

March 17, 2023

Mr. Glenn May
New York State Department of Environmental Conservation, Region 9
Division of Environmental Remediation
270 Michigan Avenue
Buffalo, New York 14203-2999

Subject: 02/15/22 – 02/15/23 PERIODIC REVIEW REPORT
Chem-Trol Site, Registry No. 9-15-015,
Blasdell, Erie County

Dear Mr. May:

AECOM Technical Services, Inc. (AECOM), on behalf of SC Holdings, Inc. (SC Holdings), is submitting this Periodic Review Report (PRR) along with a completed Institutional Controls and Engineering Controls (IC/EC) Certification Form (Attachment A) for the Chem-Trol site for the reporting period of February 15, 2022, to February 15, 2023¹. This report is being submitted as requested by the New York State Department of Environmental Conservation (NYSDEC) in its letter dated January 3, 2023, to Mr. Ryan Donovan. The letter provides guidance for preparing the PRR and IC/EC form and requires that they be submitted to NYSDEC no later than March 17, 2023.

I. INTRODUCTION

The Chem-Trol site is located at 4818 Lake Avenue, Town of Hamburg, in Erie County, New York. Chem-Trol Pollution Services (Chem-Trol) purchased the property in 1969 and operated the site as a waste chemical processing facility that included chemical recovery, storage, and neutralization. Wastes, including capacitors, pesticides, oil sludges, paint sludges, spent solvents and pickle liquors, were accepted at the facility for processing. The facility ceased operations in 1972.

As a result of historic waste processing activities, on-site soil and groundwater were impacted with heavy metals and volatile organic compounds (VOCs). In 1977, as part of the facility closure activities, Chem-Trol removed approximately 95 cubic yards of contaminated soils, placed clean soil cover and established vegetative cover over the area.

Investigative studies led to a Record of Decision (ROD) in 1996 that specified additional remedial activities. These included removal of additional soils, and construction of a soil vapor extraction (SVE) system and groundwater collection and treatment system. The SVE system includes a header

¹ Note that the February 2023 effluent monitoring sample was collected on February 8, 2023, and is reported herein; the February 2023 sample data are also included in Figure 6.

pipe and eight subsurface laterals installed in a linear array within the area of remediated soils. The groundwater collection and treatment system includes a blast-fractured bedrock trench in which three groundwater collection wells are installed, conveyance piping, and a shallow tray air stripper that removes VOCs from the collected groundwater. The treated groundwater is discharged through a pipe to the South Branch of Smokes Creek.

The SVE system and the groundwater collection and treatment system continue to operate. During 2010, McMahon & Mann Consulting Engineers, PC (MMCE) evaluated the effectiveness of passive operation of the SVE system in removing soil vapors. Subsequently, the SVE system was converted from active to passive operation in 2010. A copy of the SVE system evaluation letter report was included as Attachment B in the 2010 PRR.

II. SITE OVERVIEW

The Chem-Trol site is situated in an urban setting with industrial/commercial areas to the north and east, commercial development along Lake Avenue to the south, and residential areas to the west, across the South Branch of Smokes Creek. Figure 1 shows the Chem-Trol site location and features.

Investigations completed between 1991 and 1994 showed contaminated soils generally located in the former operations and surface lagoon areas. Additional soil contamination was found in the on-site tributary of Smokes Creek as well as the flood plain along the western edge of the site. Contaminated groundwater was found in the overburden as well as the shallow bedrock beneath the site. Groundwater contours developed as part of the investigations show that groundwater flows in a northwesterly direction beneath the site toward the South Branch of Smokes Creek.

Because of the on-site contamination, the Chem-Trol site was assigned a hazardous waste site classification of 2 by NYSDEC. This classification indicates that the site poses a significant threat to public health and/or the environment and that action in the form of further investigations and remediation is required.

NYSDEC selected a remedial design based upon the results of the Remedial Investigation/Feasibility Study (RI/FS) for the Chem-Trol site. The March 1996 ROD selected a remedy that included:

- Excavation of soils and sediments from selected areas of the site;
- Installation of a groundwater collection trench along the western edge of the site;
- Improvement of the existing soil cover over the former chemical processing area; and,
- Installation of a SVE system within the former waste chemical processing area.

Pre-design investigations and remedial design were completed between 1997 and 2000. Construction of the ROD-required remedial components was completed between 1999 and 2001. Operation, maintenance and monitoring of the remedial components began in 2001. In December 2004, the Chem-Trol site was re-classified to a class 4 site by NYSDEC. This classification indicates that remedial actions taken at the site to eliminate significant threats to public health and the environment have been properly constructed and implemented, and long-term operation, maintenance and monitoring of the in-place remedial systems is necessary to assure remedy effectiveness.

Goals for the remedial program were established through the remediation selection process given in 6 NYCRR 375-1.10. The remediation goals established for this site include:

- Reduce and remove chemical contamination in the soils, sediments and groundwater at the site;
- Eliminate the potential for direct human or animal contact with the contaminated soils, sediments, and groundwaters at the site;
- Prevent migration of contaminants in the on-site soils into the groundwater;
- Prevent off-site migration of contaminated groundwater and mitigate the impacts of contaminated groundwater to the environment; and,
- Provide for attainment of Soil Cleanup Guidelines (SCG) for groundwater quality to the extent practical.

III. REMEDY PERFORMANCE, EFFECTIVENESS AND PROTECTIVENESS

SC Holdings continues to monitor the performance of the SVE and groundwater collection and treatment system.

SVE System

SC Holdings submitted a work plan to NYSDEC on October 22, 2009, proposing conversion of the active system to a passive venting system and monitoring the performance of the passive system for a year. NYSDEC authorized the conversion to a passive system along with monthly monitoring. The SVE treatment system was converted from active to passive operation in January 2010.

After a year of monitoring, SC Holdings submitted a report describing the monitoring results as indicating that passive operation of the SVE system provides similar and possibly improved effectiveness as active operation of the SVE system in venting soil vapors. Water level data in the passive vent risers indicated that passive venting might also contribute to generally lower water levels in the laterals for a longer period of time over the course of the year and therefore provide a greater opportunity to vent soil vapors.

It was recommended that active operation of the SVE system permanently cease and that passive operation of the SVE system laterals continue. In addition, it was recommended that continued monitoring of the SVE system laterals be eliminated. NYSDEC agreed with these recommendations in a letter to Mr. Mark Snyder dated May 29, 2011.

During this reporting period, the SVE system continued to operate passively. The lateral riser pipes were visually examined for damage during quarterly site visits. No damage was observed during these site visits.

Groundwater Collection and Treatment System

SC Holdings has the following actions performed by AECOM (items 1 through 6) to monitor the performance of the groundwater collection system as required in the ROD:

1. Perform monthly operation and maintenance tasks on the system;
2. Perform periodic cleaning of the air stripper on an every-other-month schedule, including visual check of seals and removal of mineral accumulation in air stripper trays using mechanical means (scrubbing, re-drilling holes to full diameter, etc.);
3. Sample and analyze the groundwater collection and treatment system influent and effluent monthly for a site-specific list of 10 VOCs, Total Iron, Total Suspended Solids (TSS), and pH;
4. Measure and record water levels in groundwater extraction wells and groundwater monitoring wells on a quarterly basis;
5. Prepare bedrock groundwater contours based on quarterly water level measurements collected during the year; and,
6. Obtain annual groundwater samples for VOCs from six groundwater monitoring wells.

Effluent from the groundwater collection and treatment system (air stripper) discharges into the South Branch of Smokes Creek. Monthly aqueous effluent samples taken from the air stripper surface water discharge pipe are analyzed for surface water discharge parameter limit concentrations including VOCs by EPA Method 624.1, Total Iron by EPA Method 200.7, TSS by Standard Method (SM) 2540D, and pH by SM 4500 H+ B. Analytical test results show that discharge parameter concentrations in the air stripper effluent for March 2022 through February 2023 were below the concentration and mass loading discharge limits established by NYSDEC for 11 of 12 months; o-chlorotoluene (OCT) exceeded the concentration limit in the May 2022 sample based on concentration but not on mass loading. Response actions for this event are presented in Section IV. Details for the event follow:

- May 2022 effluent sample – There was an OCT detection of 110 micrograms per liter ($\mu\text{g/L}$) (vs. the concentration limit of 10 $\mu\text{g/L}$). Mass loading of OCT was 0.0045 pounds per day (lbs/day) which was below the effluent criterion of 0.012 lbs/day. On June 7, 2022, AECOM performed pressure washing and mechanical cleaning of the air stripper. The system was sampled on June 15, 2022; analytical data were received on June 27, 2022. There were no exceedances of the concentration or mass loading limits for any parameter in the effluent samples from the June 15, 2022, sampling event.

Analytical test results for the monthly aqueous effluent samples are included in the Operation and Maintenance (O&M) reports submitted by AECOM to NYSDEC on a quarterly basis; results from the January and February 2023 samples will be reported with the March 2023 sample data not later than April 15, 2023.

Monthly testing of the air stripper exhaust discharge (vapor phase) samples ceased after April 2011. Monthly testing was eliminated based upon a letter from Al Zylinski, NYSDEC Division of Air Resources, to MMCE (consultant to SC Holdings) dated April 6, 2011. The letter approved elimination of sampling and testing of the air stripper exhaust.

In October 2020, a Sensaphone remote monitoring system was installed for the groundwater treatment system. The Sensaphone system automatically notifies AECOM personnel when power to the site is lost, and when pumps or the blower become non-operational so that a service visit can be scheduled and minimize downtime of the system.

A summary of quarterly groundwater elevations measured in the groundwater monitoring wells and piezometers during 2022 is included in Table 1 - Summary of Groundwater Elevation Measurements. Quarterly groundwater elevation contours for 2022 are plotted on Figures 2 through 5. First quarter 2023 groundwater elevation data are scheduled to be collected in March 2023 and will be included in the 2023/2024 PRR.

The contours show that the three extraction wells depress water levels in the trench below natural groundwater levels in that area of the site. The resulting depression in the groundwater table creates groundwater flow toward the collection trench. The measurements demonstrate that the collection trench is functioning as designed to restrict offsite flow and limit groundwater discharge to the South Branch of Smokes Creek.

VOC analytical test results of groundwater treatment system influent samples have historically shown o-chlorotoluene levels in higher concentrations than other organic compounds. Therefore, concentrations of o-chlorotoluene detected in groundwater treatment influent samples have been used to assess the performance of the treatment system in reducing organic compound concentrations in the groundwater. The o-chlorotoluene concentration data for influent groundwater samples was plotted versus time for the January 2003 through February 2023 sampling events (see Figure 6). The plot shows that the concentration of o-chlorotoluene in the influent groundwater samples has been reduced since initiation of treatment system operation. This indicates that the treatment system is meeting the remedial goal of reducing organic compound concentrations in the groundwater.

A comparison of the influent and effluent sample analytical results shows that the air stripper is effectively removing VOCs from the groundwater collected by the treatment system.

Annual Groundwater Monitoring

Annual groundwater monitoring was conducted by AECOM field personnel on October 20, 2022. Groundwater samples were successfully collected from MW-3S, MW-7R, MW-8R, MW-9R, MW-13R, and MW-15R and analyzed by Eurofins Environment Testing. (Amherst, NY) for VOCs by EPA Method 8260C. A summary of VOC detections for the annual 2022 groundwater-monitoring event is included as Table 2, Detection Summary. The complete 2022 groundwater sample analytical laboratory report is included as Attachment B. Historical concentration versus time trend plots for monitoring wells MW-3S, MW-8R, MW-9R, and MW-13R are included as Attachment C.

IV. O&M PLAN COMPLIANCE

SC Holdings performed the following activities as part of the O&M Plan requirements:

Soil Vapor Extraction System

AECOM performed the following activity in 2022 as part of quarterly visits to the site:

- Visually observed each SVE passive vent riser for damage.

Groundwater Collection and Treatment System

AECOM performed the following activities in 2022 and January and February 2023 as part of routine monthly O&M visits:

- Verified that each extraction well was running and performing as designed;
- Observed that each pump was operating, documented pumping rates, total gallons pumped and insured that high and low water controls are functioning as designed;
- Performed monthly influent and effluent sample analytical testing;
- Observed that the air stripper was performing as designed;
- Performed monthly inspections of air stripper trays;
- Performed quarterly cleaning of air stripper trays to remove accumulated iron precipitate or more often if necessary to promote optimum removal of VOCs; and,
- Prepared and submitted 2022 O&M reports on a quarterly basis to NYSDEC.

The quarterly O&M reports submitted to NYSDEC provide further details on specific activities performed, analytical testing results, and observations made during the routine monthly O&M visits. Routine activities include general inspection and maintenance work performed on pumps, equipment, and sensors, as described in the monthly O&M reports.

In addition, the following non-routine maintenance activities were also performed and reported in the respective quarterly O&M reports this reporting period:

- October 21, 2022 - Matrix performed a maintenance visit and replaced the pump for EW-1 that had been on order since October 2021. The pump had been ordered scheduled for March 2022 but was delayed until October due to supply chain issues.

In a letter dated June 14, 2022, NYSDEC approved the 02/15/21-02/15/22 PRR and associated IC/EC Certification.

V. CONCLUSIONS AND RECOMMENDATIONS

Groundwater Collection and Treatment

A comparison of the monthly influent vs. effluent analytical test results shows that the groundwater collection and treatment system continues to remove contaminants from groundwater at the Chem-Trol site. A plot of the influent o-chlorotoluene concentration versus time (see Figure 6) indicates that the source contributing to groundwater VOC concentrations has been reduced to where its influence on groundwater has decreased over time. A relatively gradual increase from May 2016 through February 2023 has been observed, with concentrations remaining well below earlier levels. This trend will continue to be monitored.

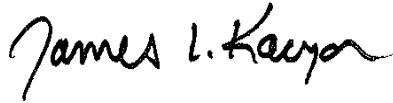
The quarterly groundwater elevation data show that the groundwater collection system continues to contain groundwater contaminants and creates a gradient toward the groundwater collection wells and away from the South Branch of Smokes Creek.

Given the substantial data set developed for the groundwater recovery and treatment system over the last 20 years and given the demonstrated stable performance of the system in recent years, a reduction in periodic monitoring requirements is proposed. The proposed reductions are:

- Treated groundwater influent and effluent sampling – reduce required monitoring of parameters (VOCs, TSS, total iron) from monthly to every-other month. System cleanings would be performed on non-sample months to ensure a site visit is made and monitor operation of the system. It is proposed that system sampling and inspection be performed in odd-numbered months and system cleaning and inspection be performed in even-numbered months. With this proposed schedule, site visits to monitor system operation would still be made on a monthly basis, and if an unanticipated power loss or equipment shutdown occurs, the Sensaphone system will still send a notification and a site visit to respond to the notification will be made.
- Annual groundwater monitoring – reduce required monitoring of the six wells from annual to bi-annual (every-other-year). Upgradient well MW-7R historically has no detections; downgradient well MW-15R historically has no site-related detections; and long-term concentration trends for wells MW-8R, MW-9R, MW-13R are stable within a limited range. MW-3S, located in the overburden upgradient of the bedrock collection trench, has also had a stable concentration over time. Given the stability of these parameters, bi-annual sampling would continue to provide an adequate assessment of the stability of the groundwater recovery and treatment system.
- Groundwater level gauging – reduce from quarterly to semi-annually in April and October. Groundwater contour figures would be prepared and submitted with the monitoring reports.
- Periodic reporting – The current monthly system sampling, inspection, and operating parameters are currently reported on a quarterly basis. Groundwater contour figures are typically not included in these reports. A change to semi-annual reporting is proposed, to include system sampling, inspections, and groundwater contours for the reporting period. The first semi-annual report would be submitted in the month of July for the time period January through June and the PRR would constitute the second semi-annual report.

