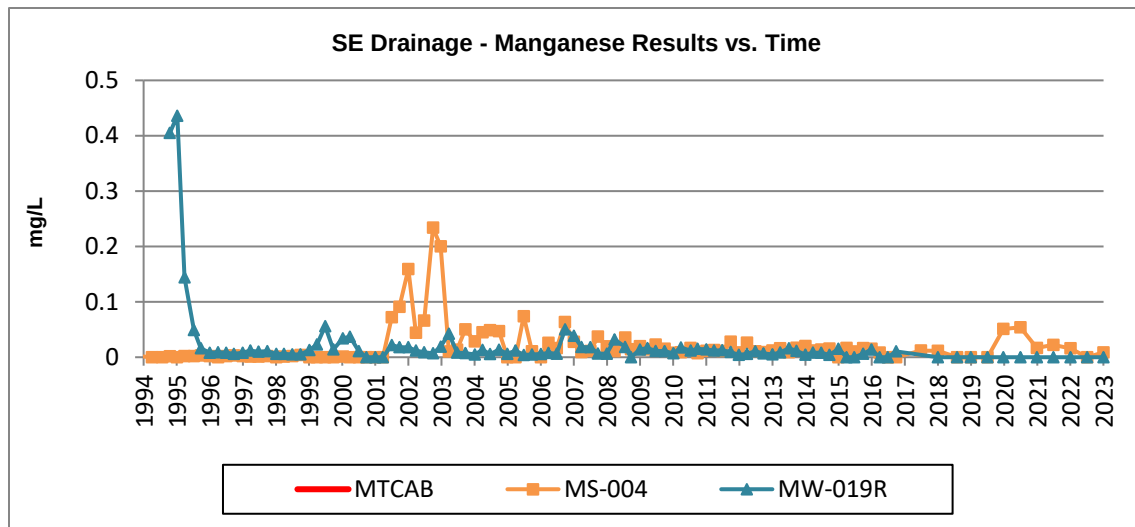


Figure 2-53: SE Wells Inorganics Concentration Graphs (cont.)



SE Drainage Monitoring Wells: Conventional Time Series Graphs

Figure 2-54: SE Wells Conventional Concentration Graphs

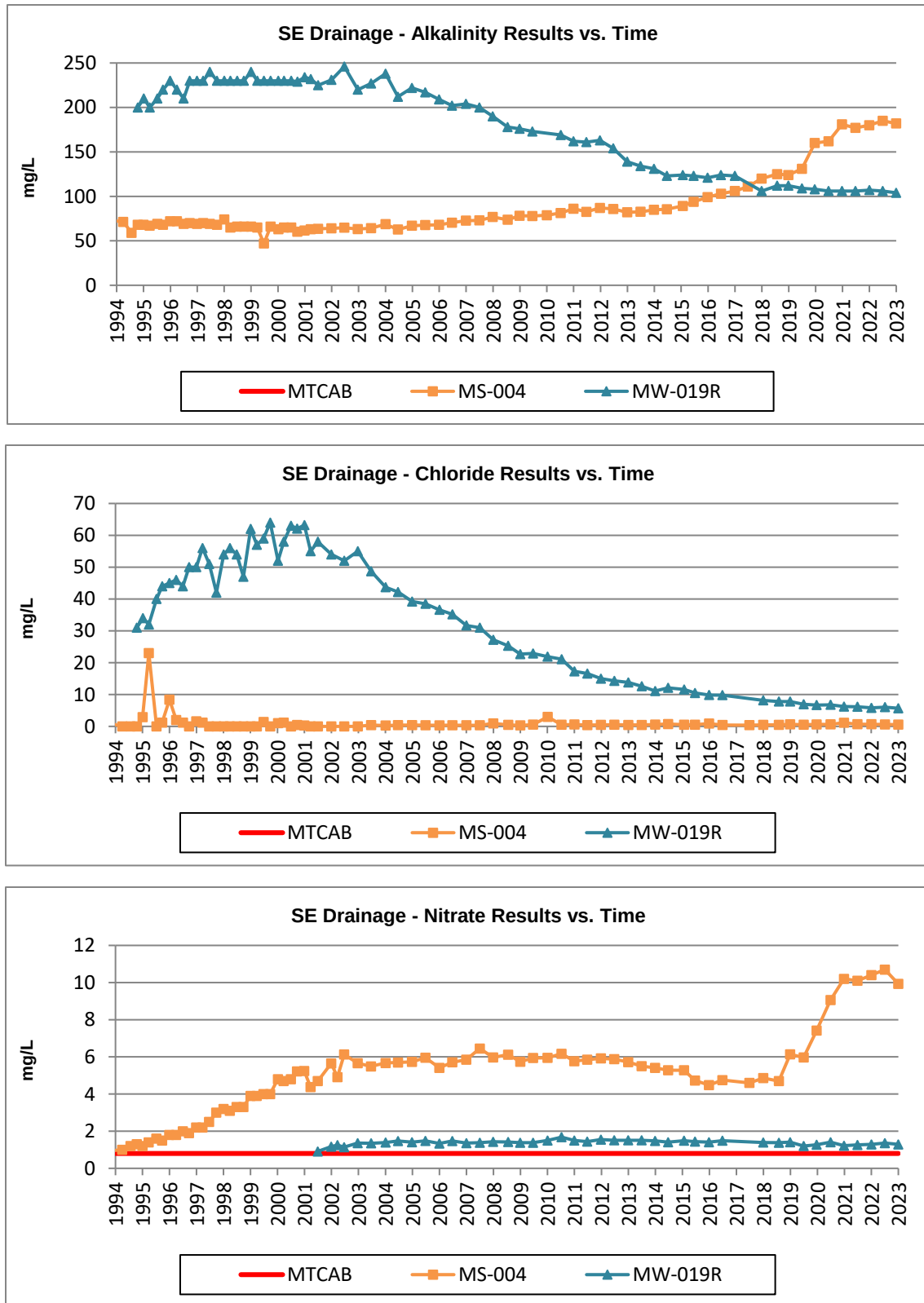
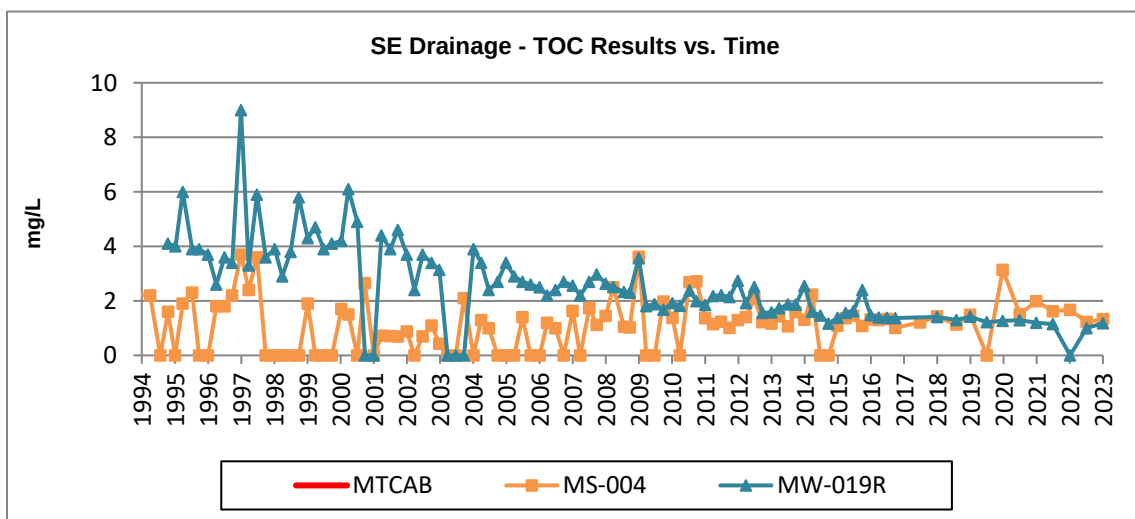
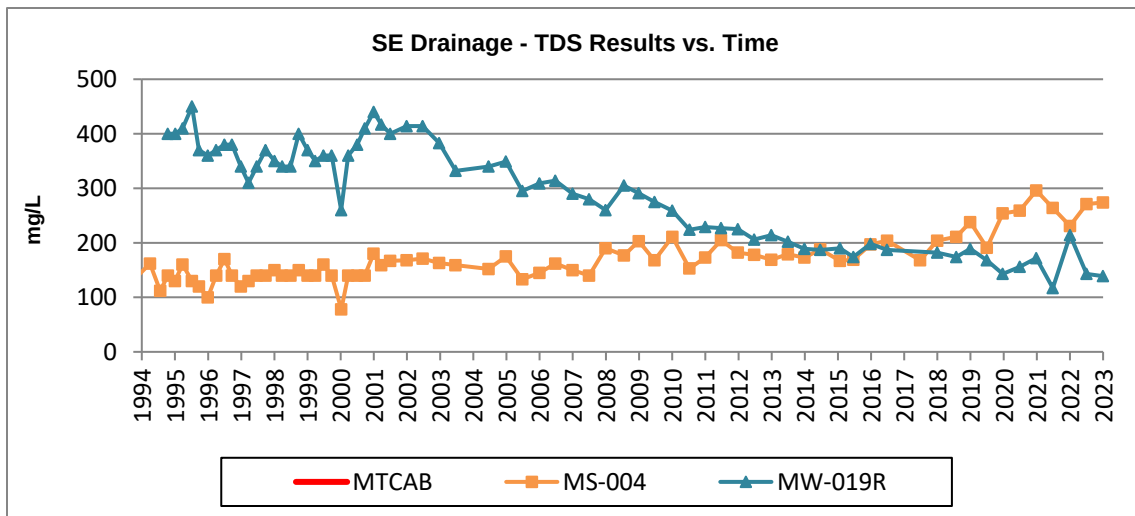
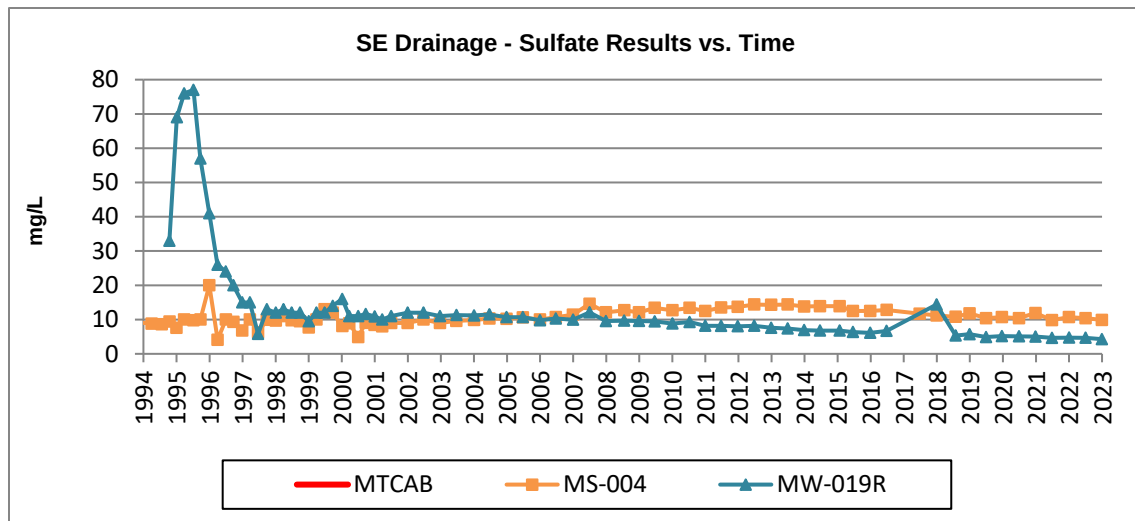


Figure 2-55: SE Wells Conventional Concentration Graphs (cont.)



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

StationID	DrainageArea	Analyte	2018 Results	2022 Results	2023 Results	5-Year Difference	1-Year Difference	Units
MS-004	Southeast	1,2-DCP	0	0	0	0	0	ug/L
MS-004	Southeast	Acetone	0	0	0	0	0	ug/L
MS-004	Southeast	ALK	120	180	182	62	2	mg/L as Ca
MS-004	Southeast	As	0	0	0	0	0	mg/L
MS-004	Southeast	Ba	0.0622	0.0881	0.0876	0.0254	-0.0005	mg/L
MS-004	Southeast	Benzene	0	0	0	0	0	ug/L
MS-004	Southeast	Cl	0.47	0.67	0.58	0.11	-0.09	mg/L
MS-004	Southeast	DCA	0	1.25	1.3	1.3	0.05	ug/L
MS-004	Southeast	MC	0	0	0	0	0	ug/L
MS-004	Southeast	Mn	0.0116	0.016	0.0087	-0.0029	-0.0073	mg/L
MS-004	Southeast	N-NH3	0	0	0	0	0	mg/L
MS-004	Southeast	N-NO3	4.86	10.4	9.93	5.07	-0.47	mg/L
MS-004	Southeast	Pb	0	0	0	0	0	mg/L
MS-004	Southeast	PCE	0	0	0	0	0	ug/L
MS-004	Southeast	SO4	11.2	10.7	9.89	-1.31	-0.81	mg/L
MS-004	Southeast	TCE	0	0	0	0	0	ug/L
MS-004	Southeast	TDS	204	231	274	70	43	mg/L
MS-004	Southeast	TOC	1.43	1.67	1.33	-0.1	-0.34	mg/L
MS-004	Southeast	Toluene	0	0	0	0	0	ug/L
MS-004	Southeast	VC	0	0	0	0	0	ug/L
MS-004	Southeast	Zn	0	0	0	0	0	mg/L
MW-019R	Southeast	1,2-DCP	0	0	0	0	0	ug/L
MW-019R	Southeast	Acetone	0	0	0	0	0	ug/L
MW-019R	Southeast	ALK	106	107	104	-2	-3	mg/L as Ca
MW-019R	Southeast	As	0	0	0	0	0	mg/L
MW-019R	Southeast	Ba	0.0374	0.032	0.0322	-0.0052	0.0002	mg/L
MW-019R	Southeast	Benzene	0	0	0	0	0	ug/L
MW-019R	Southeast	Cl	8.18	5.82	5.7	-2.48	-0.12	mg/L
MW-019R	Southeast	DCA	0	0	0	0	0	ug/L
MW-019R	Southeast	MC	0	0	0	0	0	ug/L
MW-019R	Southeast	Mn	0	0	0	0	0	mg/L
MW-019R	Southeast	N-NH3	0	0	0	0	0	mg/L
MW-019R	Southeast	N-NO3	1.39	1.29	1.29	-0.1	0	mg/L
MW-019R	Southeast	Pb	0	0	0	0	0	mg/L
MW-019R	Southeast	PCE	0	0	0	0	0	ug/L
MW-019R	Southeast	SO4	14.4	4.72	4.28	-10.12	-0.44	mg/L
MW-019R	Southeast	TCE	0	0	0	0	0	ug/L
MW-019R	Southeast	TDS	182	214	139	-43	-75	mg/L
MW-019R	Southeast	TOC	1.41	0	1.18	-0.23	1.18	mg/L
MW-019R	Southeast	Toluene	0	0	0	0	0	ug/L
MW-019R	Southeast	VC	0	0	0	0	0	ug/L
MW-019R	Southeast	Zn	0	0	0	0	0	mg/L

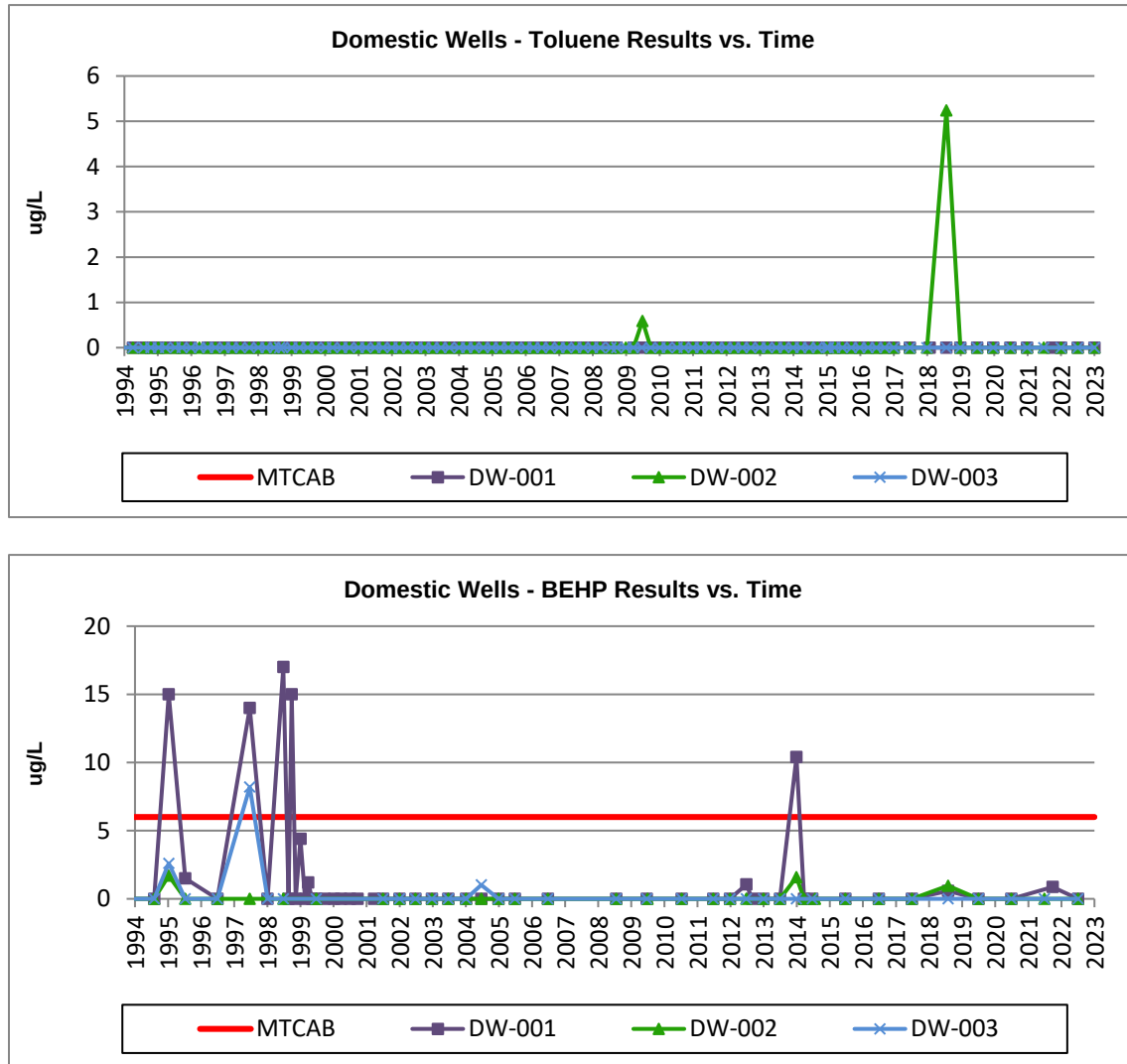
Analytes that exceeded clean-up criteria this reporting period are displayed in **ORANGE**.

Increases in analyte concentrations are highlighted in **RED**.

Decreases in analyte concentrations are highlighted in **BLUE**.

Domestic Wells: VOCs/SVOCs Time Series Graphs

Figure 2-56: Domestic Wells VOCs / SVOCs Concentration Graphs



Domestic Wells: Inorganics Time Series Graphs

Figure 2-57: Domestic Wells Inorganics Concentration Graphs (cont.)

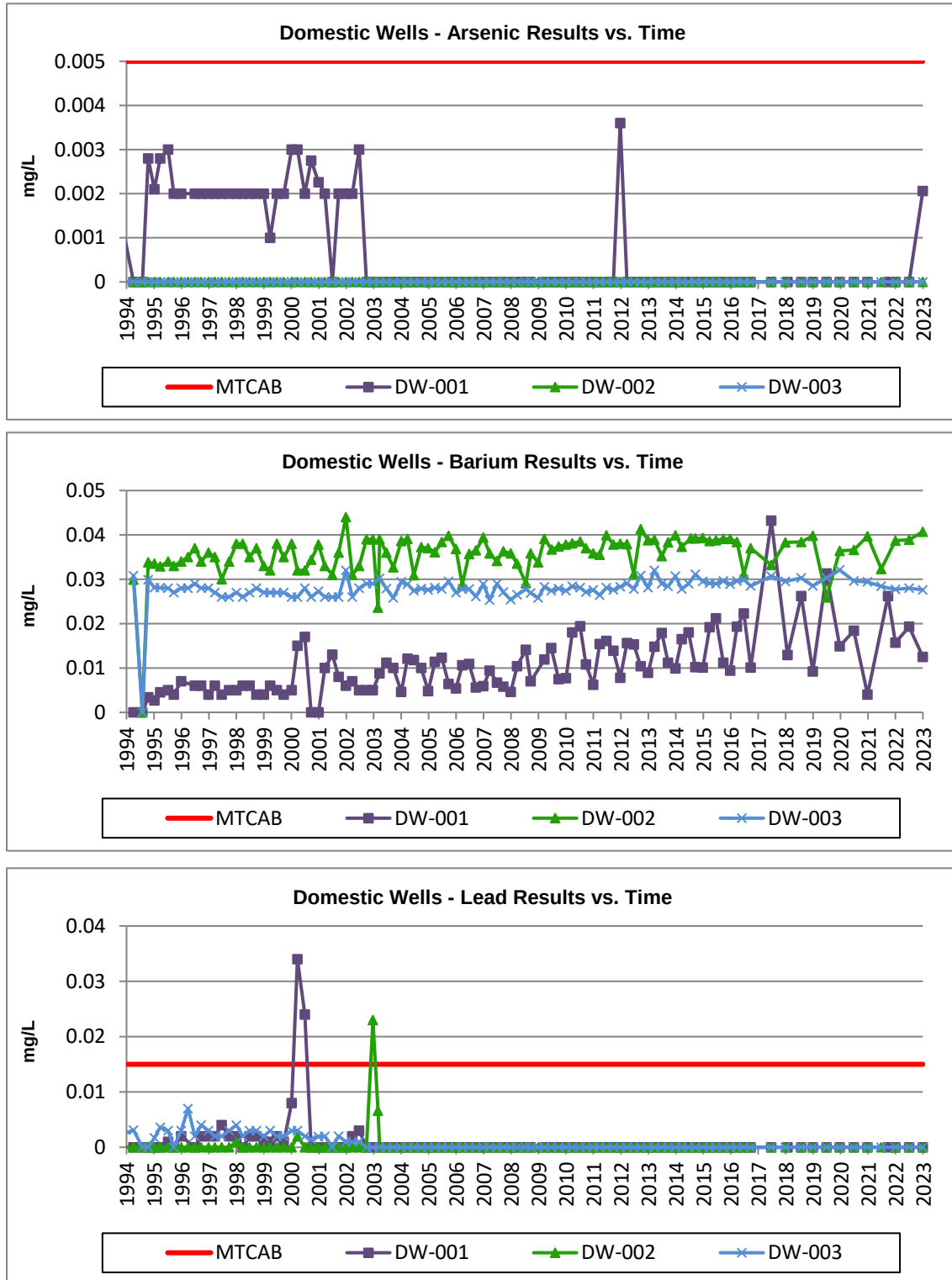
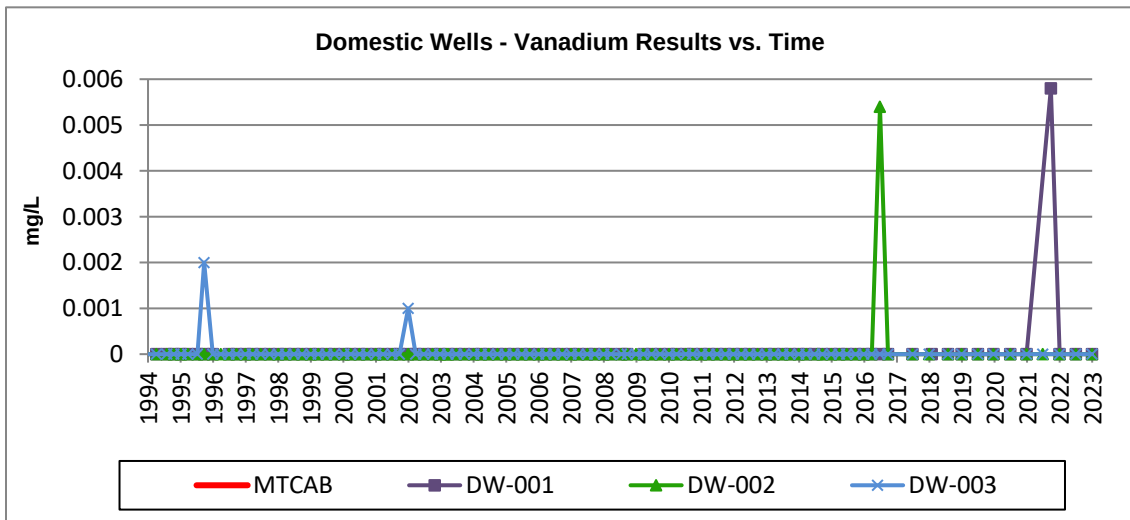
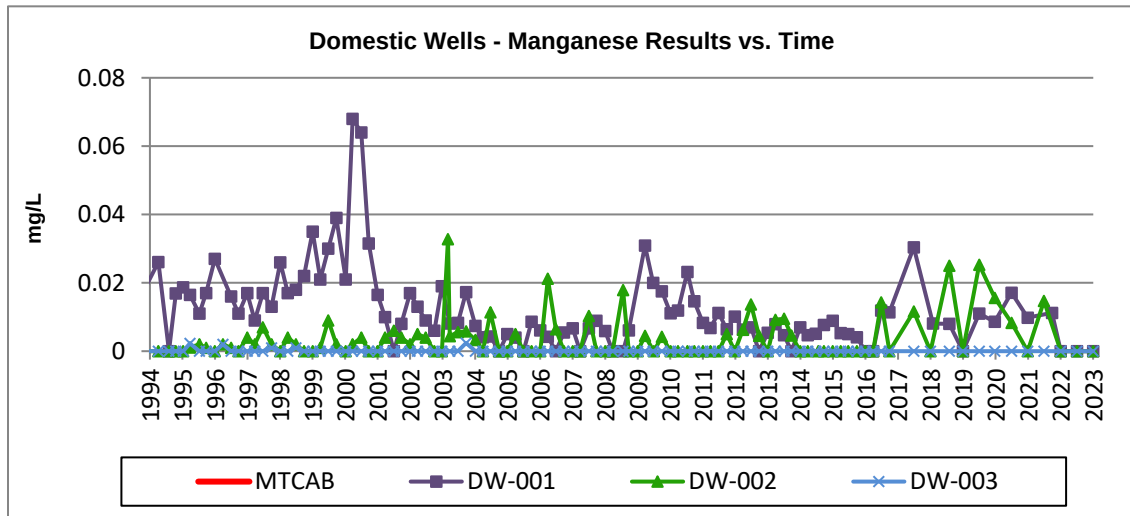
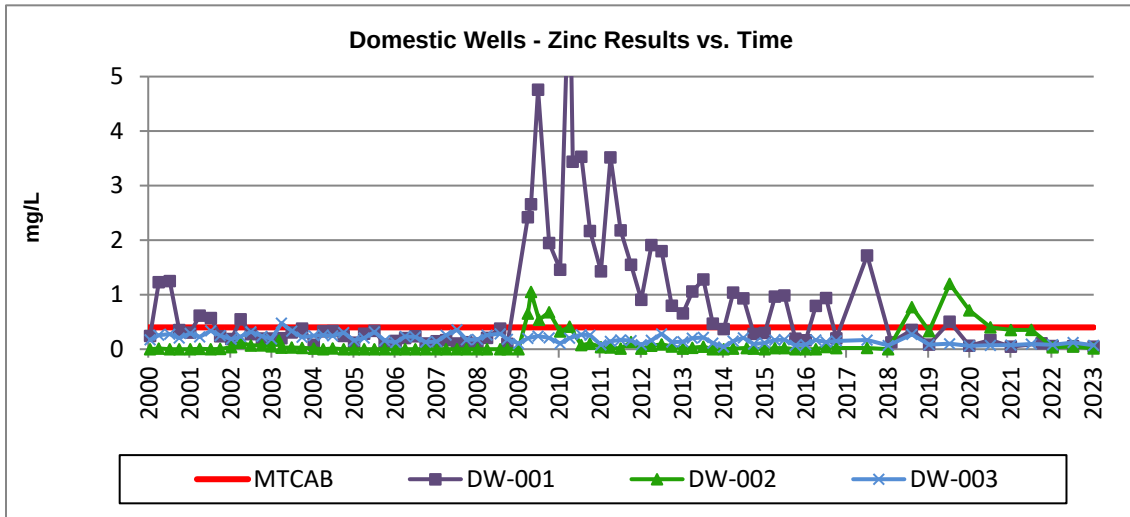


Figure 2-58: Domestic Wells Inorganics Concentration Graphs (cont.)



Domestic Wells: Conventional Time Series Graphs

Figure 2-59: Domestic Wells Conventional Concentration Graphs

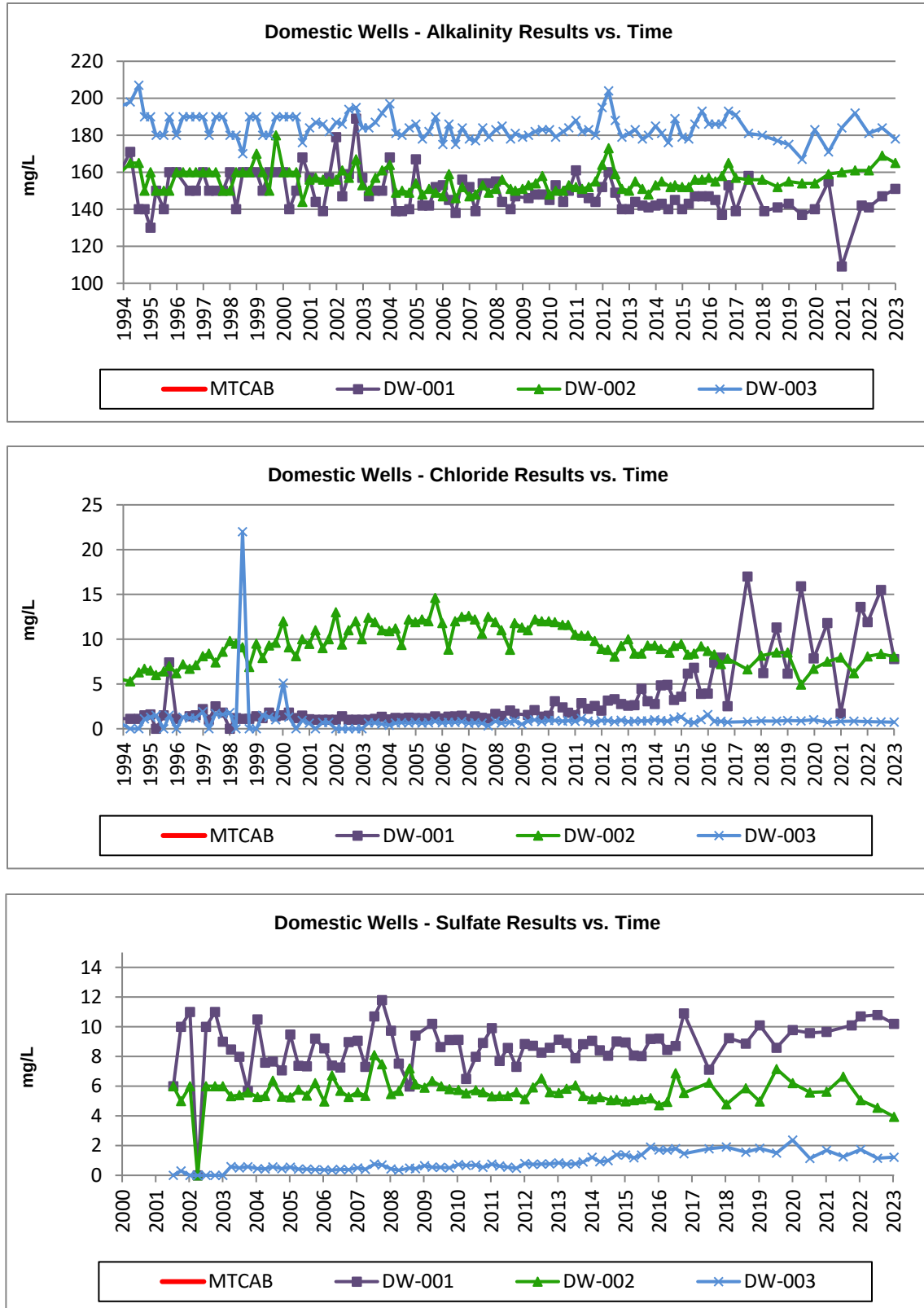
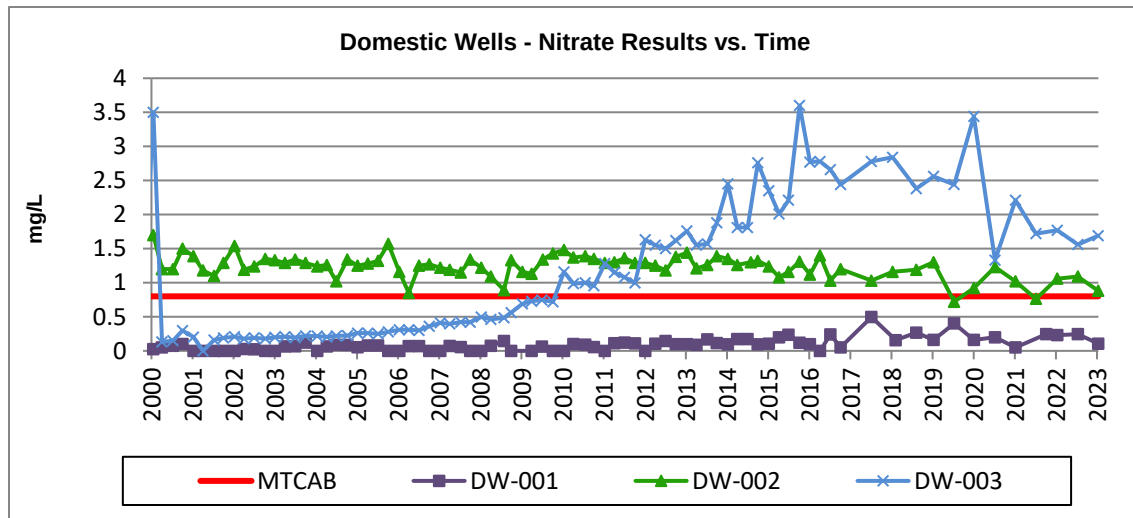


Figure 2-60: Domestic Wells Conventional Concentration Graphs (cont.)



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

StationID	DrainageArea	Analyte	2018 Results	2022 Results	2023 Results	5-Year Difference	1-Year Difference	Units
DW-001	Domestic	1,2-DCP	0	0	0	0	0	ug/L
DW-001	Domestic	Acetone	0	0	0	0	0	ug/L
DW-001	Domestic	ALK	139	141	151	12	10	mg/L as Ca
DW-001	Domestic	As	0	0	0.00206	0.00206	0.00206	mg/L
DW-001	Domestic	Ba	0.0129	0.0157	0.0125	-0.0004	-0.0032	mg/L
DW-001	Domestic	Benzene	0	0	0	0	0	ug/L
DW-001	Domestic	Cl	6.21	11.9	7.79	1.58	-4.11	mg/L
DW-001	Domestic	DCA	0	0	0	0	0	ug/L
DW-001	Domestic	MC	0	0	0	0	0	ug/L
DW-001	Domestic	Mn	0.0081	0	0	-0.0081	0	mg/L
DW-001	Domestic	N-NH3	0	0	0	0	0	mg/L
DW-001	Domestic	N-NO3	0.157	0.231	0.105	-0.052	-0.126	mg/L
DW-001	Domestic	Pb	0	0	0	0	0	mg/L
DW-001	Domestic	PCE	0	0	0	0	0	ug/L
DW-001	Domestic	SO4	9.24	10.7	10.2	0.96	-0.5	mg/L
DW-001	Domestic	TCE	0	0	0	0	0	ug/L
DW-001	Domestic	TOC	0	1.11	0	0	-1.11	mg/L
DW-001	Domestic	Toluene	0	0	0	0	0	ug/L
DW-001	Domestic	VC	0	0	0	0	0	ug/L
DW-001	Domestic	Zn	0.126	0.0598	0.0473	-0.0787	-0.0125	mg/L
DW-002	Domestic	1,2-DCP	0	0	0	0	0	ug/L
DW-002	Domestic	Acetone	0	0	5.63	5.63	5.63	ug/L
DW-002	Domestic	ALK	156	161	163	7	2	mg/L as Ca
DW-002	Domestic	As	0	0	0	0	0	mg/L
DW-002	Domestic	Ba	0.0383	0.0387	0.0406	0.0023	0.0019	mg/L
DW-002	Domestic	Benzene	0	0	0	0	0	ug/L
DW-002	Domestic	Cl	8.16	8.08	8.04	-0.12	-0.04	mg/L
DW-002	Domestic	DCA	0	0	0	0	0	ug/L
DW-002	Domestic	MC	0	0	0	0	0	ug/L
DW-002	Domestic	Mn	0	0	0	0	0	mg/L
DW-002	Domestic	N-NH3	0	0	0	0	0	mg/L

StationID	DrainageArea	Analyte	2018 Results	2022 Results	2023 Results	5-Year Difference	1-Year Difference	Units
DW-002	Domestic	N-NO3	1.16	1.06	0.879	-0.281	-0.181	mg/L
DW-002	Domestic	Pb	0	0	0	0	0	mg/L
DW-002	Domestic	PCE	0	0	0	0	0	ug/L
DW-002	Domestic	SO4	4.78	5.06	3.94	-0.84	-1.12	mg/L
DW-002	Domestic	TCE	0	0	0	0	0	ug/L
DW-002	Domestic	TOC	1.18	0	0	-1.18	0	mg/L
DW-002	Domestic	Toluene	0	0	0	0	0	ug/L
DW-002	Domestic	VC	0	0	0	0	0	ug/L
DW-002	Domestic	Zn	0	0.0363	0.0146	0.0146	-0.0217	mg/L
DW-003	Domestic	1,2-DCP	0	0	0	0	0	ug/L
DW-003	Domestic	Acetone	0	0	0	0	0	ug/L
DW-003	Domestic	ALK	180	181	178	-2	-3	mg/L as Ca
DW-003	Domestic	As	0	0	0	0	0	mg/L
DW-003	Domestic	Ba	0.0295	0.0277	0.0276	-0.0019	-1E-04	mg/L
DW-003	Domestic	Benzene	0	0	0	0	0	ug/L
DW-003	Domestic	Cl	0.87	0.79	0.74	-0.13	-0.05	mg/L
DW-003	Domestic	DCA	0	0	0	0	0	ug/L
DW-003	Domestic	MC	0	0	0	0	0	ug/L
DW-003	Domestic	Mn	0	0	0	0	0	mg/L
DW-003	Domestic	N-NH3	0	0	0.039	0.039	0.039	mg/L
DW-003	Domestic	N-NO3	2.84	1.77	1.69	-1.15	-0.08	mg/L
DW-003	Domestic	Pb	0	0	0	0	0	mg/L
DW-003	Domestic	PCE	0	0	0	0	0	ug/L
DW-003	Domestic	SO4	1.91	1.74	1.22	-0.69	-0.52	mg/L
DW-003	Domestic	TCE	0	0	0	0	0	ug/L
DW-003	Domestic	TOC	0	0	0	0	0	mg/L
DW-003	Domestic	Toluene	0	0	0	0	0	ug/L
DW-003	Domestic	VC	0	0	0	0	0	ug/L
DW-003	Domestic	Zn	0.069	0.0811	0.0709	0.0019	-0.0102	mg/L

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

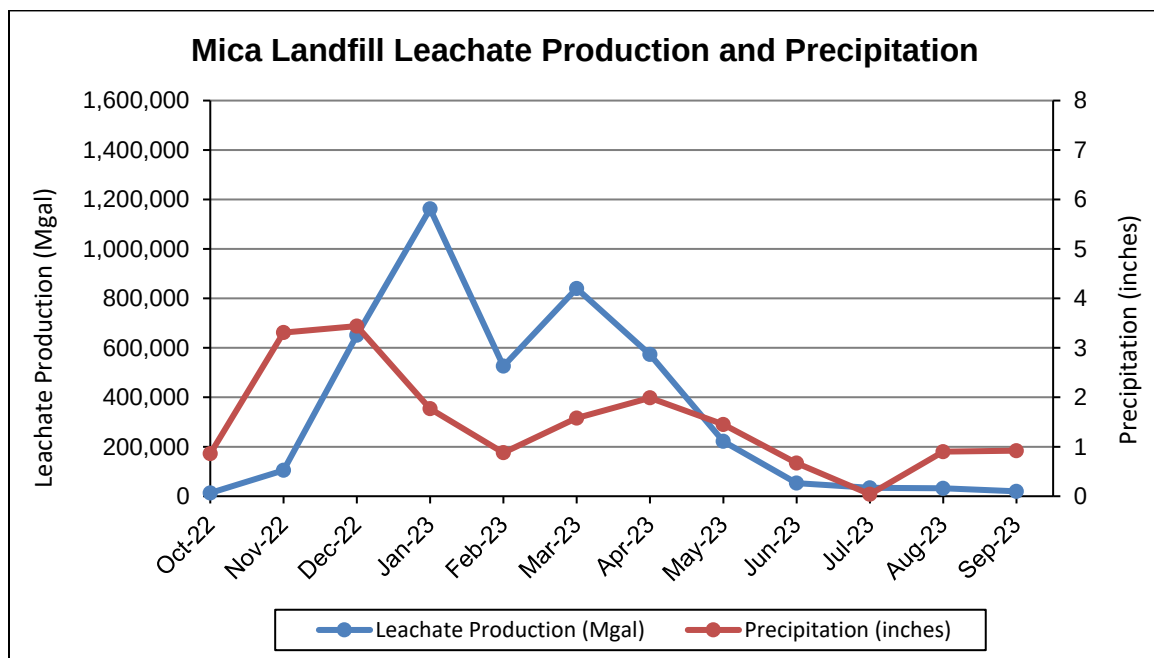
3 LEACHATE

3.1 LEACHATE DATA

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

LEACHATE PRODUCTION

Monthly and quarterly leachate production rates are presented in Table 3-1 along with local precipitation amounts. Total annual production rates and precipitation totals versus time are shown in Figure 3-6. The total amount of leachate generated at the Mica Landfill from October 2022 through September 2023 was approximately 4,230,493 gallons. Leachate probes LP-1, LP-2, LP-3, and LP-5 were dry, and static water levels could not be obtained.



Leachate Hydrographs

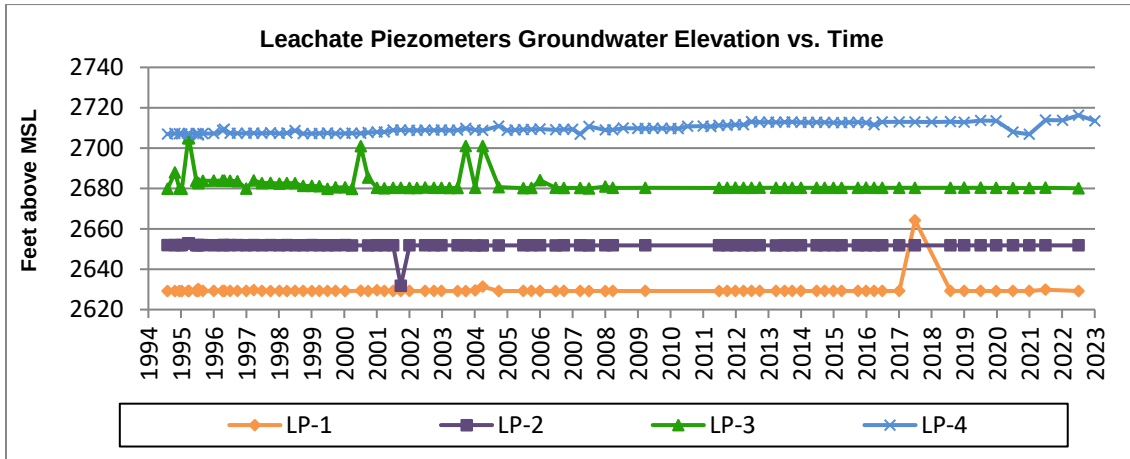


Figure 3-1: Leachate Piezometers Groundwater Elevations vs. Time

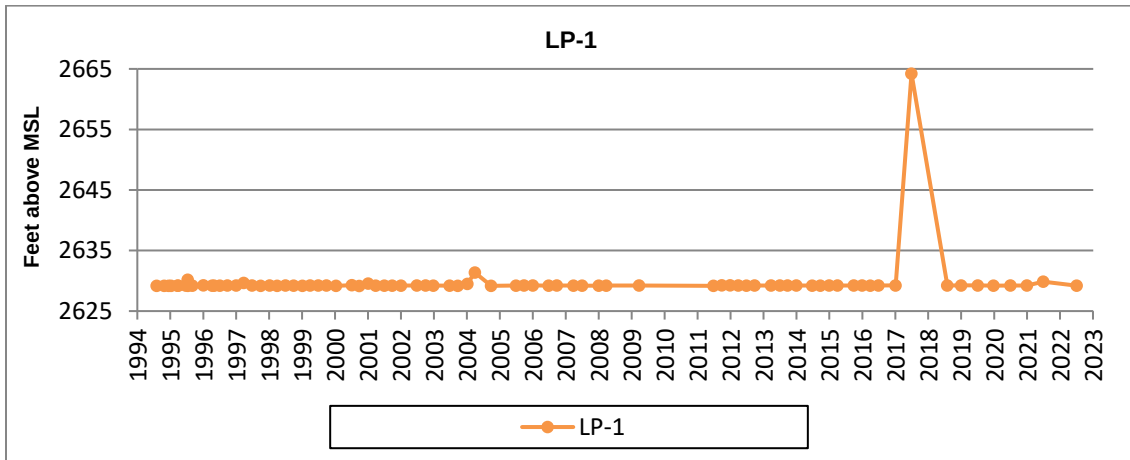


Figure 3-2: LP-1 Groundwater Elevations vs. Time

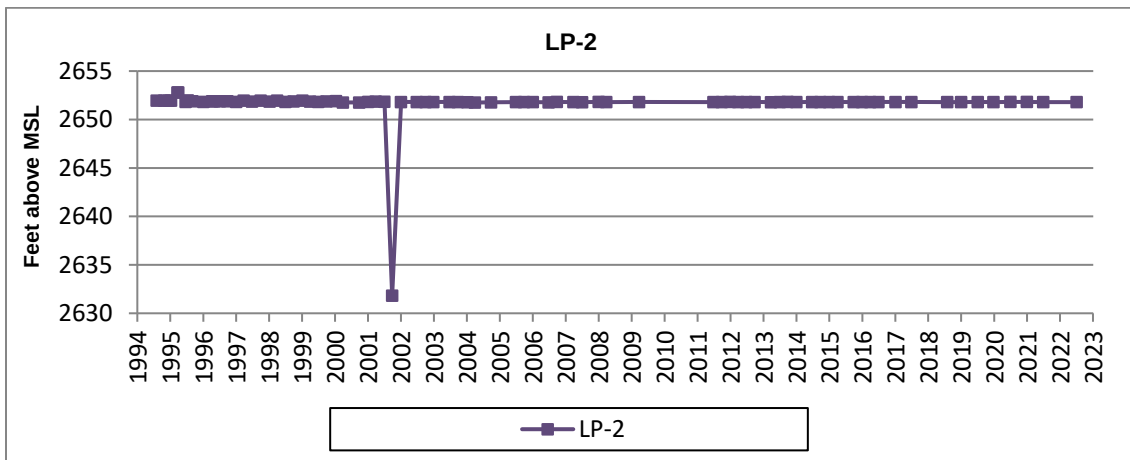


Figure 3-3: LP-2 Groundwater Elevations vs. Time

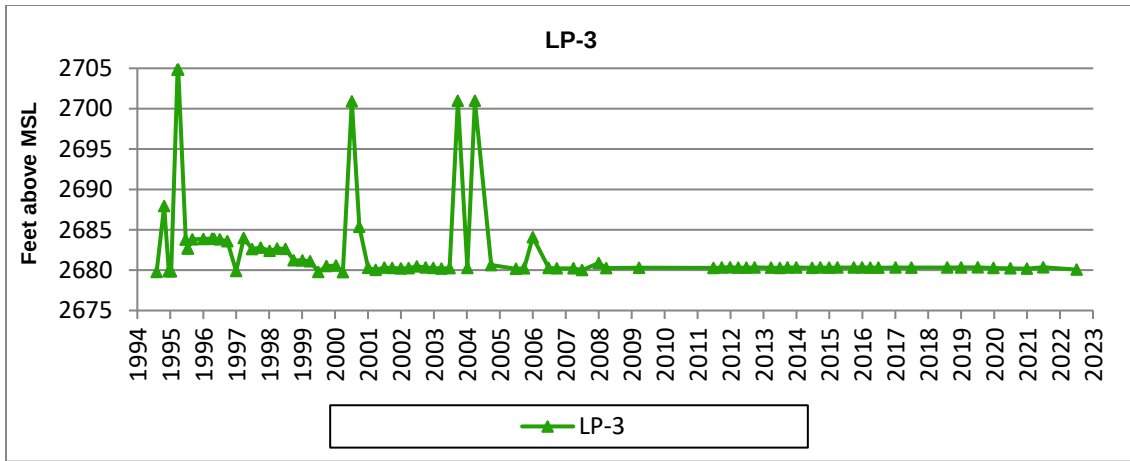


Figure 3-4: LP-3 Groundwater Elevations vs. Time

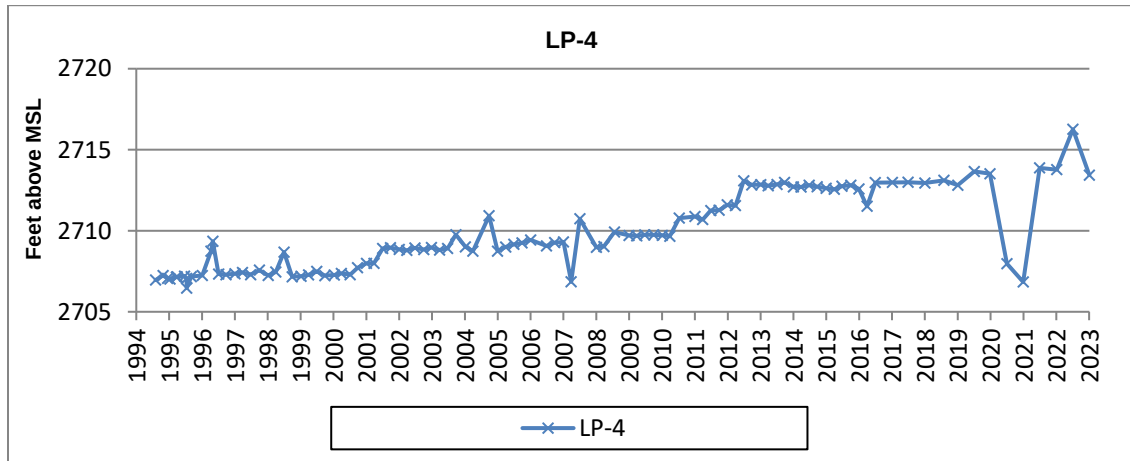


Figure 3-5: LP-4 Groundwater Elevations vs. Time

Leachate Production Summary

Table 3-1: Leachate Production Summary for the Reporting Period

Month	Leachate Volume (gal)	Precipitation (inches)
Oct-22	13,169	0.86
Nov-22	104,811	3.31
Dec-22	650,703	3.44
Jan-23	1,162,083	1.77
Feb-23	525,910	0.88
Mar-23	840,226	1.58
Apr-23	573,110	1.99
May-23	221,950	1.45
Jun-23	53,114	0.67
Jul-23	33,882	0.04
Aug-23	32,028	0.9
Sep-23	19,507	0.92
Total - Annual	4,230,493	17.81

Annual Leachate Production Rates and Precipitation Data vs. Time

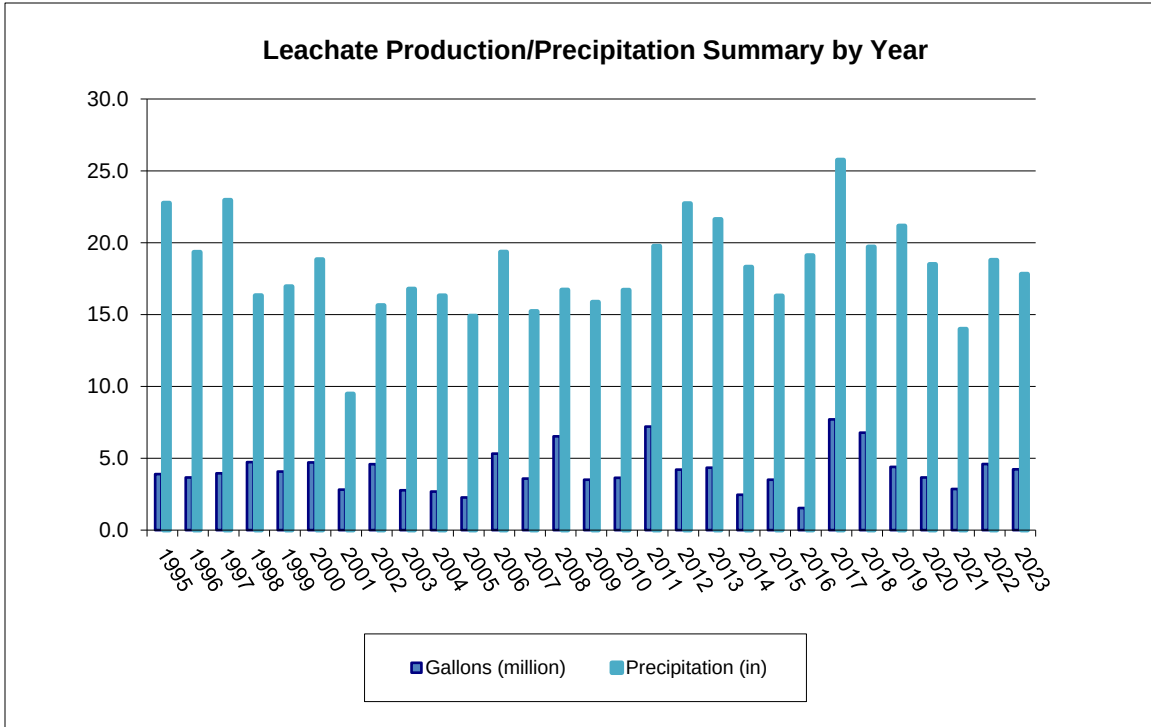


Figure 3-6: Leachate Production/Precip Summary by Year

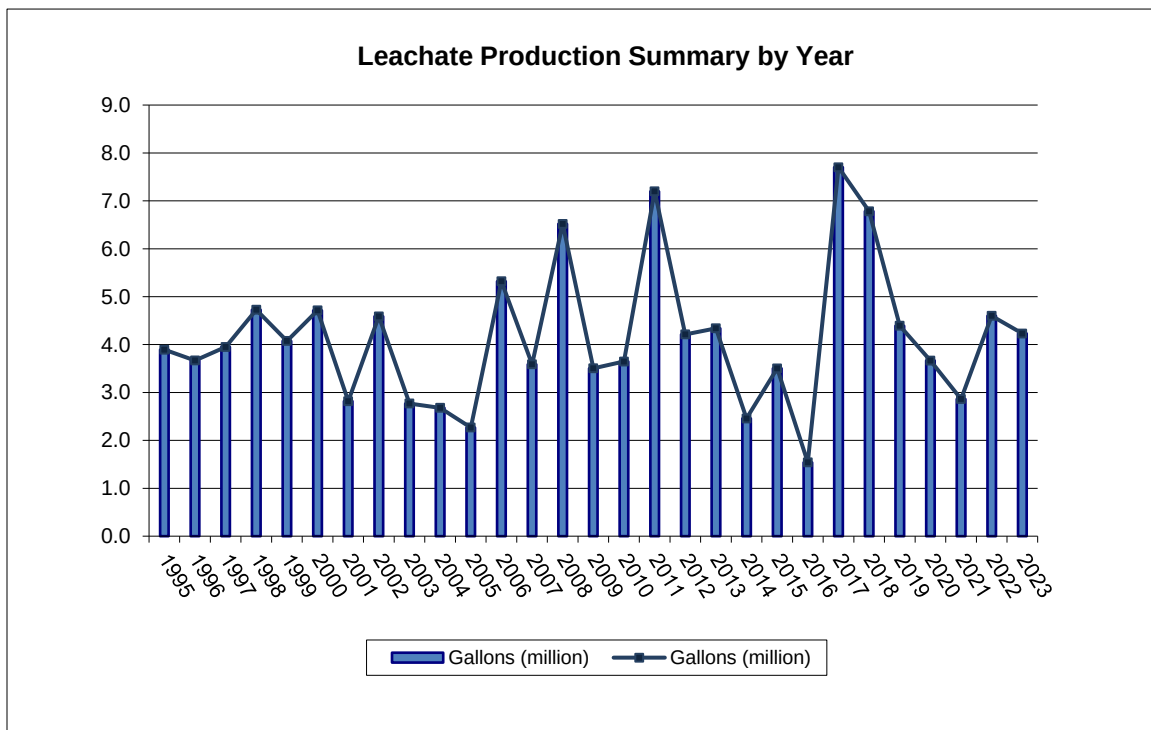


Figure 3-7: Leachate Production Summary by Year

4 LANDFILL GAS

Mica Landfill Flare and Gas Probe Locations

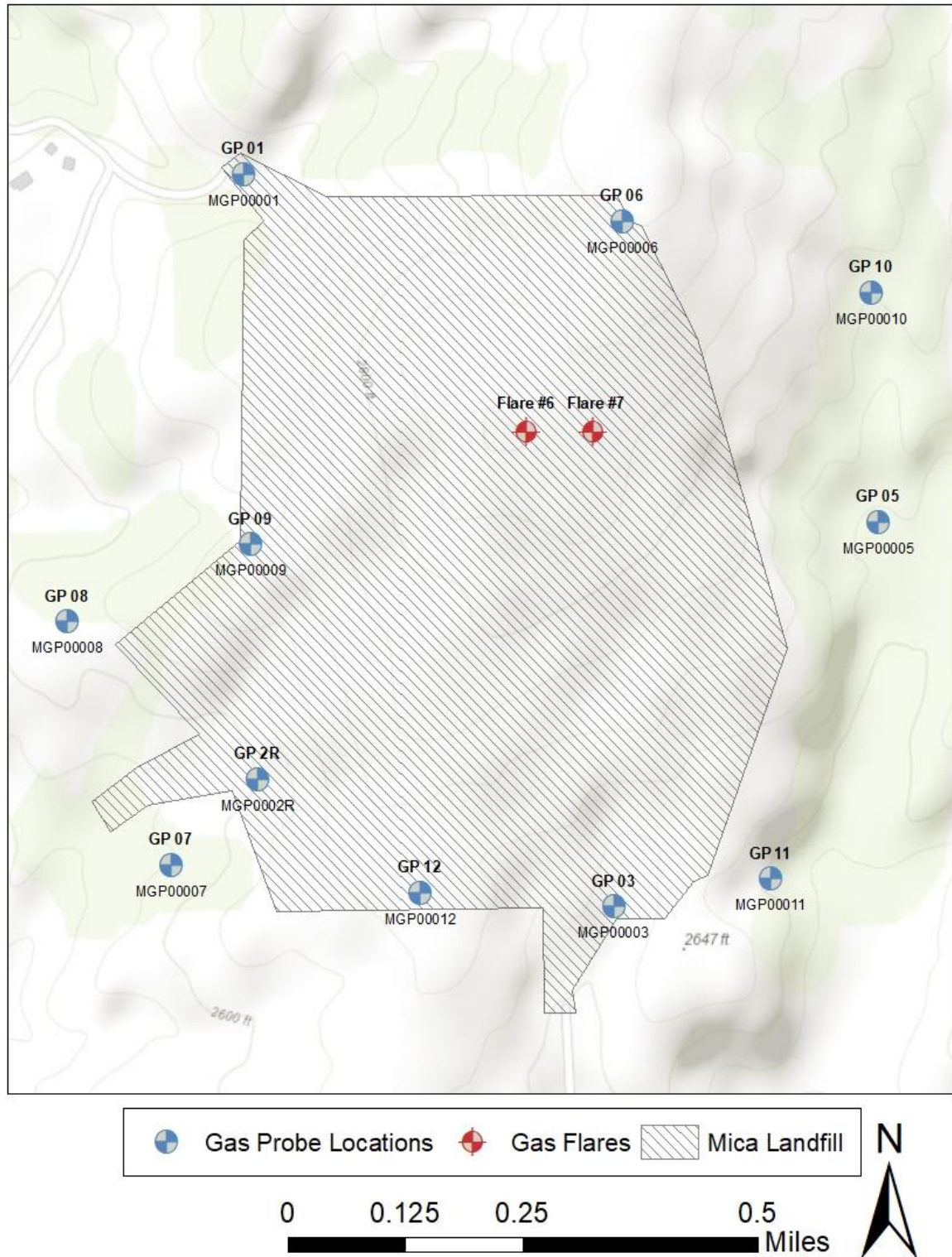


Figure 4-1: Flare and perimeter gas probe locations

FLARE STATIONS

A summary of monitoring results from the operational flare stations is presented in Table 4-1. The Mica Landfill produced an estimated 23.95 million cubic feet of landfill gas in 2023. The average methane concentration was approximately 37.9%.

GAS PROBES

Monthly gas probe monitoring results are presented in APPENDIX D - LANDFILL GAS PROBE MEASUREMENTS. There were no methane detections near or above the regulatory criteria of 5% during this annual reporting period.

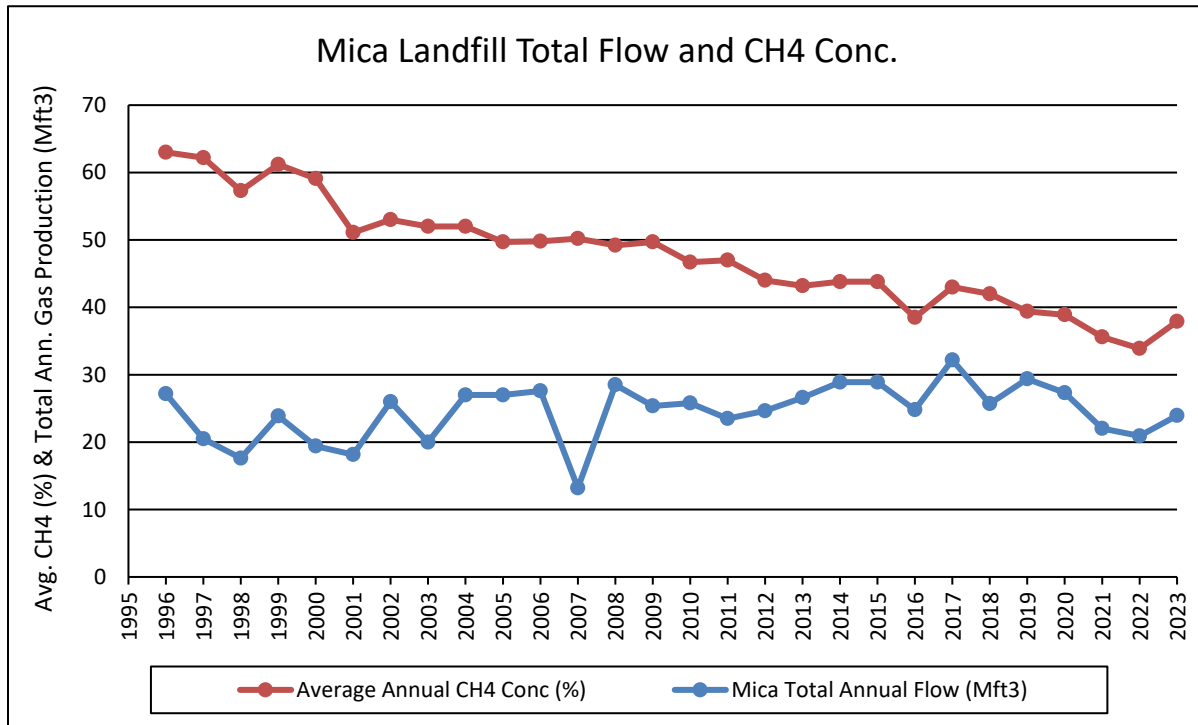


Figure 4-2: Total Annual Gas Production (Mft³) and Avg. Annual CH₄ Conc. (%)

MICA FLARE STATION SUMMARY

Table 4-1: Annual Summary of Mica Landfill Flare Stations

Mica Landfill Emission Point Summary for 2023				
	Flare 6		Flare 7	
DATE	flow	%CH4	flow	%CH4
Jan-23	176	28	137	33.9
Feb-23	383	43.7	303	39.7
Mar-23	330	28.5	325	28.4
Apr-23	585	34.1	550	30.7
May-23	722	39.3	694	36.5
Jun-23	320	32.3	310	30.1
Jul-23	123	40.7	111	44.2
Aug-23	375	41.2	355	40.3
Sep-23	750	48.6	700	46.1
Oct-23	730	48.3	670	46.5
Nov-23	180	42.1	120	38
Dec-23	361	37.8	191	31.7
Total	5035	464.6	4466	446.1
Average	419.6	38.7	372.2	37.2

Flare 6:	419.6	* 0.66 * 0.0872	= 24.14786	* 525,600/10 ⁶ =	12.69
Flare 7:	372.2	* 0.66 * 0.0872	= 21.418936	* 525,600/10 ⁶ =	11.26
Total=					23.95 Mft3

5 MICA LANDFILL SETTLEMENT DATA

5.1 MICA LANDFILL SETTLEMENT INFORMATION

There are currently a total of 11 settlement markers at the Mica Landfill. Settlement marker locations are presented in Figure 5-1. The last settlement marker survey for the Mica Landfill was conducted on October 26th, 2022. Table 5-1 presents a summary of the differences measured at the settlement markers between 2021/2022 and 1999/2022. Settlement markers MSMR1 and MSMR2 are replacement settlement markers for MSM1 and MSM2, respectively. Overall, there were very small differences in elevation observed at the settlement markers between 2021 and 2022. Since 1999, settlement markers MSM3, MSM5, and MSM11 have shown greater than 2 ft. differences in elevation. County personnel are learning to conduct the settlement surveying in-house, so the next Mica Landfill settlement marker survey will be conducted in 2024.