Please call the undersigned at AECOM (716-923-1300) or Mr. Ryan Donovan (413-275-1522) if you have any questions or require any additional information after reviewing this report.

Sincerely yours,



James L. Kaczor, P.G.
Project Manager
james.kaczor@aecom.com

Enclosures (Tables, Figures)

Attachments (IC/EC Form, 2022 Annual Groundwater Data Report, Historical Trend Plots)

cc: Ryan Donovan (SC Holdings, Inc.), electronic copy w/attachments
Carsten Floess, P.E. (AECOM), electronic copy w/attachments
60652207 Project File

TABLES

Table 1: Summary of Groundwater Elevations – 2022

Table 2: Groundwater Sample Detection Summary – 2022

Table 1
Chem-Trol Site, Blasdell, NY
Chemtrol: 2022 Quarterly Ground Water Elevations

Pumping Wells		1Q Date		2Q Date		3Q Date		4Q Date	
		3/15/2022		6/21/2022		10/27/2022		12/14/2022	
Well ID	Monitoring Point (TIC)	Depth To Water (ft)	1st Quarter Elevation (ft)	Depth To Water (ft)	2nd Quarter Elevation (ft)	Depth To Water (ft)	3rd Quarter Elevation (ft)	Depth To Water (ft)	4th Quarter Elevation (ft)
EW-1	624.07	12.09	611.98	14.63	609.44	17.06	607.01	23.04	601.03
EW-2	622.16	13.04	609.12	14.34	607.82	13.66	608.50	13.47	608.69
EW-3	621.10	12.90	608.20	15.13	605.97	14.82	606.28	11.70	609.40

East of Cap (North to South)

Well ID	Monitoring Point (TIC)	Depth To Water (ft)	1st Quarter Elevation (ft)	Depth To Water (ft)	2nd Quarter Elevation (ft)	Depth To Water (ft)	3rd Quarter Elevation (ft)	Depth To Water (ft)	4th Quarter Elevation (ft)
MW-6S	638.54	6.29	632.25	10.12	628.42	12.26	626.28	7.61	630.93
MW-6R	638.64	17.09	621.55	17.60	621.04	19.38	619.26	17.42	621.22
P-1S	642.80	4.30	638.50	6.53	636.27	6.55	636.25	5.02	637.78
MW-1R	645.36	6.21	639.15	8.32	637.04	8.34	637.02	6.91	638.45
MW-1S	645.40	4.41	640.99	7.29	638.11	7.46	637.94	4.98	640.42
MW-7S	642.85	3.00	639.85	7.22	635.63	9.84	633.01	4.22	638.63
MW-7R	642.28	4.51	637.77	6.34	635.94	6.97	635.31	5.19	637.09

Center of Cap (North to South)

Well ID	Monitoring Point (TIC)	Depth To Water (ft)	1st Quarter Elevation (ft)	Depth To Water (ft)	2nd Quarter Elevation (ft)	Depth To Water (ft)	3rd Quarter Elevation (ft)	Depth To Water (ft)	4th Quarter Elevation (ft)
P-5S	637.54	7.73	629.81	12.23	625.31	DRY	<624.05	9.13	628.41
P-5R	637.88	18.80	619.08	19.41	618.47	19.39	618.49	DRY	<618.80
MW-5S	636.28	10.59	625.69	12.61	623.67	12.94	623.34	10.87	625.41
P-2R	646.96	5.62	641.34	10.92	636.04	13.21	633.75	6.64	640.32
P-2S	646.44	7.64	638.80	9.63	636.81	9.89	636.55	8.34	638.10
MW-2S	644.85	5.39	639.46	7.65	637.20	7.65	637.20	5.99	638.86

West of Cap (North to South)

Well ID	Monitoring Point (TIC)	Depth To Water (ft)	1st Quarter Elevation (ft)	Depth To Water (ft)	2nd Quarter Elevation (ft)	Depth To Water (ft)	3rd Quarter Elevation (ft)	Depth To Water (ft)	4th Quarter Elevation (ft)
MW-4S	637.18	12.45	624.73	14.17	623.01	14.51	622.67	12.79	624.39
MW-4R	637.02	25.57	611.45	27.74	609.28	27.74	609.28	26.40	610.62
P-4S	636.54	14.40	622.14	15.66	620.88	15.49	621.05	14.54	622.00
MW-3S	637.64	16.16	621.48	17.22	620.42	17.28	620.36	15.86	621.78
P-3R	639.92	19.54	620.38	19.56	620.36	19.51	620.41	19.26	620.66
P-3S	639.46	18.29	621.17	18.91	620.55	19.13	620.33	18.26	621.20
OW-3R	638.78	22.55	616.23	23.73	615.05	24.28	614.50	22.61	616.17

West of Trench (North to South)

Well ID	Monitoring Point (TIC)	Depth To Water (ft)	1st Quarter Elevation (ft)	Depth To Water (ft)	2nd Quarter Elevation (ft)	Depth To Water (ft)	3rd Quarter Elevation (ft)	Depth To Water (ft)	4th Quarter Elevation (ft)
OW-1FR	620.42	8.75	611.67	10.94	609.48	11.16	609.26	9.69	610.73
P97-5	613.65	2.59	611.06	4.60	609.05	5.12	608.53	3.38	610.27
MW-10S	615.15	3.00	612.15	5.12	610.03	4.91	610.24	3.89	611.26
MW-10R	615.47	4.14	611.33	8.81	606.66	5.92	609.55	4.80	610.67
P97-4	614.8	3.40	611.40	5.51	609.29	5.71	609.09	4.28	610.52
MW-8S	617.28	5.85	611.43	6.89	610.39	5.62	611.66	6.66	610.62
MW-8R	617.38	5.95	611.43	8.08	609.30	7.52	609.86	6.81	610.57
P97-3	617.66	5.93	611.73	8.22	609.44	8.54	609.12	6.92	610.74
MW-9RD	619.13	8.10	611.03	6.93	612.20	6.83	612.30	7.63	611.50
MW-9R	619.17	7.11	612.06	9.58	609.59	10.13	609.04	8.24	610.93
MW-9S	619.91	7.68	612.23	10.42	609.49	DRY	<609.55	8.76	611.15
OW-2FR	624.14	11.91	612.23	12.96	611.18	DRY	<611.21	12.94	611.20
P97-2	619.07	6.71	612.36	8.37	610.70	8.59	610.48	7.38	611.69
P97-1	619.97	6.75	613.22	8.49	611.48	8.38	611.59	7.06	612.91
MW-12R	621.59	7.39	614.20	9.44	612.15	11.40	610.19	8.84	612.75
MW-12S	621.17	3.98	617.19	8.37	612.80	7.03	614.14	4.65	616.52

West of Smokes Creek (North to South)

Well ID	Monitoring Point (TIC)	Depth To Water (ft)	1st Quarter Elevation (ft)	Depth To Water (ft)	2nd Quarter Elevation (ft)	Depth To Water (ft)	3rd Quarter Elevation (ft)	Depth To Water (ft)	4th Quarter Elevation (ft)
MW-13R	615.14	4.58	610.56	6.60	608.54	6.07	609.07	4.81	610.33
MW-14R	618.55	4.47	614.08	5.12	613.43	5.44	613.11	5.03	613.52

Table 2 Detection Summary

Client: Waste Management
Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-203054-1

No Detections.

Client Sample ID: DUP-20221020

Lab Sample ID: 480-203054-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	13		5.0		ug/L	1		8260C	Total/NA
Methylcyclohexane	6.6		5.0		ug/L	1		8260C	Total/NA
Xylenes, Total	17		15		ug/L	1		8260C	Total/NA

Client Sample ID: MW-13R

Lab Sample ID: 480-203054-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Chlorotoluene	1600		34		ug/L	40		8260C	Total/NA

Client Sample ID: MW-15R

Lab Sample ID: 480-203054-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	13		5.0		ug/L	1		8260C	Total/NA
Methylcyclohexane	7.2		5.0		ug/L	1		8260C	Total/NA
Xylenes, Total	17		15		ug/L	1		8260C	Total/NA

Client Sample ID: MW-3S

Lab Sample ID: 480-203054-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Chlorotoluene - DL	66000	F1	860		ug/L	1000		8260C	Total/NA

Client Sample ID: MW-7R

Lab Sample ID: 480-203054-6

No Detections.

Client Sample ID: MW-8R

Lab Sample ID: 480-203054-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Chlorotoluene	120		5.0		ug/L	4		8260C	Total/NA

Client Sample ID: MW-9R

Lab Sample ID: 480-203054-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	150		5.0		ug/L	4		8260C	Total/NA
1,1-Dichloroethane	300		5.0		ug/L	4		8260C	Total/NA
Chloroethane	47		5.0		ug/L	4		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

FIGURES

Figure 1: Site Plan

Figure 2: Bedrock Groundwater Contours – March 15, 2022

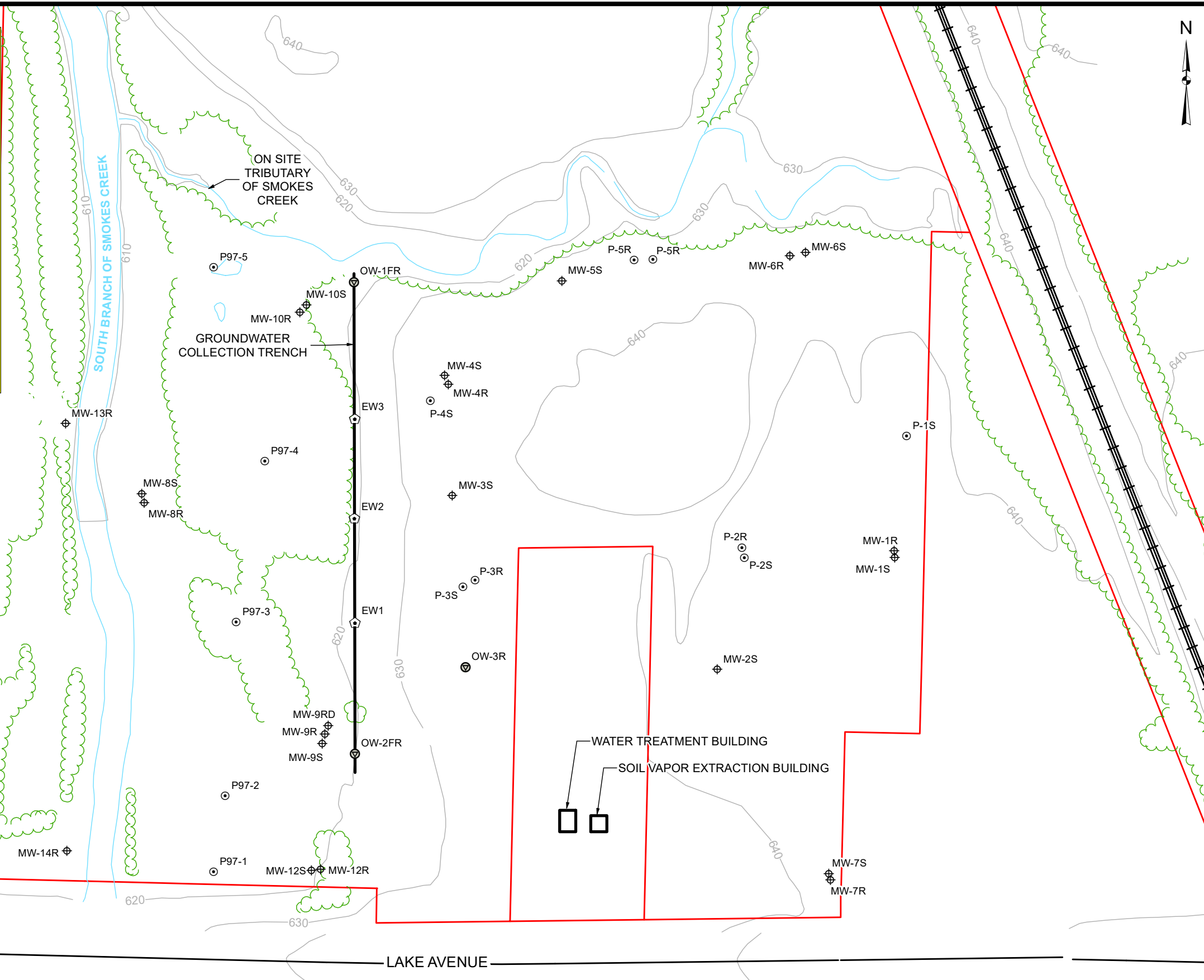
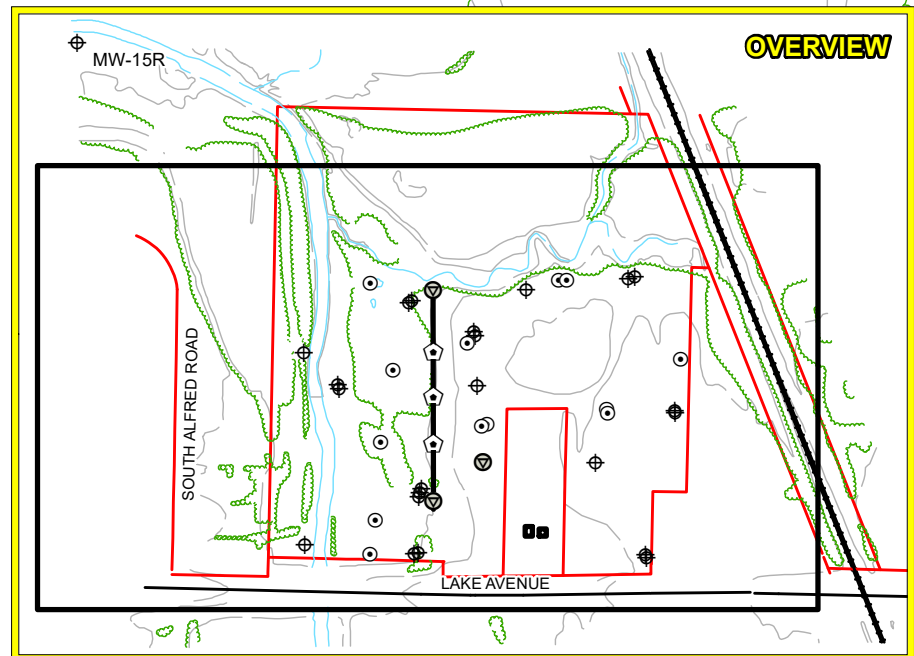
Figure 3: Bedrock Groundwater Contours – June 21, 2022

Figure 4: Bedrock Groundwater Contours – October 27, 2022

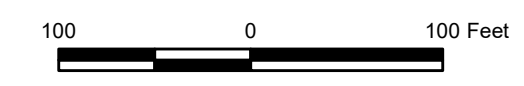
Figure 5: Bedrock Groundwater Contours – December 14, 2022