Table 5-1: Summary of Survey Measurement Differences

Settlement Marker ID	Elevation - 2022	Difference in Elevation from 2021		Difference in Elevation from 1999
MSMR1	2738.18	-0.045	▼	N/A
MSMR2	2723.96	-0.007	▼	N/A
MSM3	2797.17	-0.067	▼	-2.81
MSM4	2765.60	0.000	--	-0.89
MSM5	2852.48	-0.027	▼	-2.25
MSM6	2876.52	-0.022	▼	-1.11
MSM7	2826.40	-0.009	▼	-0.56
MSM8A	2840.32	-0.001	▼	-0.73
MSM9	2858.42	-0.001	▼	-0.17
MSM10	2752.55	-0.066	▼	-1.11
MSM11	2683.15	-0.056	▼	-2.01

Mica Landfill Settlement Markers



Figure 5-1: Mica Landfill Settlement Marker Locations

APPENDIX A - LABORATORY RESULTS

**Spokane County Environmental Services (Colbert)**22515 N. Elk Chattaroy Road
Colbert, WA 99005Work Order: **X3I0178**
Reported: 26-Sep-23 16:15**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GWDW-001-230912	X3I0178-01	Ground Water	12-Sep-23 08:42	MT/GF/C C	13-Sep-2023	
GWDW-002-230912	X3I0178-02	Ground Water	12-Sep-23 10:16	MT/GF/C C	13-Sep-2023	
GWDW-003-230912	X3I0178-03	Ground Water	12-Sep-23 11:46	MT/GF/C C	13-Sep-2023	
MWS-1-1-230912	X3I0178-04	Ground Water	12-Sep-23 10:21	MT/GF/C C	13-Sep-2023	
GWMS-004-230912	X3I0178-05	Ground Water	12-Sep-23 14:01	MT/GF/C C	13-Sep-2023	
GWMW-009-230912	X3I0178-06	Ground Water	12-Sep-23 09:44	MT/GF/C C	13-Sep-2023	
GWMW-010-230912	X3I0178-07	Ground Water	12-Sep-23 10:47	MT/GF/C C	13-Sep-2023	
GWMW-013-230912	X3I0178-08	Ground Water	12-Sep-23 12:00	MT/GF/C C	13-Sep-2023	
GWMW-014-230912	X3I0178-09	Ground Water	12-Sep-23 09:45	MT/GF/C C	13-Sep-2023	
GWMW-019R-230912	X3I0178-10	Ground Water	12-Sep-23 14:35	MT/GF/C C	13-Sep-2023	
GWMW-020-230912	X3I0178-11	Ground Water	12-Sep-23 14:00	MT/GF/C C	13-Sep-2023	
GWMW-029-230912	X3I0178-12	Ground Water	12-Sep-23 13:31	MT/GF/C C	13-Sep-2023	
GWMW-031-230912	X3I0178-13	Ground Water	12-Sep-23 10:15	MT/GF/C C	13-Sep-2023	

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

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

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

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

This report shall not be reproduced except in full, without the written approval of SVL Analytical, Inc.

Case Narrative: X3I0178

**Spokane County Environmental Services (Colbert)**22515 N. Elk Chattaroy Road
Colbert, WA 99005Work Order: **X310178**
Reported: 26-Sep-23 16:15Client Sample ID: **GWDW-001-230912**

Sampled: 12-Sep-23 08:42

Received: 13-Sep-23

Sampled By: MT/GF/CC

SVL Sample ID: **X310178-01 (Ground Water)****Sample Report Page 1 of 1**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.000200	mg/L	0.000200	0.000093		X337190	NMS	09/20/23 13:36	
Metals (Total Recoverable)										
EPA 6010D	Barium	0.0125	mg/L	0.0040	0.0019		X338220	JRR	09/25/23 11:08	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X338220	JRR	09/25/23 11:08	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X338220	JRR	09/25/23 11:08	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X338220	JRR	09/25/23 11:08	
EPA 6010D	Zinc	0.0473	mg/L	0.0100	0.0054		X338220	JRR	09/25/23 11:08	
EPA 6020B	Arsenic	0.00206	mg/L	0.00100	0.00021		X338218	SMU	09/26/23 10:57	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X338082	JRR	09/22/23 11:55	
SM 2320 B	Total Alkalinity	151	mg/L as CaCO ₃	1.0			X337193	MWD	09/14/23 11:12	
SM 2320 B	Bicarbonate	151	mg/L as CaCO ₃	1.0			X337193	MWD	09/14/23 11:12	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X337193	MWD	09/14/23 11:12	
SM 5310B	Total Organic Carbon	< 1.00	mg/L	1.00	0.38		X337155	KAG	09/18/23 16:29	
Anions by Ion Chromatography										
EPA 300.0	Chloride	7.79	mg/L	0.20	0.02		X337166	RS	09/13/23 16:26	
EPA 300.0	Nitrate as N	0.105	mg/L	0.050	0.013		X337166	RS	09/13/23 16:26	
EPA 300.0	Sulfate as SO₄	10.2	mg/L	0.30	0.18		X337166	RS	09/13/23 16:26	

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

Dave Tryon
Project Manager

**Spokane County Environmental Services (Colbert)**22515 N. Elk Chattaroy Road
Colbert, WA 99005Work Order: **X310178**
Reported: 26-Sep-23 16:15Client Sample ID: **GWDW-002-230912**

Sampled: 12-Sep-23 10:16

Received: 13-Sep-23

Sampled By: MT/GF/CC

SVL Sample ID: **X310178-02 (Ground Water)****Sample Report Page 1 of 1**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.000200	mg/L	0.000200	0.000093		X337190	NMS	09/20/23 13:38	
Metals (Total Recoverable)										
EPA 6010D	Barium	0.0406	mg/L	0.0040	0.0019		X338220	JRR	09/25/23 11:11	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X338220	JRR	09/25/23 11:11	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X338220	JRR	09/25/23 11:11	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X338220	JRR	09/25/23 11:11	
EPA 6010D	Zinc	0.0146	mg/L	0.0100	0.0054		X338220	JRR	09/25/23 11:11	
EPA 6020B	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X338218	SMU	09/26/23 10:59	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X338082	JRR	09/22/23 11:57	
SM 2320 B	Total Alkalinity	163	mg/L as CaCO ₃	1.0			X337193	MWD	09/14/23 11:19	
SM 2320 B	Bicarbonate	163	mg/L as CaCO ₃	1.0			X337193	MWD	09/14/23 11:19	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X337193	MWD	09/14/23 11:19	
SM 5310B	Total Organic Carbon	< 1.00	mg/L	1.00	0.38		X337155	KAG	09/18/23 16:47	
Anions by Ion Chromatography										
EPA 300.0	Chloride	8.04	mg/L	0.20	0.02		X337166	RS	09/13/23 17:03	
EPA 300.0	Nitrate as N	0.879	mg/L	0.050	0.013		X337166	RS	09/13/23 17:03	
EPA 300.0	Sulfate as SO₄	3.94	mg/L	0.30	0.18		X337166	RS	09/13/23 17:03	

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

Dave Tryon
Project Manager

**Spokane County Environmental Services (Colbert)**22515 N. Elk Chattaroy Road
Colbert, WA 99005Work Order: **X310178**

Reported: 26-Sep-23 16:15

Client Sample ID: **GWDW-003-230912**

Sampled: 12-Sep-23 11:46

Received: 13-Sep-23

Sampled By: MT/GF/CC

SVL Sample ID: **X310178-03 (Ground Water)****Sample Report Page 1 of 1**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.000200	mg/L	0.000200	0.000093		X337190	NMS	09/20/23 13:40	
Metals (Total Recoverable)										
EPA 6010D	Barium	0.0276	mg/L	0.0040	0.0019		X338220	JRR	09/25/23 11:15	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X338220	JRR	09/25/23 11:15	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X338220	JRR	09/25/23 11:15	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X338220	JRR	09/25/23 11:15	
EPA 6010D	Zinc	0.0709	mg/L	0.0100	0.0054		X338220	JRR	09/25/23 11:15	
EPA 6020B	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X338218	SMU	09/26/23 11:01	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	0.039	mg/L	0.030	0.013		X338082	JRR	09/22/23 12:00	
SM 2320 B	Total Alkalinity	178	mg/L as CaCO ₃	1.0			X337193	MWD	09/14/23 11:26	
SM 2320 B	Bicarbonate	178	mg/L as CaCO ₃	1.0			X337193	MWD	09/14/23 11:26	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X337193	MWD	09/14/23 11:26	
SM 5310B	Total Organic Carbon	< 1.00	mg/L	1.00	0.38		X337155	KAG	09/18/23 17:06	
Anions by Ion Chromatography										
EPA 300.0	Chloride	0.74	mg/L	0.20	0.02		X337166	RS	09/14/23 00:44	
EPA 300.0	Nitrate as N	1.69	mg/L	0.050	0.013		X337166	RS	09/14/23 00:44	
EPA 300.0	Sulfate as SO₄	1.22	mg/L	0.30	0.18		X337166	RS	09/14/23 00:44	

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

Dave Tryon
Project Manager

**Spokane County Environmental Services (Colbert)**22515 N. Elk Chattaroy Road
Colbert, WA 99005Work Order: **X310178**

Reported: 26-Sep-23 16:15

Client Sample ID: **MWS-1-1-230912**

Sampled: 12-Sep-23 10:21

Received: 13-Sep-23

Sampled By: MT/GF/CC

SVL Sample ID: **X310178-04 (Ground Water)****Sample Report Page 1 of 1**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.000200	mg/L	0.000200	0.000093		X337190	NMS	09/20/23 13:42	
Metals (Total Recoverable)										
EPA 6010D	Barium	0.0407	mg/L	0.0040	0.0019		X338220	JRR	09/25/23 11:19	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X338220	JRR	09/25/23 11:19	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X338220	JRR	09/25/23 11:19	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X338220	JRR	09/25/23 11:19	
EPA 6010D	Zinc	0.0153	mg/L	0.0100	0.0054		X338220	JRR	09/25/23 11:19	
EPA 6020B	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X338218	SMU	09/26/23 11:02	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X338082	JRR	09/22/23 12:02	
SM 2320 B	Total Alkalinity	165	mg/L as CaCO ₃	1.0			X337193	MWD	09/14/23 11:33	
SM 2320 B	Bicarbonate	165	mg/L as CaCO ₃	1.0			X337193	MWD	09/14/23 11:33	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X337193	MWD	09/14/23 11:33	
SM 5310B	Total Organic Carbon	< 1.00	mg/L	1.00	0.38		X337155	KAG	09/18/23 17:24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	8.05	mg/L	0.20	0.02		X337166	RS	09/13/23 17:40	
EPA 300.0	Nitrate as N	0.881	mg/L	0.050	0.013		X337166	RS	09/13/23 17:40	
EPA 300.0	Sulfate as SO₄	3.93	mg/L	0.30	0.18		X337166	RS	09/13/23 17:40	

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

Dave Tryon
Project Manager

**Spokane County Environmental Services (Colbert)**22515 N. Elk Chattaroy Road
Colbert, WA 99005Work Order: **X310178**
Reported: 26-Sep-23 16:15Client Sample ID: **GWMS-004-230912**

Sampled: 12-Sep-23 14:01

Received: 13-Sep-23

Sampled By: MT/GF/CC

SVL Sample ID: **X310178-05 (Ground Water)****Sample Report Page 1 of 1**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.000200	mg/L	0.000200	0.000093		X337190	NMS	09/20/23 13:49	
Metals (Total Recoverable)										
EPA 6010D	Barium	0.0876	mg/L	0.0040	0.0019		X338220	JRR	09/25/23 11:22	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X338220	JRR	09/25/23 11:22	
EPA 6010D	Manganese	0.0087	mg/L	0.0080	0.0034		X338220	JRR	09/25/23 11:22	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X338220	JRR	09/25/23 11:22	
EPA 6010D	Zinc	< 0.0100	mg/L	0.0100	0.0054		X338220	JRR	09/25/23 11:22	
EPA 6020B	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X338218	SMU	09/26/23 11:04	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X338082	JRR	09/22/23 12:04	M1
SM 2320 B	Total Alkalinity	182	mg/L as CaCO ₃	1.0			X337193	MWD	09/14/23 11:41	
SM 2320 B	Bicarbonate	182	mg/L as CaCO ₃	1.0			X337193	MWD	09/14/23 11:41	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X337193	MWD	09/14/23 11:41	
SM 2540 C	Total Diss. Solids	274	mg/L	10			X337180	TJL	09/15/23 15:10	
SM 5310B	Total Organic Carbon	1.33	mg/L	1.00	0.38		X337155	KAG	09/18/23 17:42	
Anions by Ion Chromatography										
EPA 300.0	Chloride	0.58	mg/L	0.20	0.02		X337166	RS	09/14/23 03:12	
EPA 300.0	Nitrate as N	9.93	mg/L	0.500	0.130	10	X337166	RS	09/14/23 03:31	D2
EPA 300.0	Sulfate as SO₄	9.89	mg/L	0.30	0.18		X337166	RS	09/14/23 03:12	

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

Dave Tryon
Project Manager

**Spokane County Environmental Services (Colbert)**22515 N. Elk Chattaroy Road
Colbert, WA 99005Work Order: **X310178**
Reported: 26-Sep-23 16:15Client Sample ID: **GWMW-009-230912**

Sampled: 12-Sep-23 09:44

Received: 13-Sep-23

Sampled By: MT/GF/CC

SVL Sample ID: **X310178-06 (Ground Water)****Sample Report Page 1 of 1**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.000200	mg/L	0.000200	0.000093		X337190	NMS	09/20/23 13:51	
Metals (Total Recoverable)										
EPA 6010D	Barium	0.142	mg/L	0.0040	0.0019		X338220	JRR	09/25/23 11:26	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X338220	JRR	09/25/23 11:26	
EPA 6010D	Manganese	0.610	mg/L	0.0080	0.0034		X338220	JRR	09/25/23 11:26	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X338220	JRR	09/25/23 11:26	
EPA 6010D	Zinc	< 0.0100	mg/L	0.0100	0.0054		X338220	JRR	09/25/23 11:26	
EPA 6020B	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X338218	SMU	09/26/23 11:06	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X338082	JRR	09/22/23 14:51	
SM 2320 B	Total Alkalinity	247	mg/L as CaCO ₃	1.0			X337193	MWD	09/14/23 12:08	
SM 2320 B	Bicarbonate	247	mg/L as CaCO ₃	1.0			X337193	MWD	09/14/23 12:08	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X337193	MWD	09/14/23 12:08	
SM 2540 C	Total Diss. Solids	268	mg/L	10			X337180	TJL	09/15/23 15:10	
SM 5310B	Total Organic Carbon	2.04	mg/L	1.00	0.38		X337155	KAG	09/18/23 18:00	
Anions by Ion Chromatography										
EPA 300.0	Chloride	17.7	mg/L	2.00	0.22	10	X337166	RS	09/13/23 19:30	D2
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X337166	RS	09/13/23 19:12	
EPA 300.0	Sulfate as SO₄	2.78	mg/L	0.30	0.18		X337166	RS	09/13/23 19:12	

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

Dave Tryon
Project Manager

**Spokane County Environmental Services (Colbert)**22515 N. Elk Chattaroy Road
Colbert, WA 99005Work Order: **X310178**
Reported: 26-Sep-23 16:15Client Sample ID: **GWMW-010-230912**

Sampled: 12-Sep-23 10:47

Received: 13-Sep-23

Sampled By: MT/GF/CC

SVL Sample ID: **X310178-07 (Ground Water)****Sample Report Page 1 of 1**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.000200	mg/L	0.000200	0.000093		X337190	NMS	09/20/23 13:53	
Metals (Total Recoverable)										
EPA 6010D	Barium	0.0444	mg/L	0.0040	0.0019		X338220	JRR	09/25/23 11:56	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X338220	JRR	09/25/23 11:56	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X338220	JRR	09/25/23 11:56	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X338220	JRR	09/25/23 11:56	
EPA 6010D	Zinc	< 0.0100	mg/L	0.0100	0.0054		X338220	JRR	09/25/23 11:56	
EPA 6020B	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X338218	SMU	09/26/23 11:15	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X338082	JRR	09/22/23 12:08	
SM 2320 B	Total Alkalinity	95.3	mg/L as CaCO ₃	1.0			X337193	MWD	09/14/23 12:15	
SM 2320 B	Bicarbonate	95.3	mg/L as CaCO ₃	1.0			X337193	MWD	09/14/23 12:15	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X337193	MWD	09/14/23 12:15	
SM 2540 C	Total Diss. Solids	105	mg/L	10			X337180	TJL	09/15/23 15:10	
SM 5310B	Total Organic Carbon	< 1.00	mg/L	1.00	0.38		X337155	KAG	09/18/23 18:57	
Anions by Ion Chromatography										
EPA 300.0	Chloride	0.44	mg/L	0.20	0.02		X337166	RS	09/13/23 21:03	
EPA 300.0	Nitrate as N	0.218	mg/L	0.050	0.013		X337166	RS	09/13/23 21:03	
EPA 300.0	Sulfate as SO₄	0.68	mg/L	0.30	0.18		X337166	RS	09/13/23 21:03	

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

Dave Tryon
Project Manager

**Spokane County Environmental Services (Colbert)**22515 N. Elk Chattaroy Road
Colbert, WA 99005Work Order: **X310178**
Reported: 26-Sep-23 16:15Client Sample ID: **GWMW-013-230912**SVL Sample ID: **X310178-08 (Ground Water)**

Sample Report Page 1 of 1

Sampled: 12-Sep-23 12:00
Received: 13-Sep-23
Sampled By: MT/GF/CC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.000200	mg/L	0.000200	0.000093		X337190	NMS	09/20/23 13:55	
Metals (Total Recoverable)										
EPA 6010D	Barium	0.0445	mg/L	0.0040	0.0019		X338220	JRR	09/25/23 12:00	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X338220	JRR	09/25/23 12:00	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X338220	JRR	09/25/23 12:00	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X338220	JRR	09/25/23 12:00	
EPA 6010D	Zinc	< 0.0100	mg/L	0.0100	0.0054		X338220	JRR	09/25/23 12:00	
EPA 6020B	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X338218	SMU	09/26/23 11:17	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X338082	JRR	09/22/23 12:10	
SM 2320 B	Total Alkalinity	199	mg/L as CaCO3	1.0			X337193	MWD	09/15/23 09:51	
SM 2320 B	Bicarbonate	199	mg/L as CaCO3	1.0			X337193	MWD	09/15/23 09:51	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X337193	MWD	09/15/23 09:51	
SM 2540 C	Total Diss. Solids	215	mg/L	10			X337180	TJL	09/15/23 15:10	
SM 5310B	Total Organic Carbon	1.14	mg/L	1.00	0.38		X337155	KAG	09/18/23 19:15	
Anions by Ion Chromatography										
EPA 300.0	Chloride	8.05	mg/L	0.20	0.02		X337166	RS	09/14/23 01:21	
EPA 300.0	Nitrate as N	0.451	mg/L	0.050	0.013		X337166	RS	09/14/23 01:21	
EPA 300.0	Sulfate as SO4	2.62	mg/L	0.30	0.18		X337166	RS	09/14/23 01:21	

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

Dave Tryon
Project Manager

**Spokane County Environmental Services (Colbert)**22515 N. Elk Chattaroy Road
Colbert, WA 99005Work Order: **X310178**
Reported: 26-Sep-23 16:15Client Sample ID: **GMMW-014-230912**

Sampled: 12-Sep-23 09:45

Received: 13-Sep-23

Sampled By: MT/GF/CC

SVL Sample ID: **X310178-09 (Ground Water)****Sample Report Page 1 of 1**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.000200	mg/L	0.000200	0.000093		X337190	NMS	09/20/23 13:57	
Metals (Total Recoverable)										
EPA 6010D	Barium	< 0.0040	mg/L	0.0040	0.0019		X338220	JRR	09/25/23 12:03	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X338220	JRR	09/25/23 12:03	
EPA 6010D	Manganese	0.140	mg/L	0.0080	0.0034		X338220	JRR	09/25/23 12:03	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X338220	JRR	09/25/23 12:03	
EPA 6010D	Zinc	< 0.0100	mg/L	0.0100	0.0054		X338220	JRR	09/25/23 12:03	
EPA 6020B	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X338218	SMU	09/26/23 11:19	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	0.234	mg/L	0.030	0.013		X338082	JRR	09/22/23 12:12	
SM 2320 B	Total Alkalinity	81.2	mg/L as CaCO3	1.0			X337193	MWD	09/14/23 12:31	
SM 2320 B	Bicarbonate	81.2	mg/L as CaCO3	1.0			X337193	MWD	09/14/23 12:31	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X337193	MWD	09/14/23 12:31	
SM 2540 C	Total Diss. Solids	111	mg/L	10			X337180	TJL	09/15/23 15:10	
SM 5310B	Total Organic Carbon	< 1.00	mg/L	1.00	0.38		X337155	KAG	09/18/23 20:11	
Anions by Ion Chromatography										
EPA 300.0	Chloride	0.86	mg/L	0.20	0.02		X337166	RS	09/13/23 18:16	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X337166	RS	09/13/23 18:16	
EPA 300.0	Sulfate as SO4	9.00	mg/L	0.30	0.18		X337166	RS	09/13/23 18:16	

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

Dave Tryon
Project Manager

**Spokane County Environmental Services (Colbert)**22515 N. Elk Chattaroy Road
Colbert, WA 99005Work Order: **X310178**

Reported: 26-Sep-23 16:15

Client Sample ID: **GMMW-019R-230912**

Sampled: 12-Sep-23 14:35

Received: 13-Sep-23

Sampled By: MT/GF/CC

SVL Sample ID: **X310178-10 (Ground Water)****Sample Report Page 1 of 1**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.000200	mg/L	0.000200	0.000093		X337190	NMS	09/20/23 13:59	
Metals (Total Recoverable)										
EPA 6010D	Barium	0.0322	mg/L	0.0040	0.0019		X338220	JRR	09/25/23 12:07	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X338220	JRR	09/25/23 12:07	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X338220	JRR	09/25/23 12:07	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X338220	JRR	09/25/23 12:07	
EPA 6010D	Zinc	< 0.0100	mg/L	0.0100	0.0054		X338220	JRR	09/25/23 12:07	
EPA 6020B	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X338218	SMU	09/26/23 11:20	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X338082	JRR	09/22/23 12:14	
SM 2320 B	Total Alkalinity	104	mg/L as CaCO3	1.0			X337193	MWD	09/14/23 12:38	
SM 2320 B	Bicarbonate	104	mg/L as CaCO3	1.0			X337193	MWD	09/14/23 12:38	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X337193	MWD	09/14/23 12:38	
SM 2540 C	Total Diss. Solids	139	mg/L	10			X337180	TJL	09/15/23 15:10	
SM 5310B	Total Organic Carbon	1.18	mg/L	1.00	0.38		X337155	KAG	09/18/23 20:30	
Anions by Ion Chromatography										
EPA 300.0	Chloride	5.70	mg/L	0.20	0.02		X337166	RS	09/14/23 03:49	
EPA 300.0	Nitrate as N	1.29	mg/L	0.050	0.013		X337166	RS	09/14/23 03:49	
EPA 300.0	Sulfate as SO4	4.28	mg/L	0.30	0.18		X337166	RS	09/14/23 03:49	

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

Dave Tryon
Project Manager

**Spokane County Environmental Services (Colbert)**22515 N. Elk Chattaroy Road
Colbert, WA 99005Work Order: **X310178**

Reported: 26-Sep-23 16:15

Client Sample ID: **GWMW-020-230912**

Sampled: 12-Sep-23 14:00

Received: 13-Sep-23

Sampled By: MT/GF/CC

SVL Sample ID: **X310178-11 (Ground Water)****Sample Report Page 1 of 1**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.000200	mg/L	0.000200	0.000093		X337190	NMS	09/20/23 14:01	
Metals (Total Recoverable)										
EPA 6010D	Barium	0.209	mg/L	0.0040	0.0019		X338220	JRR	09/25/23 12:10	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X338220	JRR	09/25/23 12:10	
EPA 6010D	Manganese	0.0677	mg/L	0.0080	0.0034		X338220	JRR	09/25/23 12:10	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X338220	JRR	09/25/23 12:10	
EPA 6010D	Zinc	0.0262	mg/L	0.0100	0.0054		X338220	JRR	09/25/23 12:10	
EPA 6020B	Arsenic	0.00156	mg/L	0.00100	0.00021		X338218	SMU	09/26/23 11:22	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X338082	JRR	09/22/23 12:23	
SM 2320 B	Total Alkalinity	222	mg/L as CaCO ₃	1.0			X337193	MWD	09/14/23 12:45	
SM 2320 B	Bicarbonate	222	mg/L as CaCO ₃	1.0			X337193	MWD	09/14/23 12:45	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X337193	MWD	09/14/23 12:45	
SM 2540 C	Total Diss. Solids	266	mg/L	10			X337180	TJL	09/15/23 15:10	
SM 5310B	Total Organic Carbon	1.20	mg/L	1.00	0.38		X337155	KAG	09/18/23 20:48	
Anions by Ion Chromatography										
EPA 300.0	Chloride	6.89	mg/L	0.20	0.02		X337166	RS	09/14/23 04:26	
EPA 300.0	Nitrate as N	1.74	mg/L	0.050	0.013		X337166	RS	09/14/23 04:26	
EPA 300.0	Sulfate as SO₄	4.12	mg/L	0.30	0.18		X337166	RS	09/14/23 04:26	

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

Dave Tryon
Project Manager

**Spokane County Environmental Services (Colbert)**22515 N. Elk Chattaroy Road
Colbert, WA 99005Work Order: **X310178**
Reported: 26-Sep-23 16:15Client Sample ID: **GWMW-029-230912**

Sampled: 12-Sep-23 13:31

Received: 13-Sep-23

Sampled By: MT/GF/CC

SVL Sample ID: **X310178-12 (Ground Water)****Sample Report Page 1 of 1**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.000200	mg/L	0.000200	0.000093		X337190	NMS	09/20/23 14:04	
Metals (Total Recoverable)										
EPA 6010D	Barium	0.100	mg/L	0.0040	0.0019		X338220	JRR	09/25/23 12:14	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X338220	JRR	09/25/23 12:14	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X338220	JRR	09/25/23 12:14	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X338220	JRR	09/25/23 12:14	
EPA 6010D	Zinc	< 0.0100	mg/L	0.0100	0.0054		X338220	JRR	09/25/23 12:14	
EPA 6020B	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X338218	SMU	09/26/23 11:24	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X338082	JRR	09/22/23 12:25	
SM 2320 B	Total Alkalinity	114	mg/L as CaCO ₃	1.0			X337193	MWD	09/14/23 12:52	
SM 2320 B	Bicarbonate	114	mg/L as CaCO ₃	1.0			X337193	MWD	09/14/23 12:52	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X337193	MWD	09/14/23 12:52	
SM 2540 C	Total Diss. Solids	378	mg/L	10			X337180	TJL	09/15/23 15:10	
SM 5310B	Total Organic Carbon	< 1.00	mg/L	1.00	0.38		X337155	KAG	09/18/23 21:06	
Anions by Ion Chromatography										
EPA 300.0	Chloride	137	mg/L	5.00	0.55	25	X337166	RS	09/14/23 21:18	D2
EPA 300.0	Nitrate as N	0.992	mg/L	0.050	0.013		X337166	RS	09/14/23 02:35	
EPA 300.0	Sulfate as SO₄	7.01	mg/L	0.30	0.18		X337166	RS	09/14/23 02:35	

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

Dave Tryon
Project Manager

**Spokane County Environmental Services (Colbert)**22515 N. Elk Chattaroy Road
Colbert, WA 99005Work Order: **X310178**
Reported: 26-Sep-23 16:15Client Sample ID: **GWMW-031-230912**

Sampled: 12-Sep-23 10:15

Received: 13-Sep-23

Sampled By: MT/GF/CC

SVL Sample ID: **X310178-13 (Ground Water)****Sample Report Page 1 of 1**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.000200	mg/L	0.000200	0.000093		X337190	NMS	09/20/23 14:06	
Metals (Total Recoverable)										
EPA 6010D	Barium	0.0873	mg/L	0.0040	0.0019		X338220	JRR	09/25/23 12:18	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X338220	JRR	09/25/23 12:18	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X338220	JRR	09/25/23 12:18	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X338220	JRR	09/25/23 12:18	
EPA 6010D	Zinc	0.0109	mg/L	0.0100	0.0054		X338220	JRR	09/25/23 12:18	
EPA 6020B	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X338218	SMU	09/26/23 11:25	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X338082	JRR	09/22/23 12:27	
SM 2320 B	Total Alkalinity	162	mg/L as CaCO ₃	1.0			X337193	MWD	09/14/23 12:59	
SM 2320 B	Bicarbonate	162	mg/L as CaCO ₃	1.0			X337193	MWD	09/14/23 12:59	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X337193	MWD	09/14/23 12:59	
SM 2540 C	Total Diss. Solids	191	mg/L	10			X337180	TJL	09/15/23 15:10	
SM 5310B	Total Organic Carbon	2.01	mg/L	1.00	0.38		X337155	KAG	09/18/23 21:26	
Anions by Ion Chromatography										
EPA 300.0	Chloride	10.0	mg/L	0.20	0.02		X337166	RS	09/13/23 22:54	
EPA 300.0	Nitrate as N	0.110	mg/L	0.050	0.013		X337166	RS	09/13/23 22:54	
EPA 300.0	Sulfate as SO₄	1.97	mg/L	0.30	0.18		X337166	RS	09/13/23 22:54	

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

Dave Tryon
Project Manager

**Spokane County Environmental Services (Colbert)**22515 N. Elk Chattaroy Road
Colbert, WA 99005Work Order: **X310178**
Reported: 26-Sep-23 16:15**Quality Control - BLANK Data**

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total)								
EPA 7470A	Mercury	mg/L	<0.000200	0.000093	0.000200	X337190	20-Sep-23	
Metals (Total Recoverable)								
EPA 6010D	Barium	mg/L	<0.0040	0.0019	0.0040	X338220	25-Sep-23	
EPA 6010D	Lead	mg/L	<0.0150	0.0049	0.0150	X338220	25-Sep-23	
EPA 6010D	Manganese	mg/L	<0.0080	0.0034	0.0080	X338220	25-Sep-23	
EPA 6010D	Vanadium	mg/L	<0.0050	0.0019	0.0050	X338220	25-Sep-23	
EPA 6010D	Zinc	mg/L	<0.0100	0.0054	0.0100	X338220	25-Sep-23	
EPA 6020B	Arsenic	mg/L	<0.00100	0.00021	0.00100	X338218	26-Sep-23	
Classical Chemistry Parameters								
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X338082	22-Sep-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	<1.0		1.0	X337193	14-Sep-23	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	<1.0		1.0	X337193	14-Sep-23	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0		1.0	X337193	14-Sep-23	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X337180	15-Sep-23	
SM 5310B	Total Organic Carbon	mg/L	<1.00	0.38	1.00	X337155	18-Sep-23	
SM 5310B	Total Organic Carbon	mg/L	<1.00	0.38	1.00	X337155	18-Sep-23	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X337166	14-Sep-23	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X337166	14-Sep-23	
EPA 300.0	Sulfate as SO ₄	mg/L	<0.30	0.18	0.30	X337166	14-Sep-23	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)									
EPA 7470A	Mercury	mg/L	0.00195	0.00200	97.7	80 - 120	X337190	20-Sep-23	
Metals (Total Recoverable)									
EPA 6010D	Barium	mg/L	1.00	1.00	100	80 - 120	X338220	25-Sep-23	
EPA 6010D	Lead	mg/L	1.01	1.00	101	80 - 120	X338220	25-Sep-23	
EPA 6010D	Manganese	mg/L	1.01	1.00	101	80 - 120	X338220	25-Sep-23	
EPA 6010D	Vanadium	mg/L	1.02	1.00	102	80 - 120	X338220	25-Sep-23	
EPA 6010D	Zinc	mg/L	1.01	1.00	101	80 - 120	X338220	25-Sep-23	
EPA 6020B	Arsenic	mg/L	0.0246	0.0250	98.6	80 - 120	X338218	26-Sep-23	
Classical Chemistry Parameters									
EPA 350.1	Ammonia as N	mg/L	0.982	1.00	98.2	90 - 110	X338082	22-Sep-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	389	397	97.9	96.4 - 105	X337193	14-Sep-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	101	99.3	102	96.4 - 105	X337193	14-Sep-23	
SM 5310B	Total Organic Carbon	mg/L	35.0	34.3	102	90 - 110	X337155	18-Sep-23	
SM 5310B	Total Organic Carbon	mg/L	34.7	34.3	101	90 - 110	X337155	18-Sep-23	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.99	3.00	99.7	90 - 110	X337166	14-Sep-23	
EPA 300.0	Nitrate as N	mg/L	2.03	2.00	101	90 - 110	X337166	14-Sep-23	
EPA 300.0	Sulfate as SO ₄	mg/L	10.2	10.0	102	90 - 110	X337166	14-Sep-23	

**Spokane County Environmental Services (Colbert)**22515 N. Elk Chattaroy Road
Colbert, WA 99005Work Order: **X310178**
Reported: 26-Sep-23 16:15**Quality Control - DUPLICATE Data**

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	247	247	0.1	20	X337193 - X3I0178-06	14-Sep-23	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	247	247	0.1	20	X337193 - X3I0178-06	14-Sep-23	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X337193 - X3I0178-06	14-Sep-23	
SM 2540 C	Total Diss. Solids	mg/L	287	268	6.9	10	X337180 - X3I0178-06	15-Sep-23	
SM 2540 C	Total Diss. Solids	mg/L	310	358	14.4	10	X337180 - X3I0183-03	15-Sep-23	R2B