Figure 6: Influent o-Chlorotoluene Concentration 2003 – 02/08/23

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Legend	
	Extraction Well
	Monitoring Well
	Observation Well
	Piezometer
	Edge of Water
	Property Line
	Existing Ground Elevation Contour



CHEM-TROL SITE PLAN	
AECOM	FIGURE 1

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SOUTH ALFRED ROAD

SOUTH BRANCH OF SMOKES CREEK

ON SITE TRIBUTARY OF SMOKES CREEK

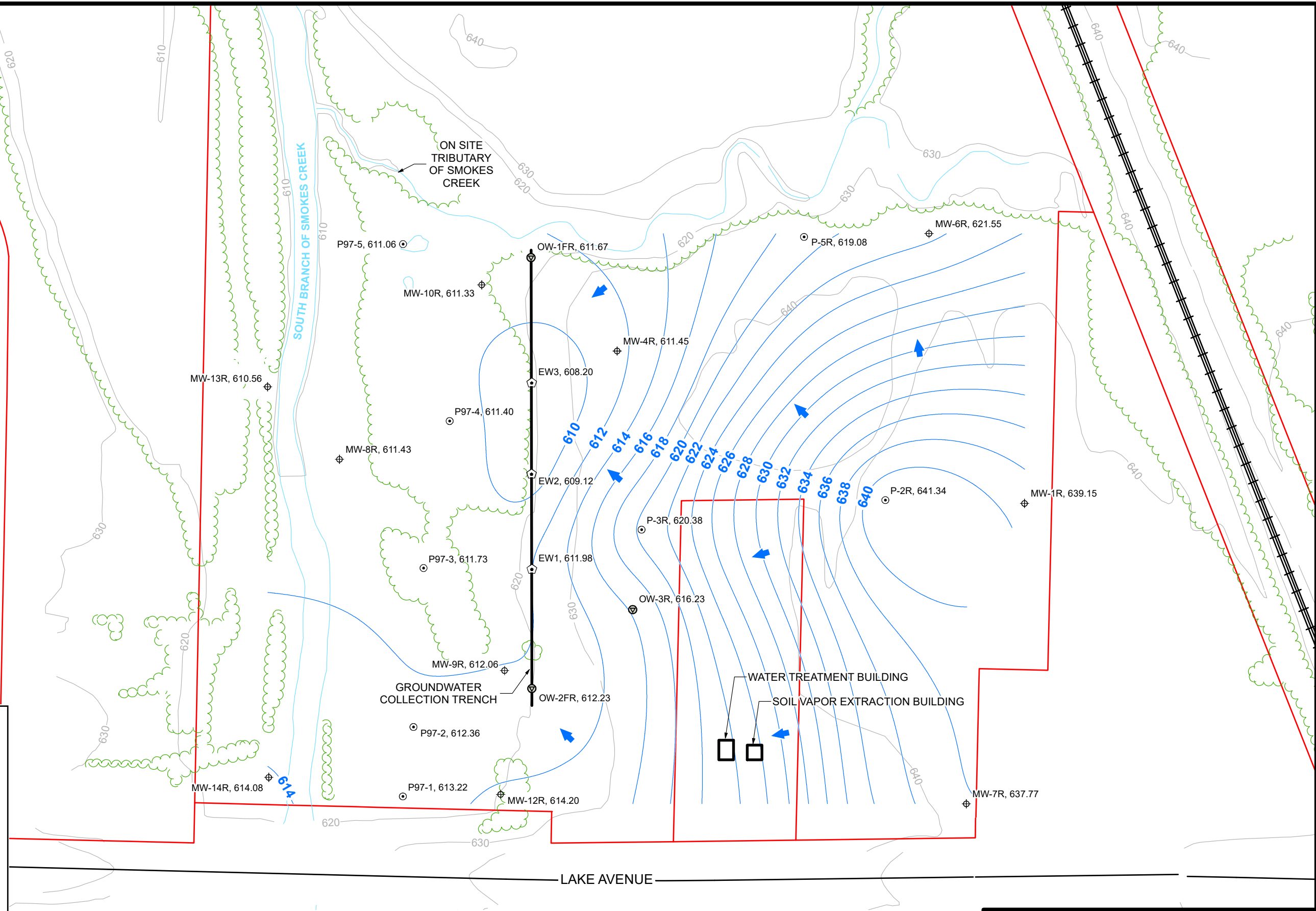
LAKE AVENUE

WATER TREATMENT BUILDING
SOIL VAPOR EXTRACTION BUILDING

Legend

- Extraction Well
- Monitoring Well
- Observation Well
- Piezometer
- Groundwater Flow Direction
- Groundwater Elevation Contour
- Edge of Water
- Property Line
- Existing Ground Elevation Contour

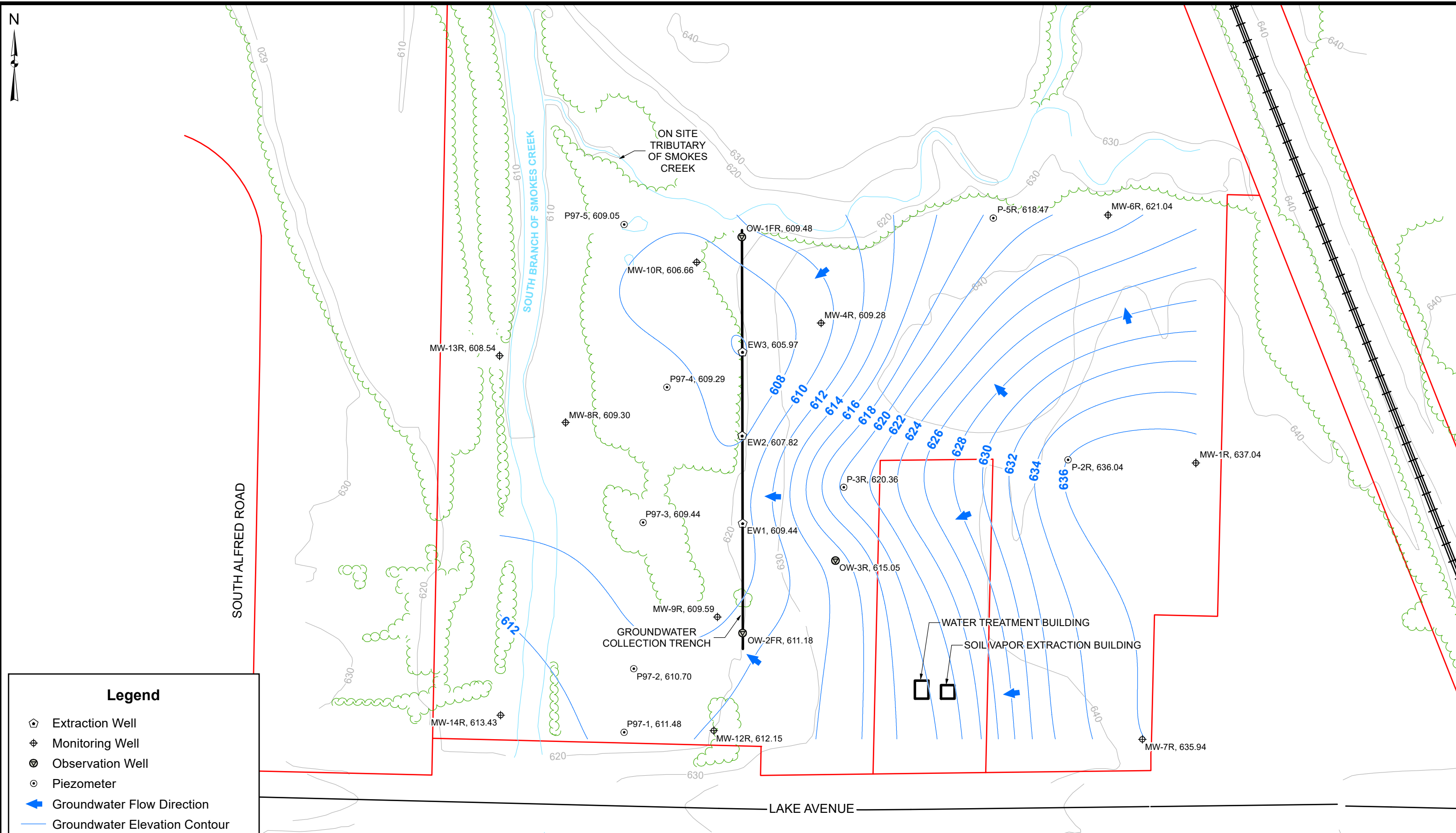
	MW-6R, 621.55
Location ID	Groundwater Elevation



**CHEM-TROL
BEDROCK GROUNDWATER CONTOURS
MARCH 15, 2022**

	FIGURE 2
--	----------

L:\DCS\Projects\60526520_ChmTr12017\900-CAD-GIS\920-GIS or Graphics\Arcmap\SECOND QUARTER 2022 GW CONTOURS.mxd 8/31/2022



Legend

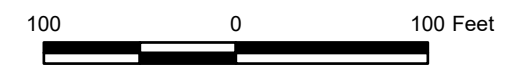
- Extraction Well
- Monitoring Well
- Observation Well
- Piezometer
- Groundwater Flow Direction
- Groundwater Elevation Contour
- Edge of Water
- Property Line
- Existing Ground Elevation Contour

MW-6R, 621.04	MW-6R, 621.04
Location ID	Groundwater Elevation

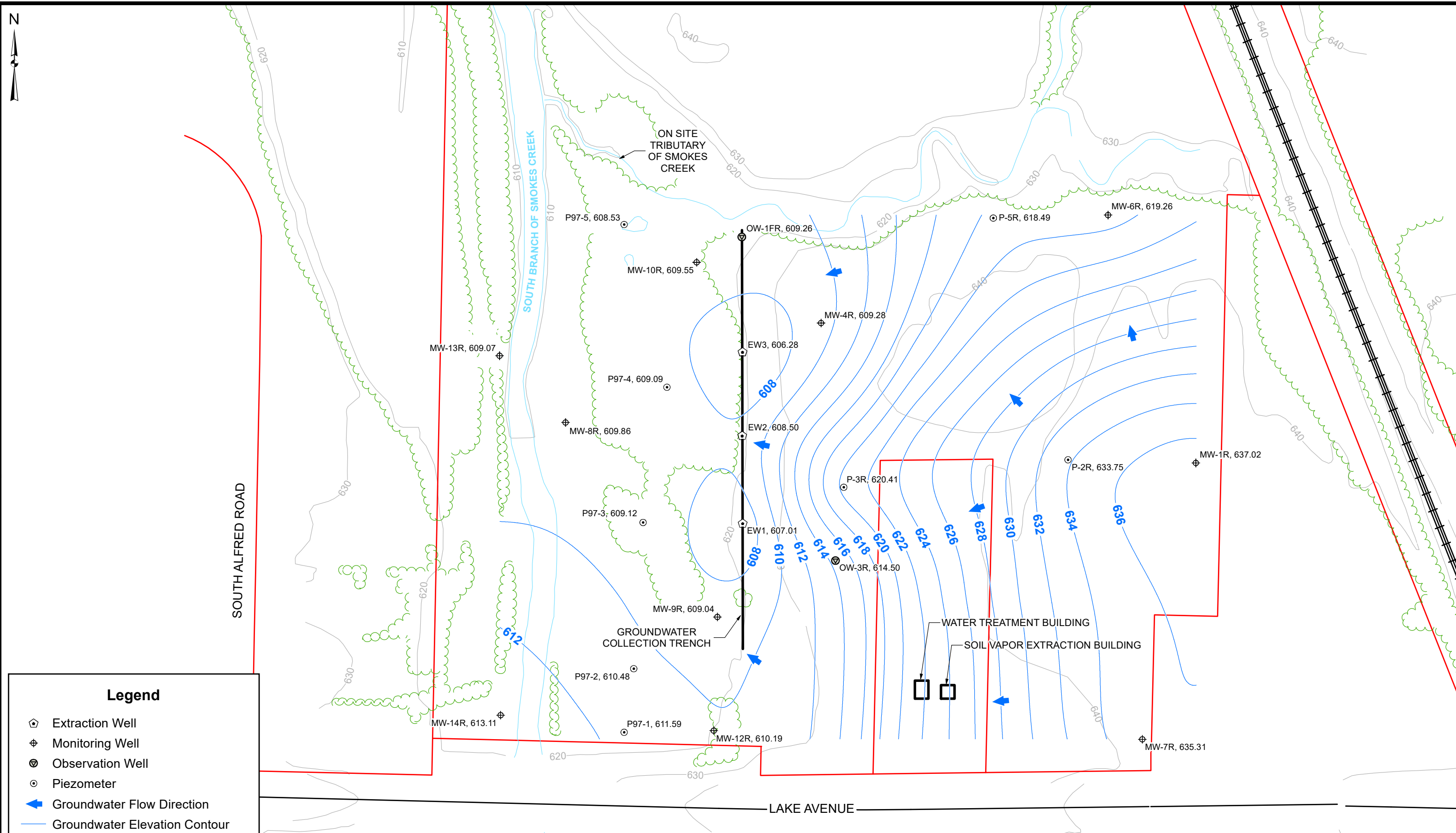
**CHEM-TROL
BEDROCK GROUNDWATER CONTOURS
JUNE 21, 2022**

AECOM

FIGURE 3



L:\DCS\Projects\60526520_ChmTr12017\900-CAD-GIS\920-GIS or Graphics\Arcmap\THIRD QUARTER 2022 GW CONTOURS.mxd 1/24/2023



Legend

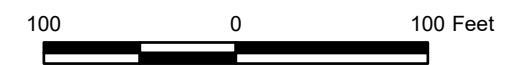
- ⊕ Extraction Well
- ⊕ Monitoring Well
- ⊙ Observation Well
- ⊙ Piezometer
- ➡ Groundwater Flow Direction
- Groundwater Elevation Contour
- Edge of Water
- Property Line
- Existing Ground Elevation Contour