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	mg/L	0.00179	<0.000200	0.00200	89.7	80 - 120	X337190 - X3I0178-06	20-Sep-23	
EPA 7470A	Mercury	mg/L	0.00232	<0.000200	0.00200	116	80 - 120	X337190 - X3I0178-11	20-Sep-23	
Metals (Total Recoverable)										
EPA 6010D	Barium	mg/L	1.14	0.142	1.00	100	75 - 125	X338220 - X3I0178-06	25-Sep-23	
EPA 6010D	Lead	mg/L	0.981	<0.0150	1.00	98.1	75 - 125	X338220 - X3I0178-06	25-Sep-23	
EPA 6010D	Manganese	mg/L	1.63	0.610	1.00	102	75 - 125	X338220 - X3I0178-06	25-Sep-23	
EPA 6010D	Vanadium	mg/L	1.03	<0.0050	1.00	102	75 - 125	X338220 - X3I0178-06	25-Sep-23	
EPA 6010D	Zinc	mg/L	0.984	<0.0100	1.00	98.4	75 - 125	X338220 - X3I0178-06	25-Sep-23	
EPA 6020B	Arsenic	mg/L	0.0225	<0.00100	0.0250	87.9	75 - 125	X338218 - X3I0178-06	26-Sep-23	

Classical Chemistry Parameters

EPA 350.1	Ammonia as N	mg/L	1.11	<0.030	1.00	109	90 - 110	X338082 - X3I0178-06	22-Sep-23	
EPA 350.1	Ammonia as N	mg/L	1.14	<0.030	1.00	111	90 - 110	X338082 - X3I0178-05	22-Sep-23	M1
SM 5310B	Total Organic Carbon	mg/L	12.0	2.04	10.0	99.4	80 - 120	X337155 - X3I0178-06	18-Sep-23	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	20.8	17.7	3.00	104	90 - 110	X337166 - X3I0178-06	13-Sep-23	D2
EPA 300.0	Chloride	mg/L	3.43	0.44	3.00	99.8	90 - 110	X337166 - X3I0178-07	13-Sep-23	
EPA 300.0	Nitrate as N	mg/L	2.03	<0.050	2.00	101	90 - 110	X337166 - X3I0178-06	13-Sep-23	
EPA 300.0	Nitrate as N	mg/L	2.28	0.218	2.00	103	90 - 110	X337166 - X3I0178-07	13-Sep-23	
EPA 300.0	Sulfate as SO ₄	mg/L	13.3	2.78	10.0	105	90 - 110	X337166 - X3I0178-06	13-Sep-23	
EPA 300.0	Sulfate as SO ₄	mg/L	10.9	0.68	10.0	102	90 - 110	X337166 - X3I0178-07	13-Sep-23	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total)										
EPA 7470A	Mercury	mg/L	0.00180	0.00179	0.00200	0.3	20	90.0	X337190 - X3I0178-06	
Metals (Total Recoverable)										
EPA 6010D	Barium	mg/L	1.11	1.14	1.00	2.9	20	97.0	X338220 - X3I0178-06	
EPA 6010D	Lead	mg/L	0.969	0.981	1.00	1.2	20	96.9	X338220 - X3I0178-06	
EPA 6010D	Manganese	mg/L	1.59	1.63	1.00	2.4	20	97.8	X338220 - X3I0178-06	
EPA 6010D	Vanadium	mg/L	1.01	1.03	1.00	1.6	20	100	X338220 - X3I0178-06	
EPA 6010D	Zinc	mg/L	0.965	0.984	1.00	2.0	20	96.5	X338220 - X3I0178-06	
EPA 6020B	Arsenic	mg/L	0.0245	0.0225	0.0250	8.6	20	96.0	X338218 - X3I0178-06	



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: **X3I0178**
Reported: 26-Sep-23 16:15

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

Classical Chemistry Parameters

EPA 350.1	Ammonia as N	mg/L	1.12	1.11	1.00	0.9	20	110	X338082 - X3I0178-06	
SM 5310B	Total Organic Carbon	mg/L	12.2	12.0	10.0	1.9	20	102	X337155 - X3I0178-06	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	20.9	20.8	3.00	0.3	20	106	X337166 - X3I0178-06	D2
EPA 300.0	Nitrate as N	mg/L	2.02	2.03	2.00	0.5	20	101	X337166 - X3I0178-06	
EPA 300.0	Sulfate as SO4	mg/L	13.3	13.3	10.0	0.3	20	105	X337166 - X3I0178-06	



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

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Spokane County Environmental Services (Colbert)

22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X310178**

Reported: 26-Sep-23 16:15

Notes and Definitions

D2	Sample required dilution due to high concentration of target analyte.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
R2B	RPD exceeded the laboratory acceptance limit.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

Work Order: X310178

Spokane County Environmental Services (S)

SPOKANE COUNTY CHAIN OF CUSTODY FOR GROUNDWATER SAMPLES

MICA LANDFILL COMPLIANCE MONITORING PROGRAM

2023



SVL ANALYTICAL

ONE GOVERNMENT GULCH

KELLOGG, ID 83837-0929

(208) 784-1258 FAX (208) 783-0891

ATTENTION: Sample Receiving

SPOKANE COUNTY ENVIRONMENTAL SERVICES

22515 N. ELK CHATTAROY RD.

COLBERT, WASHINGTON 99005

(509) 238-6607 FAX (509) 238-6812

MICA (509)924-5223

SHIPPING CO: UPS
SHIPPING #: 15309046430/
NUMBER OF COOLERS: 2 1421

DATE: 9-12-2023

PAGE 1 OF 2

PARAMETERS:	METHOD:	BOTTLES:	LAB: PRESERVATION:	2023	MONITORING			RESIDENTIAL		SAMPLERS:		
					TOC	AMMONIA	Cl / SO ₄ / TDS NO ₃ / ALKALINITY	Cl / SO ₄ / NO ₃ ALKALINITY	METALS (As / Ba / Pb / Hg Mn / V / Zn)	Mike Terris		
					415.1	350.1	300.0/300.0/160.1 300.0 / 2320 B	300.0/300.0/ 300.0 2320B	7060A / 6010B / 7470A	Gordie Fisette		
					1-40 ml.	1-500 ml	1-500 ml	1-500 ml.	1-500 ml.	Craig Campbell		
					VOC	POLY BOTTLE	POLY BOTTLE	POLY BOTTLE	POLY BOTLE			
					SVL	SVL	SVL	SVL	SVL			
					HCL pH < 2	H2SO4 pH < 2	UNPRESERVED	UNPRESERVED	HN03 Ph< 2 (NOT FILTERED)	COOLER NUMBER	NUMBER BOTTLES	COMMENTS
SAMPLE IDENTIFICATION					DATE	TIME						
GWDN-001-230912					9/12	0842	X	X	X	250	4	
GWDN-002-230912					9/12	1016	X	X	X	250	4	
GWDN-003-230912					9/12	1146	X	X	X	250	4	
MWS-1-1-230912					9/12	1021	X	X	X	141	4	
GWMW-004-230912					9/12	0940	X	X	X	250	4	
GWMW-009-230912					9/12	0944	X	X	X	250	12	MS/MSD
GWMW-010-230912					9/12	1047	X	X	X	141	4	
GWMW-013-230912					9/12	1200	X	X	X	250	4	
GWMW-014-230912					9/12	0945	X	X	X	141	4	
GWMW-019R-230912					9/12	1435	X	X	X	141	4	
GWMW-020-230912					9/12	1400	X	X	X	141	4	

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

RELINQUISHED BY

SIGNATURE: *Mike Terris*

PRINT NAME: MIKE S. TERRIS

COMPANY: SPOKANE COUNTY UTILITIES LANDFILL CLOSURE

DATE: 9-12-23

TIME: 1600

RECEIVED BY

SIGNATURE: *Megan B. Baker*

PRINT NAME: Megan B. Baker

COMPANY: SVL

DATE: 9/13/23

TIME: 0915

Work Order: X310178

JNTY CHAIN OF CUSTODY FOR GROUNDWATER SAMPLES
Spokane County Environmental Services (LANDFILL COMPLIANCE MONITORING PROGRAM)

2023



LABORATORY:

SVL ANALYTICAL
ONE GOVERNMENT GULCH
KELLOGG, ID 83837-0929
(208) 784-1258 FAX (208) 783-0891
ATTENTION: Sample ReceivingSPOKANE COUNTY ENVIRONMENTAL SERVICES
22515 N. ELK CHATTAROY RD.
COLBERT, WASHINGTON 99005
(509) 238-6607 FAX (509) 238-6812
MICA (509)924-5223

SHIPPING CO: UPS

SHIPPING #: 1K3090461430/142

NUMBER OF COOLERS: 2

DATE: 9-12-2023

PAGE 2 OF 2

PARAMETERS:		MONITORING					RESIDENTIAL		SAMPLERS:		
		TOC	AMMONIA	Cl / SO4 / TDS NO3 / ALKALINITY	Cl / SO4 / NO3 ALKALINITY	METALS (As / Ba / Pb / Hg Mn / V / Zn)					
METHOD:		415.1	350.1	300.0/300.0/160.1 300.0 / 2320 B	300.0/300.0/ 300.0 2320B	7060A / 6010B / 7470A	Mike Terris				
BOTTLES:		1-40 ml.	1-500 ml	1-500 ml	1-500 ml.	1-500 ml.	Gordie Fisette				
LAB:		VOC	POLY BOTTLE	POLY BOTTLE	POLY BOTTLE	POLY BOTLE	Craig Campbell				
PRESERVATION:		SVL	SVL	SVL	SVL	SVL					
	2023	HCL pH < 2	H2SO4 pH < 2	UNPRESERVED	UNPRESERVED	HN03 Ph< 2 (NOT FILTERED)	COOLER NUMBER	NUMBER BOTTLES	COMMENTS		
SAMPLE IDENTIFICATION	DATE	TIME									
GWMN-029-230912	9-12	1331	X	X	X	X	141	4			
GWMN-031-230912	9-12	105	X	X	X	X	141	4			
X ALL TOCS ARE IN COOLER #250											

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

RELINQUISHED BY

SIGNATURE:

PRINT NAME:

COMPANY: SPOKANE COUNTY UTILITIES LANDFILL CLOSURE

DATE: 9-12-23

TIME: 1600

RECEIVED BY

SIGNATURE:

PRINT NAME: Megan Brocher

COMPANY: SVL

DATE: 09/13/23

TIME: 0915

SAMPLE RECEIPT/CHAIN-OF-CUSTODY CHECKLIST

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

Date of acceptance: 09/13/23 By: MB

SVL Work No: X3F0178

Item	Description	V	NA	Comments
1	Client or project name	✓		Spokane County
2	Date and time of receipt at lab	✓		09/13/23 0915
3	Received by			
4	Temperature blank or cooler temperature	✓		Temp. 1.5°C T098/T126
5	Were the sample(s) received on ice	✓		
6	Custody tape/bottle seals	✓		
7	Shipper's air bill	✓		UPS
8	Condition of samples upon receipt (leaking; bubbles in VOA vials)	✓		Good
9	Analysis requested for each sample	✓		
10	Sample matrix description	✓		
11	The correct preservative for the analysis requested	✓		
12	Did an SVL employee preserve sample(s) upon receipt		✓	
13	Additional Information		✓	cooler: 1.4°C

SVL ANALYTICAL
1 GOVERNMENT GULCH

KELLOQQ ID 83837

P: NORTH S: NORTH I: 5E

KELL - 1354 ☐

K3090461430

HRP2DQY IDCOE948UDC SEP 13 04:20:42 2023
US 8380 HIP 23.6.0 ZD621R

SVL ANALYTICAL
1 GOVERNMENT GULCH

KELLOQQ ID 83837

P: NORTH S: NORTH I: 5E

KELL - 1354 ☐

K3090461421

HRP2DQY IDCOE948UDC SEP 13 04:20:56 2023
US 8380 HIP 23.6.0 ZD621R

Anatek Labs, Inc.

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

Client: Spokane County Utilities
Address: 22515 N. Elk Chattaroy Rd
Colbert, WA 99005
Attn: Dave Tyson

Work Order: MDI0491
Project: X3I0209
Reported: 10/27/2023 10:26

Analytical Results Report

Sample Location: X3I0209-01 (GWDW-001-230912)
Lab/Sample Number: MDI0491-01 **Collect Date:** 09/12/23 08:42
Date Received: 09/14/23 12:19 **Collected By:** MT/GF/CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/15/23 23:18	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/15/23 23:18	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
Benzene	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3I0209-01 (GWDW-001-230912)
Lab/Sample Number: MDI0491-01 Collect Date: 09/12/23 08:42
Date Received: 09/14/23 12:19 Collected By: MT/GF/CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/15/23 23:18	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/15/23 23:18	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/15/23 23:18	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/15/23 23:18	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	100%		70-130	9/15/23 23:18	BKP	EPA 8260D	
Surrogate: 4-Bromofluorobenzene	92.9%		70-130	9/15/23 23:18	BKP	EPA 8260D	
Surrogate: Toluene-d8	96.0%		70-130	9/15/23 23:18	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3I0209-02 (GWDW-002-230912)
Lab/Sample Number: MDI0491-02 Collect Date: 09/12/23 10:16
Date Received: 09/14/23 12:19 Collected By: MT/GF/CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/16/23 0:55	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
Acetone	5.63	ug/L	2.50	9/16/23 0:55	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
Benzene	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3I0209-02 (GWDW-002-230912)
Lab/Sample Number: MDI0491-02 Collect Date: 09/12/23 10:16
Date Received: 09/14/23 12:19 Collected By: MT/GF/CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
m+p-Xylene	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/16/23 0:55	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/16/23 0:55	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/16/23 0:55	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/16/23 0:55	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	100%		70-130	9/16/23 0:55	BKP	EPA 8260D	
Surrogate: 4-Bromofluorobenzene	92.0%		70-130	9/16/23 0:55	BKP	EPA 8260D	
Surrogate: Toluene-d8	96.5%		70-130	9/16/23 0:55	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3I0209-03 (GWDW-003-230912)
Lab/Sample Number: MDI0491-03 Collect Date: 09/12/23 11:46
Date Received: 09/14/23 12:19 Collected By: MT/GF/CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/16/23 1:27	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/16/23 1:27	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
Benzene	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3I0209-03 (GWDW-003-230912)
Lab/Sample Number: MDI0491-03 Collect Date: 09/12/23 11:46
Date Received: 09/14/23 12:19 Collected By: MT/GF/CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
m+p-Xylene	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/16/23 1:27	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/16/23 1:27	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/16/23 1:27	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/16/23 1:27	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	100%		70-130	9/16/23 1:27	BKP	EPA 8260D	
Surrogate: 4-Bromofluorobenzene	93.5%		70-130	9/16/23 1:27	BKP	EPA 8260D	
Surrogate: Toluene-d8	96.5%		70-130	9/16/23 1:27	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3I0209-04 (GWMS-004-230912)
Lab/Sample Number: MDI0491-04 Collect Date: 09/12/23 14:01
Date Received: 09/14/23 12:19 Collected By: MT/GF/CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Semivolatiles							
bis(2-Ethylhexyl)phthalate	ND	ug/L	0.500	10/16/23 2:16	MAH	EPA 8270E	
Surrogate: 2,4,6-Tribromophenol	102%		48-120	10/16/23 2:16	MAH	EPA 8270E	
Surrogate: 2-Fluorobiphenyl	77.1%		57-113	10/16/23 2:16	MAH	EPA 8270E	
Surrogate: 2-Fluorophenol	72.4%		37-110	10/16/23 2:16	MAH	EPA 8270E	
Surrogate: Nitrobenzene-d5	80.9%		65-110	10/16/23 2:16	MAH	EPA 8270E	
Surrogate: Phenol-2,3,4,5,6-d5	73.9%		51-112	10/16/23 2:16	MAH	EPA 8270E	
Surrogate: Terphenyl-d14	92.2%		57-133	10/16/23 2:16	MAH	EPA 8270E	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
1,1-Dichloroethane	1.30	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/16/23 2:00	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/16/23 2:00	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
Benzene	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3I0209-04 (GWMS-004-230912)
Lab/Sample Number: MDI0491-04 Collect Date: 09/12/23 14:01
Date Received: 09/14/23 12:19 Collected By: MT/GF/CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Bromodichloromethane	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
Dichlorodifluoromethane	1.22	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/16/23 2:00	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/16/23 2:00	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/16/23 2:00	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/16/23 2:00	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	100%		70-130	9/16/23 2:00	BKP	EPA 8260D	
Surrogate: 4-Bromofluorobenzene	91.9%		70-130	9/16/23 2:00	BKP	EPA 8260D	
Surrogate: Toluene-d8	95.8%		70-130	9/16/23 2:00	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3I0209-05 (MWS-1-1-230912)
Lab/Sample Number: MDI0491-05 Collect Date: 09/12/23 10:21
Date Received: 09/14/23 12:19 Collected By: MT/GF/CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/16/23 2:32	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/16/23 2:32	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
Benzene	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3I0209-05 (MWS-1-1-230912)
Lab/Sample Number: MDI0491-05 Collect Date: 09/12/23 10:21
Date Received: 09/14/23 12:19 Collected By: MT/GF/CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
m+p-Xylene	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/16/23 2:32	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/16/23 2:32	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/16/23 2:32	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/16/23 2:32	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	100%		70-130	9/16/23 2:32	BKP	EPA 8260D	
Surrogate: 4-Bromofluorobenzene	92.8%		70-130	9/16/23 2:32	BKP	EPA 8260D	
Surrogate: Toluene-d8	96.3%		70-130	9/16/23 2:32	BKP	EPA 8260D	

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

Analytical Results Report

(Continued)

Sample Location: X3I0209-06 (GWMW-009-230912)
Lab/Sample Number: MDI0491-06 Collect Date: 09/12/23 09:44
Date Received: 09/14/23 12:19 Collected By: MT/GF/CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/15/23 23:50	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
Acetone	26.5	ug/L	2.50	9/15/23 23:50	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
Benzene	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3I0209-06 (GWMW-009-230912)
Lab/Sample Number: MDI0491-06 Collect Date: 09/12/23 09:44
Date Received: 09/14/23 12:19 Collected By: MT/GF/CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
m+p-Xylene	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/15/23 23:50	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/15/23 23:50	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/15/23 23:50	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/15/23 23:50	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	100%		70-130	9/15/23 23:50	BKP	EPA 8260D	
Surrogate: 4-Bromofluorobenzene	91.4%		70-130	9/15/23 23:50	BKP	EPA 8260D	
Surrogate: Toluene-d8	95.7%		70-130	9/15/23 23:50	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3I0209-07 (GWMW-010-230912)
Lab/Sample Number: MDI0491-07 Collect Date: 09/12/23 10:47
Date Received: 09/14/23 12:19 Collected By: MT/GF/CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/16/23 6:20	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/16/23 6:20	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
Benzene	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3I0209-07 (GWMW-010-230912)
Lab/Sample Number: MDI0491-07 Collect Date: 09/12/23 10:47
Date Received: 09/14/23 12:19 Collected By: MT/GF/CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
m+p-Xylene	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/16/23 6:20	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/16/23 6:20	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/16/23 6:20	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/16/23 6:20	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	100%		70-130	9/16/23 6:20	BKP	EPA 8260D	
Surrogate: 4-Bromofluorobenzene	94.8%		70-130	9/16/23 6:20	BKP	EPA 8260D	
Surrogate: Toluene-d8	95.8%		70-130	9/16/23 6:20	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3I0209-08 (GWMW-013-230912)
Lab/Sample Number: MDI0491-08 Collect Date: 09/12/23 12:00
Date Received: 09/14/23 12:19 Collected By: MT/GF/CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
1,1-Dichloroethane	0.730	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/16/23 6:53	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/16/23 6:53	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
Benzene	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
Dichlorodifluoromethane	0.900	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3I0209-08 (GWMW-013-230912)
Lab/Sample Number: MDI0491-08 Collect Date: 09/12/23 12:00
Date Received: 09/14/23 12:19 Collected By: MT/GF/CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
m+p-Xylene	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/16/23 6:53	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/16/23 6:53	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/16/23 6:53	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/16/23 6:53	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	100%		70-130	9/16/23 6:53	BKP	EPA 8260D	
Surrogate: 4-Bromofluorobenzene	95.2%		70-130	9/16/23 6:53	BKP	EPA 8260D	
Surrogate: Toluene-d8	96.7%		70-130	9/16/23 6:53	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3I0209-09 (GWMW-014-230912)
Lab/Sample Number: MDI0491-09 Collect Date: 09/12/23 09:45
Date Received: 09/14/23 12:19 Collected By: MT/GF/CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/16/23 7:26	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/16/23 7:26	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
Benzene	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3I0209-09 (GWMW-014-230912)
Lab/Sample Number: MDI0491-09 Collect Date: 09/12/23 09:45
Date Received: 09/14/23 12:19 Collected By: MT/GF/CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
m+p-Xylene	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/16/23 7:26	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/16/23 7:26	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/16/23 7:26	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/16/23 7:26	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	100%		70-130	9/16/23 7:26	BKP	EPA 8260D	
Surrogate: 4-Bromofluorobenzene	95.7%		70-130	9/16/23 7:26	BKP	EPA 8260D	
Surrogate: Toluene-d8	96.4%		70-130	9/16/23 7:26	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3I0209-10 (GWMW-019R-230912)
Lab/Sample Number: MDI0491-10 Collect Date: 09/12/23 14:35
Date Received: 09/14/23 12:19 Collected By: MT/GF/CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/16/23 7:58	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/16/23 7:58	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
Benzene	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3I0209-10 (GWMW-019R-230912)
Lab/Sample Number: MDI0491-10 Collect Date: 09/12/23 14:35
Date Received: 09/14/23 12:19 Collected By: MT/GF/CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
m+p-Xylene	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/16/23 7:58	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/16/23 7:58	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/16/23 7:58	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/16/23 7:58	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	100%		70-130	9/16/23 7:58	BKP	EPA 8260D	
Surrogate: 4-Bromofluorobenzene	92.9%		70-130	9/16/23 7:58	BKP	EPA 8260D	
Surrogate: Toluene-d8	96.7%		70-130	9/16/23 7:58	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3I0209-11 (GWMW-020-230912)
Lab/Sample Number: MDI0491-11 Collect Date: 09/12/23 14:00
Date Received: 09/14/23 12:19 Collected By: MT/GF/CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
1,1-Dichloroethane	0.550	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/16/23 8:31	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/16/23 8:31	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
Benzene	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
Dichlorodifluoromethane	1.22	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3I0209-11 (GWMW-020-230912)
Lab/Sample Number: MDI0491-11 Collect Date: 09/12/23 14:00
Date Received: 09/14/23 12:19 Collected By: MT/GF/CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
m+p-Xylene	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/16/23 8:31	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/16/23 8:31	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/16/23 8:31	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/16/23 8:31	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	100%		70-130	9/16/23 8:31	BKP	EPA 8260D	
Surrogate: 4-Bromofluorobenzene	97.0%		70-130	9/16/23 8:31	BKP	EPA 8260D	
Surrogate: Toluene-d8	96.7%		70-130	9/16/23 8:31	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3I0209-12 (GWMW-029-230912)
Lab/Sample Number: MDI0491-12 Collect Date: 09/12/23 13:31
Date Received: 09/14/23 12:19 Collected By: MT/GF/CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/16/23 13:25	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/16/23 13:25	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
Benzene	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
Dichlorodifluoromethane	1.43	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3I0209-12 (GWMW-029-230912)
Lab/Sample Number: MDI0491-12 Collect Date: 09/12/23 13:31
Date Received: 09/14/23 12:19 Collected By: MT/GF/CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
m+p-Xylene	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/16/23 13:25	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/16/23 13:25	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/16/23 13:25	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
Tetrachloroethene	0.520	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/16/23 13:25	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	100%		70-130	9/16/23 13:25	BKP	EPA 8260D	
Surrogate: 4-Bromofluorobenzene	91.1%		70-130	9/16/23 13:25	BKP	EPA 8260D	
Surrogate: Toluene-d8	95.7%		70-130	9/16/23 13:25	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3I0209-13 (GWMW-031-230912)
Lab/Sample Number: MDI0491-13 Collect Date: 09/12/23 10:15
Date Received: 09/14/23 12:19 Collected By: MT/GF/CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/16/23 13:57	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/16/23 13:57	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
Benzene	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3I0209-13 (GWMW-031-230912)
Lab/Sample Number: MDI0491-13 Collect Date: 09/12/23 10:15
Date Received: 09/14/23 12:19 Collected By: MT/GF/CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
m+p-Xylene	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/16/23 13:57	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/16/23 13:57	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/16/23 13:57	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/16/23 13:57	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	100%		70-130	9/16/23 13:57	BKP	EPA 8260D	
Surrogate: 4-Bromofluorobenzene	97.3%		70-130	9/16/23 13:57	BKP	EPA 8260D	
Surrogate: Toluene-d8	95.8%		70-130	9/16/23 13:57	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3I0209-14 (GWMS-005-230913)
Lab/Sample Number: MDI0491-14 Collect Date: 09/13/23 09:13
Date Received: 09/14/23 12:19 Collected By: MT/GF/CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/16/23 14:30	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/16/23 14:30	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
Benzene	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3I0209-14 (GWMS-005-230913)
Lab/Sample Number: MDI0491-14 Collect Date: 09/13/23 09:13
Date Received: 09/14/23 12:19 Collected By: MT/GF/CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
m+p-Xylene	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/16/23 14:30	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/16/23 14:30	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/16/23 14:30	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/16/23 14:30	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	100%		70-130	9/16/23 14:30	BKP	EPA 8260D	
Surrogate: 4-Bromofluorobenzene	97.3%		70-130	9/16/23 14:30	BKP	EPA 8260D	
Surrogate: Toluene-d8	96.0%		70-130	9/16/23 14:30	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3I0209-15 (GWMW-023-230913)
Lab/Sample Number: MDI0491-15 Collect Date: 09/13/23 10:53
Date Received: 09/14/23 12:19 Collected By: MT/GF/CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
1,1-Dichloroethane	1.87	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/16/23 15:03	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/16/23 15:03	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
Benzene	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
Dichlorodifluoromethane	1.24	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3I0209-15 (GWMW-023-230913)
Lab/Sample Number: MDI0491-15 Collect Date: 09/13/23 10:53
Date Received: 09/14/23 12:19 Collected By: MT/GF/CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
m+p-Xylene	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/16/23 15:03	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/16/23 15:03	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/16/23 15:03	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/16/23 15:03	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	100%		70-130	9/16/23 15:03	BKP	EPA 8260D	
Surrogate: 4-Bromofluorobenzene	98.7%		70-130	9/16/23 15:03	BKP	EPA 8260D	
Surrogate: Toluene-d8	95.5%		70-130	9/16/23 15:03	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3I0209-16 (GWMW-016-230913)
Lab/Sample Number: MDI0491-16 Collect Date: 09/13/23 11:30
Date Received: 09/14/23 12:19 Collected By: MT/GF/CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
1,1-Dichloroethane	11.3	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
1,2-Dichloroethane	3.50	ug/L	0.500	9/16/23 15:35	BKP	EPA 8260D	
1,2-Dichloropropane	18.2	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
2-hexanone	ND	ug/L	25.0	9/16/23 15:35	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
Acetone	340	ug/L	25.0	9/16/23 15:35	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
Benzene	12.3	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
Bromoform	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
Bromomethane	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
Chloroethane	9.00	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
Chloroform	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
Chloromethane	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
cis-1,2-dichloroethene	2.00	ug/L	0.500	9/16/23 15:35	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
Ethylbenzene	57.9	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3I0209-16 (GWMW-016-230913)
Lab/Sample Number: MDI0491-16 Collect Date: 09/13/23 11:30
Date Received: 09/14/23 12:19 Collected By: MT/GF/CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
m+p-Xylene	24.4	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	25.0	9/16/23 15:35	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	25.0	9/16/23 15:35	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	25.0	9/16/23 15:35	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
Naphthalene	12.0	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
o-Xylene	12.2	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
Styrene	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
Toluene	12.0	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	5.00	9/16/23 15:35	BKP	EPA 8260D	
Vinyl Chloride	0.800	ug/L	0.500	9/16/23 15:35	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	100%		70-130	9/16/23 15:35	BKP	EPA 8260D	
Surrogate: 4-Bromofluorobenzene	98.7%		70-130	9/16/23 15:35	BKP	EPA 8260D	
Surrogate: Toluene-d8	98.0%		70-130	9/16/23 15:35	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3I0209-17 (MWS-1-2-230913)
Lab/Sample Number: MDI0491-17 Collect Date: 09/13/23 10:27
Date Received: 09/14/23 12:19 Collected By: MT/GF/CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
1,1-Dichloroethane	1.82	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/16/23 16:08	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/16/23 16:08	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
Benzene	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
Dichlorodifluoromethane	1.09	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3I0209-17 (MWS-1-2-230913)
Lab/Sample Number: MDI0491-17 Collect Date: 09/13/23 10:27
Date Received: 09/14/23 12:19 Collected By: MT/GF/CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
m+p-Xylene	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/16/23 16:08	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/16/23 16:08	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/16/23 16:08	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/16/23 16:08	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	100%		70-130	9/16/23 16:08	BKP	EPA 8260D	
Surrogate: 4-Bromofluorobenzene	95.5%		70-130	9/16/23 16:08	BKP	EPA 8260D	
Surrogate: Toluene-d8	95.6%		70-130	9/16/23 16:08	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3I0209-18 (MWS-2-1-230913)
Lab/Sample Number: MDI0491-18 Collect Date: 09/13/23 00:00
Date Received: 09/14/23 12:19 Collected By: MT/GF/CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.200	9/16/23 16:41	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
2-Chloroethyl vinyl ether	ND	ug/L	2.50	9/16/23 16:41	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/16/23 16:41	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/16/23 16:41	BKP	EPA 8260D	
Acrolein	ND	ug/L	2.50	9/16/23 16:41	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	2.50	9/16/23 16:41	BKP	EPA 8260D	
Benzene	ND	ug/L	0.200	9/16/23 16:41	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.200	9/16/23 16:41	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	2.50	9/16/23 16:41	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.200	9/16/23 16:41	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.200	9/16/23 16:41	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.200	9/16/23 16:41	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: X3I0209-18 (MWS-2-1-230913)
Lab/Sample Number: MDI0491-18 Collect Date: 09/13/23 00:00
Date Received: 09/14/23 12:19 Collected By: MT/GF/CC
Matrix: Ground Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Hexachlorobutadiene	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	1.00	9/16/23 16:41	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/16/23 16:41	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/16/23 16:41	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
Total Xylene	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.200	9/16/23 16:41	BKP	EPA 8260D	
trans-1-4-Dichloro-2-butene	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
Vinyl acetate	ND	ug/L	0.500	9/16/23 16:41	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.200	9/16/23 16:41	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	100%		70-130	9/16/23 16:41	BKP	EPA 8260D	
Surrogate: 4-Bromofluorobenzene	96.7%		70-130	9/16/23 16:41	BKP	EPA 8260D	
Surrogate: Toluene-d8	96.2%		70-130	9/16/23 16:41	BKP	EPA 8260D	

Authorized Signature,



Justin Doty For Todd Taruscio, Laboratory Manager

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L5	The associated blank spike recovery was above laboratory/method acceptance limits. This analyte was not detected in the sample
M13	Matrix spike recovery was high due to a potential matrix effect.
PQL	Practical Quantitation Limit
ND	Not Detected
MCL	EPA's Maximum Contaminant Level
Dry	Sample results reported on a dry weight basis
*	Not a state-certified analyte
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was spiked or duplicated.

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The results reported related only to the samples indicated.