Location ID	Groundwater Elevation
MW-6R, 619.26	⊕

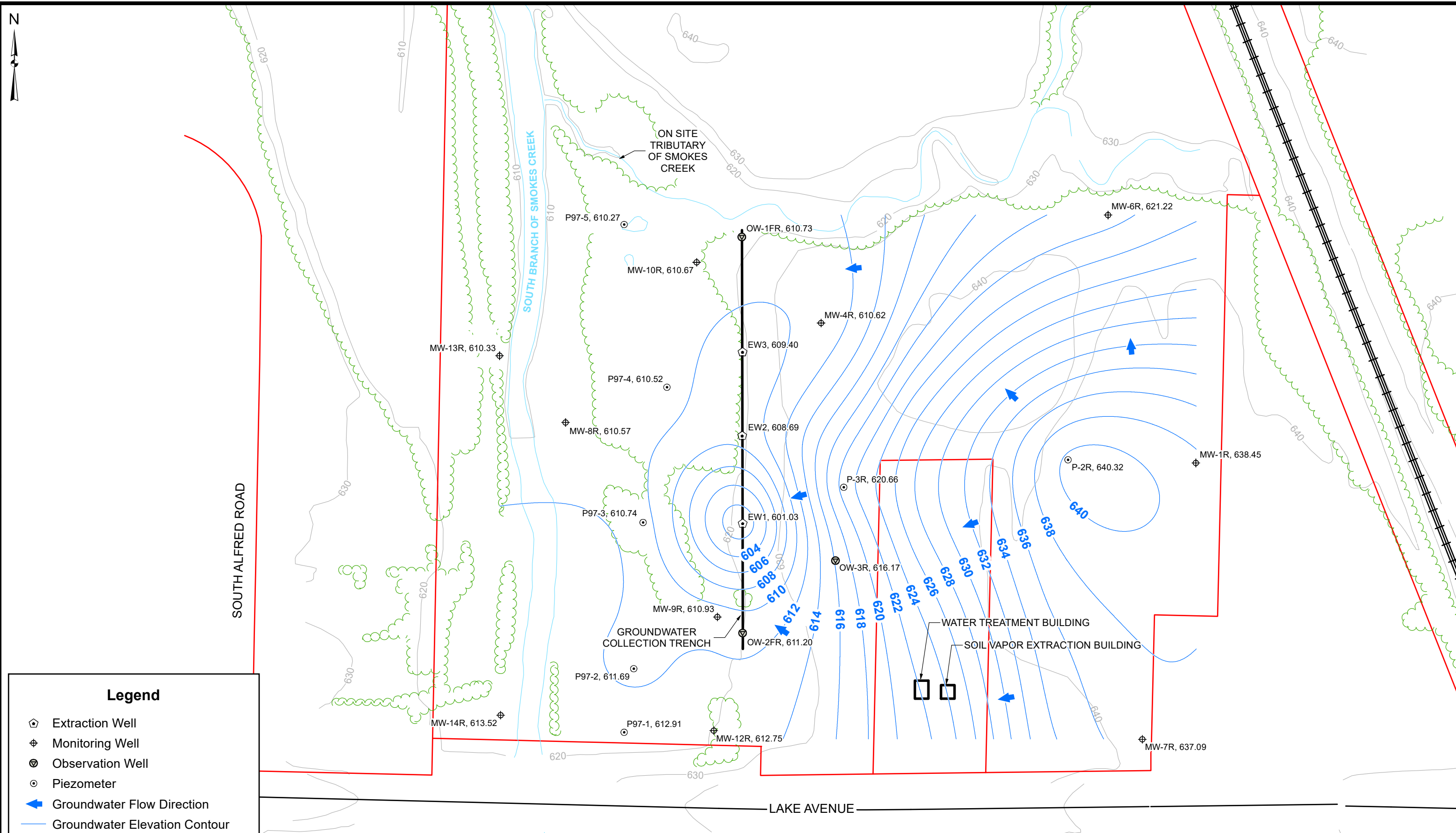
**CHEM-TROL
BEDROCK GROUNDWATER CONTOURS
OCTOBER 27, 2022**

AECOM

FIGURE 4



L:\DCS\Projects\60526520_ChmTr\2017\900-CAD-GIS\920-GIS or Graphics\Arcmap\Fourth Quarter 2022 GW CONTOURS.mxd 1/24/2023



Legend

- Extraction Well
- Monitoring Well
- Observation Well
- Piezometer
- Groundwater Flow Direction
- Groundwater Elevation Contour
- Edge of Water
- Property Line
- Existing Ground Elevation Contour

Location ID	Groundwater Elevation
MW-6R	619.26

**CHEM-TROL
BEDROCK GROUNDWATER CONTOURS
DECEMBER 14, 2022**

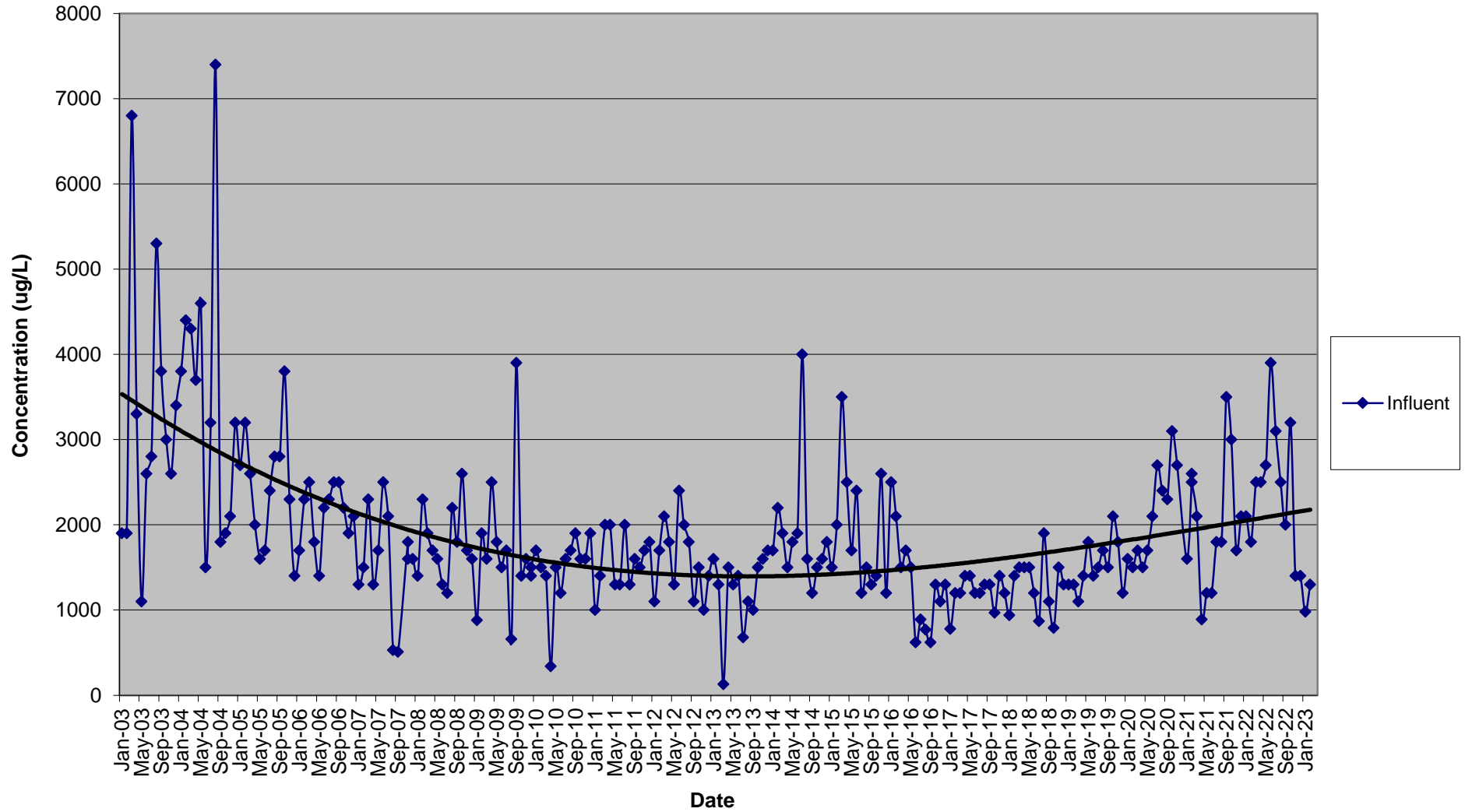
100 0 100 Feet

AECOM

FIGURE 5

FIGURE 6

Chem-Trol Groundwater Treatment System
Influent o-Chlorotoluene Concentration
January 2003 - February 2023



ATTACHMENT A

Completed IC/EC Form

Description of Institutional Controls

<u>Parcel</u>	<u>Owner</u>	<u>Institutional Control</u>
151.02-1-14.1	SC Holdings Inc./Waste Management	Ground Water Use Restriction
		Monitoring Plan O&M Plan Landuse Restriction
		Building Use Restriction

The controls identified in the Declaration of Covenants and Restrictions, recorded with Erie County on March 25, 2004, include but are not limited to the following: The owner of the Property shall maintain the cap covering the Property by maintaining its grass cover, or after obtaining written approval from the Relevant Agency, by capping the Property with another material. The property is prohibited from being used for purposes other than for industrial or commercial use, excluding use for day care, child care and medical care; the use of groundwater underlying the property is prohibited without treatment to render it safe for drinking water or industrial purposes, except that the groundwater may be reasonably used as necessary to conduct tests to monitor contamination levels of the groundwater. These restrictive covenants are binding and shall run with the land.

Description of Engineering Controls

<u>Parcel</u>	<u>Engineering Control</u>
151.02-1-14.1	Groundwater Treatment System Cover System Groundwater Containment Monitoring Wells Fencing/Access Control Leachate Collection

Remediation was completed in two phases consisting of Source Control Elements and Groundwater Control Elements. These elements are summarized as follows:

Source Control Elements:

1. Hot Spot Soils Removal.
2. Tributary Sediment Excavation/Disposal.
3. Site Soils Cover.
4. Soil Vapor Extraction. Passive state with one year evaluation starting January 2010. Passive state permanently approved on May 29, 2011.

Groundwater Control Elements:

1. Groundwater extraction from three extraction wells.
2. On-site groundwater treatment with discharge compliance monitoring.
2. Groundwater quality monitoring.

Groundwater intercept, extraction, treatment and discharge compliance monitoring. Periodic measuring of groundwater levels and plotting to develop groundwater contours and directional gradients. Annual groundwater quality monitoring to determine performance of remedy. Ongoing site management activities to continue with remedy and protection of public health and the environment.

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

(a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. 915015

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Ryan Donovan at 600 New Ludlow Road, South Hadley, MA 01175
print name print business address

am certifying as Owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Ryan Donovan

03/16/23

Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

Date

EC CERTIFICATIONS

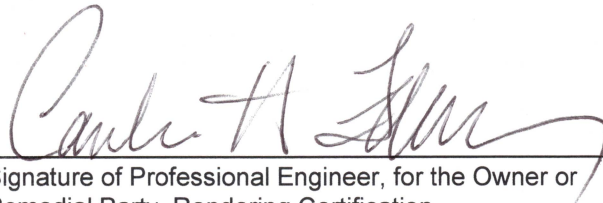
Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Carsten H. Floess, P.E. at 40 British American Blvd., Latham, NY 12110
print name print business address

am certifying as a Professional Engineer for the Owner
(Owner or Remedial Party)



Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification



Stamp
(Required for PE)

March 16, 2023
Date

ATTACHMENT B

2022 Annual Groundwater Sample Laboratory Report

ANALYTICAL REPORT

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-203054-1

Client Project/Site: ChemTrol Site - Annual Groundwater
Sampling Event: ChemTrol Annual Groundwater (9)

For:

Waste Management
600 New Ludlow Road
South Hadley, Massachusetts 01075

Attn: Ryan Donovan



Authorized for release by:

10/28/2022 1:19:45 PM

Judy Stone, Senior Project Manager
(484)685-0868

Judy.Stone@et.eurofinsus.com

Designee for

Ryan VanDette, Project Manager II
(716)504-9830

Ryan.VanDette@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



Table of Contents

Cover Page	1
Table of Contents	2
Definitions	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
QC Sample Results	22
QC Association	35
Chronicle	36
Certification Summary	38
Method Summary	39
Sample Summary	40
Chain of Custody	41

Definitions/Glossary

Client: Waste Management
Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Waste Management
Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Job ID: 480-203054-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative 480-203054-1

Comments

No additional comments.

Receipt

The samples were received on 10/21/2022 10:46 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 11.2° C.

GC/MS VOA

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-13R (480-203054-3), MW-3S (480-203054-5), (480-203054-B-5 MS), (480-203054-B-5 MSD), MW-8R (480-203054-7), MW-9R (480-203054-8), (480-203054-A-8 MS) and (480-203054-A-8 MSD). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-647035 recovered outside acceptance criteria, low biased, for Cyclohexane and Chloromethane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analytes, the data are reported. The associated samples are impacted: Trip Blank (480-203054-1), MW-13R (480-203054-3), MW-3S (480-203054-5) and MW-8R (480-203054-7).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-647035 recovered outside acceptance criteria, low biased, for Chloromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for the analyte, the data are reported.

Method 8260C: The continuing calibration verification (CCV) analyzed in batch 480-647035 was outside the method criteria for the following analyte: Cyclohexane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-647102 recovered above the upper control limit for Carbon tetrachloride, Cyclohexane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 2-Butanone (MEK), Trichlorofluoromethane, Acetone and 2-Hexanone. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-7R (480-203054-6), MW-9R (480-203054-8), (480-203054-A-8 MS) and (480-203054-A-8 MSD).

Method 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 480-647102 recovered outside control limits for the following analytes: 2-Hexanone and Acetone. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260C: The continuing calibration verification (CCV) analyzed in batch 480-647132 was outside the method criteria for the following analyte: Chloromethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method 8260C: The continuing calibration verification (CCV) analyzed in 480-647132 was outside the method criteria for the following analyte: 2-Butanone (MEK). As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-647132 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Waste Management
Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-203054-1

No Detections.

Client Sample ID: DUP-20221020

Lab Sample ID: 480-203054-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	13		5.0		ug/L	1		8260C	Total/NA
Methylcyclohexane	6.6		5.0		ug/L	1		8260C	Total/NA
Xylenes, Total	17		15		ug/L	1		8260C	Total/NA

Client Sample ID: MW-13R

Lab Sample ID: 480-203054-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Chlorotoluene	1600		34		ug/L	40		8260C	Total/NA

Client Sample ID: MW-15R

Lab Sample ID: 480-203054-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	13		5.0		ug/L	1		8260C	Total/NA
Methylcyclohexane	7.2		5.0		ug/L	1		8260C	Total/NA
Xylenes, Total	17		15		ug/L	1		8260C	Total/NA

Client Sample ID: MW-3S

Lab Sample ID: 480-203054-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Chlorotoluene - DL	66000	F1	860		ug/L	1000		8260C	Total/NA

Client Sample ID: MW-7R

Lab Sample ID: 480-203054-6

No Detections.

Client Sample ID: MW-8R

Lab Sample ID: 480-203054-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Chlorotoluene	120		5.0		ug/L	4		8260C	Total/NA

Client Sample ID: MW-9R

Lab Sample ID: 480-203054-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	150		5.0		ug/L	4		8260C	Total/NA
1,1-Dichloroethane	300		5.0		ug/L	4		8260C	Total/NA
Chloroethane	47		5.0		ug/L	4		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample Results

Client: Waste Management
 Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-203054-1

Date Collected: 10/20/22 00:00

Matrix: Water

Date Received: 10/21/22 10:46

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			10/26/22 02:35	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			10/26/22 02:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/L			10/26/22 02:35	1
1,1,2-Trichloroethane	ND		5.0		ug/L			10/26/22 02:35	1
1,1-Dichloroethane	ND		5.0		ug/L			10/26/22 02:35	1
1,2,4-Trichlorobenzene	ND		5.0		ug/L			10/26/22 02:35	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/26/22 02:35	1
1,2-Dibromoethane	ND		5.0		ug/L			10/26/22 02:35	1
1,2-Dichlorobenzene	ND		5.0		ug/L			10/26/22 02:35	1
1,2-Dichloroethane	ND		5.0		ug/L			10/26/22 02:35	1
1,2-Dichloropropane	ND		5.0		ug/L			10/26/22 02:35	1
1,3-Dichlorobenzene	ND		5.0		ug/L			10/26/22 02:35	1
1,4-Dichlorobenzene	ND		5.0		ug/L			10/26/22 02:35	1
2-Butanone (MEK)	ND		25		ug/L			10/26/22 02:35	1
o-Chlorotoluene	ND		5.0		ug/L			10/26/22 02:35	1
2-Hexanone	ND		25		ug/L			10/26/22 02:35	1
4-Methyl-2-pentanone (MIBK)	ND		25		ug/L			10/26/22 02:35	1
Acetone	ND		25		ug/L			10/26/22 02:35	1
Benzene	ND		5.0		ug/L			10/26/22 02:35	1
Bromoform	ND		5.0		ug/L			10/26/22 02:35	1
Bromomethane	ND		5.0		ug/L			10/26/22 02:35	1
Carbon disulfide	ND		5.0		ug/L			10/26/22 02:35	1
Carbon tetrachloride	ND		5.0		ug/L			10/26/22 02:35	1
Chlorobenzene	ND		5.0		ug/L			10/26/22 02:35	1
Chlorodibromomethane	ND		5.0		ug/L			10/26/22 02:35	1
Chloroethane	ND		5.0		ug/L			10/26/22 02:35	1
Chloroform	ND		5.0		ug/L			10/26/22 02:35	1
Chloromethane	ND		5.0		ug/L			10/26/22 02:35	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			10/26/22 02:35	1
cis-1,3-Dichloropropene	ND		5.0		ug/L			10/26/22 02:35	1
Cyclohexane	ND		5.0		ug/L			10/26/22 02:35	1
Bromodichloromethane	ND		5.0		ug/L			10/26/22 02:35	1
Dichlorofluoromethane	ND		5.0		ug/L			10/26/22 02:35	1
Ethylbenzene	ND		5.0		ug/L			10/26/22 02:35	1
Isopropylbenzene	ND		5.0		ug/L			10/26/22 02:35	1
Methyl acetate	ND		5.0		ug/L			10/26/22 02:35	1
Methyl tert-butyl ether	ND		5.0		ug/L			10/26/22 02:35	1
Methylcyclohexane	ND		5.0		ug/L			10/26/22 02:35	1
Methylene Chloride	ND		5.0		ug/L			10/26/22 02:35	1
Styrene	ND		5.0		ug/L			10/26/22 02:35	1
Tetrachloroethene	ND		5.0		ug/L			10/26/22 02:35	1
Toluene	ND		5.0		ug/L			10/26/22 02:35	1
trans-1,2-Dichloroethene	ND		5.0		ug/L			10/26/22 02:35	1
trans-1,3-Dichloropropene	ND		5.0		ug/L			10/26/22 02:35	1
Trichloroethene	ND		5.0		ug/L			10/26/22 02:35	1
Trichlorofluoromethane	ND		5.0		ug/L			10/26/22 02:35	1
Vinyl chloride	ND		5.0		ug/L			10/26/22 02:35	1
Xylenes, Total	ND		15		ug/L			10/26/22 02:35	1

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-203054-1

Date Collected: 10/20/22 00:00

Matrix: Water

Date Received: 10/21/22 10:46

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		10/26/22 02:35	1
Toluene-d8 (Surr)	99		80 - 120		10/26/22 02:35	1
4-Bromofluorobenzene (Surr)	101		73 - 120		10/26/22 02:35	1
Dibromofluoromethane (Surr)	108		75 - 123		10/26/22 02:35	1

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Client Sample ID: DUP-20221020

Lab Sample ID: 480-203054-2

Date Collected: 10/20/22 00:00

Matrix: Water

Date Received: 10/21/22 10:46

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			10/26/22 02:58	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			10/26/22 02:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/L			10/26/22 02:58	1
1,1,2-Trichloroethane	ND		5.0		ug/L			10/26/22 02:58	1
1,1-Dichloroethane	ND		5.0		ug/L			10/26/22 02:58	1
1,2,4-Trichlorobenzene	ND		5.0		ug/L			10/26/22 02:58	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/26/22 02:58	1
1,2-Dibromoethane	ND		5.0		ug/L			10/26/22 02:58	1
1,2-Dichlorobenzene	ND		5.0		ug/L			10/26/22 02:58	1
1,2-Dichloroethane	ND		5.0		ug/L			10/26/22 02:58	1
1,2-Dichloropropane	ND		5.0		ug/L			10/26/22 02:58	1
1,3-Dichlorobenzene	ND		5.0		ug/L			10/26/22 02:58	1
1,4-Dichlorobenzene	ND		5.0		ug/L			10/26/22 02:58	1
2-Butanone (MEK)	ND		25		ug/L			10/26/22 02:58	1
o-Chlorotoluene	ND		5.0		ug/L			10/26/22 02:58	1
2-Hexanone	ND		25		ug/L			10/26/22 02:58	1
4-Methyl-2-pentanone (MIBK)	ND		25		ug/L			10/26/22 02:58	1
Acetone	ND		25		ug/L			10/26/22 02:58	1
Benzene	ND		5.0		ug/L			10/26/22 02:58	1
Bromoform	ND		5.0		ug/L			10/26/22 02:58	1
Bromomethane	ND		5.0		ug/L			10/26/22 02:58	1
Carbon disulfide	ND		5.0		ug/L			10/26/22 02:58	1
Carbon tetrachloride	ND		5.0		ug/L			10/26/22 02:58	1
Chlorobenzene	ND		5.0		ug/L			10/26/22 02:58	1
Chlorodibromomethane	ND		5.0		ug/L			10/26/22 02:58	1
Chloroethane	ND		5.0		ug/L			10/26/22 02:58	1
Chloroform	ND		5.0		ug/L			10/26/22 02:58	1
Chloromethane	ND		5.0		ug/L			10/26/22 02:58	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			10/26/22 02:58	1
cis-1,3-Dichloropropene	ND		5.0		ug/L			10/26/22 02:58	1
Cyclohexane	13		5.0		ug/L			10/26/22 02:58	1
Bromodichloromethane	ND		5.0		ug/L			10/26/22 02:58	1
Dichlorofluoromethane	ND		5.0		ug/L			10/26/22 02:58	1
Ethylbenzene	ND		5.0		ug/L			10/26/22 02:58	1
Isopropylbenzene	ND		5.0		ug/L			10/26/22 02:58	1
Methyl acetate	ND		5.0		ug/L			10/26/22 02:58	1
Methyl tert-butyl ether	ND		5.0		ug/L			10/26/22 02:58	1
Methylcyclohexane	6.6		5.0		ug/L			10/26/22 02:58	1
Methylene Chloride	ND		5.0		ug/L			10/26/22 02:58	1
Styrene	ND		5.0		ug/L			10/26/22 02:58	1
Tetrachloroethene	ND		5.0		ug/L			10/26/22 02:58	1
Toluene	ND		5.0		ug/L			10/26/22 02:58	1
trans-1,2-Dichloroethene	ND		5.0		ug/L			10/26/22 02:58	1
trans-1,3-Dichloropropene	ND		5.0		ug/L			10/26/22 02:58	1
Trichloroethene	ND		5.0		ug/L			10/26/22 02:58	1
Trichlorofluoromethane	ND		5.0		ug/L			10/26/22 02:58	1
Vinyl chloride	ND		5.0		ug/L			10/26/22 02:58	1
Xylenes, Total	17		15		ug/L			10/26/22 02:58	1

Euromins Buffalo

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Client Sample ID: DUP-20221020

Lab Sample ID: 480-203054-2

Date Collected: 10/20/22 00:00

Matrix: Water

Date Received: 10/21/22 10:46

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
1,2-Dichloroethane-d4 (Surr)	112		77 - 120		10/26/22 02:58	1
Toluene-d8 (Surr)	100		80 - 120		10/26/22 02:58	1
4-Bromofluorobenzene (Surr)	105		73 - 120		10/26/22 02:58	1
Dibromofluoromethane (Surr)	106		75 - 123		10/26/22 02:58	1

Client Sample Results

Client: Waste Management
 Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Client Sample ID: MW-13R

Lab Sample ID: 480-203054-3

Date Collected: 10/20/22 12:36

Matrix: Water

Date Received: 10/21/22 10:46

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		33		ug/L			10/26/22 03:21	40
1,1,2,2-Tetrachloroethane	ND		8.4		ug/L			10/26/22 03:21	40
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12		ug/L			10/26/22 03:21	40
1,1,2-Trichloroethane	ND		9.2		ug/L			10/26/22 03:21	40
1,1-Dichloroethane	ND		15		ug/L			10/26/22 03:21	40
1,2,4-Trichlorobenzene	ND		16		ug/L			10/26/22 03:21	40
1,2-Dibromo-3-Chloropropane	ND		16		ug/L			10/26/22 03:21	40
1,2-Dibromoethane	ND		29		ug/L			10/26/22 03:21	40
1,2-Dichlorobenzene	ND		32		ug/L			10/26/22 03:21	40
1,2-Dichloroethane	ND		8.4		ug/L			10/26/22 03:21	40
1,2-Dichloropropane	ND		29		ug/L			10/26/22 03:21	40
1,3-Dichlorobenzene	ND		31		ug/L			10/26/22 03:21	40
1,4-Dichlorobenzene	ND		34		ug/L			10/26/22 03:21	40
2-Butanone (MEK)	ND		53		ug/L			10/26/22 03:21	40
o-Chlorotoluene	1600		34		ug/L			10/26/22 03:21	40
2-Hexanone	ND		50		ug/L			10/26/22 03:21	40
4-Methyl-2-pentanone (MIBK)	ND		84		ug/L			10/26/22 03:21	40
Acetone	ND		120		ug/L			10/26/22 03:21	40
Benzene	ND		16		ug/L			10/26/22 03:21	40
Bromoform	ND		10		ug/L			10/26/22 03:21	40
Bromomethane	ND		28		ug/L			10/26/22 03:21	40
Carbon disulfide	ND		7.6		ug/L			10/26/22 03:21	40
Carbon tetrachloride	ND		11		ug/L			10/26/22 03:21	40
Chlorobenzene	ND		30		ug/L			10/26/22 03:21	40
Chlorodibromomethane	ND		13		ug/L			10/26/22 03:21	40
Chloroethane	ND		13		ug/L			10/26/22 03:21	40
Chloroform	ND		14		ug/L			10/26/22 03:21	40
Chloromethane	ND		14		ug/L			10/26/22 03:21	40
cis-1,2-Dichloroethene	ND		32		ug/L			10/26/22 03:21	40
cis-1,3-Dichloropropene	ND		14		ug/L			10/26/22 03:21	40
Cyclohexane	ND		7.2		ug/L			10/26/22 03:21	40
Bromodichloromethane	ND		16		ug/L			10/26/22 03:21	40
Dichlorofluoromethane	ND		14		ug/L			10/26/22 03:21	40
Ethylbenzene	ND		30		ug/L			10/26/22 03:21	40
Isopropylbenzene	ND		32		ug/L			10/26/22 03:21	40
Methyl acetate	ND		52		ug/L			10/26/22 03:21	40
Methyl tert-butyl ether	ND		6.4		ug/L			10/26/22 03:21	40
Methylcyclohexane	ND		6.4		ug/L			10/26/22 03:21	40
Methylene Chloride	ND		18		ug/L			10/26/22 03:21	40
Styrene	ND		29		ug/L			10/26/22 03:21	40
Tetrachloroethene	ND		14		ug/L			10/26/22 03:21	40
Toluene	ND		20		ug/L			10/26/22 03:21	40
trans-1,2-Dichloroethene	ND		36		ug/L			10/26/22 03:21	40
trans-1,3-Dichloropropene	ND		15		ug/L			10/26/22 03:21	40
Trichloroethene	ND		18		ug/L			10/26/22 03:21	40
Trichlorofluoromethane	ND		35		ug/L			10/26/22 03:21	40
Vinyl chloride	ND		36		ug/L			10/26/22 03:21	40
Xylenes, Total	ND		26		ug/L			10/26/22 03:21	40

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Client Sample ID: MW-13R

Lab Sample ID: 480-203054-3

Date Collected: 10/20/22 12:36

Matrix: Water

Date Received: 10/21/22 10:46

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		10/26/22 03:21	40
Toluene-d8 (Surr)	102		80 - 120		10/26/22 03:21	40
4-Bromofluorobenzene (Surr)	103		73 - 120		10/26/22 03:21	40
Dibromofluoromethane (Surr)	108		75 - 123		10/26/22 03:21	40

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Client Sample ID: MW-15R

Lab Sample ID: 480-203054-4

Date Collected: 10/20/22 11:22

Matrix: Water

Date Received: 10/21/22 10:46

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			10/26/22 03:44	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			10/26/22 03:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/L			10/26/22 03:44	1
1,1,2-Trichloroethane	ND		5.0		ug/L			10/26/22 03:44	1
1,1-Dichloroethane	ND		5.0		ug/L			10/26/22 03:44	1
1,2,4-Trichlorobenzene	ND		5.0		ug/L			10/26/22 03:44	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/26/22 03:44	1
1,2-Dibromoethane	ND		5.0		ug/L			10/26/22 03:44	1
1,2-Dichlorobenzene	ND		5.0		ug/L			10/26/22 03:44	1
1,2-Dichloroethane	ND		5.0		ug/L			10/26/22 03:44	1
1,2-Dichloropropane	ND		5.0		ug/L			10/26/22 03:44	1
1,3-Dichlorobenzene	ND		5.0		ug/L			10/26/22 03:44	1
1,4-Dichlorobenzene	ND		5.0		ug/L			10/26/22 03:44	1
2-Butanone (MEK)	ND		25		ug/L			10/26/22 03:44	1
o-Chlorotoluene	ND		5.0		ug/L			10/26/22 03:44	1
2-Hexanone	ND		25		ug/L			10/26/22 03:44	1
4-Methyl-2-pentanone (MIBK)	ND		25		ug/L			10/26/22 03:44	1
Acetone	ND		25		ug/L			10/26/22 03:44	1
Benzene	ND		5.0		ug/L			10/26/22 03:44	1
Bromoform	ND		5.0		ug/L			10/26/22 03:44	1
Bromomethane	ND		5.0		ug/L			10/26/22 03:44	1
Carbon disulfide	ND		5.0		ug/L			10/26/22 03:44	1
Carbon tetrachloride	ND		5.0		ug/L			10/26/22 03:44	1
Chlorobenzene	ND		5.0		ug/L			10/26/22 03:44	1
Chlorodibromomethane	ND		5.0		ug/L			10/26/22 03:44	1
Chloroethane	ND		5.0		ug/L			10/26/22 03:44	1
Chloroform	ND		5.0		ug/L			10/26/22 03:44	1
Chloromethane	ND		5.0		ug/L			10/26/22 03:44	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			10/26/22 03:44	1
cis-1,3-Dichloropropene	ND		5.0		ug/L			10/26/22 03:44	1
Cyclohexane	13		5.0		ug/L			10/26/22 03:44	1
Bromodichloromethane	ND		5.0		ug/L			10/26/22 03:44	1
Dichlorofluoromethane	ND		5.0		ug/L			10/26/22 03:44	1
Ethylbenzene	ND		5.0		ug/L			10/26/22 03:44	1
Isopropylbenzene	ND		5.0		ug/L			10/26/22 03:44	1
Methyl acetate	ND		5.0		ug/L			10/26/22 03:44	1
Methyl tert-butyl ether	ND		5.0		ug/L			10/26/22 03:44	1
Methylcyclohexane	7.2		5.0		ug/L			10/26/22 03:44	1
Methylene Chloride	ND		5.0		ug/L			10/26/22 03:44	1
Styrene	ND		5.0		ug/L			10/26/22 03:44	1
Tetrachloroethene	ND		5.0		ug/L			10/26/22 03:44	1
Toluene	ND		5.0		ug/L			10/26/22 03:44	1
trans-1,2-Dichloroethene	ND		5.0		ug/L			10/26/22 03:44	1
trans-1,3-Dichloropropene	ND		5.0		ug/L			10/26/22 03:44	1
Trichloroethene	ND		5.0		ug/L			10/26/22 03:44	1
Trichlorofluoromethane	ND		5.0		ug/L			10/26/22 03:44	1
Vinyl chloride	ND		5.0		ug/L			10/26/22 03:44	1
Xylenes, Total	17		15		ug/L			10/26/22 03:44	1