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Quality Control Data

Semivolatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDJ0602 - SVOC Water										
Blank (BDJ0602-BLK1)			Prepared: 9/13/2023 Analyzed: 10/15/2023							
Di (2-ethylhexyl) phthalate	ND		0.500	ug/L						
Surrogate: Phenol-2,3,4,5,6-d5			47.4	ug/L	50.0		94.8	51-112		
Surrogate: Nitrobenzene-d5			21.5	ug/L	25.0		85.8	65-110		
Surrogate: Terphenyl-d14			24.5	ug/L	25.0		97.9	57-133		
Surrogate: 2-Fluorophenol			48.4	ug/L	50.0		96.7	37-110		
Surrogate: 2-Fluorobiphenyl			19.8	ug/L	25.0		79.2	57-113		
Surrogate: 2,4,6-Tribromophenol			50.9	ug/L	50.0		102	48-120		
LCS (BDJ0602-BS1)			Prepared: 9/13/2023 Analyzed: 10/15/2023							
Di (2-ethylhexyl) phthalate	6.64		0.500	ug/L	5.00		133	60-144		
LCS Dup (BDJ0602-BSD1)			Prepared: 9/13/2023 Analyzed: 10/15/2023							
Di (2-ethylhexyl) phthalate	5.98		0.500	ug/L	5.00		120	60-144	10.5	32

Quality Control Data

Volatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0545 - VOC										
Blank (BDI0545-BLK1)			Prepared & Analyzed: 9/15/2023							
Chloroethane	ND		0.500	ug/L						
Dibromomethane	ND		0.500	ug/L						
Methylene Chloride (Dichloromethane)	ND		2.50	ug/L						
Methyl isobutyl ketone (MIBK)	ND		2.50	ug/L						
Methyl ethyl ketone (MEK)	ND		2.50	ug/L						
m/p Xylenes (MCL for total)	ND		0.500	ug/L						
Isopropylbenzene	ND		0.500	ug/L						
Ethylbenzene	ND		0.500	ug/L						
Dibromochloromethane	ND		0.500	ug/L						
cis-1,3-Dichloropropene	ND		0.500	ug/L						
cis-1,2-Dichloroethylene	ND		0.500	ug/L						
methyl-t-butyl ether (MTBE)	ND		0.500	ug/L						
Chloroform	ND		0.500	ug/L						
sec-Butylbenzene	ND		0.500	ug/L						
Chlorobenzene (Monochlorobenzene)	ND		0.500	ug/L						
Carbon Tetrachloride	ND		0.500	ug/L						
Chloromethane	ND		0.500	ug/L						
tert-Butylbenzene	ND		0.500	ug/L						
Vinyl Chloride	ND		0.500	ug/L						
Trichlorofluoromethane	ND		0.500	ug/L						
Trichloroethene	ND		0.500	ug/L						
trans-1,3-Dichloropropene	ND		0.500	ug/L						
trans-1,2 Dichloroethylene	ND		0.500	ug/L						
o-Xylene (MCL for total)	ND		0.500	ug/L						
Tetrachloroethylene	ND		0.500	ug/L						
Naphthalene	ND		0.500	ug/L						
Styrene	ND		0.500	ug/L						
Dichlorodifluoromethane	ND		0.500	ug/L						

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Quality Control Data (Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0545 - VOC (Continued)										
Blank (BDI0545-BLK1)					Prepared & Analyzed: 9/15/2023					
p-isopropyltoluene	ND		0.500	ug/L						
Carbon disulfide	ND		0.500	ug/L						
n-Propylbenzene	ND		0.500	ug/L						
n-Butylbenzene	ND		0.500	ug/L						
Toluene	ND		0.500	ug/L						
1,2,3-Trichlorobenzene	ND		0.500	ug/L						
1,2-Dichloroethane	ND		0.500	ug/L						
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND		0.500	ug/L						
EDB (screening)	ND		0.500	ug/L						
DBCP (screening)	ND		0.500	ug/L						
1,2,4-Trimethylbenzene	ND		0.500	ug/L						
1,2-Dichloropropane	ND		0.500	ug/L						
1,2,3-Trichloropropane	ND		0.500	ug/L						
1,1-Dichloroethane	ND		0.500	ug/L						
1,1-Dichloropropene	ND		0.500	ug/L						
1,1-Dichloroethylene	ND		0.500	ug/L						
Bromomethane	ND		0.500	ug/L						
1,1,2-Trichloroethane	ND		0.500	ug/L						
Hexachlorobutadiene	ND		0.500	ug/L						
1,1,1-Trichloroethane	ND		0.500	ug/L						
1,1,1,2-Tetrachloroethane	ND		0.500	ug/L						
1,2,4-Trichlorobenzene	ND		0.500	ug/L						
Bromochloromethane	ND		0.500	ug/L						
1,1,2,2-Tetrachloroethane	ND		0.500	ug/L						
1,3,5-Trimethylbenzene	ND		0.500	ug/L						
Bromoform	ND		0.500	ug/L						
Bromodichloromethane	ND		0.500	ug/L						
Bromobenzene	ND		0.500	ug/L						
Benzene	ND		0.500	ug/L						
Acrylonitrile	ND		0.500	ug/L						
Acetone	ND		2.50	ug/L						
p-Chlorotoluene	ND		0.500	ug/L						
1,3-Dichloropropane	ND		0.500	ug/L						
2-hexanone	ND		2.50	ug/L						
o-Chlorotoluene	ND		0.500	ug/L						
2,2-Dichloropropane	ND		0.500	ug/L						
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND		0.500	ug/L						
m-Dichlorobenzene	ND		0.500	ug/L						
Surrogate: Toluene-d8			19.2	ug/L	20.0		96.0	70-130		
Surrogate: 4-Bromofluorobenzene			19.6	ug/L	20.0		98.1	70-130		
Surrogate: 1,2-Dichlorobenzene-d4			20.0	ug/L	20.0		100	70-130		

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Quality Control Data (Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0545 - VOC (Continued)										
LCS (BDI0545-BS1)					Prepared & Analyzed: 9/15/2023					
1,3,5-Trimethylbenzene	12.0		0.500	ug/L	10.0		120	80-121		
m-Dichlorobenzene	9.83		0.500	ug/L	10.0		98.3	80-120		
1,3-Dichloropropane	10.5		0.500	ug/L	10.0		105	80-120		
1,4-Dichlorobenzene (para-Dichlorobenzene)	10.5		0.500	ug/L	10.0		105	80-120		
2,2-Dichloropropane	10.3		0.500	ug/L	10.0		103	80-120		
o-Chlorotoluene	7.57	L5	0.500	ug/L	10.0		75.7	80-120		
2-hexanone	8.90		2.50	ug/L	10.0		89.0	65-140		
Benzene	10.8		0.500	ug/L	10.0		108	80-120		
p-Chlorotoluene	11.7		0.500	ug/L	10.0		117	80-124		
Acrylonitrile	10.1		0.500	ug/L	10.0		101	73-131		
1,2-Dichloropropane	10.5		0.500	ug/L	10.0		105	80-120		
1,1-Dichloropropene	11.9		0.500	ug/L	10.0		119	80-120		
Bromochloromethane	10.7		0.500	ug/L	10.0		107	80-120		
Bromobenzene	10.5		0.500	ug/L	10.0		105	80-120		
1,2-Dichloroethane	10.2		0.500	ug/L	10.0		102	80-120		
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	10.5		0.500	ug/L	10.0		105	80-120		
EDB (screening)	10.3		0.500	ug/L	10.0		103	70-130		
DBCP (screening)	9.64		0.500	ug/L	10.0		96.4	71-128		
1,2,4-Trimethylbenzene	12.2	L5	0.500	ug/L	10.0		122	80-120		
1,2,4-Trichlorobenzene	10.8		0.500	ug/L	10.0		108	80-120		
1,2,3-Trichlorobenzene	11.4		0.500	ug/L	10.0		114	78-120		
1,1-Dichloroethylene	11.0		0.500	ug/L	10.0		110	70-129		
1,1-Dichloroethane	10.7		0.500	ug/L	10.0		107	80-120		
1,1,2,2-Tetrachloroethane	10.2		0.500	ug/L	10.0		102	77-123		
1,1,1,2-Tetrachloroethane	10.3		0.500	ug/L	10.0		103	80-120		
1,1,2-Trichloroethane	10.2		0.500	ug/L	10.0		102	80-120		
Bromodichloromethane	10.1		0.500	ug/L	10.0		101	80-120		
1,2,3-Trichloropropane	10.5		0.500	ug/L	10.0		105	80-120		
Toluene	10.8		0.500	ug/L	10.0		108	80-120		
n-Butylbenzene	11.9		0.500	ug/L	10.0		119	74-122		
n-Propylbenzene	11.8		0.500	ug/L	10.0		118	80-120		
o-Xylene (MCL for total)	11.4		0.500	ug/L	10.0		114	80-120		
p-isopropyltoluene	11.5		0.500	ug/L	10.0		115	80-120		
sec-Butylbenzene	12.2	L5	0.500	ug/L	10.0		122	80-120		
Styrene	12.1	L5	0.500	ug/L	10.0		121	80-120		
Naphthalene	10.0		0.500	ug/L	10.0		100	66-133		
Tetrachloroethylene	10.6		0.500	ug/L	10.0		106	80-120		
Trichloroethene	10.7		0.500	ug/L	10.0		107	80-120		
trans-1,2 Dichloroethylene	11.0		0.500	ug/L	10.0		110	80-120		
trans-1,3-Dichloropropene	9.69		0.500	ug/L	10.0		96.9	69-130		
Trichlorofluoromethane	11.1		0.500	ug/L	10.0		111	61-140		
1,1,1-Trichloroethane	10.8		0.500	ug/L	10.0		108	80-120		
Bromoform	9.71		0.500	ug/L	10.0		97.1	68-133		
tert-Butylbenzene	12.0		0.500	ug/L	10.0		120	80-120		
cis-1,3-Dichloropropene	9.81		0.500	ug/L	10.0		98.1	79-123		
Vinyl Chloride	10.8		0.500	ug/L	10.0		108	75-120		
Carbon Tetrachloride	11.0		0.500	ug/L	10.0		110	80-120		
Carbon disulfide	10.6		0.500	ug/L	10.0		106	80-120		
Chloroethane	10.9		0.500	ug/L	10.0		109	78-120		
Chloroform	10.7		0.500	ug/L	10.0		107	80-120		

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Quality Control Data (Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0545 - VOC (Continued)										
LCS (BDI0545-BS1)					Prepared & Analyzed: 9/15/2023					
methyl-t-butyl ether (MTBE)	9.91		0.500	ug/L	10.0		99.1	71-130		
cis-1,2-Dichloroethylene	11.0		0.500	ug/L	10.0		110	80-120		
Chlorobenzene (Monochlorobenzene)	10.3		0.500	ug/L	10.0		103	80-120		
Dibromochloromethane	9.95		0.500	ug/L	10.0		99.5	80-121		
Dibromomethane	10.5		0.500	ug/L	10.0		105	80-120		
Dichlorodifluoromethane	10.6		0.500	ug/L	10.0		106	57-130		
Ethylbenzene	11.1		0.500	ug/L	10.0		111	80-120		
Hexachlorobutadiene	11.8		0.500	ug/L	10.0		118	80-120		
Isopropylbenzene	11.7		0.500	ug/L	10.0		117	80-120		
m/p Xylenes (MCL for total)	22.9		0.500	ug/L	20.0		114	80-120		
Methyl ethyl ketone (MEK)	10.4		2.50	ug/L	10.0		104	55-154		
Methyl isobutyl ketone (MIBK)	9.66		2.50	ug/L	10.0		96.6	70-136		
Surrogate: 4-Bromofluorobenzene			19.7	ug/L	20.0		98.4	70-130		
Surrogate: Toluene-d8			20.3	ug/L	20.0		101	70-130		
Surrogate: 1,2-Dichlorobenzene-d4			20.0	ug/L	20.0		100	70-130		

Matrix Spike (BDI0545-MS1)

Source: MDI0491-06

Prepared & Analyzed: 9/16/2023

Methyl ethyl ketone (MEK)	10.1		2.50	ug/L	10.0	ND	101	47-165
m/p Xylenes (MCL for total)	24.8		0.500	ug/L	20.0	ND	124	57-130
Isopropylbenzene	12.3		0.500	ug/L	10.0	ND	123	70-130
Hexachlorobutadiene	11.5		0.500	ug/L	10.0	ND	115	70-130
Methyl isobutyl ketone (MIBK)	10.4		2.50	ug/L	10.0	ND	104	53-167
Ethylbenzene	12.2		0.500	ug/L	10.0	ND	122	70-130
Dichlorodifluoromethane	9.56		0.500	ug/L	10.0	ND	95.6	57-136
Dibromomethane	11.1		0.500	ug/L	10.0	ND	111	70-130
Dibromochloromethane	10.9		0.500	ug/L	10.0	ND	109	70-130
cis-1,3-Dichloropropene	9.75		0.500	ug/L	10.0	ND	97.5	74-124
cis-1,2-Dichloroethylene	11.2		0.500	ug/L	10.0	ND	112	70-130
Chloroethane	12.1		0.500	ug/L	10.0	ND	121	68-138
tert-Butylbenzene	12.9		0.500	ug/L	10.0	ND	129	70-130
Chlorobenzene (Monochlorobenzene)	11.3		0.500	ug/L	10.0	ND	113	70-130
Chloroform	11.4		0.500	ug/L	10.0	ND	114	70-130
Tetrachloroethylene	11.1		0.500	ug/L	10.0	ND	111	70-130
Trichlorofluoromethane	10.7		0.500	ug/L	10.0	ND	107	50-154
1,2-Dichloroethane	10.8		0.500	ug/L	10.0	ND	108	70-130
Carbon Tetrachloride	11.0		0.500	ug/L	10.0	ND	110	70-130
Trichloroethene	10.9		0.500	ug/L	10.0	ND	109	70-130
trans-1,3-Dichloropropene	10.3		0.500	ug/L	10.0	ND	103	61-131
trans-1,2 Dichloroethylene	11.4		0.500	ug/L	10.0	ND	114	70-130
sec-Butylbenzene	12.9		0.500	ug/L	10.0	ND	129	70-130
Toluene	11.4		0.500	ug/L	10.0	ND	114	70-130
methyl-t-butyl ether (MTBE)	9.77		0.500	ug/L	10.0	ND	97.7	57-138
Styrene	13.2	M13	0.500	ug/L	10.0	ND	132	30-130
p-isopropyltoluene	12.4		0.500	ug/L	10.0	ND	124	70-130
o-Xylene (MCL for total)	12.4		0.500	ug/L	10.0	ND	124	62-127
n-Propylbenzene	13.0		0.500	ug/L	10.0	ND	130	70-130
n-Butylbenzene	11.8		0.500	ug/L	10.0	ND	118	67-130
Naphthalene	10.4		0.500	ug/L	10.0	ND	104	56-147
1,1-Dichloropropene	11.9		0.500	ug/L	10.0	ND	119	70-130
1,3,5-Trimethylbenzene	13.3		0.500	ug/L	10.0	ND	133	40-140

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Quality Control Data (Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0545 - VOC (Continued)										
Matrix Spike (BDI0545-MS1)			Source: MDI0491-06		Prepared & Analyzed: 9/16/2023					
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	10.9		0.500	ug/L	10.0	ND	109	70-130		
EDB (screening)	11.4		0.500	ug/L	10.0	ND	114	70-130		
DBCP (screening)	10.5		0.500	ug/L	10.0	ND	105	55-146		
1,2,4-Trimethylbenzene	13.5		0.500	ug/L	10.0	ND	135	40-140		
1,2,4-Trichlorobenzene	10.7		0.500	ug/L	10.0	ND	107	70-130		
1,2,3-Trichlorobenzene	11.9		0.500	ug/L	10.0	ND	119	67-134		
1,2-Dichloropropane	11.1		0.500	ug/L	10.0	ND	111	70-130		
1,1-Dichloroethylene	10.6		0.500	ug/L	10.0	ND	106	70-130		
1,1-Dichloroethane	11.0		0.500	ug/L	10.0	ND	110	70-130		
1,1,2-Trichloroethane	11.3		0.500	ug/L	10.0	ND	113	70-130		
1,1,2,2-Tetrachloroethane	11.6		0.500	ug/L	10.0	ND	116	67-136		
1,1,1-Trichloroethane	11.0		0.500	ug/L	10.0	ND	110	70-130		
1,1,1,2-Tetrachloroethane	11.4		0.500	ug/L	10.0	ND	114	70-130		
1,2,3-Trichloropropane	11.8		0.500	ug/L	10.0	ND	118	69-137		
2-hexanone	10.6		2.50	ug/L	10.0	ND	106	43-175		
Bromoform	10.4		0.500	ug/L	10.0	ND	104	59-140		
Bromodichloromethane	10.7		0.500	ug/L	10.0	ND	107	70-130		
Bromochloromethane	11.1		0.500	ug/L	10.0	ND	111	70-130		
Bromobenzene	11.3		0.500	ug/L	10.0	ND	113	70-130		
Benzene	11.3		0.500	ug/L	10.0	ND	113	70-130		
Acrylonitrile	10.7		0.500	ug/L	10.0	ND	107	65-137		
Carbon disulfide	10.7		0.500	ug/L	10.0	ND	107	70-130		
o-Chlorotoluene	8.42		0.500	ug/L	10.0	ND	84.2	70-130		
2,2-Dichloropropane	9.80		0.500	ug/L	10.0	ND	98.0	70-130		
1,4-Dichlorobenzene (para-Dichlorobenzene)	10.8		0.500	ug/L	10.0	ND	108	70-130		
1,3-Dichloropropane	11.4		0.500	ug/L	10.0	ND	114	70-130		
m-Dichlorobenzene	10.2		0.500	ug/L	10.0	ND	102	70-130		
Vinyl Chloride	10.5		0.500	ug/L	10.0	ND	105	70-130		
p-Chlorotoluene	13.0		0.500	ug/L	10.0	ND	130	70-130		
Surrogate: Toluene-d8			20.5	ug/L	20.0		103	70-130		
Surrogate: 4-Bromofluorobenzene			21.0	ug/L	20.0		105	70-130		
Surrogate: 1,2-Dichlorobenzene-d4			20.0	ug/L	20.0		100	70-130		

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Quality Control Data (Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0545 - VOC (Continued)										
Matrix Spike Dup (BDI0545-MSD1)			Source: MDI0491-06		Prepared & Analyzed: 9/16/2023					
Methyl ethyl ketone (MEK)	10.1		2.50	ug/L	10.0	ND	101	47-165	0.595	20
2-hexanone	11.0		2.50	ug/L	10.0	ND	110	43-175	3.24	20
Bromodichloromethane	10.5		0.500	ug/L	10.0	ND	105	70-130	2.17	20
1,3,5-Trimethylbenzene	12.6		0.500	ug/L	10.0	ND	126	40-140	5.18	20
m-Dichlorobenzene	10.0		0.500	ug/L	10.0	ND	100	70-130	1.29	20
1,3-Dichloropropane	11.5		0.500	ug/L	10.0	ND	115	70-130	0.960	20
1,4-Dichlorobenzene (para-Dichlorobenzene)	10.7		0.500	ug/L	10.0	ND	107	70-130	1.30	20
1,2-Dichloroethane	10.6		0.500	ug/L	10.0	ND	106	70-130	1.96	20
o-Chlorotoluene	8.07		0.500	ug/L	10.0	ND	80.7	70-130	4.25	20
p-Chlorotoluene	12.5		0.500	ug/L	10.0	ND	125	70-130	4.08	20
Acrylonitrile	11.2		0.500	ug/L	10.0	ND	112	65-137	3.93	20
Benzene	10.9		0.500	ug/L	10.0	ND	109	70-130	3.34	20
Bromobenzene	11.1		0.500	ug/L	10.0	ND	111	70-130	2.23	20
methyl-t-butyl ether (MTBE)	10.3		0.500	ug/L	10.0	ND	103	57-138	5.38	20
2,2-Dichloropropane	9.71		0.500	ug/L	10.0	ND	97.1	70-130	0.923	20
1,2,3-Trichlorobenzene	12.2		0.500	ug/L	10.0	ND	122	67-134	2.91	20
1,1,1,2-Tetrachloroethane	10.9		0.500	ug/L	10.0	ND	109	70-130	4.03	20
1,1,1-Trichloroethane	10.4		0.500	ug/L	10.0	ND	104	70-130	4.95	20
1,1,2,2-Tetrachloroethane	11.3		0.500	ug/L	10.0	ND	113	67-136	1.83	20
1,1,2-Trichloroethane	11.2		0.500	ug/L	10.0	ND	112	70-130	0.445	20
1,1-Dichloroethane	10.7		0.500	ug/L	10.0	ND	107	70-130	3.32	20
1,2-Dichloropropane	11.0		0.500	ug/L	10.0	ND	110	70-130	1.36	20
1,1-Dichloropropene	11.4		0.500	ug/L	10.0	ND	114	70-130	3.94	20
Bromoform	10.3		0.500	ug/L	10.0	ND	103	59-140	1.16	20
1,2,3-Trichloropropane	11.8		0.500	ug/L	10.0	ND	118	69-137	0.255	20
1,2,4-Trichlorobenzene	11.4		0.500	ug/L	10.0	ND	114	70-130	5.70	20
1,2,4-Trimethylbenzene	13.0		0.500	ug/L	10.0	ND	130	40-140	3.40	20
DBCP (screening)	10.7		0.500	ug/L	10.0	ND	107	55-146	1.42	20
EDB (screening)	11.5		0.500	ug/L	10.0	ND	115	70-130	1.05	20
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	10.7		0.500	ug/L	10.0	ND	107	70-130	1.30	20
1,1-Dichloroethylene	10.5		0.500	ug/L	10.0	ND	105	70-130	0.856	20
Tetrachloroethylene	10.7		0.500	ug/L	10.0	ND	107	70-130	3.39	20
Bromochloromethane	10.9		0.500	ug/L	10.0	ND	109	70-130	1.63	20
n-Propylbenzene	12.3		0.500	ug/L	10.0	ND	123	70-130	4.98	20
o-Xylene (MCL for total)	12.2		0.500	ug/L	10.0	ND	122	62-127	1.87	20
p-isopropyltoluene	11.9		0.500	ug/L	10.0	ND	119	70-130	3.78	20
sec-Butylbenzene	12.4		0.500	ug/L	10.0	ND	124	70-130	4.35	20
Naphthalene	11.0		0.500	ug/L	10.0	ND	110	56-147	5.78	20
tert-Butylbenzene	12.3		0.500	ug/L	10.0	ND	123	70-130	4.91	20
Methyl isobutyl ketone (MIBK)	11.0		2.50	ug/L	10.0	ND	110	53-167	5.61	20
Toluene	11.0		0.500	ug/L	10.0	ND	110	70-130	3.58	20
trans-1,2 Dichloroethylene	10.9		0.500	ug/L	10.0	ND	109	70-130	4.49	20
trans-1,3-Dichloropropene	10.6		0.500	ug/L	10.0	ND	106	61-131	2.30	20
Trichloroethene	10.7		0.500	ug/L	10.0	ND	107	70-130	1.95	20
Trichlorofluoromethane	10.1		0.500	ug/L	10.0	ND	101	50-154	6.35	20
Styrene	12.8		0.500	ug/L	10.0	ND	128	30-130	3.16	20
Dibromochloromethane	10.8		0.500	ug/L	10.0	ND	108	70-130	1.02	20
Carbon disulfide	10.1		0.500	ug/L	10.0	ND	101	70-130	5.47	20
Carbon Tetrachloride	10.3		0.500	ug/L	10.0	ND	103	70-130	6.12	20
Chlorobenzene (Monochlorobenzene)	10.9		0.500	ug/L	10.0	ND	109	70-130	3.77	20

Anatek Labs, Inc.

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

Quality Control Data (Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0545 - VOC (Continued)										
Matrix Spike Dup (BDI0545-MSD1)			Source: MDI0491-06		Prepared & Analyzed: 9/16/2023					
Chloroethane	11.5		0.500	ug/L	10.0	ND	115	68-138	5.10	20
Chloroform	10.9		0.500	ug/L	10.0	ND	109	70-130	4.83	20
n-Butylbenzene	11.6		0.500	ug/L	10.0	ND	116	67-130	2.40	20
cis-1,3-Dichloropropene	10.1		0.500	ug/L	10.0	ND	101	74-124	3.43	20
Vinyl Chloride	9.99		0.500	ug/L	10.0	ND	99.9	70-130	4.60	20
Dibromomethane	10.9		0.500	ug/L	10.0	ND	109	70-130	1.36	20
Dichlorodifluoromethane	9.17		0.500	ug/L	10.0	ND	91.7	57-136	4.16	20
Ethylbenzene	11.7		0.500	ug/L	10.0	ND	117	70-130	3.86	20
Hexachlorobutadiene	11.3		0.500	ug/L	10.0	ND	113	70-130	1.40	20
Isopropylbenzene	12.1		0.500	ug/L	10.0	ND	121	70-130	1.80	20
m/p Xylenes (MCL for total)	24.3		0.500	ug/L	20.0	ND	122	57-130	1.87	20
cis-1,2-Dichloroethylene	11.2		0.500	ug/L	10.0	ND	112	70-130	0.00	20
Surrogate: 4-Bromofluorobenzene			20.8	ug/L	20.0		104	70-130		
Surrogate: Toluene-d8			20.4	ug/L	20.0		102	70-130		
Surrogate: 1,2-Dichlorobenzene-d4			20.0	ug/L	20.0		100	70-130		



Subcontract Order

One Government Gulch - PO Box 929

Kellogg ID 83837-0929

(208) 784-1258

X310209

Sending Laboratory:

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

Client:

Spokane County Environmental Services
(Colbert)
Project Name:
Routine

Receiving Laboratory:

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

Project State of Origin:

Washington

Report and Invoice to SVL Analytical, Inc.

Analysis	Due	HT Expires		
SVL ID: X310209-01 Client ID: GWDW-001-230912			Ground Water	Sampled: 12-Sep-23 08:42
Sub VOC 8260 (Anatek)	28-Sep-23	26-Sep-23 08:42	DEDICATED QC	
Containers Supplied:				
Amber VOA HCl (A)				
Amber VOA HCl (B)				
Amber VOA HCl (C)				
SVL ID: X310209-02 Client ID: GWDW-002-230912			Ground Water	Sampled: 12-Sep-23 10:16
Sub VOC 8260 (Anatek)	28-Sep-23	26-Sep-23 10:16	DEDICATED QC	
Containers Supplied:				
Amber VOA HCl (A)				
Amber VOA HCl (B)				
Amber VOA HCl (C)				
SVL ID: X310209-03 Client ID: GWDW-003-230912			Ground Water	Sampled: 12-Sep-23 11:46
Sub VOC 8260 (Anatek)	28-Sep-23	26-Sep-23 11:46	DEDICATED QC	
Containers Supplied:				
Amber VOA HCl (A)				
Amber VOA HCl (B)				
Amber VOA HCl (C)				
SVL ID: X310209-04 Client ID: GWDW-004-230912			Ground Water	Sampled: 12-Sep-23 14:01
Sub VOC 8260 (Anatek)	28-Sep-23	26-Sep-23 14:01	DEDICATED QC	
Containers Supplied:				
Amber VOA HCl (A)				
Amber VOA HCl (B)				
Amber VOA HCl (C)				
Raw Amber Glass (D)				
SVL ID: X310209-05 Client ID: MWS-1-1-230912			Ground Water	Sampled: 12-Sep-23 10:21
Sub VOC 8260 (Anatek)	28-Sep-23	26-Sep-23 10:21	DEDICATED QC	
Containers Supplied:				
Amber VOA HCl (A)				
Amber VOA HCl (B)				
Amber VOA HCl (C)				

Shipped directly to Anatek

Relinquished by: [Signature] Date/Time: 09/14/23 Received by: _____ Date/Time: _____

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



Subcontract Order

One Government Gulch - PO Box 929

Kellogg ID 83837-0929

(208) 784-1258

X310209

Analysis	Due	HT Expires		
SVL ID: X310209-06 Client ID: GWMW-009-230912			Ground Water	Sampled: 12-Sep-23 09:44
Sub VOC 8260 (Anatek)	28-Sep-23	26-Sep-23 09:44	DEDICATED QC	
<i>Containers Supplied:</i>				
Amber VOA HCl (A)				
Amber VOA HCl (B)				
Amber VOA HCl (C)				
Amber VOA HCl (D)				
Amber VOA HCl (E)				
Amber VOA HCl (F)				
Amber VOA HCl (G)				
Amber VOA HCl (H)				
Amber VOA HCl (I)				
SVL ID: X310209-07 Client ID: GWMW-010-230912			Ground Water	Sampled: 12-Sep-23 10:47
Sub VOC 8260 (Anatek)	28-Sep-23	26-Sep-23 10:47	DEDICATED QC	
<i>Containers Supplied:</i>				
Amber VOA HCl (A)				
Amber VOA HCl (B)				
Amber VOA HCl (C)				
SVL ID: X310209-08 Client ID: GWMW-013-230912			Ground Water	Sampled: 12-Sep-23 12:00
Sub VOC 8260 (Anatek)	28-Sep-23	26-Sep-23 12:00	DEDICATED QC	
<i>Containers Supplied:</i>				
Amber VOA HCl (A)				
Amber VOA HCl (B)				
Amber VOA HCl (C)				
SVL ID: X310209-09 Client ID: GWMW-014-230912			Ground Water	Sampled: 12-Sep-23 09:45
Sub VOC 8260 (Anatek)	28-Sep-23	26-Sep-23 09:45	DEDICATED QC	
<i>Containers Supplied:</i>				
Amber VOA HCl (A)				
Amber VOA HCl (B)				
Amber VOA HCl (C)				
SVL ID: X310209-10 Client ID: GWMW-019R-230912			Ground Water	Sampled: 12-Sep-23 14:35
Sub VOC 8260 (Anatek)	28-Sep-23	26-Sep-23 14:35	DEDICATED QC	
<i>Containers Supplied:</i>				
Amber VOA HCl (A)				
Amber VOA HCl (B)				
Amber VOA HCl (C)				
SVL ID: X310209-11 Client ID: GWMW-020-230912			Ground Water	Sampled: 12-Sep-23 14:00
Sub VOC 8260 (Anatek)	28-Sep-23	26-Sep-23 14:00	DEDICATED QC	
<i>Containers Supplied:</i>				
Amber VOA HCl (A)				
Amber VOA HCl (B)				
Amber VOA HCl (C)				
SVL ID: X310209-12 Client ID: GWMW-029-230912			Ground Water	Sampled: 12-Sep-23 13:31
Sub VOC 8260 (Anatek)	28-Sep-23	26-Sep-23 13:31	DEDICATED QC	
<i>Containers Supplied:</i>				
Amber VOA HCl (A)				
Amber VOA HCl (B)				
Amber VOA HCl (C)				

Shipped directly to Anatek

Relinquished by: 7/14/23 Date/Time: 09/14/23 Received by: _____ Date/Time: _____

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



Subcontract Order

One Government Gulch - PO Box 929

Kellogg ID 83837-0929

(208) 784-1258

X3I0209

Analysis	Due	HT Expires		
SVL ID: X3I0209-13 Client ID: GWMW-031-230912			Ground Water	Sampled: 12-Sep-23 10:15
Sub VOC 8260 (Anatek)	28-Sep-23	26-Sep-23 10:15	DEDICATED QC	
Containers Supplied:				
Amber VOA HCl (A)				
Amber VOA HCl (B)				
Amber VOA HCl (C)				
SVL ID: X3I0209-14 Client ID: GWMS-005-230913			Ground Water	Sampled: 13-Sep-23 09:13
Sub VOC 8260 (Anatek)	28-Sep-23	27-Sep-23 09:13	DEDICATED QC	
Containers Supplied:				
Amber VOA HCl (A)				
Amber VOA HCl (B)				
Amber VOA HCl (C)				
SVL ID: X3I0209-15 Client ID: GWMW-023-230913			Ground Water	Sampled: 13-Sep-23 10:53
Sub VOC 8260 (Anatek)	28-Sep-23	27-Sep-23 10:53	DEDICATED QC	
Containers Supplied:				
Amber VOA HCl (A)				
Amber VOA HCl (B)				
Amber VOA HCl (C)				
SVL ID: X3I0209-16 Client ID: GWMW-016-230913			Ground Water	Sampled: 13-Sep-23 11:30
Sub VOC 8260 (Anatek)	28-Sep-23	27-Sep-23 11:30	DEDICATED QC	
Containers Supplied:				
Amber VOA HCl (A)				
Amber VOA HCl (B)				
Amber VOA HCl (C)				
SVL ID: X3I0209-17 Client ID: MWS-1-2-230913			Ground Water	Sampled: 13-Sep-23 10:27
Sub VOC 8260 (Anatek)	28-Sep-23	27-Sep-23 10:27	DEDICATED QC	
Containers Supplied:				
Amber VOA HCl (A)				
Amber VOA HCl (B)				
Amber VOA HCl (C)				
SVL ID: X3I0209-18 Client ID: MWS-2-1-230913			Ground Water	Sampled: 13-Sep-23 00:00
Sub VOC 8260 (Anatek)	28-Sep-23	27-Sep-23 00:00	DEDICATED QC	
Containers Supplied:				
Amber VOA HCl (A)				
Amber VOA HCl (B)				

Shipped directly to Anatek

Relinquished by: *My [Signature]* Date/Time: 09/17/23 Received by: _____ Date/Time: _____

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

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

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

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

SHIPPING CO: UPS
SHIPPING # 13090461403
OF COOLERS: 1

DATE: 9-13-2023
PAGE 1 OF 2

PARAMETERS:			VOLATILES	SEMI VOLATILES	SAMPLERS: Mike Terris Gordie Fisette Craig Campbell			
				BEHP				
			METHOD:	8260C				8270D
			BOTTLES:	3-40 ml. VOA'S				1 LITER AMBER GLASS
			LAB:	ANATEK LAB				ANATEK LAB
PRESERVATION:	2023		HCl pH<2	UNPRESERVED	NUMBER OF BOTTLES	COOLER NUMBER	COMMENTS	
SAMPLE IDENTIFICATION	DATE	TIME						
GWDW-001-230912	9-12	0842	XX		3	1001		
GWDW-002-230912	9-12	1016	XX		3	1001		
GWDW-003-230912	9-12	1146	XX		3	1001		
GWMS-004-230912	9-12	1401	XX	X	4	1001		
MWS-1-1-230912	9-12	1021	XX		3	1001		
GW MW-009-230912	9-12	0944	XX		3	1001	MS/MSD	
GW MW-010-230912	9-12	1047	XX		3	1001		
GW MW-013-230912	9-12	1200	XX		3	1001		
GW MW-014-230912	9-12	0945	XX		3	1001		
GW MW-019R-230912	9-12	1435	XX		3	1001		
GW MW-020-230912	9-12	1400	X		3	1001		

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

RELINQUISHED BY:

SIGNATURE: *Mike Terris*

PRINT NAME: MIKE S TERRIS

COMPANY: SPOKANE COUNTY UTILITIES LANDFILL CLOSURE

DATE: 9-13-23

TIME: 1300

RECEIVED BY: TB

SIGNATURE:

PRINT NAME:

COMPANY:

DATE:

TIME:

9/14/23

9:55

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

2023

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

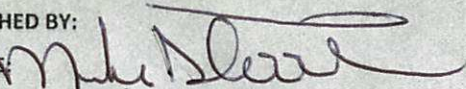
CLIENT:
SPOKANE COUNTY ENVIROMENTAL SERVICES
22515 N. ELK CHATTAROY RD.
COLBERT, WASHINGTON 99005
(509) 238-6607 FAX (509) 238-6812
MICA (509) 924-5223

SHIPPING CO: UPS
SHIPPING # K3090461403
OF COOLERS: 1

DATE: 9-13-2023
PAGE 2 OF 2

PARAMETERS:			VOLATILES	SEMI VOLATILES	SAMPLERS: Mike Terris Gordie Fisette Craig Campbell		
				BEHP			
			8260C	8270D			
			3-40 ml. VOA'S	1 LITER AMBER GLASS			
			ANATEK LAB	ANATEK LAB			
PRESERVATION:	2023		HCl pH<2	UNPRESERVED	NUMBER OF BOTTLES	COOLER NUMBER	COMMENTS
SAMPLE IDENTIFICATION	DATE	TIME					
GW MW-029-230912	9-12	1331	X		3	1001	
GW MW-031-230912	9-12	1015	X		3	1001	
GW MS-005-230913	9-13	0913	X		3	1001	
GW MW-023-230913	9-13	1053	X		3	1001	
GW MW-016-230913	9-13	1130	X		3	1001	
MWS-1-2-230913	9-13	1027	X		3	1001	
MWS-2-1-230913	9-13	—	X		2	1001	TRIP-BLANKS
X							

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

RELINQUISHED BY:
SIGNATURE: 
PRINT NAME: MIKE TERRIS
COMPANY: SPOKANE COUNTY UTILITIES LANDFILL CLOSURE
DATE: 9-13-2023
TIME: 1300

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



Anatek Labs, Inc.