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Client Sample ID: MW-15R

Lab Sample ID: 480-203054-4

Date Collected: 10/20/22 11:22

Matrix: Water

Date Received: 10/21/22 10:46

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
1,2-Dichloroethane-d4 (Surr)	110		77 - 120		10/26/22 03:44	1
Toluene-d8 (Surr)	96		80 - 120		10/26/22 03:44	1
4-Bromofluorobenzene (Surr)	103		73 - 120		10/26/22 03:44	1
Dibromofluoromethane (Surr)	105		75 - 123		10/26/22 03:44	1

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Client Sample ID: MW-3S

Lab Sample ID: 480-203054-5

Date Collected: 10/20/22 15:02

Matrix: Water

Date Received: 10/21/22 10:46

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		410		ug/L			10/26/22 04:08	500
1,1,1,2-Tetrachloroethane	ND		110		ug/L			10/26/22 04:08	500
1,1,1,2-Trichloro-1,2,2-trifluoroethane	ND		160		ug/L			10/26/22 04:08	500
1,1,1,2-Trichloroethane	ND		120		ug/L			10/26/22 04:08	500
1,1-Dichloroethane	ND		190		ug/L			10/26/22 04:08	500
1,2,4-Trichlorobenzene	ND		210		ug/L			10/26/22 04:08	500
1,2-Dibromo-3-Chloropropane	ND		200		ug/L			10/26/22 04:08	500
1,2-Dibromoethane	ND		370		ug/L			10/26/22 04:08	500
1,2-Dichlorobenzene	ND		400		ug/L			10/26/22 04:08	500
1,2-Dichloroethane	ND		110		ug/L			10/26/22 04:08	500
1,2-Dichloropropane	ND		360		ug/L			10/26/22 04:08	500
1,3-Dichlorobenzene	ND		390		ug/L			10/26/22 04:08	500
1,4-Dichlorobenzene	ND		420		ug/L			10/26/22 04:08	500
2-Butanone (MEK)	ND		660		ug/L			10/26/22 04:08	500
2-Hexanone	ND		620		ug/L			10/26/22 04:08	500
4-Methyl-2-pentanone (MIBK)	ND		1100		ug/L			10/26/22 04:08	500
Acetone	ND		1500		ug/L			10/26/22 04:08	500
Benzene	ND		210		ug/L			10/26/22 04:08	500
Bromoform	ND		130		ug/L			10/26/22 04:08	500
Bromomethane	ND		350		ug/L			10/26/22 04:08	500
Carbon disulfide	ND		95		ug/L			10/26/22 04:08	500
Carbon tetrachloride	ND		140		ug/L			10/26/22 04:08	500
Chlorobenzene	ND		380		ug/L			10/26/22 04:08	500
Chlorodibromomethane	ND		160		ug/L			10/26/22 04:08	500
Chloroethane	ND		160		ug/L			10/26/22 04:08	500
Chloroform	ND		170		ug/L			10/26/22 04:08	500
Chloromethane	ND		180		ug/L			10/26/22 04:08	500
cis-1,2-Dichloroethene	ND		410		ug/L			10/26/22 04:08	500
cis-1,3-Dichloropropene	ND		180		ug/L			10/26/22 04:08	500
Cyclohexane	ND		90		ug/L			10/26/22 04:08	500
Bromodichloromethane	ND		200		ug/L			10/26/22 04:08	500
Dichlorofluoromethane	ND		170		ug/L			10/26/22 04:08	500
Ethylbenzene	ND		370		ug/L			10/26/22 04:08	500
Isopropylbenzene	ND		400		ug/L			10/26/22 04:08	500
Methyl acetate	ND		650		ug/L			10/26/22 04:08	500
Methyl tert-butyl ether	ND		80		ug/L			10/26/22 04:08	500
Methylcyclohexane	ND		80		ug/L			10/26/22 04:08	500
Methylene Chloride	ND		220		ug/L			10/26/22 04:08	500
Styrene	ND		370		ug/L			10/26/22 04:08	500
Tetrachloroethene	ND		180		ug/L			10/26/22 04:08	500
Toluene	ND		260		ug/L			10/26/22 04:08	500
trans-1,2-Dichloroethene	ND		450		ug/L			10/26/22 04:08	500
trans-1,3-Dichloropropene	ND		190		ug/L			10/26/22 04:08	500
Trichloroethene	ND		230		ug/L			10/26/22 04:08	500
Trichlorofluoromethane	ND		440		ug/L			10/26/22 04:08	500
Vinyl chloride	ND		450		ug/L			10/26/22 04:08	500
Xylenes, Total	ND		330		ug/L			10/26/22 04:08	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		10/26/22 04:08	500

Eurofins Buffalo

Client Sample Results

Client: Waste Management
 Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Client Sample ID: MW-3S

Lab Sample ID: 480-203054-5

Date Collected: 10/20/22 15:02

Matrix: Water

Date Received: 10/21/22 10:46

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		10/26/22 04:08	500
4-Bromofluorobenzene (Surr)	101		73 - 120		10/26/22 04:08	500
Dibromofluoromethane (Surr)	105		75 - 123		10/26/22 04:08	500

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Chlorotoluene	66000	F1	860		ug/L			10/26/22 15:55	1000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		10/26/22 15:55	1000
Toluene-d8 (Surr)	98		80 - 120		10/26/22 15:55	1000
4-Bromofluorobenzene (Surr)	104		73 - 120		10/26/22 15:55	1000
Dibromofluoromethane (Surr)	108		75 - 123		10/26/22 15:55	1000

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Client Sample ID: MW-7R

Lab Sample ID: 480-203054-6

Date Collected: 10/21/22 09:27

Matrix: Water

Date Received: 10/21/22 10:46

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			10/26/22 11:55	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			10/26/22 11:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/L			10/26/22 11:55	1
1,1,2-Trichloroethane	ND		5.0		ug/L			10/26/22 11:55	1
1,1-Dichloroethane	ND		5.0		ug/L			10/26/22 11:55	1
1,2,4-Trichlorobenzene	ND		5.0		ug/L			10/26/22 11:55	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/26/22 11:55	1
1,2-Dibromoethane	ND		5.0		ug/L			10/26/22 11:55	1
1,2-Dichlorobenzene	ND		5.0		ug/L			10/26/22 11:55	1
1,2-Dichloroethane	ND		5.0		ug/L			10/26/22 11:55	1
1,2-Dichloropropane	ND		5.0		ug/L			10/26/22 11:55	1
1,3-Dichlorobenzene	ND		5.0		ug/L			10/26/22 11:55	1
1,4-Dichlorobenzene	ND		5.0		ug/L			10/26/22 11:55	1
2-Butanone (MEK)	ND		25		ug/L			10/26/22 11:55	1
o-Chlorotoluene	ND		5.0		ug/L			10/26/22 11:55	1
2-Hexanone	ND	*+	25		ug/L			10/26/22 11:55	1
4-Methyl-2-pentanone (MIBK)	ND		25		ug/L			10/26/22 11:55	1
Acetone	ND	*+	25		ug/L			10/26/22 11:55	1
Benzene	ND		5.0		ug/L			10/26/22 11:55	1
Bromoform	ND		5.0		ug/L			10/26/22 11:55	1
Bromomethane	ND		5.0		ug/L			10/26/22 11:55	1
Carbon disulfide	ND		5.0		ug/L			10/26/22 11:55	1
Carbon tetrachloride	ND		5.0		ug/L			10/26/22 11:55	1
Chlorobenzene	ND		5.0		ug/L			10/26/22 11:55	1
Chlorodibromomethane	ND		5.0		ug/L			10/26/22 11:55	1
Chloroethane	ND		5.0		ug/L			10/26/22 11:55	1
Chloroform	ND		5.0		ug/L			10/26/22 11:55	1
Chloromethane	ND		5.0		ug/L			10/26/22 11:55	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			10/26/22 11:55	1
cis-1,3-Dichloropropene	ND		5.0		ug/L			10/26/22 11:55	1
Cyclohexane	ND		5.0		ug/L			10/26/22 11:55	1
Bromodichloromethane	ND		5.0		ug/L			10/26/22 11:55	1
Dichlorofluoromethane	ND		5.0		ug/L			10/26/22 11:55	1
Ethylbenzene	ND		5.0		ug/L			10/26/22 11:55	1
Isopropylbenzene	ND		5.0		ug/L			10/26/22 11:55	1
Methyl acetate	ND		5.0		ug/L			10/26/22 11:55	1
Methyl tert-butyl ether	ND		5.0		ug/L			10/26/22 11:55	1
Methylcyclohexane	ND		5.0		ug/L			10/26/22 11:55	1
Methylene Chloride	ND		5.0		ug/L			10/26/22 11:55	1
Styrene	ND		5.0		ug/L			10/26/22 11:55	1
Tetrachloroethene	ND		5.0		ug/L			10/26/22 11:55	1
Toluene	ND		5.0		ug/L			10/26/22 11:55	1
trans-1,2-Dichloroethene	ND		5.0		ug/L			10/26/22 11:55	1
trans-1,3-Dichloropropene	ND		5.0		ug/L			10/26/22 11:55	1
Trichloroethene	ND		5.0		ug/L			10/26/22 11:55	1
Trichlorofluoromethane	ND		5.0		ug/L			10/26/22 11:55	1
Vinyl chloride	ND		5.0		ug/L			10/26/22 11:55	1
Xylenes, Total	ND		15		ug/L			10/26/22 11:55	1

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Client Sample ID: MW-7R
Date Collected: 10/21/22 09:27
Date Received: 10/21/22 10:46

Lab Sample ID: 480-203054-6
Matrix: Water

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		10/26/22 11:55	1
Toluene-d8 (Surr)	99		80 - 120		10/26/22 11:55	1
4-Bromofluorobenzene (Surr)	103		73 - 120		10/26/22 11:55	1
Dibromofluoromethane (Surr)	103		75 - 123		10/26/22 11:55	1

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Client Sample Results

Client: Waste Management
 Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Client Sample ID: MW-8R

Lab Sample ID: 480-203054-7

Date Collected: 10/20/22 14:18

Matrix: Water

Date Received: 10/21/22 10:46

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			10/26/22 04:31	4
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			10/26/22 04:31	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/L			10/26/22 04:31	4
1,1,2-Trichloroethane	ND		5.0		ug/L			10/26/22 04:31	4
1,1-Dichloroethane	ND		5.0		ug/L			10/26/22 04:31	4
1,2,4-Trichlorobenzene	ND		5.0		ug/L			10/26/22 04:31	4
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/26/22 04:31	4
1,2-Dibromoethane	ND		5.0		ug/L			10/26/22 04:31	4
1,2-Dichlorobenzene	ND		5.0		ug/L			10/26/22 04:31	4
1,2-Dichloroethane	ND		5.0		ug/L			10/26/22 04:31	4
1,2-Dichloropropane	ND		5.0		ug/L			10/26/22 04:31	4
1,3-Dichlorobenzene	ND		5.0		ug/L			10/26/22 04:31	4
1,4-Dichlorobenzene	ND		5.0		ug/L			10/26/22 04:31	4
2-Butanone (MEK)	ND		25		ug/L			10/26/22 04:31	4
o-Chlorotoluene	120		5.0		ug/L			10/26/22 04:31	4
2-Hexanone	ND		25		ug/L			10/26/22 04:31	4
4-Methyl-2-pentanone (MIBK)	ND		25		ug/L			10/26/22 04:31	4
Acetone	ND		25		ug/L			10/26/22 04:31	4
Benzene	ND		5.0		ug/L			10/26/22 04:31	4
Bromoform	ND		5.0		ug/L			10/26/22 04:31	4
Bromomethane	ND		5.0		ug/L			10/26/22 04:31	4
Carbon disulfide	ND		5.0		ug/L			10/26/22 04:31	4
Carbon tetrachloride	ND		5.0		ug/L			10/26/22 04:31	4
Chlorobenzene	ND		5.0		ug/L			10/26/22 04:31	4
Chlorodibromomethane	ND		5.0		ug/L			10/26/22 04:31	4
Chloroethane	ND		5.0		ug/L			10/26/22 04:31	4
Chloroform	ND		5.0		ug/L			10/26/22 04:31	4
Chloromethane	ND		5.0		ug/L			10/26/22 04:31	4
cis-1,2-Dichloroethene	ND		5.0		ug/L			10/26/22 04:31	4
cis-1,3-Dichloropropene	ND		5.0		ug/L			10/26/22 04:31	4
Cyclohexane	ND		5.0		ug/L			10/26/22 04:31	4
Bromodichloromethane	ND		5.0		ug/L			10/26/22 04:31	4
Dichlorofluoromethane	ND		5.0		ug/L			10/26/22 04:31	4
Ethylbenzene	ND		5.0		ug/L			10/26/22 04:31	4
Isopropylbenzene	ND		5.0		ug/L			10/26/22 04:31	4
Methyl acetate	ND		5.2		ug/L			10/26/22 04:31	4
Methyl tert-butyl ether	ND		5.0		ug/L			10/26/22 04:31	4
Methylcyclohexane	ND		5.0		ug/L			10/26/22 04:31	4
Methylene Chloride	ND		5.0		ug/L			10/26/22 04:31	4
Styrene	ND		5.0		ug/L			10/26/22 04:31	4
Tetrachloroethene	ND		5.0		ug/L			10/26/22 04:31	4
Toluene	ND		5.0		ug/L			10/26/22 04:31	4
trans-1,2-Dichloroethene	ND		5.0		ug/L			10/26/22 04:31	4
trans-1,3-Dichloropropene	ND		5.0		ug/L			10/26/22 04:31	4
Trichloroethene	ND		5.0		ug/L			10/26/22 04:31	4
Trichlorofluoromethane	ND		5.0		ug/L			10/26/22 04:31	4
Vinyl chloride	ND		5.0		ug/L			10/26/22 04:31	4
Xylenes, Total	ND		15		ug/L			10/26/22 04:31	4

Euromins Buffalo

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Client Sample ID: MW-8R
Date Collected: 10/20/22 14:18
Date Received: 10/21/22 10:46

Lab Sample ID: 480-203054-7
Matrix: Water

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		10/26/22 04:31	4
Toluene-d8 (Surr)	102		80 - 120		10/26/22 04:31	4
4-Bromofluorobenzene (Surr)	106		73 - 120		10/26/22 04:31	4
Dibromofluoromethane (Surr)	106		75 - 123		10/26/22 04:31	4