Sample Receipt and Preservation Form

Client Name: Spokane County Enviro

TAT: Normal RUSH: _____ days

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

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

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

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

Cooler Temp As Read (°C): 4.4 °C Cooler Temp Corrected (°C): — Thermometer Used: IR-5

Samples Received Intact?	<u>Yes</u>	No	N/A
Chain of Custody Present/Complete?	<u>Yes</u>	No	N/A
Labels and Chains Agree?	<u>Yes</u>	No	N/A
Samples Received Within Hold Time?	<u>Yes</u>	No	N/A
Correct Containers Received?	<u>Yes</u>	No	N/A
Anatek Bottles Used?	<u>Yes</u>	<u>No</u>	Unknown
Total Number of Sample Bottles Received:	<u>60</u>		

Comments:

Samples Properly Preserved? Yes No N/A

If No, record preservation and pH-after details

VOC Vials Free of Headpace (<6mm)? Yes No N/A

VOC Trip Blanks Present? Yes No N/A

Initial pH:

pH Paper ID:

<2 or

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

61L SVOC 8270 D

644 HCL VOC 8260 x 57 + 2 TB

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

emailed SVL for autolog

Received/Inspected By: TB Date/Time: 9/14/23 9:55

Form F19.01 - Eff 1 Dec 2022

Page 1 of 1



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: **X3I0210**
Reported: 28-Sep-23 11:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GWMS-005-230913	X3I0210-01	Ground Water	13-Sep-23 09:13	MT/GF/C C	14-Sep-2023	
GWMW-023-230913	X3I0210-02	Ground Water	13-Sep-23 10:53	MT/GF/C C	14-Sep-2023	
GWMW-016-230913	X3I0210-03	Ground Water	13-Sep-23 11:30	MT/GF/C C	14-Sep-2023	
MWS-1-2-230913	X3I0210-04	Ground Water	13-Sep-23 10:27	MT/GF/C C	14-Sep-2023	

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

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

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

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

This report shall not be reproduced except in full, without the written approval of SVL Analytical, Inc.

**Spokane County Environmental Services (Colbert)**22515 N. Elk Chattaroy Road
Colbert, WA 99005Work Order: **X310210**
Reported: 28-Sep-23 11:13Client Sample ID: **GWMS-005-230913**SVL Sample ID: **X310210-01 (Ground Water)****Sample Report Page 1 of 1**Sampled: 13-Sep-23 09:13
Received: 14-Sep-23
Sampled By: MT/GF/CC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.000200	mg/L	0.000200	0.000093		X338142	NMS	09/25/23 12:16	
Metals (Total Recoverable)										
EPA 6010D	Barium	0.0430	mg/L	0.0040	0.0019		X338220	JRR	09/25/23 12:21	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X338220	JRR	09/25/23 12:21	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X338220	JRR	09/25/23 12:21	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X338220	JRR	09/25/23 12:21	
EPA 6010D	Zinc	< 0.0100	mg/L	0.0100	0.0054		X338220	JRR	09/25/23 12:21	
EPA 6020B	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X338218	SMU	09/26/23 11:27	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X338083	JRR	09/26/23 12:48	
SM 2320 B	Total Alkalinity	99.3	mg/L as CaCO ₃	1.0			X338022	MWD	09/18/23 11:41	
SM 2320 B	Bicarbonate	99.3	mg/L as CaCO ₃	1.0			X338022	MWD	09/18/23 11:41	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X338022	MWD	09/18/23 11:41	
SM 2540 C	Total Diss. Solids	237	mg/L	10			X338004	TJL	09/20/23 15:10	
SM 5310B	Total Organic Carbon	1.20	mg/L	1.00	0.38		X337270	KAG	09/19/23 17:39	
Anions by Ion Chromatography										
EPA 300.0	Chloride	20.5	mg/L	2.00	0.22	10	X337219	RS	09/15/23 11:13	D2
EPA 300.0	Nitrate as N	1.30	mg/L	0.050	0.013		X337219	RS	09/14/23 15:22	
EPA 300.0	Sulfate as SO₄	14.5	mg/L	0.30	0.18		X337219	RS	09/14/23 15:22	

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

Tawnya M. Hall
Project Manager Assistant

**Spokane County Environmental Services (Colbert)**22515 N. Elk Chattaroy Road
Colbert, WA 99005Work Order: **X310210**

Reported: 28-Sep-23 11:13

Client Sample ID: **GWMW-023-230913**

Sampled: 13-Sep-23 10:53

Received: 14-Sep-23

Sampled By: MT/GF/CC

SVL Sample ID: **X310210-02 (Ground Water)****Sample Report Page 1 of 1**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.000200	mg/L	0.000200	0.000093		X338142	NMS	09/25/23 12:18	
Metals (Total Recoverable)										
EPA 6010D	Barium	0.117	mg/L	0.0040	0.0019		X338220	JRR	09/25/23 12:25	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X338220	JRR	09/25/23 12:25	
EPA 6010D	Manganese	0.936	mg/L	0.0080	0.0034		X338220	JRR	09/25/23 12:25	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X338220	JRR	09/25/23 12:25	
EPA 6010D	Zinc	< 0.0100	mg/L	0.0100	0.0054		X338220	JRR	09/25/23 12:25	
EPA 6020B	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X338218	SMU	09/26/23 11:29	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X338083	JRR	09/26/23 12:50	
SM 2320 B	Total Alkalinity	313	mg/L as CaCO ₃	1.0			X338022	MWD	09/18/23 11:46	
SM 2320 B	Bicarbonate	313	mg/L as CaCO ₃	1.0			X338022	MWD	09/18/23 11:46	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X338022	MWD	09/18/23 11:46	
SM 2540 C	Total Diss. Solids	406	mg/L	10			X338004	TJL	09/20/23 15:10	
SM 5310B	Total Organic Carbon	2.09	mg/L	1.00	0.38		X337270	KAG	09/19/23 17:58	
Anions by Ion Chromatography										
EPA 300.0	Chloride	44.4	mg/L	2.00	0.22	10	X337219	RS	09/15/23 12:22	D2
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X337219	RS	09/14/23 16:43	
EPA 300.0	Sulfate as SO₄	8.58	mg/L	0.30	0.18		X337219	RS	09/14/23 16:43	

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

Tawnya M. Hall
Project Manager Assistant

**Spokane County Environmental Services (Colbert)**22515 N. Elk Chattaroy Road
Colbert, WA 99005Work Order: **X310210**

Reported: 28-Sep-23 11:13

Client Sample ID: **GWMW-016-230913**

Sampled: 13-Sep-23 11:30

Received: 14-Sep-23

Sampled By: MT/GF/CC

SVL Sample ID: **X310210-03 (Ground Water)****Sample Report Page 1 of 1**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.000200	mg/L	0.000200	0.000093		X338142	NMS	09/25/23 12:25	
Metals (Total Recoverable)										
EPA 6010D	Barium	0.627	mg/L	0.0040	0.0019		X338220	JRR	09/25/23 12:29	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X338220	JRR	09/25/23 12:29	
EPA 6010D	Manganese	0.562	mg/L	0.0080	0.0034		X338220	JRR	09/25/23 12:29	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X338220	JRR	09/25/23 12:29	
EPA 6010D	Zinc	< 0.0100	mg/L	0.0100	0.0054		X338220	JRR	09/25/23 12:29	
EPA 6020B	Arsenic	0.0616	mg/L	0.00100	0.00021		X338218	SMU	09/26/23 11:34	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	0.352	mg/L	0.030	0.013		X338083	JRR	09/26/23 12:52	
SM 2320 B	Total Alkalinity	1290	mg/L as CaCO ₃	1.0			X338022	MWD	09/18/23 11:52	
SM 2320 B	Bicarbonate	1290	mg/L as CaCO ₃	1.0			X338022	MWD	09/18/23 11:52	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X338022	MWD	09/18/23 11:52	
SM 2540 C	Total Diss. Solids	1680	mg/L	40			X338004	TJL	09/20/23 15:10	D2
SM 5310B	Total Organic Carbon	32.6	mg/L	1.00	0.38		X337270	KAG	09/22/23 08:28	
Anions by Ion Chromatography										
EPA 300.0	Chloride	166	mg/L	10.0	1.10	50	X337219	RS	09/15/23 12:39	D2
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X337219	RS	09/14/23 17:49	
EPA 300.0	Sulfate as SO₄	0.41	mg/L	0.30	0.18		X337219	RS	09/14/23 17:49	

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

Tawnya M. Hall
Project Manager Assistant

**Spokane County Environmental Services (Colbert)**22515 N. Elk Chattaroy Road
Colbert, WA 99005Work Order: **X310210**

Reported: 28-Sep-23 11:13

Client Sample ID: **MWS-1-2-230913**

Sampled: 13-Sep-23 10:27

Received: 14-Sep-23

Sampled By: MT/GF/CC

SVL Sample ID: **X310210-04 (Ground Water)****Sample Report Page 1 of 1**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.000200	mg/L	0.000200	0.000093		X338142	NMS	09/25/23 12:27	
Metals (Total Recoverable)										
EPA 6010D	Barium	0.112	mg/L	0.0040	0.0019		X338220	JRR	09/25/23 12:50	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X338220	JRR	09/25/23 12:50	
EPA 6010D	Manganese	0.891	mg/L	0.0080	0.0034		X338220	JRR	09/25/23 12:50	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X338220	JRR	09/25/23 12:50	
EPA 6010D	Zinc	< 0.0100	mg/L	0.0100	0.0054		X338220	JRR	09/25/23 12:50	
EPA 6020B	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X338218	SMU	09/26/23 11:35	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X338083	JRR	09/26/23 12:54	
SM 2320 B	Total Alkalinity	314	mg/L as CaCO3	1.0			X338022	MWD	09/18/23 12:07	
SM 2320 B	Bicarbonate	314	mg/L as CaCO3	1.0			X338022	MWD	09/18/23 12:07	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X338022	MWD	09/18/23 12:07	
SM 2540 C	Total Diss. Solids	439	mg/L	10			X338004	TJL	09/20/23 15:10	
SM 5310B	Total Organic Carbon	2.04	mg/L	1.00	0.38		X337270	KAG	09/19/23 19:13	
Anions by Ion Chromatography										
EPA 300.0	Chloride	44.0	mg/L	2.00	0.22	10	X337219	RS	09/15/23 12:56	D2
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X337219	RS	09/14/23 18:21	
EPA 300.0	Sulfate as SO4	8.58	mg/L	0.30	0.18		X337219	RS	09/14/23 18:21	

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

Tawnya M. Hall
Project Manager Assistant

**Spokane County Environmental Services (Colbert)**22515 N. Elk Chattaroy Road
Colbert, WA 99005Work Order: **X310210**
Reported: 28-Sep-23 11:13**Quality Control - BLANK Data**

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total)								
EPA 7470A	Mercury	mg/L	<0.000200	0.000093	0.000200	X338142	25-Sep-23	
Metals (Total Recoverable)								
EPA 6010D	Barium	mg/L	<0.0040	0.0019	0.0040	X338220	25-Sep-23	
EPA 6010D	Lead	mg/L	<0.0150	0.0049	0.0150	X338220	25-Sep-23	
EPA 6010D	Manganese	mg/L	<0.0080	0.0034	0.0080	X338220	25-Sep-23	
EPA 6010D	Vanadium	mg/L	<0.0050	0.0019	0.0050	X338220	25-Sep-23	
EPA 6010D	Zinc	mg/L	<0.0100	0.0054	0.0100	X338220	25-Sep-23	
EPA 6020B	Arsenic	mg/L	<0.00100	0.00021	0.00100	X338218	26-Sep-23	
Classical Chemistry Parameters								
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X338083	26-Sep-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	<1.0		1.0	X338022	18-Sep-23	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	<1.0		1.0	X338022	18-Sep-23	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0		1.0	X338022	18-Sep-23	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X338004	20-Sep-23	
SM 5310B	Total Organic Carbon	mg/L	<1.00	0.38	1.00	X337270	19-Sep-23	
SM 5310B	Total Organic Carbon	mg/L	<1.00	0.38	1.00	X337270	19-Sep-23	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X337219	15-Sep-23	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X337219	14-Sep-23	
EPA 300.0	Sulfate as SO ₄	mg/L	<0.30	0.18	0.30	X337219	14-Sep-23	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)									
EPA 7470A	Mercury	mg/L	0.00205	0.00200	102	80 - 120	X338142	25-Sep-23	
Metals (Total Recoverable)									
EPA 6010D	Barium	mg/L	1.00	1.00	100	80 - 120	X338220	25-Sep-23	
EPA 6010D	Lead	mg/L	1.01	1.00	101	80 - 120	X338220	25-Sep-23	
EPA 6010D	Manganese	mg/L	1.01	1.00	101	80 - 120	X338220	25-Sep-23	
EPA 6010D	Vanadium	mg/L	1.02	1.00	102	80 - 120	X338220	25-Sep-23	
EPA 6010D	Zinc	mg/L	1.01	1.00	101	80 - 120	X338220	25-Sep-23	
EPA 6020B	Arsenic	mg/L	0.0246	0.0250	98.6	80 - 120	X338218	26-Sep-23	
Classical Chemistry Parameters									
EPA 350.1	Ammonia as N	mg/L	0.926	1.00	92.6	90 - 110	X338083	26-Sep-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	10.2	9.93	103	96.4 - 105	X338022	18-Sep-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	101	99.3	102	96.4 - 105	X338022	18-Sep-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	395	397	99.5	96.4 - 105	X338022	18-Sep-23	
SM 5310B	Total Organic Carbon	mg/L	34.1	34.3	99.5	90 - 110	X337270	19-Sep-23	
SM 5310B	Total Organic Carbon	mg/L	34.0	34.3	99.2	90 - 110	X337270	19-Sep-23	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.04	3.00	101	90 - 110	X337219	14-Sep-23	
EPA 300.0	Chloride	mg/L	3.05	3.00	102	90 - 110	X337219	15-Sep-23	
EPA 300.0	Nitrate as N	mg/L	1.99	2.00	99.7	90 - 110	X337219	14-Sep-23	
EPA 300.0	Sulfate as SO ₄	mg/L	10.4	10.0	104	90 - 110	X337219	14-Sep-23	

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 6 of 9

**Spokane County Environmental Services (Colbert)**22515 N. Elk Chattaroy Road
Colbert, WA 99005Work Order: **X310210**

Reported: 28-Sep-23 11:13

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	313	313	0.0	20	X338022 - X310210-02	18-Sep-23	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	313	313	0.0	20	X338022 - X310210-02	18-Sep-23	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X338022 - X310210-02	18-Sep-23	
SM 2540 C	Total Diss. Solids	mg/L	322	318	1.3	10	X338004 - X310243-02	20-Sep-23	
SM 2540 C	Total Diss. Solids	mg/L	396	406	2.5	10	X338004 - X310210-02	20-Sep-23	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	mg/L	0.00203	<0.000200	0.00200	101	80 - 120	X338142 - X310210-01	25-Sep-23	
Metals (Total Recoverable)										
EPA 6010D	Barium	mg/L	1.14	0.142	1.00	100	75 - 125	X338220 - X310178-06	25-Sep-23	
EPA 6010D	Lead	mg/L	0.981	<0.0150	1.00	98.1	75 - 125	X338220 - X310178-06	25-Sep-23	
EPA 6010D	Manganese	mg/L	1.63	0.610	1.00	102	75 - 125	X338220 - X310178-06	25-Sep-23	
EPA 6010D	Vanadium	mg/L	1.03	<0.0050	1.00	102	75 - 125	X338220 - X310178-06	25-Sep-23	
EPA 6010D	Zinc	mg/L	0.984	<0.0100	1.00	98.4	75 - 125	X338220 - X310178-06	25-Sep-23	
EPA 6020B	Arsenic	mg/L	0.0225	<0.00100	0.0250	87.9	75 - 125	X338218 - X310178-06	26-Sep-23	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	mg/L	0.970	<0.030	1.00	97.0	90 - 110	X338083 - X310177-02	26-Sep-23	
EPA 350.1	Ammonia as N	mg/L	1.04	<0.030	1.00	102	90 - 110	X338083 - X310175-01	26-Sep-23	
SM 5310B	Total Organic Carbon	mg/L	10.4	<1.00	10.0	99.5	80 - 120	X337270 - X310187-10	19-Sep-23	
SM 5310B	Total Organic Carbon	mg/L	10.2	<1.00	10.0	97.8	80 - 120	X337270 - X310242-04	19-Sep-23	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.52	0.42	3.00	103	90 - 110	X337219 - X310223-01	15-Sep-23	
EPA 300.0	Nitrate as N	mg/L	1.98	<0.050	2.00	99.1	90 - 110	X337219 - X310223-01	14-Sep-23	
EPA 300.0	Sulfate as SO ₄	mg/L	27.6	17.5	10.0	101	90 - 110	X337219 - X310223-01	14-Sep-23	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total)										
EPA 7470A	Mercury	mg/L	0.00236	0.00203	0.00200	15.2	20	118	X338142 - X310210-01	
Metals (Total Recoverable)										
EPA 6010D	Barium	mg/L	1.11	1.14	1.00	2.9	20	97.0	X338220 - X310178-06	
EPA 6010D	Lead	mg/L	0.969	0.981	1.00	1.2	20	96.9	X338220 - X310178-06	
EPA 6010D	Manganese	mg/L	1.59	1.63	1.00	2.4	20	97.8	X338220 - X310178-06	
EPA 6010D	Vanadium	mg/L	1.01	1.03	1.00	1.6	20	100	X338220 - X310178-06	
EPA 6010D	Zinc	mg/L	0.965	0.984	1.00	2.0	20	96.5	X338220 - X310178-06	
EPA 6020B	Arsenic	mg/L	0.0245	0.0225	0.0250	8.6	20	96.0	X338218 - X310178-06	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	mg/L	0.948	0.970	1.00	2.3	20	94.8	X338083 - X310177-02	



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: **X310210**
Reported: 28-Sep-23 11:13

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

Classical Chemistry Parameters (Continued)

SM 5310B	Total Organic Carbon	mg/L	10.5	10.4	10.0	0.8	20	100	X337270 - X310187-10	
SM 5310B	Total Organic Carbon	mg/L	11.3	10.2	10.0	10.5	20	109	X337270 - X310242-04	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.64	3.52	3.00	3.4	20	107	X337219 - X310223-01	
EPA 300.0	Nitrate as N	mg/L	2.04	1.98	2.00	3.1	20	102	X337219 - X310223-01	
EPA 300.0	Sulfate as SO4	mg/L	28.0	27.6	10.0	1.4	20	105	X337219 - X310223-01	



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: **X310210**

Reported: 28-Sep-23 11:13

Notes and Definitions

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

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

Work Order: **X310210**
Spokane County Environmental Services (

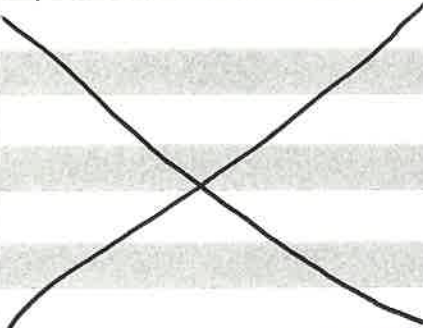


LABORATORY: 
SVL ANALYTICAL
ONE GOVERNMENT GULCH
KELLOGG, ID 83837-0929
(208) 784-1258 FAX (208) 783-0891
ATTENTION: Sample Receiving

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

SHIPPING CO: **UPS**
SHIPPING #: **K309046387**
NUMBER OF COOLERS: **1**

DATE: **9-10-2023**
PAGE **1** OF **1**

PARAMETERS:				MONITORING					RESIDENTIAL		SAMPLERS:		
				TOC	AMMONIA	Cl / SO4 / TDS NO3 / ALKALINITY	Cl / SO4 / NO3 ALKALINITY	METALS (As / Ba / Pb / Hg Mn / V / Zn)	MikeTerris				
				415.1	350.1	300.0/300.0/160.1 300.0 / 2320 B	300.0/300.0/ 300.0 2320B	7060A / 6010B / 7470A	Gordie Fissette				
				1-40 ml. VOC	1-500 ml POLY BOTTLE	1-500 ml POLY BOTTLE	1-500 ml. POLY BOTTLE	1-500 ml. POLY BOTLE	Craig Campbell				
				SVL HCL pH < 2	SVL H2SO4 pH < 2	SVL UNPRESERVED	SVL UNPRESERVED	SVL HN03 Ph< 2 (NOT FILTERED)	COOLER NUMBER	NUMBER BOTTLES	COMMENTS		
SAMPLE IDENTIFICATION		DATE	TIME										
GWMS-005-230913		9-13	0913	X	X	X		X	13	4			
GWMW-003-230913		9-13	1053	X	X	X		X	13	4			
GWMW-016-230913		9-13	1130	X	X	X		X	13	4			
MWS-1-2-230913		9-13	1027	X	X	X		X	13	4			
													

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

RELINQUISHED BY
SIGNATURE: 
PRINT NAME: **MIKE S. TERRIS**
COMPANY: SPOKANE COUNTY UTILITIES LANDFILL CLOSURE

DATE: **9-13-23**
TIME: **1300**

RECEIVED BY 
SIGNATURE:
PRINT NAME: **Melissa DiGiovanni**
COMPANY: **SVL**

DATE: **9/14/23**
TIME: **1030**

SAMPLE RECEIPT/CHAIN-OF-CUSTODY CHECKLIST

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

Date of acceptance: 9/14/23

By: Melissa D

SVL Work No: X3I0210

Item	Description	V	NA	Comments
1	Client or project name	✓		Spokane County Env. SVS
2	Date and time of receipt at lab	✓		9/14/23 1030
3	Received by	✓		mmD
4	Temperature blank or cooler temperature	✓		Temp. 1.6 °C T098/T126
5	Were the sample(s) received on ice	✓		
6	Custody tape/bottle seals	✓		
7	Shipper's air bill	✓		K309 046 1387 UPS
8	Condition of samples upon receipt (leaking; bubbles in VOA vials)	✓		
9	Analysis requested for each sample	✓		
10	Sample matrix description	✓		
11	The correct preservative for the analysis requested	✓		
12	Did an SVL employee preserve sample(s) upon receipt		✓	
13	Additional Information		✓	

V- Verified NA- Not Applicable

Comments:

APPENDIX B - DATA SUMMARY ANALYSIS

StationID	Analyte	Count	Average	Min	Max	StDev	# Detects	# NonDetects	# Exceedances
DW-001	1,2-Dichloroethane	104	0.00	0	0	0.00	0	104	0
DW-001	1,2-Dichloropropane	104	0.00	0	0	0.00	0	104	0
DW-001	Acetone	104	0.00	0	0	0.00	0	104	0
DW-001	Alkalinity	104	148.71	109	189	10.44	104	0	0
DW-001	Ammonia	103	0.01	0	0.27	0.03	18	85	0
DW-001	Arsenic	104	0.00	0	0.0036	0.00	35	69	0
DW-001	Barium	105	0.01	0	0.0432	0.01	100	5	0
DW-001	Benzene	104	0.00	0	0	0.00	0	104	0
DW-001	bis(2-Ethylhexyl)Phthalate	56	1.65	0	17	4.27	14	42	6
DW-001	Chloride	105	3.13	0	17	3.56	103	2	0
DW-001	cis-1,2-dichloroethene	101	0.00	0	0	0.00	0	101	0
DW-001	Ethylbenzene	95	0.00	0	0	0.00	0	95	0
DW-001	Lead	104	0.00	0	0.034	0.00	20	84	0
DW-001	m,p-Xylene	65	0.00	0	0	0.00	0	65	0
DW-001	Manganese	105	0.01	0	0.068	0.01	89	16	0
DW-001	Mercury	102	0.00	0	0	0.00	0	102	0
DW-001	Methylene Chloride	104	0.00	0	0	0.00	0	104	0
DW-001	N-Nitrate	105	0.07	0	0.496	0.09	77	28	0
DW-001	o-Xylene	92	0.00	0	0	0.00	0	92	0
DW-001	Sulfate	74	8.69	0	11.8	1.62	73	1	0
DW-001	Tetrachloroethene	104	0.00	0	0	0.00	0	104	0
DW-001	Toluene	104	0.00	0	0	0.00	0	104	0
DW-001	Total Dissolved Solids	2	189.00	188	190	1.41	2	0	0
DW-001	Total Organic Carbon	103	0.53	0	6.1	1.07	31	72	0
DW-001	Trichloroethene	104	0.00	0	0	0.00	0	104	0
DW-001	Vanadium	103	0.00	0	0.0058	0.00	1	102	0
DW-001	Vinyl Chloride	104	0.00	0	0	0.00	0	104	0
DW-001	Xylene	30	0.00	0	0	0.00	0	30	0
DW-001	Zinc	108	0.77	0.0465	7.18	1.06	108	0	0
DW-002	1,2-Dichloroethane	105	0.00	0	0	0.00	0	105	0
DW-002	1,2-Dichloropropane	105	0.00	0	0	0.00	0	105	0
DW-002	Acetone	106	0.05	0	5.63	0.55	1	105	0
DW-002	Alkalinity	121	155.26	144	180	5.95	121	0	0
DW-002	Ammonia	109	0.01	0	0.28	0.03	19	90	0
DW-002	Arsenic	105	0.00	0	0	0.00	0	105	0
DW-002	Barium	133	0.04	0	0.044	0.00	132	1	0
DW-002	Benzene	105	0.00	0	0	0.00	0	105	0
DW-002	bis(2-Ethylhexyl)Phthalate	37	0.11	0	1.7	0.40	3	34	0
DW-002	Chloride	123	9.55	4.93	14.6	1.98	123	0	0
DW-002	cis-1,2-dichloroethene	102	0.00	0	0	0.00	0	102	0
DW-002	Ethylbenzene	96	0.00	0	0	0.00	0	96	0
DW-002	Lead	106	0.00	0	0.023	0.00	4	102	0
DW-002	m,p-Xylene	67	0.00	0	0.15	0.02	1	66	0
DW-002	Manganese	112	0.00	0	0.0328	0.01	54	58	0
DW-002	Mercury	105	0.00	0	0	0.00	0	105	0
DW-002	Methylene Chloride	106	0.00	0	0.12	0.01	1	105	0
DW-002	N-Nitrate	123	1.33	0.721	2.32	0.26	123	0	0
DW-002	o-Xylene	93	0.00	0	0	0.00	0	93	0
DW-002	Sulfate	98	5.56	0	8.1	0.87	97	1	0
DW-002	Tetrachloroethene	105	0.00	0	0	0.00	0	105	0
DW-002	Toluene	105	0.06	0	5.24	0.51	2	103	0
DW-002	Total Dissolved Solids	4	211.00	200	220	8.41	4	0	0

StationID	Analyte	Count	Average	Min	Max	StDev	# Detects	# NonDetects	# Exceedances
DW-002	Total Organic Carbon	115	0.56	0	13.1	1.40	39	76	0
DW-002	Trichloroethene	105	0.00	0	0	0.00	0	105	0
DW-002	Vanadium	105	0.00	0	0.0054	0.00	1	104	0
DW-002	Vinyl Chloride	105	0.00	0	0	0.00	0	105	0
DW-002	Xylene	30	0.00	0	0	0.00	0	30	0
DW-002	Zinc	122	0.10	0	1.2	0.22	83	39	0
DW-003	1,2-Dichloroethane	107	0.00	0	0	0.00	0	107	0
DW-003	1,2-Dichloropropane	107	0.00	0	0	0.00	0	107	0
DW-003	Acetone	107	0.00	0	0	0.00	0	107	0
DW-003	Alkalinity	113	184.27	167	207	6.53	113	0	0
DW-003	Ammonia	107	0.03	0	1.94	0.19	22	85	0
DW-003	Arsenic	104	0.00	0	0	0.00	0	104	0
DW-003	Barium	114	0.03	0	0.0321	0.00	113	1	0
DW-003	Benzene	107	0.00	0	0	0.00	0	107	0
DW-003	bis(2-Ethylhexyl)Phthalate	37	0.32	0	8.2	1.41	3	34	1
DW-003	Chloride	112	1.00	0	22	2.09	97	15	0
DW-003	cis-1,2-dichloroethene	104	0.00	0	0	0.00	0	104	0
DW-003	Ethylbenzene	98	0.00	0	0	0.00	0	98	0
DW-003	Lead	105	0.00	0	0.007	0.00	32	73	0
DW-003	m,p-Xylene	67	0.00	0	0	0.00	0	67	0
DW-003	Manganese	106	0.00	0	0.0024	0.00	6	100	0
DW-003	Mercury	104	0.00	0	0	0.00	0	104	0
DW-003	Methylene Chloride	107	0.00	0	0.3	0.03	1	106	0
DW-003	N-Nitrate	112	1.02	0	7.4	1.14	111	1	0
DW-003	o-Xylene	95	0.00	0	0	0.00	0	95	0
DW-003	Sulfate	82	0.84	0	2.38	0.55	76	6	0
DW-003	Tetrachloroethene	107	0.00	0	0	0.00	0	107	0
DW-003	Toluene	107	0.00	0	0	0.00	0	107	0
DW-003	Total Dissolved Solids	4	220.25	200	251	22.07	4	0	0
DW-003	Total Organic Carbon	105	0.22	0	3.3	0.62	15	90	0
DW-003	Trichloroethene	107	0.00	0	0	0.00	0	107	0
DW-003	Vanadium	104	0.00	0	0.002	0.00	2	102	0
DW-003	Vinyl Chloride	107	0.00	0	0	0.00	0	107	0
DW-003	Xylene	31	0.00	0	0	0.00	0	31	0
DW-003	Zinc	116	0.23	0.0426	0.774	0.13	116	0	0
MS-004	1,2-Dichloroethane	105	0.00	0	0	0.00	0	105	0
MS-004	1,2-Dichloropropane	105	0.00	0	0	0.00	0	105	0
MS-004	Acetone	105	0.00	0	0	0.00	0	105	0
MS-004	Alkalinity	74	85.66	47	185	33.44	74	0	0
MS-004	Ammonia	104	0.07	0	3.41	0.38	23	81	0
MS-004	Arsenic	104	0.00	0	0.006	0.00	3	101	0
MS-004	Barium	104	0.05	0	0.114	0.02	103	1	0
MS-004	Benzene	105	0.00	0	0	0.00	0	105	0
MS-004	bis(2-Ethylhexyl)Phthalate	54	1.03	0	11.1	2.08	17	37	2
MS-004	Chloride	73	0.96	0	23	2.83	53	20	0
MS-004	cis-1,2-dichloroethene	102	0.00	0	0	0.00	0	102	0
MS-004	Ethylbenzene	96	0.00	0	0	0.00	0	96	0
MS-004	Lead	104	0.00	0	0.028	0.00	12	92	0
MS-004	m,p-Xylene	66	0.00	0	0	0.00	0	66	0
MS-004	Manganese	104	0.02	0	0.234	0.04	80	24	0
MS-004	Mercury	104	0.00	0	0.00115	0.00	1	103	0
MS-004	Methylene Chloride	105	0.00	0	0	0.00	0	105	0