Client Sample Results

Client: Waste Management
 Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Client Sample ID: MW-9R

Lab Sample ID: 480-203054-8

Date Collected: 10/21/22 08:15

Matrix: Water

Date Received: 10/21/22 10:46

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	150		5.0		ug/L			10/26/22 12:17	4
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			10/26/22 12:17	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/L			10/26/22 12:17	4
1,1,2-Trichloroethane	ND		5.0		ug/L			10/26/22 12:17	4
1,1-Dichloroethane	300		5.0		ug/L			10/26/22 12:17	4
1,2,4-Trichlorobenzene	ND		5.0		ug/L			10/26/22 12:17	4
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/26/22 12:17	4
1,2-Dibromoethane	ND		5.0		ug/L			10/26/22 12:17	4
1,2-Dichlorobenzene	ND		5.0		ug/L			10/26/22 12:17	4
1,2-Dichloroethane	ND		5.0		ug/L			10/26/22 12:17	4
1,2-Dichloropropane	ND		5.0		ug/L			10/26/22 12:17	4
1,3-Dichlorobenzene	ND		5.0		ug/L			10/26/22 12:17	4
1,4-Dichlorobenzene	ND		5.0		ug/L			10/26/22 12:17	4
2-Butanone (MEK)	ND		25		ug/L			10/26/22 12:17	4
o-Chlorotoluene	ND		5.0		ug/L			10/26/22 12:17	4
2-Hexanone	ND	*+ F1	25		ug/L			10/26/22 12:17	4
4-Methyl-2-pentanone (MIBK)	ND		25		ug/L			10/26/22 12:17	4
Acetone	ND	*+	25		ug/L			10/26/22 12:17	4
Benzene	ND		5.0		ug/L			10/26/22 12:17	4
Bromoform	ND		5.0		ug/L			10/26/22 12:17	4
Bromomethane	ND		5.0		ug/L			10/26/22 12:17	4
Carbon disulfide	ND		5.0		ug/L			10/26/22 12:17	4
Carbon tetrachloride	ND		5.0		ug/L			10/26/22 12:17	4
Chlorobenzene	ND		5.0		ug/L			10/26/22 12:17	4
Chlorodibromomethane	ND		5.0		ug/L			10/26/22 12:17	4
Chloroethane	47		5.0		ug/L			10/26/22 12:17	4
Chloroform	ND		5.0		ug/L			10/26/22 12:17	4
Chloromethane	ND		5.0		ug/L			10/26/22 12:17	4
cis-1,2-Dichloroethene	ND		5.0		ug/L			10/26/22 12:17	4
cis-1,3-Dichloropropene	ND		5.0		ug/L			10/26/22 12:17	4
Cyclohexane	ND		5.0		ug/L			10/26/22 12:17	4
Bromodichloromethane	ND		5.0		ug/L			10/26/22 12:17	4
Dichlorofluoromethane	ND		5.0		ug/L			10/26/22 12:17	4
Ethylbenzene	ND		5.0		ug/L			10/26/22 12:17	4
Isopropylbenzene	ND		5.0		ug/L			10/26/22 12:17	4
Methyl acetate	ND		5.2		ug/L			10/26/22 12:17	4
Methyl tert-butyl ether	ND		5.0		ug/L			10/26/22 12:17	4
Methylcyclohexane	ND		5.0		ug/L			10/26/22 12:17	4
Methylene Chloride	ND		5.0		ug/L			10/26/22 12:17	4
Styrene	ND		5.0		ug/L			10/26/22 12:17	4
Tetrachloroethene	ND		5.0		ug/L			10/26/22 12:17	4
Toluene	ND		5.0		ug/L			10/26/22 12:17	4
trans-1,2-Dichloroethene	ND		5.0		ug/L			10/26/22 12:17	4
trans-1,3-Dichloropropene	ND		5.0		ug/L			10/26/22 12:17	4
Trichloroethene	ND		5.0		ug/L			10/26/22 12:17	4
Trichlorofluoromethane	ND		5.0		ug/L			10/26/22 12:17	4
Vinyl chloride	ND		5.0		ug/L			10/26/22 12:17	4
Xylenes, Total	ND		15		ug/L			10/26/22 12:17	4

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Client Sample ID: MW-9R
Date Collected: 10/21/22 08:15
Date Received: 10/21/22 10:46

Lab Sample ID: 480-203054-8
Matrix: Water

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		10/26/22 12:17	4
Toluene-d8 (Surr)	98		80 - 120		10/26/22 12:17	4
4-Bromofluorobenzene (Surr)	106		73 - 120		10/26/22 12:17	4
Dibromofluoromethane (Surr)	105		75 - 123		10/26/22 12:17	4

QC Sample Results

Client: Waste Management
 Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-647035/8
Matrix: Water
Analysis Batch: 647035

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		5.0		ug/L			10/26/22 01:25	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			10/26/22 01:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/L			10/26/22 01:25	1
1,1,2-Trichloroethane	ND		5.0		ug/L			10/26/22 01:25	1
1,1-Dichloroethane	ND		5.0		ug/L			10/26/22 01:25	1
1,2,4-Trichlorobenzene	ND		5.0		ug/L			10/26/22 01:25	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/26/22 01:25	1
1,2-Dibromoethane	ND		5.0		ug/L			10/26/22 01:25	1
1,2-Dichlorobenzene	ND		5.0		ug/L			10/26/22 01:25	1
1,2-Dichloroethane	ND		5.0		ug/L			10/26/22 01:25	1
1,2-Dichloropropane	ND		5.0		ug/L			10/26/22 01:25	1
1,3-Dichlorobenzene	ND		5.0		ug/L			10/26/22 01:25	1
1,4-Dichlorobenzene	ND		5.0		ug/L			10/26/22 01:25	1
2-Butanone (MEK)	ND		25		ug/L			10/26/22 01:25	1
o-Chlorotoluene	ND		5.0		ug/L			10/26/22 01:25	1
2-Hexanone	ND		25		ug/L			10/26/22 01:25	1
4-Methyl-2-pentanone (MIBK)	ND		25		ug/L			10/26/22 01:25	1
Acetone	ND		25		ug/L			10/26/22 01:25	1
Benzene	ND		5.0		ug/L			10/26/22 01:25	1
Bromoform	ND		5.0		ug/L			10/26/22 01:25	1
Bromomethane	ND		5.0		ug/L			10/26/22 01:25	1
Carbon disulfide	ND		5.0		ug/L			10/26/22 01:25	1
Carbon tetrachloride	ND		5.0		ug/L			10/26/22 01:25	1
Chlorobenzene	ND		5.0		ug/L			10/26/22 01:25	1
Chlorodibromomethane	ND		5.0		ug/L			10/26/22 01:25	1
Chloroethane	ND		5.0		ug/L			10/26/22 01:25	1
Chloroform	ND		5.0		ug/L			10/26/22 01:25	1
Chloromethane	ND		5.0		ug/L			10/26/22 01:25	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			10/26/22 01:25	1
cis-1,3-Dichloropropene	ND		5.0		ug/L			10/26/22 01:25	1
Cyclohexane	ND		5.0		ug/L			10/26/22 01:25	1
Bromodichloromethane	ND		5.0		ug/L			10/26/22 01:25	1
Dichlorofluoromethane	ND		5.0		ug/L			10/26/22 01:25	1
Ethylbenzene	ND		5.0		ug/L			10/26/22 01:25	1
Isopropylbenzene	ND		5.0		ug/L			10/26/22 01:25	1
Methyl acetate	ND		5.0		ug/L			10/26/22 01:25	1
Methyl tert-butyl ether	ND		5.0		ug/L			10/26/22 01:25	1
Methylcyclohexane	ND		5.0		ug/L			10/26/22 01:25	1
Methylene Chloride	ND		5.0		ug/L			10/26/22 01:25	1
Styrene	ND		5.0		ug/L			10/26/22 01:25	1
Tetrachloroethene	ND		5.0		ug/L			10/26/22 01:25	1
Toluene	ND		5.0		ug/L			10/26/22 01:25	1
trans-1,2-Dichloroethene	ND		5.0		ug/L			10/26/22 01:25	1
trans-1,3-Dichloropropene	ND		5.0		ug/L			10/26/22 01:25	1
Trichloroethene	ND		5.0		ug/L			10/26/22 01:25	1
Trichlorofluoromethane	ND		5.0		ug/L			10/26/22 01:25	1
Vinyl chloride	ND		5.0		ug/L			10/26/22 01:25	1
Xylenes, Total	ND		15		ug/L			10/26/22 01:25	1

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QC Sample Results

Client: Waste Management
 Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-647035/8
Matrix: Water
Analysis Batch: 647035

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		10/26/22 01:25	1
Toluene-d8 (Surr)	101		80 - 120		10/26/22 01:25	1
4-Bromofluorobenzene (Surr)	101		73 - 120		10/26/22 01:25	1
Dibromofluoromethane (Surr)	106		75 - 123		10/26/22 01:25	1

Lab Sample ID: LCS 480-647035/6
Matrix: Water
Analysis Batch: 647035

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	25.0	21.2		ug/L		85	73 - 126
1,1,1,2-Tetrachloroethane	25.0	22.1		ug/L		88	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	20.7		ug/L		83	61 - 148
1,1,2-Trichloroethane	25.0	22.1		ug/L		89	76 - 122
1,1-Dichloroethane	25.0	21.8		ug/L		87	77 - 120
1,2,4-Trichlorobenzene	25.0	21.4		ug/L		86	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	20.5		ug/L		82	56 - 134
1,2-Dibromoethane	25.0	22.3		ug/L		89	77 - 120
1,2-Dichlorobenzene	25.0	21.9		ug/L		87	80 - 124
1,2-Dichloroethane	25.0	23.3		ug/L		93	75 - 120
1,2-Dichloropropane	25.0	22.9		ug/L		91	76 - 120
1,3-Dichlorobenzene	25.0	21.8		ug/L		87	77 - 120
1,4-Dichlorobenzene	25.0	21.8		ug/L		87	80 - 120
2-Butanone (MEK)	125	128		ug/L		102	57 - 140
o-Chlorotoluene	25.0	21.9		ug/L		88	76 - 121
2-Hexanone	125	104		ug/L		83	65 - 127
4-Methyl-2-pentanone (MIBK)	125	105		ug/L		84	71 - 125
Acetone	125	133		ug/L		107	56 - 142
Benzene	25.0	22.2		ug/L		89	71 - 124
Bromoform	25.0	21.3		ug/L		85	61 - 132
Bromomethane	25.0	22.4		ug/L		89	55 - 144
Carbon disulfide	25.0	20.8		ug/L		83	59 - 134
Carbon tetrachloride	25.0	21.9		ug/L		88	72 - 134
Chlorobenzene	25.0	22.0		ug/L		88	80 - 120
Chlorodibromomethane	25.0	22.2		ug/L		89	75 - 125
Chloroethane	25.0	20.6		ug/L		83	69 - 136
Chloroform	25.0	22.1		ug/L		89	73 - 127
Chloromethane	25.0	18.8		ug/L		75	68 - 124
cis-1,2-Dichloroethene	25.0	22.0		ug/L		88	74 - 124
cis-1,3-Dichloropropene	25.0	22.0		ug/L		88	74 - 124
Cyclohexane	25.0	18.9		ug/L		76	59 - 135
Bromodichloromethane	25.0	22.2		ug/L		89	80 - 122
Dichlorofluoromethane	25.0	20.9		ug/L		84	76 - 127
Ethylbenzene	25.0	21.5		ug/L		86	77 - 123
Isopropylbenzene	25.0	21.6		ug/L		87	77 - 122
Methyl acetate	50.0	45.5		ug/L		91	74 - 133
Methyl tert-butyl ether	25.0	22.8		ug/L		91	77 - 120
Methylcyclohexane	25.0	20.8		ug/L		83	68 - 134

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QC Sample Results

Client: Waste Management
 Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-647035/6
Matrix: Water
Analysis Batch: 647035

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	25.0	23.0		ug/L		92	75 - 124
Styrene	25.0	21.4		ug/L		86	80 - 120
Tetrachloroethene	25.0	22.4		ug/L		90	74 - 122
Toluene	25.0	21.6		ug/L		86	80 - 122
trans-1,2-Dichloroethene	25.0	21.5		ug/L		86	73 - 127
trans-1,3-Dichloropropene	25.0	21.2		ug/L		85	80 - 120
Trichloroethene	25.0	21.9		ug/L		88	74 - 123
Trichlorofluoromethane	25.0	23.5		ug/L		94	62 - 150
Vinyl chloride	25.0	21.3		ug/L		85	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	110		77 - 120
Toluene-d8 (Surr)	104		80 - 120
4-Bromofluorobenzene (Surr)	106		73 - 120
Dibromofluoromethane (Surr)	109		75 - 123

Lab Sample ID: MB 480-647102/7
Matrix: Water
Analysis Batch: 647102

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			10/26/22 11:09	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			10/26/22 11:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/L			10/26/22 11:09	1
1,1,2-Trichloroethane	ND		5.0		ug/L			10/26/22 11:09	1
1,1-Dichloroethane	ND		5.0		ug/L			10/26/22 11:09	1
1,2,4-Trichlorobenzene	ND		5.0		ug/L			10/26/22 11:09	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/26/22 11:09	1
1,2-Dibromoethane	ND		5.0		ug/L			10/26/22 11:09	1
1,2-Dichlorobenzene	ND		5.0		ug/L			10/26/22 11:09	1
1,2-Dichloroethane	ND		5.0		ug/L			10/26/22 11:09	1
1,2-Dichloropropane	ND		5.0		ug/L			10/26/22 11:09	1
1,3-Dichlorobenzene	ND		5.0		ug/L			10/26/22 11:09	1
1,4-Dichlorobenzene	ND		5.0		ug/L			10/26/22 11:09	1
2-Butanone (MEK)	ND		25		ug/L			10/26/22 11:09	1
o-Chlorotoluene	ND		5.0		ug/L			10/26/22 11:09	1
2-Hexanone	ND		25		ug/L			10/26/22 11:09	1
4-Methyl-2-pentanone (MIBK)	ND		25		ug/L			10/26/22 11:09	1
Acetone	ND		25		ug/L			10/26/22 11:09	1
Benzene	ND		5.0		ug/L			10/26/22 11:09	1
Bromoform	ND		5.0		ug/L			10/26/22 11:09	1
Bromomethane	ND		5.0		ug/L			10/26/22 11:09	1
Carbon disulfide	ND		5.0		ug/L			10/26/22 11:09	1
Carbon tetrachloride	ND		5.0		ug/L			10/26/22 11:09	1
Chlorobenzene	ND		5.0		ug/L			10/26/22 11:09	1
Chlorodibromomethane	ND		5.0		ug/L			10/26/22 11:09	1
Chloroethane	ND		5.0		ug/L			10/26/22 11:09	1
Chloroform	ND		5.0		ug/L			10/26/22 11:09	1

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QC Sample Results

Client: Waste Management
 Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-647102/7
Matrix: Water
Analysis Batch: 647102