StationID	Analyte	Count	Average	Min	Max	StDev	# Detects	# NonDetects	# Exceedances
MS-004	N-Nitrate	74	4.85	0.911	10.7	2.27	74	0	0
MS-004	o-Xylene	93	0.00	0	0	0.00	0	93	0
MS-004	Sulfate	73	10.72	4.1	20	2.45	73	0	0
MS-004	Tetrachloroethene	105	0.00	0	0	0.00	0	105	0
MS-004	Toluene	105	0.00	0	0	0.00	0	105	0
MS-004	Total Dissolved Solids	72	169.22	78	296	42.02	72	0	0
MS-004	Total Organic Carbon	104	1.13	0	3.7	0.93	73	31	0
MS-004	Trichloroethene	105	0.00	0	0	0.00	0	105	0
MS-004	Vanadium	104	0.00	0	0.004	0.00	5	99	0
MS-004	Vinyl Chloride	105	0.00	0	0	0.00	0	105	0
MS-004	Xylene	30	0.00	0	0	0.00	0	30	0
MS-004	Zinc	104	0.00	0	0.217	0.02	17	87	0
MS-005	1,2-Dichloroethane	105	0.00	0	0	0.00	0	105	0
MS-005	1,2-Dichloropropane	106	0.00	0	0.2	0.02	3	103	0
MS-005	Acetone	105	0.03	0	3.4	0.33	1	104	0
MS-005	Alkalinity	91	136.93	99.3	176	23.50	91	0	0
MS-005	Ammonia	119	0.01	0	0.526	0.05	23	96	0
MS-005	Arsenic	106	0.00	0	0.0012	0.00	2	104	0
MS-005	Barium	130	0.09	0.0422	0.121	0.02	130	0	0
MS-005	Benzene	105	0.00	0	0	0.00	0	105	0
MS-005	bis(2-Ethylhexyl)Phthalate	43	0.39	0	7.3	1.37	5	38	1
MS-005	Chloride	97	43.94	3	86.5	21.25	97	0	0
MS-005	cis-1,2-dichloroethene	104	0.12	0	0.6	0.20	31	73	0
MS-005	Ethylbenzene	96	0.00	0	0	0.00	0	96	0
MS-005	Lead	106	0.00	0	0	0.00	0	106	0
MS-005	m,p-Xylene	66	0.00	0	0	0.00	0	66	0
MS-005	Manganese	116	0.00	0	0.0229	0.00	25	91	0
MS-005	Mercury	106	0.00	0	0	0.00	0	106	0
MS-005	Methylene Chloride	110	0.26	0	1.4	0.43	34	76	0
MS-005	N-Nitrate	91	5.05	0.85	17.1	3.54	91	0	0
MS-005	o-Xylene	93	0.00	0	0	0.00	0	93	0
MS-005	Sulfate	87	27.76	9.8	61.1	13.61	87	0	0
MS-005	Tetrachloroethene	109	0.16	0	0.9	0.24	39	70	1
MS-005	Toluene	105	0.00	0	0	0.00	0	105	0
MS-005	Total Dissolved Solids	94	364.07	103	1000	112.56	94	0	0
MS-005	Total Organic Carbon	136	1.79	0	12.2	1.46	114	22	0
MS-005	Trichloroethene	109	0.41	0	1.6	0.52	46	63	0
MS-005	Vanadium	108	0.00	0	0.0052	0.00	17	91	0
MS-005	Vinyl Chloride	105	0.00	0	0	0.00	0	105	0
MS-005	Xylene	30	0.00	0	0	0.00	0	30	0
MS-005	Zinc	106	0.00	0	0.153	0.02	13	93	0
MS-007	Alkalinity	31	379.77	265	1200	164.79	31	0	0
MS-007	Ammonia	37	1.23	0.5	1.8	0.37	37	0	0
MS-007	Arsenic	31	0.02	0	0.0385	0.01	30	1	0
MS-007	Barium	31	0.14	0.111	0.208	0.02	31	0	0
MS-007	Chloride	37	10.43	3.2	21	5.27	37	0	0
MS-007	Manganese	37	7.73	6.2	10.7	1.04	37	0	0
MS-007	Sulfate	31	2.19	0	7.5	2.54	17	14	0
MS-007	Total Dissolved Solids	31	388.55	280	616	71.27	31	0	0
MS-007	Total Organic Carbon	37	8.50	0	24.3	3.97	35	2	0
MS-007	Vanadium	2	0.00	0	0	0.00	0	2	0
MS-007	Zinc	31	0.00	0	0.018	0.01	9	22	0

StationID	Analyte	Count	Average	Min	Max	StDev	# Detects	# NonDetects	# Exceedances
MW-009	1,2-Dichloroethane	105	0.02	0	2	0.20	1	104	1
MW-009	1,2-Dichloropropane	105	0.00	0	0	0.00	0	105	0
MW-009	Acetone	105	0.25	0	26.5	2.59	1	104	0
MW-009	Alkalinity	87	265.23	191	440	50.50	87	0	0
MW-009	Ammonia	110	0.01	0	0.64	0.06	25	85	0
MW-009	Arsenic	105	0.00	0	0.0015	0.00	2	103	0
MW-009	Barium	130	0.12	0.079	0.195	0.03	130	0	0
MW-009	Benzene	105	0.02	0	2.1	0.20	1	104	1
MW-009	bis(2-Ethylhexyl)Phthalate	41	0.04	0	0.85	0.17	2	39	0
MW-009	Chloride	96	50.26	8.44	160	40.66	96	0	0
MW-009	cis-1,2-dichloroethene	102	0.08	0	2.6	0.29	17	85	0
MW-009	Ethylbenzene	96	0.02	0	1.9	0.19	1	95	0
MW-009	Lead	104	0.00	0	0.0079	0.00	5	99	0
MW-009	m,p-Xylene	66	0.00	0	0	0.00	0	66	0
MW-009	Manganese	131	0.72	0.139	1.87	0.39	131	0	0
MW-009	Mercury	105	0.00	0	0.00014	0.00	4	101	0
MW-009	Methylene Chloride	107	0.01	0	1	0.10	3	104	0
MW-009	N-Nitrate	86	0.07	0	0.92	0.16	45	41	0
MW-009	o-Xylene	93	0.02	0	2	0.21	1	92	0
MW-009	Sulfate	90	10.46	2	35.5	8.33	90	0	0
MW-009	Tetrachloroethene	105	0.00	0	0	0.00	0	105	0
MW-009	Toluene	105	0.02	0	2	0.20	1	104	0
MW-009	Total Dissolved Solids	97	380.07	207	680	126.22	97	0	0
MW-009	Total Organic Carbon	132	4.09	0	153	13.13	127	5	0
MW-009	Trichloroethene	105	0.03	0	2.2	0.22	4	101	0
MW-009	Vanadium	107	0.00	0	0.0053	0.00	8	99	0
MW-009	Vinyl Chloride	105	0.02	0	1.8	0.18	2	103	2
MW-009	Xylene	30	0.00	0	0	0.00	0	30	0
MW-009	Zinc	109	0.00	0	0.0214	0.00	9	100	0
MW-010	1,2-Dichloroethane	105	0.00	0	0	0.00	0	105	0
MW-010	1,2-Dichloropropane	105	0.00	0	0	0.00	0	105	0
MW-010	Acetone	105	0.03	0	2.8	0.27	1	104	0
MW-010	Alkalinity	78	83.80	62	100	6.08	78	0	0
MW-010	Ammonia	106	0.01	0	0.86	0.09	16	90	0
MW-010	Arsenic	103	0.00	0	0	0.00	0	103	0
MW-010	Barium	109	0.04	0.0188	0.0489	0.00	109	0	0
MW-010	Benzene	105	0.00	0	0.2	0.02	1	104	0
MW-010	bis(2-Ethylhexyl)Phthalate	13	0.00	0	0	0.00	0	13	0
MW-010	Chloride	75	0.57	0	5.8	0.85	54	21	0
MW-010	cis-1,2-dichloroethene	102	0.00	0	0.5	0.05	1	101	0
MW-010	Ethylbenzene	96	0.00	0	0	0.00	0	96	0
MW-010	Lead	105	0.00	0	0.002	0.00	2	103	0
MW-010	m,p-Xylene	66	0.00	0	0	0.00	0	66	0
MW-010	Manganese	103	0.00	0	0.003	0.00	6	97	0
MW-010	Mercury	103	0.00	0	0	0.00	0	103	0
MW-010	Methylene Chloride	105	0.00	0	0	0.00	0	105	0
MW-010	N-Nitrate	75	0.24	0.028	0.365	0.04	75	0	0
MW-010	o-Xylene	94	0.01	0	0.4	0.05	2	92	0
MW-010	Sulfate	74	0.89	0	5.2	1.07	53	21	0
MW-010	Tetrachloroethene	105	0.00	0	0	0.00	0	105	0
MW-010	Toluene	106	0.02	0	0.9	0.10	3	103	0
MW-010	Total Dissolved Solids	79	113.52	69	160	14.16	79	0	0

StationID	Analyte	Count	Average	Min	Max	StDev	# Detects	# NonDetects	# Exceedances
MW-010	Total Organic Carbon	103	0.13	0	2.8	0.50	8	95	0
MW-010	Trichloroethene	105	0.00	0	0	0.00	0	105	0
MW-010	Vanadium	103	0.00	0	0	0.00	0	103	0
MW-010	Vinyl Chloride	105	0.00	0	0	0.00	0	105	0
MW-010	Xylene	31	0.06	0	1	0.23	2	29	0
MW-010	Zinc	106	0.00	0	0.007	0.00	8	98	0
MW-011	Alkalinity	28	2184.29	1100	4400	792.26	28	0	0
MW-011	Ammonia	34	192.08	51	480	104.94	34	0	0
MW-011	Arsenic	27	0.02	0	0.046	0.01	26	1	0
MW-011	Barium	28	2.66	1.14	4.8	1.04	28	0	0
MW-011	Chloride	34	6209.12	620	12300	2779.12	34	0	0
MW-011	Manganese	34	17.96	1.09	68	17.18	34	0	0
MW-011	Sulfate	27	34.60	0	300	66.19	22	5	0
MW-011	Total Dissolved Solids	28	14513.93	2500	26000	5852.09	28	0	0
MW-011	Total Organic Carbon	34	1284.18	110	6900	1499.33	34	0	0
MW-011	Zinc	28	0.27	0	6.7	1.26	17	11	0
MW-012	Alkalinity	9	140.89	110	170	25.93	9	0	0
MW-012	Ammonia	9	0.02	0	0.084	0.03	3	6	0
MW-012	Arsenic	9	0.00	0	0	0.00	0	9	0
MW-012	Barium	9	0.04	0.0292	0.05	0.01	9	0	0
MW-012	Chloride	9	5.32	4	6.8	0.87	9	0	0
MW-012	Lead	9	0.00	0	0.001	0.00	1	8	0
MW-012	Manganese	9	0.00	0	0.025	0.01	5	4	0
MW-012	Mercury	9	0.00	0	0	0.00	0	9	0
MW-012	N-Nitrate	9	0.71	0.247	1.1	0.24	9	0	0
MW-012	Sulfate	9	10.63	6.3	17	3.53	9	0	0
MW-012	Total Dissolved Solids	9	256.33	167	370	58.66	9	0	0
MW-012	Total Organic Carbon	9	3.35	0	6.4	1.87	8	1	0
MW-012	Vanadium	9	0.00	0	0.003	0.00	1	8	0
MW-012	Zinc	9	0.00	0	0.016	0.01	4	5	0
MW-013	1,2-Dichloroethane	59	0.00	0	0	0.00	0	59	0
MW-013	1,2-Dichloropropane	59	0.00	0	0	0.00	0	59	0
MW-013	Acetone	60	0.34	0	8	1.36	4	56	0
MW-013	Alkalinity	55	192.85	44.6	228	33.56	55	0	0
MW-013	Ammonia	52	0.01	0	0.158	0.02	6	46	0
MW-013	Arsenic	52	0.00	0	0.007	0.00	3	49	0
MW-013	Barium	54	0.06	0.04	0.141	0.02	54	0	0
MW-013	Benzene	59	0.01	0	0.63	0.08	1	58	0
MW-013	bis(2-Ethylhexyl)Phthalate	13	0.00	0	0	0.00	0	13	0
MW-013	Chloride	53	9.76	1.3	14	3.27	53	0	0
MW-013	cis-1,2-dichloroethene	57	0.01	0	0.2	0.04	3	54	0
MW-013	Ethylbenzene	54	0.00	0	0	0.00	0	54	0
MW-013	Lead	52	0.00	0	0.039	0.01	8	44	0
MW-013	m,p-Xylene	39	0.00	0	0	0.00	0	39	0
MW-013	Manganese	52	0.01	0	0.061	0.01	15	37	0
MW-013	Mercury	52	0.00	0	0	0.00	0	52	0
MW-013	Methylene Chloride	59	0.69	0	2.6	0.97	21	38	0
MW-013	N-Nitrate	53	1.90	0.197	6.58	1.73	53	0	0
MW-013	o-Xylene	52	0.00	0	0	0.00	0	52	0
MW-013	Sulfate	53	5.67	0	10.4	1.86	52	1	0
MW-013	Tetrachloroethene	60	0.59	0	1.6	0.47	40	20	21
MW-013	Toluene	60	0.02	0	0.7	0.10	3	57	0

StationID	Analyte	Count	Average	Min	Max	StDev	# Detects	# NonDetects	# Exceedances
MW-013	Total Dissolved Solids	53	254.83	121	327	41.99	53	0	0
MW-013	Total Organic Carbon	53	1.32	0	4.7	0.96	42	11	0
MW-013	Trichloroethene	59	0.17	0	0.7	0.25	21	38	0
MW-013	Vanadium	52	0.00	0	0	0.00	0	52	0
MW-013	Vinyl Chloride	59	0.00	0	0	0.00	0	59	0
MW-013	Xylene	15	0.00	0	0	0.00	0	15	0
MW-013	Zinc	52	0.00	0	0.08	0.01	11	41	0
MW-014	1,2-Dichloroethane	105	0.00	0	0	0.00	0	105	0
MW-014	1,2-Dichloropropane	105	0.00	0	0	0.00	0	105	0
MW-014	Acetone	105	0.00	0	0	0.00	0	105	0
MW-014	Alkalinity	76	76.23	62	85.2	3.36	76	0	0
MW-014	Ammonia	112	0.01	0	0.58	0.06	23	89	0
MW-014	Arsenic	106	0.00	0	0.006	0.00	10	96	0
MW-014	Barium	105	0.00	0	0.052	0.01	7	98	0
MW-014	Benzene	105	0.01	0	0.7	0.07	2	103	0
MW-014	bis(2-Ethylhexyl)Phthalate	13	0.14	0	1.8	0.50	1	12	0
MW-014	Chloride	81	1.04	0	7.1	1.08	68	13	0
MW-014	cis-1,2-dichloroethene	102	0.00	0	0	0.00	0	102	0
MW-014	Ethylbenzene	96	0.01	0	0.5	0.05	1	95	0
MW-014	Lead	105	0.00	0	0.0127	0.00	9	96	0
MW-014	m,p-Xylene	66	0.00	0	0	0.00	0	66	0
MW-014	Manganese	112	0.20	0.0505	1.78	0.23	112	0	0
MW-014	Mercury	105	0.00	0	0.0002	0.00	1	104	0
MW-014	Methylene Chloride	105	0.00	0	0	0.00	0	105	0
MW-014	N-Nitrate	74	0.00	0	0.059	0.01	12	62	0
MW-014	o-Xylene	93	0.02	0	1.5	0.16	2	91	0
MW-014	Sulfate	75	9.26	5.2	13	1.21	75	0	0
MW-014	Tetrachloroethene	105	0.00	0	0	0.00	0	105	0
MW-014	Toluene	105	0.03	0	1.6	0.21	3	102	0
MW-014	Total Dissolved Solids	74	121.81	72	166	16.18	74	0	0
MW-014	Total Organic Carbon	112	0.21	0	3.5	0.60	15	97	0
MW-014	Trichloroethene	105	0.00	0	0	0.00	0	105	0
MW-014	Vanadium	105	0.00	0	0.00115	0.00	1	104	0
MW-014	Vinyl Chloride	105	0.00	0	0	0.00	0	105	0
MW-014	Xylene	30	0.12	0	2.9	0.54	2	28	0
MW-014	Zinc	106	0.00	0	0.156	0.02	14	92	0
MW-015	1,2-Dichloroethane	27	0.00	0	0	0.00	0	27	0
MW-015	1,2-Dichloropropane	27	0.00	0	0	0.00	0	27	0
MW-015	Acetone	27	0.07	0	1.8	0.35	1	26	0
MW-015	Alkalinity	27	16.83	6.6	39	6.35	27	0	0
MW-015	Ammonia	27	0.03	0	0.56	0.11	9	18	0
MW-015	Arsenic	27	0.00	0	0	0.00	0	27	0
MW-015	Barium	27	0.01	0	0.015	0.00	24	3	0
MW-015	Benzene	27	0.05	0	0.7	0.16	3	24	0
MW-015	bis(2-Ethylhexyl)Phthalate	12	0.00	0	0	0.00	0	12	0
MW-015	Chloride	27	1.88	1	2.9	0.53	27	0	0
MW-015	cis-1,2-dichloroethene	26	0.00	0	0	0.00	0	26	0
MW-015	Ethylbenzene	26	0.02	0	0.5	0.10	1	25	0
MW-015	Lead	27	0.00	0	0.001	0.00	5	22	0
MW-015	Manganese	27	0.00	0	0.012	0.00	21	6	0
MW-015	Mercury	27	0.00	0	0	0.00	0	27	0
MW-015	Methylene Chloride	27	0.00	0	0	0.00	0	27	0

StationID	Analyte	Count	Average	Min	Max	StDev	# Detects	# NonDetects	# Exceedances
MW-015	N-Nitrate	27	1.37	0.41	2.2	0.43	27	0	0
MW-015	o-Xylene	25	0.04	0	0.7	0.14	2	23	0
MW-015	Sulfate	27	4.60	0	8.7	2.27	24	3	0
MW-015	Tetrachloroethene	27	0.00	0	0	0.00	0	27	0
MW-015	Toluene	27	0.24	0	3.5	0.69	7	20	0
MW-015	Total Dissolved Solids	27	75.89	35	100	15.61	27	0	0
MW-015	Total Organic Carbon	27	2.53	0	8.3	1.70	23	4	0
MW-015	Trichloroethene	27	0.00	0	0	0.00	0	27	0
MW-015	Vanadium	27	0.00	0	0	0.00	0	27	0
MW-015	Vinyl Chloride	27	0.00	0	0	0.00	0	27	0
MW-015	Xylene	26	0.10	0	2	0.40	2	24	0
MW-015	Zinc	27	0.00	0	0.01	0.00	7	20	0
MW-016	1,2-Dichloroethane	131	2.23	0	14.9	1.84	95	36	93
MW-016	1,2-Dichloropropane	132	11.74	0	18.2	4.57	124	8	124
MW-016	Acetone	135	3442.21	0	14300	2241.84	132	3	116
MW-016	Alkalinity	87	1333.29	369	1890	374.69	87	0	0
MW-016	Ammonia	140	0.14	0	0.484	0.13	119	21	0
MW-016	Arsenic	136	0.04	0	0.0723	0.02	133	3	0
MW-016	Barium	136	0.71	0.0928	0.899	0.13	136	0	0
MW-016	Benzene	133	13.16	0	21.3	4.81	127	6	127
MW-016	Chloride	91	92.63	2	169	56.81	91	0	0
MW-016	cis-1,2-dichloroethene	131	70.04	0	148	46.33	130	1	86
MW-016	Ethylbenzene	123	54.81	0	86.4	17.99	121	2	0
MW-016	Lead	89	0.00	0	0.0129	0.00	9	80	0
MW-016	m,p-Xylene	87	44.13	24.4	61.6	7.11	87	0	0
MW-016	Manganese	143	6.95	0.15	17.5	5.44	143	0	0
MW-016	Mercury	88	0.00	0	0.0034	0.00	3	85	0
MW-016	Methylene Chloride	129	91.85	0	560	147.92	70	59	56
MW-016	N-Nitrate	50	0.71	0	22.1	3.17	16	34	0
MW-016	o-Xylene	120	19.67	0	31.6	6.22	118	2	0
MW-016	Sulfate	84	2.97	0	24	4.92	59	25	0
MW-016	Tetrachloroethene	119	0.87	0	17	2.68	22	97	19
MW-016	Toluene	134	68.90	0	160	37.78	132	2	28
MW-016	Total Dissolved Solids	86	1874.86	375	2943	659.75	86	0	0
MW-016	Total Organic Carbon	141	288.21	4.44	770	206.19	141	0	0
MW-016	Trichloroethene	133	16.92	0	96	23.12	108	25	88
MW-016	Vanadium	90	0.00	0	0.0191	0.00	6	84	0
MW-016	Vinyl Chloride	134	7.37	0	17.1	4.89	115	19	115
MW-016	Xylene	36	32.38	0	55.9	15.57	35	1	0
MW-016	Zinc	119	0.00	0	0.11	0.01	13	106	0
MW-018	1,2-Dichloroethane	30	0.00	0	0	0.00	0	30	0
MW-018	1,2-Dichloropropane	30	0.00	0	0	0.00	0	30	0
MW-018	Acetone	30	0.55	0	9	1.86	3	27	0
MW-018	Alkalinity	30	82.66	45	98	8.78	30	0	0
MW-018	Ammonia	30	0.01	0	0.18	0.03	10	20	0
MW-018	Arsenic	30	0.00	0	0.0026	0.00	26	4	0
MW-018	Barium	30	0.01	0	0.016	0.00	26	4	0
MW-018	Benzene	30	0.12	0	1	0.29	6	24	3
MW-018	bis(2-Ethylhexyl)Phthalate	14	0.16	0	1.2	0.42	2	12	0
MW-018	Chloride	30	7.21	3.06	26	5.56	30	0	0
MW-018	cis-1,2-dichloroethene	27	0.00	0	0	0.00	0	27	0
MW-018	Ethylbenzene	28	0.00	0	0	0.00	0	28	0

StationID	Analyte	Count	Average	Min	Max	StDev	# Detects	# NonDetects	# Exceedances
MW-018	Lead	30	0.00	0	0.001	0.00	1	29	0
MW-018	Manganese	30	0.01	0	0.0257	0.01	26	4	0
MW-018	Mercury	30	0.00	0	0	0.00	0	30	0
MW-018	Methylene Chloride	30	0.00	0	0	0.00	0	30	0
MW-018	N-Nitrate	29	0.02	0	0.064	0.02	15	14	0
MW-018	o-Xylene	25	0.03	0	0.3	0.09	3	22	0
MW-018	Sulfate	30	7.42	3.4	11	1.59	30	0	0
MW-018	Tetrachloroethene	30	0.00	0	0	0.00	0	30	0
MW-018	Toluene	30	0.40	0	5	1.07	7	23	0
MW-018	Total Dissolved Solids	30	125.37	88	176	18.75	30	0	0
MW-018	Total Organic Carbon	30	0.32	0	3	0.86	4	26	0
MW-018	Trichloroethene	30	0.00	0	0	0.00	0	30	0
MW-018	Vanadium	30	0.00	0	0	0.00	0	30	0
MW-018	Vinyl Chloride	30	0.00	0	0	0.00	0	30	0
MW-018	Xylene	28	0.35	0	6	1.18	5	23	0
MW-018	Zinc	30	0.00	0	0.012	0.00	6	24	0
MW-019R	1,2-Dichloroethane	74	0.00	0	0.2	0.03	2	72	0
MW-019R	1,2-Dichloropropane	74	0.00	0	0.1	0.01	1	73	0
MW-019R	Acetone	74	0.00	0	0	0.00	0	74	0
MW-019R	Alkalinity	69	185.48	104	246	49.34	69	0	0
MW-019R	Ammonia	100	0.02	0	1.21	0.12	19	81	0
MW-019R	Arsenic	100	0.00	0	0.005	0.00	3	97	0
MW-019R	Barium	100	0.08	0.032	0.201	0.03	100	0	0
MW-019R	Benzene	74	0.05	0	3.2	0.38	2	72	1
MW-019R	Chloride	69	33.43	5.7	64	19.72	69	0	0
MW-019R	cis-1,2-dichloroethene	74	0.59	0	3.08	0.88	27	47	0
MW-019R	Ethylbenzene	67	0.00	0	0	0.00	0	67	0
MW-019R	Lead	73	0.00	0	0.0081	0.00	4	69	0
MW-019R	m,p-Xylene	65	0.01	0	0.69	0.09	1	64	0
MW-019R	Manganese	100	0.02	0	0.436	0.06	81	19	0
MW-019R	Mercury	73	0.00	0	0	0.00	0	73	0
MW-019R	Methylene Chloride	74	0.00	0	0.2	0.02	1	73	0
MW-019R	N-Nitrate	43	1.38	0.91	1.68	0.13	43	0	0
MW-019R	o-Xylene	67	0.00	0	0	0.00	0	67	0
MW-019R	Sulfate	69	14.35	4.28	77	15.26	69	0	0
MW-019R	Tetrachloroethene	74	0.05	0	0.52	0.14	8	66	0
MW-019R	Toluene	74	0.06	0	3.34	0.40	3	71	0
MW-019R	Total Dissolved Solids	68	293.76	117	450	91.67	68	0	0
MW-019R	Total Organic Carbon	100	2.62	0	9	1.49	94	6	0
MW-019R	Trichloroethene	74	0.07	0	0.6	0.18	9	65	0
MW-019R	Vanadium	73	0.00	0	0	0.00	0	73	0
MW-019R	Vinyl Chloride	74	0.17	0	2.28	0.43	13	61	13
MW-019R	Xylene	2	0.00	0	0	0.00	0	2	0
MW-019R	Zinc	100	0.01	0	0.147	0.02	28	72	0
MW-020	1,2-Dichloroethane	59	0.00	0	0	0.00	0	59	0
MW-020	1,2-Dichloropropane	59	0.00	0	0	0.00	0	59	0
MW-020	Acetone	59	0.41	0	10	1.81	4	55	0
MW-020	Alkalinity	54	259.13	161	307	32.82	54	0	0
MW-020	Ammonia	52	0.01	0	0.132	0.02	6	46	0
MW-020	Arsenic	53	0.00	0	0.009	0.00	27	26	0
MW-020	Barium	54	0.26	0.0542	0.763	0.15	54	0	0
MW-020	Benzene	59	0.01	0	0.14	0.03	3	56	0

StationID	Analyte	Count	Average	Min	Max	StDev	# Detects	# NonDetects	# Exceedances
MW-020	Chloride	54	13.01	0	27.5	6.56	53	1	0
MW-020	cis-1,2-dichloroethene	57	0.02	0	0.33	0.08	4	53	0
MW-020	Ethylbenzene	54	0.00	0	0	0.00	0	54	0
MW-020	Lead	53	0.02	0	0.066	0.02	39	14	0
MW-020	m,p-Xylene	39	0.00	0	0	0.00	0	39	0
MW-020	Manganese	54	0.12	0	0.434	0.11	48	6	0
MW-020	Mercury	52	0.00	0	0.00021	0.00	1	51	0
MW-020	Methylene Chloride	59	0.55	0	2.3	0.83	19	40	0
MW-020	N-Nitrate	54	5.80	0.13	8.54	2.27	54	0	0
MW-020	o-Xylene	52	0.01	0	0.34	0.06	2	50	0
MW-020	Sulfate	53	13.25	0	27.8	5.78	52	1	0
MW-020	Tetrachloroethene	59	0.02	0	0.21	0.06	6	53	0
MW-020	Toluene	59	0.02	0	1	0.14	2	57	0
MW-020	Total Dissolved Solids	54	375.61	200	784	95.97	54	0	0
MW-020	Total Organic Carbon	54	2.21	0	6.8	1.31	50	4	0
MW-020	Trichloroethene	59	0.08	0	0.5	0.15	14	45	0
MW-020	Vanadium	52	0.00	0	0.0177	0.00	11	41	0
MW-020	Vinyl Chloride	59	0.01	0	0.5	0.07	3	56	3
MW-020	Xylene	15	0.09	0	1	0.27	2	13	0
MW-020	Zinc	53	0.04	0	0.129	0.03	46	7	0
MW-023	1,2-Dichloroethane	146	1.08	0	2.4	0.68	120	26	65
MW-023	1,2-Dichloropropane	142	0.76	0	1.34	0.38	120	22	97
MW-023	Acetone	115	0.59	0	7.36	1.46	19	96	0
MW-023	Alkalinity	117	508.38	0	757	144.96	116	1	0
MW-023	Ammonia	126	0.01	0	0.12	0.02	27	99	0
MW-023	Arsenic	115	0.00	0	0.00334	0.00	30	85	0
MW-023	Barium	160	0.20	0.0091	0.299	0.05	160	0	0
MW-023	Benzene	146	1.27	0	2.9	0.91	121	25	92
MW-023	bis(2-Ethylhexyl)Phthalate	16	0.51	0	3.7	1.21	3	13	0
MW-023	Chloride	121	87.67	1.38	188	51.81	121	0	0
MW-023	cis-1,2-dichloroethene	154	3.02	0	8.37	2.23	141	13	0
MW-023	Ethylbenzene	97	0.00	0	0	0.00	0	97	0
MW-023	Lead	112	0.00	0	0.023	0.00	12	100	0
MW-023	m,p-Xylene	67	0.02	0	0.68	0.10	2	65	0
MW-023	Manganese	161	0.52	0	1.21	0.49	148	13	0
MW-023	Mercury	109	0.00	0	0.0006	0.00	22	87	0
MW-023	Methylene Chloride	139	6.25	0	18.3	4.52	100	39	92
MW-023	N-Nitrate	101	1.80	0	8.04	1.93	73	28	0
MW-023	o-Xylene	126	3.74	0	13.9	3.98	87	39	0
MW-023	Sulfate	123	5.87	0	11	2.14	121	2	0
MW-023	Tetrachloroethene	128	1.98	0	9	2.52	65	63	62
MW-023	Toluene	107	0.00	0	0.22	0.02	1	106	0
MW-023	Total Dissolved Solids	120	707.44	385	1211	219.21	120	0	0
MW-023	Total Organic Carbon	174	5.05	0	60	6.67	168	6	0
MW-023	Trichloroethene	160	3.37	0	9.7	2.70	144	16	62
MW-023	Vanadium	120	0.00	0	0.00935	0.00	33	87	0
MW-023	Vinyl Chloride	148	1.08	0	3.8	0.88	120	28	120
MW-023	Xylene	35	0.31	0	1	0.36	16	19	0
MW-023	Zinc	112	0.00	0	0.0309	0.00	12	100	0
MW-024	Arsenic	15	0.00	0	0	0.00	0	15	0
MW-024	Barium	15	0.03	0	0.0497	0.01	14	1	0
MW-024	Lead	15	0.00	0	0	0.00	0	15	0

StationID	Analyte	Count	Average	Min	Max	StDev	# Detects	# NonDetects	# Exceedances
MW-024	Manganese	15	0.00	0	0.0082	0.00	10	5	0
MW-024	Mercury	15	0.00	0	0	0.00	0	15	0
MW-024	Vanadium	15	0.00	0	0.00151	0.00	1	14	0
MW-024	Zinc	15	0.01	0	0.017	0.01	13	2	0
MW-025	Arsenic	15	0.00	0	0.0017	0.00	2	13	0
MW-025	Barium	15	0.06	0.052	0.061	0.00	15	0	0
MW-025	Lead	15	0.00	0	0.0022	0.00	3	12	0
MW-025	Manganese	15	0.00	0	0.005	0.00	4	11	0
MW-025	Mercury	15	0.00	0	0	0.00	0	15	0
MW-025	Vanadium	15	0.00	0	0.004	0.00	8	7	0
MW-025	Zinc	15	0.00	0	0	0.00	0	15	0
MW-026	Arsenic	15	0.00	0	0.001	0.00	1	14	0
MW-026	Barium	17	0.06	0.0513	0.065	0.00	17	0	0
MW-026	Lead	15	0.00	0	0.001	0.00	1	14	0
MW-026	Manganese	15	0.00	0	0.003	0.00	1	14	0
MW-026	Mercury	15	0.00	0	0	0.00	0	15	0
MW-026	Vanadium	16	0.00	0	0.00225	0.00	2	14	0
MW-026	Zinc	15	0.00	0	0.01	0.00	1	14	0
MW-027	Alkalinity	9	157.78	130	210	24.27	9	0	0
MW-027	Ammonia	9	0.00	0	0.029	0.01	1	8	0
MW-027	Arsenic	15	0.00	0	0.0016	0.00	2	13	0
MW-027	Barium	17	0.15	0.128	0.176	0.01	17	0	0
MW-027	Chloride	10	51.83	12	77	20.00	10	0	0
MW-027	Lead	15	0.00	0	0.001	0.00	1	14	0
MW-027	Manganese	15	0.00	0	0.0231	0.01	8	7	0
MW-027	Mercury	15	0.00	0	0	0.00	0	15	0
MW-027	N-Nitrate	10	0.90	0.59	1.9	0.39	10	0	0
MW-027	Sulfate	10	15.34	12	18	1.84	10	0	0
MW-027	Total Dissolved Solids	9	340.56	300	367	23.05	9	0	0
MW-027	Total Organic Carbon	10	1.73	0	3.9	1.45	7	3	0
MW-027	Vanadium	17	0.00	0	0.0045	0.00	8	9	0
MW-027	Zinc	17	0.00	0	0.011	0.00	4	13	0
MW-028	1,2-Dichloroethane	9	0.00	0	0	0.00	0	9	0
MW-028	1,2-Dichloropropane	9	0.00	0	0	0.00	0	9	0
MW-028	Acetone	9	0.00	0	0	0.00	0	9	0
MW-028	Alkalinity	9	181.67	140	240	33.54	9	0	0
MW-028	Ammonia	9	0.01	0	0.035	0.01	2	7	0
MW-028	Arsenic	15	0.00	0	0.0011	0.00	1	14	0
MW-028	Barium	15	0.09	0.0551	0.19	0.04	15	0	0
MW-028	Benzene	9	0.00	0	0	0.00	0	9	0
MW-028	bis(2-Ethylhexyl)Phthalate	8	0.00	0	0	0.00	0	8	0
MW-028	Chloride	9	36.01	1.1	160	55.99	9	0	0
MW-028	cis-1,2-dichloroethene	7	0.00	0	0	0.00	0	7	0
MW-028	Ethylbenzene	9	0.00	0	0	0.00	0	9	0
MW-028	Lead	15	0.00	0	0	0.00	0	15	0
MW-028	Manganese	15	0.00	0	0.003	0.00	2	13	0
MW-028	Mercury	15	0.00	0	0	0.00	0	15	0
MW-028	Methylene Chloride	9	0.00	0	0	0.00	0	9	0
MW-028	N-Nitrate	9	12.22	8.4	14.7	2.48	9	0	0
MW-028	o-Xylene	7	0.00	0	0	0.00	0	7	0
MW-028	Sulfate	9	17.31	14	21	2.52	9	0	0
MW-028	Tetrachloroethene	9	0.00	0	0	0.00	0	9	0

StationID	Analyte	Count	Average	Min	Max	StDev	# Detects	# NonDetects	# Exceedances
MW-028	Toluene	9	0.00	0	0	0.00	0	9	0
MW-028	Total Dissolved Solids	9	374.33	294	620	121.62	9	0	0
MW-028	Total Organic Carbon	9	1.11	0	3.9	1.46	4	5	0
MW-028	Trichloroethene	9	0.00	0	0	0.00	0	9	0
MW-028	Vanadium	15	0.00	0	0.004	0.00	4	11	0
MW-028	Vinyl Chloride	9	0.00	0	0	0.00	0	9	0
MW-028	Xylene	9	0.00	0	0	0.00	0	9	0
MW-028	Zinc	15	0.00	0	0.007	0.00	2	13	0
MW-029	1,2-Dichloroethane	105	0.00	0	0	0.00	0	105	0
MW-029	1,2-Dichloropropane	105	0.00	0	0	0.00	0	105	0
MW-029	Acetone	105	0.05	0	3.78	0.40	2	103	0
MW-029	Alkalinity	74	57.03	26	311	36.92	74	0	0
MW-029	Ammonia	104	0.01	0	0.08	0.02	18	86	0
MW-029	Arsenic	104	0.00	0	0.001	0.00	1	103	0
MW-029	Barium	104	0.10	0.03	2.51	0.24	104	0	0
MW-029	Benzene	105	0.00	0	0	0.00	0	105	0
MW-029	bis(2-Ethylhexyl)Phthalate	41	1.79	0	71	11.08	3	38	1
MW-029	Chloride	74	109.66	38	176	48.96	74	0	0
MW-029	cis-1,2-dichloroethene	102	0.00	0	0	0.00	0	102	0
MW-029	Ethylbenzene	96	0.00	0	0.3	0.03	1	95	0
MW-029	Lead	104	0.00	0	0	0.00	0	104	0
MW-029	m,p-Xylene	66	0.00	0	0	0.00	0	66	0
MW-029	Manganese	104	0.01	0	1.17	0.11	29	75	0
MW-029	Mercury	104	0.00	0	0	0.00	0	104	0
MW-029	Methylene Chloride	105	0.00	0	0	0.00	0	105	0
MW-029	N-Nitrate	74	0.80	0	2.26	0.32	72	2	0
MW-029	o-Xylene	93	0.01	0	0.5	0.05	1	92	0
MW-029	Sulfate	73	5.21	0	9.9	1.71	70	3	0
MW-029	Tetrachloroethene	105	0.31	0	0.97	0.31	55	50	2
MW-029	Toluene	105	0.04	0	2	0.23	5	100	0
MW-029	Total Dissolved Solids	72	339.90	150	530	118.74	72	0	0
MW-029	Total Organic Carbon	104	0.31	0	5	0.82	18	86	0
MW-029	Trichloroethene	105	0.01	0	0.61	0.06	1	104	0
MW-029	Vanadium	104	0.00	0	0.00108	0.00	1	103	0
MW-029	Vinyl Chloride	105	0.00	0	0	0.00	0	105	0
MW-029	Xylene	30	0.14	0	3	0.59	2	28	0
MW-029	Zinc	104	0.00	0	0.02	0.00	10	94	0
MW-031	1,2-Dichloroethane	67	0.00	0	0	0.00	0	67	0
MW-031	1,2-Dichloropropane	67	0.00	0	0	0.00	0	67	0
MW-031	Acetone	68	0.04	0	1.4	0.21	2	66	0
MW-031	Alkalinity	46	124.84	31	280	89.57	46	0	0
MW-031	Ammonia	70	0.01	0	0.092	0.02	19	51	0
MW-031	Arsenic	68	0.00	0	0.0019	0.00	9	59	0
MW-031	Barium	70	0.08	0.03	0.15	0.04	70	0	0
MW-031	Benzene	67	0.00	0	0	0.00	0	67	0
MW-031	bis(2-Ethylhexyl)Phthalate	8	0.14	0	1.1	0.39	1	7	0
MW-031	Chloride	47	5.55	1	38	6.05	47	0	0
MW-031	cis-1,2-dichloroethene	67	0.00	0	0	0.00	0	67	0
MW-031	Ethylbenzene	62	0.00	0	0	0.00	0	62	0
MW-031	Lead	68	0.00	0	0.002	0.00	5	63	0
MW-031	m,p-Xylene	42	0.00	0	0	0.00	0	42	0
MW-031	Manganese	71	0.08	0	0.963	0.17	56	15	0

StationID	Analyte	Count	Average	Min	Max	StDev	# Detects	# NonDetects	# Exceedances
MW-031	Mercury	67	0.00	0	0	0.00	0	67	0
MW-031	Methylene Chloride	67	0.00	0	0	0.00	0	67	0
MW-031	N-Nitrate	45	0.35	0	2.44	0.54	38	7	0
MW-031	o-Xylene	62	0.00	0	0	0.00	0	62	0
MW-031	Sulfate	47	5.84	0	17	3.16	46	1	0
MW-031	Tetrachloroethene	67	0.00	0	0	0.00	0	67	0
MW-031	Toluene	67	0.00	0	0.3	0.04	1	66	0
MW-031	Total Dissolved Solids	46	186.30	61	340	81.16	46	0	0
MW-031	Total Organic Carbon	71	4.94	0	15	2.18	70	1	0
MW-031	Trichloroethene	67	0.00	0	0	0.00	0	67	0
MW-031	Vanadium	68	0.00	0	0.0077	0.00	15	53	0
MW-031	Vinyl Chloride	67	0.00	0	0	0.00	0	67	0
MW-031	Xylene	20	0.00	0	0	0.00	0	20	0
MW-031	Zinc	69	0.00	0	0.013	0.00	14	55	0

APPENDIX C - DATA VALIDATION

Analytical data for the September 2023 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.

Data Qualifier Summary for September 2023 Sampling Results

StationID	SampleDate	AnalyteAbbrev	AnalyteCat	Units	SampleID	RptLimit	Result	Qualifier
MW-031	9/12/2023	ALK	C	mg/L as Ca	GWMW-031-230912	1	162	J
MW-031	9/12/2023	TDS	C	mg/L	GWMW-031-230912	10	191	J
MW-031	9/12/2023	Cl	C	mg/L	GWMW-031-230912	0.2	10	J
MW-031	9/12/2023	N-NH3	C	mg/L	GWMW-031-230912	0.03	0.03	UJ
MW-031	9/12/2023	N-NO3	C	mg/L	GWMW-031-230912	0.05	0.11	J
MW-031	9/12/2023	SO4	C	mg/L	GWMW-031-230912	0.3	1.97	J
MW-031	9/12/2023	TOC	C	mg/L	GWMW-031-230912	1	2.01	J
MW-031	9/12/2023	As	I	mg/L	GWMW-031-230912	0.001	0.001	UJ
MW-031	9/12/2023	Ba	I	mg/L	GWMW-031-230912	0.004	0.0873	J
MW-031	9/12/2023	Pb	I	mg/L	GWMW-031-230912	0.015	0.015	UJ
MW-031	9/12/2023	Mn	I	mg/L	GWMW-031-230912	0.008	0.008	UJ
MW-031	9/12/2023	Hg	I	mg/L	GWMW-031-230912	0.0002	0.0002	UJ
MW-031	9/12/2023	V	I	mg/L	GWMW-031-230912	0.005	0.005	UJ
MW-031	9/12/2023	Zn	I	mg/L	GWMW-031-230912	0.01	0.0109	J
MW-031	9/12/2023	Ethylbenzene	V	ug/L	GWMW-031-230912	0.5	0.5	UJ
MW-031	9/12/2023	VC	V	ug/L	GWMW-031-230912	0.5	0.5	UJ
MW-031	9/12/2023	MC	V	ug/L	GWMW-031-230912	2.5	2.5	UJ
MW-031	9/12/2023	Acetone	V	ug/L	GWMW-031-230912	2.5	2.5	UJ
MW-031	9/12/2023	1,2-DCA	V	ug/L	GWMW-031-230912	0.5	0.5	UJ
MW-031	9/12/2023	1,2-DCP	V	ug/L	GWMW-031-230912	0.5	0.5	UJ
MW-031	9/12/2023	TCE	V	ug/L	GWMW-031-230912	0.5	0.5	UJ
MW-031	9/12/2023	Benzene	V	ug/L	GWMW-031-230912	0.5	0.5	UJ
MW-031	9/12/2023	PCE	V	ug/L	GWMW-031-230912	0.5	0.5	UJ
MW-031	9/12/2023	Toluene	V	ug/L	GWMW-031-230912	0.5	0.5	UJ
MW-031	9/12/2023	cis-1,2-DCE	V	ug/L	GWMW-031-230912	0.5	0.5	UJ
MW-031	9/12/2023	m,p-Xylene	V	ug/L	GWMW-031-230912	0.5	0.5	UJ
MW-031	9/12/2023	o-Xylene	V	ug/L	GWMW-031-230912	0.5	0.5	UJ

The groundwater level in MW-31 was at the top of the intakes for the pump, and County personnel attempted to obtain a sample. The results from the collected sample indicated inconsistent analyte concentrations for alkalinity, zinc, TDS, barium, and more. The results from the sample collected from MW-31 will be qualified as estimates.

APPENDIX D - LANDFILL GAS PROBE MEASUREMENTS

Mica Landfill Gas Measurements

Tech:	CC	Filename:	MP230113.xlsx
Date:	1/13/2023	Inst. Used: Landtec Gem 500 #	760
Weather:	Rain/Sleet	Time Gem Calib:	9:45
Temp:	38 F @ 10:00	Time Gem Checked:	9:50
	40 F @ 13:00		
Baro. Pres:	29.82 @ 7:30		
	29.75 @ 13:00		
Qualifier:	Falling		

Code	Time	Date	CH4	CO2	O2	Bal	Static Pre:	Different Temp:	Refere:	Adjus	Valve Pos:	Comments
MGP00012	9:57	1/13/2023	0	0		20.7	79.3	0	-0.01 >>>	>>>	>>>	>>>
MGP00011	10:12	1/13/2023	0	1.8		18.8	79.4	0	-1.16 >>>	>>>	>>>	>>>
MGP00005	10:20	1/13/2023	0	2.4		18.7	78.9	0	0 >>>	>>>	>>>	>>>
MGP00010	10:26	1/13/2023	0	4.7		16.2	79.1	0	0 >>>	>>>	>>>	>>>
MGP0002R	10:57	1/13/2023	0	7.8		16.5	75.7	0	0.01 >>>	>>>	>>>	>>>
MGP00008	11:10	1/13/2023	0	0		20.6	79.4	0	0.29 >>>	>>>	>>>	>>>
MGP00007	11:19	1/13/2023	0	4.1		16.9	79	0	-0.12 >>>	>>>	>>>	>>>
MGP00009	11:32	1/13/2023	0	3.3		18.1	78.6	0	0.78 >>>	>>>	>>>	>>>
MGP00003	12:42	1/13/2023	0	3.3		18.5	78.2	0	-0.08 >>>	>>>	>>>	>>> GW in Screen, No Sample
MGP00006	12:44	1/13/2023	0	3.2		18	78.8	0	0 >>>	>>>	>>>	>>> GW in Screen, No Sample
MGP00001	12:44	1/13/2023	0	3.1		18.2	78.7	0	0 >>>	>>>	>>>	>>> GW in Screen, No Sample

Mica Landfill Gas Measurements

Tech: CC
 Date: 2/2/2023
 Temp: 24F
 Weather: Cloudy
 Baro. Pres: 30.08 @ 800
 30.08 @ 1430
 Qualifier: Steady

Filename: MP230202.xlsx

Inst. Used: Landtec Gem 500 # 547

Time Gem Calib: 945

Time Gem Checked: N/A

Gas Extraction Monitoring Data

Code	Time	Date	CH4	CO2	O2	Bal	Static Pres	Different	Temp	Referen	Adjus	Valve Pos	Comments
MGP00012	10:18	2/2/2023	0	0.6	20	79.4	0	-0.84 >>>	>>>	>>>	>>>		
MGP0002R	10:28	2/2/2023	0	4.3	18.7	77	0	-0.03 >>>	>>>	>>>	>>>		
MGP00007	10:39	2/2/2023	0	3	17.8	79.2	0	-0.16 >>>	>>>	>>>	>>>		
MGP00008	10:49	2/2/2023	0	3.6	17.5	78.9	0	-0.12 >>>	>>>	>>>	>>>		
MGP00009	11:03	2/2/2023	0	0.1	20.5	79.4	0	-0.23 >>>	>>>	>>>	>>>		
MGP00001	11:04	2/2/2023	0	0	20.8	79.2	0	0.01 >>>	>>>	>>>	>>>	GW In Screen, No Sample	
MGP00006	11:11	2/2/2023	0	0.2	20.4	79.4	0	0 >>>	>>>	>>>	>>>	GW In Screen, No Sample	
MGP00011	11:23	2/2/2023	0	2.6	17.6	79.8	0	-1.39 >>>	>>>	>>>	>>>		
MGP00005	12:56	2/2/2023	0	0	20.8	79.2	0	0 >>>	>>>	>>>	>>>	GW In Screen, No Sample	
MGP00010	13:12	2/2/2023	0	5.6	15.4	79	0	0 >>>	>>>	>>>	>>>		
MGP00003	13:20	2/2/2023	0	5.4	15.8	78.8	0	-0.02 >>>	>>>	>>>	>>>	GW In Screen, No Sample	

Mica Landfill Gas Measurements

Tech: CC
 Date: 3/2/2023
 Temp: 30F
 Weather: Snow
 Baro. Pres: 29.70 @ 800
 Qualifier: Falling

Filename: MP230302.xls
 Inst. Used: Landtec Gem 500 # 547
 Time Gem Calib: 930
 Time Gem Checked: n/a
 Baro. Pres: 29.65 @ 1200

Gas Extraction Monitoring Data

Code	Time	Date	CH4	CO2	O2	Bal	Static Pres	Different Temp	Refere	Adjus	Valve Pos	Comments
MGP00012	9:57	3/2/2023	0	1.2		19.9	78.9	0	-0.71 >>>	>>>	>>>	>>>
MGP0002R	10:10	3/2/2023	0	3.5		19	77.5	0	-36.22 >>>	>>>	>>>	Audible gas movement on valve open after 9 minute collection
MGP00007	10:20	3/2/2023	0	2.4		18	79.6	0	0.01 >>>	>>>	>>>	
MGP00008	10:29	3/2/2023	0	3.6		17.5	78.9	0	0.38 >>>	>>>	>>>	
MGP00009	10:39	3/2/2023	0	2.5		17.9	79.6	0	0.8 >>>	>>>	>>>	
MGP00001	10:42	3/2/2023							>>>	>>>	>>>	GW In Screen, No Sample
MGP00006	10:48	3/2/2023							>>>	>>>	>>>	GW In Screen, No Sample
MGP00011	11:01	3/2/2023	0	2.7		17.4	79.9	0	-0.37 >>>	>>>	>>>	
MGP00005	11:07	3/2/2023							>>>	>>>	>>>	GW In Screen, No Sample
MGP00010	11:14	3/2/2023	0	6.2		14.6	79.2	0	-0.04 >>>	>>>	>>>	
MGP00003	11:28	3/2/2023	0	5.7		6.7	87.6	0	0.04 >>>	>>>	>>>	

Mica Landfill Gas Measurements

Tech: CC
 Date: 4/4/2023
 Temp: 39F
 Weather: Pt. Cldy.
 Baro. Pres: 29.85 @ 1200
 Qualifier: Rising

Filename: MP230404.xlsx
 Inst. Used: Landtec Gem 500 # 760
 Time Gem Calib: 1230
 Time Gem Checked: n/a
 Baro. Pres: 29.9 @ 1415

Gas Extraction Monitoring Data

Code	Time	Date	CH4	CO2	O2	Bal	Static Pre	Different Temp	Refere	Adjus	Valve Pos	Comments
MGP00012	12:39	4/4/2023	0	0.8		19.9	79.3	0	-2.78 >>>	>>>	>>>	>>>
MGP0002R	12:50	4/4/2023	0	3.2		19.6	77.2	0	-0.09 >>>	>>>	>>>	>>>
MGP00007	12:59	4/4/2023	0	2.6		18.7	78.7	0	-0.16 >>>	>>>	>>>	>>>
MGP00008	13:08	4/4/2023	0	3.4		18	78.6	0	-0.25 >>>	>>>	>>>	>>>
MGP00009	13:18	4/4/2023	0	2.7		18.1	79.2	0	-0.95 >>>	>>>	>>>	>>>
MGP00001	13:23	4/4/2023							>>>	>>>	>>>	GW in screen, no sample.
MGP00006	13:32	4/4/2023							>>>	>>>	>>>	GW in screen, no sample.
MGP00011	13:44	4/4/2023	0	3.1		17.7	79.2	0	-1.17 >>>	>>>	>>>	>>>
MGP00005	13:48	4/4/2023							>>>	>>>	>>>	GW in screen, no sample.
MGP00010	13:53	4/4/2023	0	3.7		16	80.3	0	0 >>>	>>>	>>>	>>>
MGP00003	14:01	4/4/2023	0	5.3		6.3	88.4	0	0 >>>	>>>	>>>	>>>

Mica Landfill Gas Measurements

Tech: CC
 Date: 5/1/2023
 Temp: 51
 Weather: Mstly Cldy
 Baro. Pres: 29.66 @ 800
 Qualifier: Falling

Filename: MP230501.xlsx
 Inst. Used: Landtec Gem 500 # 760
 Time Gem Calib: 800
 Time Gem Checked: n/a
 Baro. Pres: 29.65 @ 1000

Gas Extraction Monitoring Data

Code	Time	Date	CH4	CO2	O2	Bal	Static Pre	Different Temp	Refere	Adjus	Valve Pos	Comments
MGP00012	8:26	5/1/2023	0	1.2		19.8	79	0	-0.56 >>>	>>>	>>>	>>>
MGP0002R	8:30	5/1/2023							>>>	>>>	>>>	GW In Screen, No Sample
MGP00007	8:44	5/1/2023	0	3.7		17.6	78.7	0	-0.13 >>>	>>>	>>>	>>>
MGP00008	8:59	5/1/2023	0	1.7		19.8	78.5	0	-0.12 >>>	>>>	>>>	>>>
MGP00009	9:06	5/1/2023	0	3.4		17.4	79.2	0	-0.03 >>>	>>>	>>>	>>>
MGP00001	9:12	5/1/2023							>>>	>>>	>>>	GW In Screen, No Sample
MGP00006	9:21	5/1/2023							>>>	>>>	>>>	GW In Screen, No Sample
MGP00011	9:35	5/1/2023	0	3		18	79	-0.9	0.62 >>>	>>>	>>>	>>>
MGP00005	9:40	5/1/2023							>>>	>>>	>>>	GW In Screen, No Sample
MGP00010	9:47	5/1/2023	0	5.6		14.3	80.1	0	-0.01 >>>	>>>	>>>	>>>
MGP00003	9:55	5/1/2023	0	6.5		1.4	92.1	0	0.01 >>>	>>>	>>>	>>>

Mica Landfill Gas Measurements

Tech: CC
 Date: 6/5/2023
 Temp: 64F - 74F
 Weather: Clear
 Baro. Pres: 29.85 @ 800
 29.85 @ 1000
 Qualifier: Steady
 Gas Extraction Monitoring Data

Filename: MP230605.xlsx

Inst. Used: Landtec Gem 500 # 547
 Time Gem Calib: 800
 Time Gem Checked: n/a

Code	Time	Date	CH4	CO2	O2	Bal	Static Pres	Different Temp	Refere	Adjus	Valve Pos	Comments
MGP00012	8:18	6/5/2023	0	1.1	19.6	79.3	0	-1.46 >>>	>>>	>>>	>>>	
MGP0002R	8:27	6/5/2023	0	4.5	19.1	76.4	0	-0.01 >>>	>>>	>>>	>>>	
MGP00007	8:39	6/5/2023	0	2.9	17.7	79.4	0	-0.09 >>>	>>>	>>>	>>>	
MGP00008	8:50	6/5/2023	0	2.9	17.8	79.3	0	-0.11 >>>	>>>	>>>	>>>	
MGP00009	9:00	6/5/2023	0	3.2	16.8	80	0	-0.14 >>>	>>>	>>>	>>>	
MGP00001	9:07	6/5/2023						>>>	>>>	>>>	>>>	GW in Screen, No Sample
MGP00006	9:17	6/5/2023	0	3.2	17.9	78.9	0	-0.02 >>>	>>>	>>>	>>>	
MGP00011	9:30	6/5/2023	0	2.5	17.7	79.8	0	-0.9 >>>	>>>	>>>	>>>	
MGP00005	9:36	6/5/2023						>>>	>>>	>>>	>>>	GW in Screen, No Sample
MGP00010	9:42	6/5/2023	0	7.8	11.8	80.4	0	0 >>>	>>>	>>>	>>>	
MGP00003	9:53	6/5/2023	0.1	8.7	2.7	88.5	0	0 >>>	>>>	>>>	>>>	

Mica Landfill Gas Measurements

Tech: CC
 Date: 7/5/2023
 Temp: 85F
 Weather: Mstly Cldy
 Baro. Pres: 29.91 @ 800
 Qualifier: Falling

Filename: MP230705.xlsx
 Inst. Used: Landtec Gem 500 # 760
 Time Gem Calib: 1430
 Time Gem Checked: n/a
 Baro. Pres: 29.85 @ 1645

Gas Extraction Monitoring Data

Code	Time	Date	CH4	CO2	O2	Bal	Static Pres	Different Temp	Refere	Adjus	Valve Pos	Comments
MGP00012	15:03	7/5/2023	0	1.1		19.4	79.4	0	-0.28 >>>	>>>	>>>	>>>
MGP0002R	15:11	7/5/2023	0	8.2		17.6	74	0	-0.06 >>>	>>>	>>>	>>>
MGP00007	15:21	7/5/2023	0	1.7		18.6	79.7	0	-0.15 >>>	>>>	>>>	>>>
MGP00008	15:31	7/5/2023	0	2.9		17.5	79.6	0	0.02 >>>	>>>	>>>	>>>
MGP00009	15:38	7/5/2023	0	3.3		16.7	80	0	0 >>>	>>>	>>>	>>>
MGP00001	15:52	7/5/2023	0	2.6		9.5	87.8	0	-0.02 >>>	>>>	>>>	>>>
MGP00006	16:01	7/5/2023	0	1.3		19.4	79.2	0	0 >>>	>>>	>>>	>>>
MGP00011	16:10	7/5/2023	0	3.9		16.7	79.3	0	-0.29 >>>	>>>	>>>	>>>
MGP00005	16:16	7/5/2023	0	3.3		17.4	79.2	0	0 >>>	>>>	>>>	>>>
MGP00010	16:21	7/5/2023	0	7		13.9	79	0	-0.1 >>>	>>>	>>>	>>>
MGP00003	16:30	7/5/2023	0	11.1		3.1	85.8	0	0.03 >>>	>>>	>>>	>>>

Mica Landfill Gas Measurements

Tech: GF

Date: 8/7/2023

Temp: 66 to 74 deg F

Weather: mstly cldy

Baro. Pres: 29.89 @ 830

Qualifier: Falling

Gas Extraction Monitoring Data

Filename: MP230807.XLXS

Inst. Used: Landtec Gem 500 # 547

Time Gem Calib: 910

Baro. Pres: 29.88 @ 1215

Code	Time	Date	CH4	CO2	O2	Bal	Static Pre	Different	Temp	Refere	Adjus	Valve Pos	Comments
MGP00012	9:18	8/7/2023	0	1.1	19.3	79.6	0	0.12	>>>	>>>	>>>	>>>	
MGP0002R	9:26	8/7/2023	0	14.4	15.7	69.9	0	0	>>>	>>>	>>>	>>>	
MGP00007	9:53	8/7/2023	0	3.5	16.2	80.3	0	0	>>>	>>>	>>>	>>>	
MGP00008	10:01	8/7/2023	0	3.3	17.1	79.6	0	0.01	>>>	>>>	>>>	>>>	
MGP00009	10:36	8/7/2023	0	4	16.4	79.6	0	0	>>>	>>>	>>>	>>>	
MGP00001	10:51	8/7/2023	0.1	4.6	0	95.3	0	0	>>>	>>>	>>>	>>>	
MGP00006	11:01	8/7/2023	0	1	19.8	79.2	0	0	>>>	>>>	>>>	>>>	
MGP00011	11:13	8/7/2023	0	2.5	18.2	79.3	0	0	>>>	>>>	>>>	>>>	
MGP00005	11:19	8/7/2023	0	2.1	18.8	79.1	0	0	>>>	>>>	>>>	>>>	
MGP00003	11:30	8/7/2023	0	14	3.7	82.3	0	0	>>>	>>>	>>>	>>>	
MGP00010	11:46	8/7/2023	0	5.9	15.6	78.5	0	0	>>>	>>>	>>>	>>>	

Mica Landfill Gas Measurements

Tech: CC

Date: 9/5/2023

Temp: 72F

Weather: Pt. Cldy.

Baro. Pres: 29.82 @ 900

Qualifier: Falling

Gas Extraction Monitoring Data

Filename: MP230905.xlsx

Inst. Used: Landtec Gem 500 # 547

Time Gem Calib: 900

Time Gem Checked: n/a

Baro. Pres: 29.74 @ 1630

Code	Time	Date	CH4	CO2	O2	Bal	Static Pre	Different Temp	Refere	Adjus	Valve Pos	Comments
MGP00012	14:30	9/5/2023	0	1.1		19.3	79.6	0	-0.74 >>>	>>>	>>>	>>>
MGP0002R	14:40	9/5/2023	0	7.3		17.4	75.2	0	-0.06 >>>	>>>	>>>	>>>
MGP00007	14:50	9/5/2023	0	3.5		16.4	80.1	0	-0.14 >>>	>>>	>>>	>>>
MGP00008	15:00	9/5/2023	0	3.4		17.2	79.3	0	0.12 >>>	>>>	>>>	>>>
MGP00009	15:09	9/5/2023	0	4.1		16.8	79.1	0	0 >>>	>>>	>>>	>>>
MGP00001	15:18	9/5/2023	0	2.7		9.5	87.8	0	0 >>>	>>>	>>>	>>>
MGP00006	15:30	9/5/2023	0	1		19.8	79.2	0	0 >>>	>>>	>>>	>>>
MGP00011	15:40	9/5/2023	0	0.3		20.5	79.2	0	-0.94 >>>	>>>	>>>	>>>
MGP00005	15:47	9/5/2023	0	2		18.8	79.2	0	0 >>>	>>>	>>>	>>>
MGP00010	15:52	9/5/2023	0	5.2		16.5	78.3	0	0 >>>	>>>	>>>	>>>
MGP00003	16:03	9/5/2023	0	13.2		6.9	79.9	0	0 >>>	>>>	>>>	>>>

Mica Landfill Gas Measurements

Tech: CC

Date: 10/10/2023

Temp: 53 F

Weather: Cldy/Rain

Baro. Pres: 29.45 @ 800

Qualifier: Falling

Gas Extraction Monitoring Data

Filename: MP231010.xlsx

Inst. Used: Landtec Gem 500 # 547

Time Gem Calib: 845

Time Gem Checked: n/a

Baro. Pres: 29.42 @ 1120

Code	Time	Date	CH4	CO2	O2	Bal	Static Pres	Different Temp	Refere	Adjus	Valve Pos	Comments
MGP00012	9:06	10/10/2023	0	1.2	19.5	79.3	0	-1.33 >>>	>>>	>>>	>>>	
MGP0002R	9:24	10/10/2023	0.4	15.1	12	72.5	0	-0.09 >>>	>>>	>>>	>>>	
MGP00007	9:37	10/10/2023	0	3.6	16.7	79.7	0	-0.05 >>>	>>>	>>>	>>>	
MGP00008	9:49	10/10/2023	0	3.7	17.3	79	0	0.04 >>>	>>>	>>>	>>>	
MGP00009	9:59	10/10/2023	0	4.2	16.7	79.1	0	-0.04 >>>	>>>	>>>	>>>	
MGP00001	10:08	10/10/2023	0	4.6	2.7	92.7	0	0.01 >>>	>>>	>>>	>>>	
MGP00006	10:20	10/10/2023	0	0.8	20.1	79.1	0	-0.02 >>>	>>>	>>>	>>>	
MGP00011	10:30	10/10/2023	0	0.3	20.4	79.3	0	-2.57 >>>	>>>	>>>	>>>	
MGP00005	10:39	10/10/2023	0	2.4	18.6	79	0	0 >>>	>>>	>>>	>>>	
MGP00010	10:48	10/10/2023	0	5.2	16.6	78.2	0	0 >>>	>>>	>>>	>>>	
MGP00003	10:59	10/10/2023	0	10.3	10.8	78.9	0	0 >>>	>>>	>>>	>>>	

Mica Landfill Gas Measurements

Tech: CC

Date: 11/3/2023

Temp: 46-51F

Weather: Cloudy

Baro. Pres: 29.98 @ 800

Qualifier: Falling

Gas Extraction Monitoring Data

Filename: MP231103.xlsx

Inst. Used: Landtec Gem 500 # 547

Time Gem Calib: 1130

Time Gem Checked: n/a

Baro. Pres: 29.95 @ 1345

Code	Time	Date	CH4	CO2	O2	Bal	Static Pre:	Different	Temp:	Referer:	Adjus	Valve	Pos:	Comments
MGP00012	11:40	11/3/2023	0	1.1	19.6	79.3	0	-3.51	>>>	>>>	>>>	>>>		
MGP0002R	11:51	11/3/2023	0.9	17.8	6.2	75.1	0	-0.06	>>>	>>>	>>>	>>>		
MGP00007	11:58	11/3/2023	0	3.8	16.7	79.5	0	-0.32	>>>	>>>	>>>	>>>		
MGP00008	12:06	11/3/2023	0	3.8	17.4	78.8	0	-0.28	>>>	>>>	>>>	>>>		
MGP00009	12:14	11/3/2023	0	3.4	18.1	78.5	0	-0.12	>>>	>>>	>>>	>>>		
MGP00001	12:24	11/3/2023	0	5.3	0.1	94.6	0	0	>>>	>>>	>>>	>>>		
MGP00006	12:34	11/3/2023	0	0.7	20.1	79.2	0	0	>>>	>>>	>>>	>>>		
MGP00011	12:44	11/3/2023	0	0.5	20.2	79.3	0	-1.67	>>>	>>>	>>>	>>>		
MGP00005	12:50	11/3/2023	0	1.7	19.1	79.2	0	0	>>>	>>>	>>>	>>>		
MGP00010	12:58	11/3/2023	0	4.2	17.3	78.5	0	0	>>>	>>>	>>>	>>>		
MGP00003	13:05	11/3/2023	>>>	>>>	>>>	>>>	>>>	>>>	>>>	>>>	>>>	>>>		GW in screen no sample

Mica Landfill Gas Measurements

Tech: CC

Date: 12/5/2023

Temp: 48F

Weather: Rain

Baro. Pres: 29.83 @ 800

Qualifier: Steady

Gas Extraction Monitoring Data

Filename: MP231205.xlsx

Inst. Used: Landtec Gem 500 # 547

Time Gem Calib: 830

Time Gem Checked: n/a

Baro. Pres: 29.83 @ 1145

Code	Time	Date	CH4	CO2	O2	Bal	Static Pre:	Different Temp:	Refere:	Adjus	Valve Pos:	Comments
MGP00012	8:44	12/5/2023	0	1.2		19.4	79.4	0	-1.85 >>>	>>>	>>>	>>>
MGP0002R	8:51	12/5/2023	1	17.7		5.6	75.7	0	-0.06 >>>	>>>	>>>	>>>
MGP00007	9:02	12/5/2023	0	4		16.7	79.3	0	-0.12 >>>	>>>	>>>	>>>
MGP00008	9:26	12/5/2023	0	3.3		17.8	78.9	0	-0.06 >>>	>>>	>>>	>>>
MGP00009	9:37	12/5/2023	0	3		18.2	78.8	0	-0.08 >>>	>>>	>>>	>>>
MGP00001	9:43	12/5/2023	>>>	>>>		>>>	>>>	>>>	>>>	>>>	>>>	GW in screen, no sample.
MGP00006	9:53	12/5/2023	0	1		19.8	79.2	0	-0.01 >>>	>>>	>>>	>>>
MGP00011	10:05	12/5/2023	0	0.6		19.9	79.5	0	-1.1 >>>	>>>	>>>	>>>
MGP00005	10:14	12/5/2023	0	2		18.9	79.1	0	0 >>>	>>>	>>>	>>>
MGP00010	11:03	12/5/2023	0	4.1		17.4	78.5	0	0 >>>	>>>	>>>	>>>
MGP00003	11:10	12/5/2023	>>>	>>>		>>>	>>>	>>>	>>>	>>>	>>>	GW in screen, no sample.