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		5.0		ug/L			10/26/22 11:09	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			10/26/22 11:09	1
cis-1,3-Dichloropropene	ND		5.0		ug/L			10/26/22 11:09	1
Cyclohexane	ND		5.0		ug/L			10/26/22 11:09	1
Bromodichloromethane	ND		5.0		ug/L			10/26/22 11:09	1
Dichlorofluoromethane	ND		5.0		ug/L			10/26/22 11:09	1
Ethylbenzene	ND		5.0		ug/L			10/26/22 11:09	1
Isopropylbenzene	ND		5.0		ug/L			10/26/22 11:09	1
Methyl acetate	ND		5.0		ug/L			10/26/22 11:09	1
Methyl tert-butyl ether	ND		5.0		ug/L			10/26/22 11:09	1
Methylcyclohexane	ND		5.0		ug/L			10/26/22 11:09	1
Methylene Chloride	ND		5.0		ug/L			10/26/22 11:09	1
Styrene	ND		5.0		ug/L			10/26/22 11:09	1
Tetrachloroethene	ND		5.0		ug/L			10/26/22 11:09	1
Toluene	ND		5.0		ug/L			10/26/22 11:09	1
trans-1,2-Dichloroethene	ND		5.0		ug/L			10/26/22 11:09	1
trans-1,3-Dichloropropene	ND		5.0		ug/L			10/26/22 11:09	1
Trichloroethene	ND		5.0		ug/L			10/26/22 11:09	1
Trichlorofluoromethane	ND		5.0		ug/L			10/26/22 11:09	1
Vinyl chloride	ND		5.0		ug/L			10/26/22 11:09	1
Xylenes, Total	ND		15		ug/L			10/26/22 11:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		10/26/22 11:09	1
Toluene-d8 (Surr)	97		80 - 120		10/26/22 11:09	1
4-Bromofluorobenzene (Surr)	104		73 - 120		10/26/22 11:09	1
Dibromofluoromethane (Surr)	105		75 - 123		10/26/22 11:09	1

Lab Sample ID: LCS 480-647102/5
Matrix: Water
Analysis Batch: 647102

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	25.0	26.8		ug/L		107	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.0		ug/L		100	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	31.0		ug/L		124	61 - 148
1,1,2-Trichloroethane	25.0	24.6		ug/L		98	76 - 122
1,1-Dichloroethane	25.0	26.0		ug/L		104	77 - 120
1,2,4-Trichlorobenzene	25.0	22.5		ug/L		90	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	26.3		ug/L		105	56 - 134
1,2-Dibromoethane	25.0	25.1		ug/L		101	77 - 120
1,2-Dichlorobenzene	25.0	23.6		ug/L		94	80 - 124
1,2-Dichloroethane	25.0	26.5		ug/L		106	75 - 120
1,2-Dichloropropane	25.0	25.6		ug/L		103	76 - 120
1,3-Dichlorobenzene	25.0	24.3		ug/L		97	77 - 120
1,4-Dichlorobenzene	25.0	23.5		ug/L		94	80 - 120
2-Butanone (MEK)	125	166		ug/L		133	57 - 140
o-Chlorotoluene	25.0	24.8		ug/L		99	76 - 121

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QC Sample Results

Client: Waste Management
 Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-647102/5
Matrix: Water
Analysis Batch: 647102

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Hexanone	125	164	*+	ug/L		132	65 - 127
4-Methyl-2-pentanone (MIBK)	125	145		ug/L		116	71 - 125
Acetone	125	194	*+	ug/L		155	56 - 142
Benzene	25.0	25.9		ug/L		104	71 - 124
Bromoform	25.0	24.6		ug/L		98	61 - 132
Bromomethane	25.0	24.4		ug/L		97	55 - 144
Carbon disulfide	25.0	27.0		ug/L		108	59 - 134
Carbon tetrachloride	25.0	31.0		ug/L		124	72 - 134
Chlorobenzene	25.0	24.9		ug/L		100	80 - 120
Chlorodibromomethane	25.0	24.5		ug/L		98	75 - 125
Chloroethane	25.0	23.1		ug/L		92	69 - 136
Chloroform	25.0	25.2		ug/L		101	73 - 127
Chloromethane	25.0	26.2		ug/L		105	68 - 124
cis-1,2-Dichloroethene	25.0	25.5		ug/L		102	74 - 124
cis-1,3-Dichloropropene	25.0	25.0		ug/L		100	74 - 124
Cyclohexane	25.0	29.4		ug/L		118	59 - 135
Bromodichloromethane	25.0	25.4		ug/L		102	80 - 122
Dichlorofluoromethane	25.0	24.3		ug/L		97	76 - 127
Ethylbenzene	25.0	25.2		ug/L		101	77 - 123
Isopropylbenzene	25.0	25.4		ug/L		102	77 - 122
Methyl acetate	50.0	58.8		ug/L		118	74 - 133
Methyl tert-butyl ether	25.0	24.8		ug/L		99	77 - 120
Methylcyclohexane	25.0	27.0		ug/L		108	68 - 134
Methylene Chloride	25.0	25.8		ug/L		103	75 - 124
Styrene	25.0	24.6		ug/L		99	80 - 120
Tetrachloroethene	25.0	27.3		ug/L		109	74 - 122
Toluene	25.0	24.7		ug/L		99	80 - 122
trans-1,2-Dichloroethene	25.0	26.3		ug/L		105	73 - 127
trans-1,3-Dichloropropene	25.0	24.3		ug/L		97	80 - 120
Trichloroethene	25.0	26.7		ug/L		107	74 - 123
Trichlorofluoromethane	25.0	30.3		ug/L		121	62 - 150
Vinyl chloride	25.0	24.5		ug/L		98	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		77 - 120
Toluene-d8 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	101		73 - 120
Dibromofluoromethane (Surr)	106		75 - 123

Lab Sample ID: 480-203054-8 MS
Matrix: Water
Analysis Batch: 647102

Client Sample ID: MW-9R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	150		100	259		ug/L		112	73 - 126
1,1,1,2-Tetrachloroethane	ND		100	102		ug/L		102	76 - 120
1,1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	130		ug/L		128	61 - 148
1,1,2-Trichloroethane	ND		100	99.5		ug/L		100	76 - 122

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QC Sample Results

Client: Waste Management
 Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-203054-8 MS

Matrix: Water

Analysis Batch: 647102

Client Sample ID: MW-9R

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	300		100	394		ug/L		98	77 - 120
1,2,4-Trichlorobenzene	ND		100	90.6		ug/L		91	79 - 122
1,2-Dibromo-3-Chloropropane	ND		100	104		ug/L		104	56 - 134
1,2-Dibromoethane	ND		100	102		ug/L		102	77 - 120
1,2-Dichlorobenzene	ND		100	97.2		ug/L		97	80 - 124
1,2-Dichloroethane	ND		100	109		ug/L		109	75 - 120
1,2-Dichloropropane	ND		100	106		ug/L		106	76 - 120
1,3-Dichlorobenzene	ND		100	101		ug/L		101	77 - 120
1,4-Dichlorobenzene	ND		100	97.9		ug/L		98	78 - 124
2-Butanone (MEK)	ND		500	626		ug/L		125	57 - 140
o-Chlorotoluene	ND		100	104		ug/L		104	76 - 121
2-Hexanone	ND	*+ F1	500	644	F1	ug/L		129	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		500	593		ug/L		119	71 - 125
Acetone	ND	*+	500	655		ug/L		131	56 - 142
Benzene	ND		100	105		ug/L		105	71 - 124
Bromoform	ND		100	89.6		ug/L		90	61 - 132
Bromomethane	ND		100	93.7		ug/L		94	55 - 144
Carbon disulfide	ND		100	108		ug/L		108	59 - 134
Carbon tetrachloride	ND		100	130		ug/L		130	72 - 134
Chlorobenzene	ND		100	103		ug/L		103	80 - 120
Chlorodibromomethane	ND		100	95.8		ug/L		96	75 - 125
Chloroethane	47		100	135		ug/L		88	69 - 136
Chloroform	ND		100	103		ug/L		103	73 - 127
Chloromethane	ND		100	102		ug/L		102	68 - 124
cis-1,2-Dichloroethene	ND		100	104		ug/L		104	74 - 124
cis-1,3-Dichloropropene	ND		100	96.9		ug/L		97	74 - 124
Cyclohexane	ND		100	125		ug/L		123	59 - 135
Bromodichloromethane	ND		100	101		ug/L		101	80 - 122
Dichlorofluoromethane	ND		100	94.9		ug/L		95	76 - 127
Ethylbenzene	ND		100	104		ug/L		104	77 - 123
Isopropylbenzene	ND		100	107		ug/L		107	77 - 122
Methyl acetate	ND		200	230		ug/L		115	74 - 133
Methyl tert-butyl ether	ND		100	97.0		ug/L		97	77 - 120
Methylcyclohexane	ND		100	111		ug/L		111	68 - 134
Methylene Chloride	ND		100	106		ug/L		106	75 - 124
Styrene	ND		100	102		ug/L		102	80 - 120
Tetrachloroethene	ND		100	113		ug/L		113	74 - 122
Toluene	ND		100	103		ug/L		103	80 - 122
trans-1,2-Dichloroethene	ND		100	110		ug/L		110	73 - 127
trans-1,3-Dichloropropene	ND		100	93.6		ug/L		94	80 - 120
Trichloroethene	ND		100	111		ug/L		111	74 - 123
Trichlorofluoromethane	ND		100	124		ug/L		124	62 - 150
Vinyl chloride	ND		100	97.4		ug/L		97	65 - 133

Surrogate	MS %Recovery	MS Qualifier	MS Limits
1,2-Dichloroethane-d4 (Surr)	104		77 - 120
Toluene-d8 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	101		73 - 120

QC Sample Results

Client: Waste Management
 Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-203054-8 MS
Matrix: Water
Analysis Batch: 647102

Client Sample ID: MW-9R
Prep Type: Total/NA

<i>Surrogate</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
<i>Dibromofluoromethane (Surr)</i>	105		75 - 123

Lab Sample ID: 480-203054-8 MSD
Matrix: Water
Analysis Batch: 647102

Client Sample ID: MW-9R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec		RPD	
				Result	Qualifier				Limits	RPD	Limit	
1,1,1-Trichloroethane	150		100	246		ug/L		99	73 - 126	5	15	
1,1,2,2-Tetrachloroethane	ND		100	102		ug/L		102	76 - 120	0	15	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	120		ug/L		118	61 - 148	8	20	
1,1,2-Trichloroethane	ND		100	99.1		ug/L		99	76 - 122	0	15	
1,1-Dichloroethane	300		100	376		ug/L		80	77 - 120	5	20	
1,2,4-Trichlorobenzene	ND		100	88.6		ug/L		89	79 - 122	2	20	
1,2-Dibromo-3-Chloropropane	ND		100	103		ug/L		103	56 - 134	0	15	
1,2-Dibromoethane	ND		100	102		ug/L		102	77 - 120	1	15	
1,2-Dichlorobenzene	ND		100	95.4		ug/L		95	80 - 124	2	20	
1,2-Dichloroethane	ND		100	103		ug/L		103	75 - 120	6	20	
1,2-Dichloropropane	ND		100	101		ug/L		101	76 - 120	4	20	
1,3-Dichlorobenzene	ND		100	98.8		ug/L		99	77 - 120	2	20	
1,4-Dichlorobenzene	ND		100	96.6		ug/L		97	78 - 124	1	20	
2-Butanone (MEK)	ND		500	637		ug/L		127	57 - 140	2	20	
o-Chlorotoluene	ND		100	101		ug/L		101	76 - 121	2	20	
2-Hexanone	ND	*+ F1	500	669	F1	ug/L		134	65 - 127	4	15	
4-Methyl-2-pentanone (MIBK)	ND		500	604		ug/L		121	71 - 125	2	35	
Acetone	ND	*+	500	659		ug/L		132	56 - 142	1	15	
Benzene	ND		100	102		ug/L		102	71 - 124	3	13	
Bromoform	ND		100	92.2		ug/L		92	61 - 132	3	15	
Bromomethane	ND		100	92.8		ug/L		93	55 - 144	1	15	
Carbon disulfide	ND		100	102		ug/L		102	59 - 134	6	15	
Carbon tetrachloride	ND		100	124		ug/L		124	72 - 134	5	15	
Chlorobenzene	ND		100	102		ug/L		102	80 - 120	2	25	
Chlorodibromomethane	ND		100	97.7		ug/L		98	75 - 125	2	15	
Chloroethane	47		100	129		ug/L		82	69 - 136	4	15	
Chloroform	ND		100	99.3		ug/L		99	73 - 127	4	20	
Chloromethane	ND		100	96.7		ug/L		97	68 - 124	6	15	
cis-1,2-Dichloroethene	ND		100	99.2		ug/L		99	74 - 124	5	15	
cis-1,3-Dichloropropene	ND		100	93.7		ug/L		94	74 - 124	3	15	
Cyclohexane	ND		100	118		ug/L		116	59 - 135	5	20	
Bromodichloromethane	ND		100	98.2		ug/L		98	80 - 122	3	15	
Dichlorofluoromethane	ND		100	92.3		ug/L		92	76 - 127	3	20	
Ethylbenzene	ND		100	102		ug/L		102	77 - 123	2	15	
Isopropylbenzene	ND		100	104		ug/L		104	77 - 122	3	20	
Methyl acetate	ND		200	228		ug/L		114	74 - 133	1	20	
Methyl tert-butyl ether	ND		100	95.2		ug/L		95	77 - 120	2	37	
Methylcyclohexane	ND		100	104		ug/L		104	68 - 134	6	20	
Methylene Chloride	ND		100	102		ug/L		102	75 - 124	3	15	
Styrene	ND		100	99.8		ug/L		100	80 - 120	2	20	
Tetrachloroethene	ND		100	110		ug/L		110	74 - 122	2	20	

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QC Sample Results

Client: Waste Management
 Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-203054-8 MSD
Matrix: Water
Analysis Batch: 647102

Client Sample ID: MW-9R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	ND		100	100		ug/L		100	80 - 122	2	15
trans-1,2-Dichloroethene	ND		100	103		ug/L		103	73 - 127	7	20
trans-1,3-Dichloropropene	ND		100	94.0		ug/L		94	80 - 120	0	15
Trichloroethene	ND		100	105		ug/L		105	74 - 123	5	16
Trichlorofluoromethane	ND		100	117		ug/L		117	62 - 150	6	20
Vinyl chloride	ND		100	94.5		ug/L		94	65 - 133	3	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		77 - 120
Toluene-d8 (Surr)	101		80 - 120
4-Bromofluorobenzene (Surr)	101		73 - 120
Dibromofluoromethane (Surr)	104		75 - 123

Lab Sample ID: MB 480-647132/8
Matrix: Water
Analysis Batch: 647132

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			10/26/22 12:38	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			10/26/22 12:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/L			10/26/22 12:38	1
1,1,2-Trichloroethane	ND		5.0		ug/L			10/26/22 12:38	1
1,1-Dichloroethane	ND		5.0		ug/L			10/26/22 12:38	1
1,2,4-Trichlorobenzene	ND		5.0		ug/L			10/26/22 12:38	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/26/22 12:38	1
1,2-Dibromoethane	ND		5.0		ug/L			10/26/22 12:38	1
1,2-Dichlorobenzene	ND		5.0		ug/L			10/26/22 12:38	1
1,2-Dichloroethane	ND		5.0		ug/L			10/26/22 12:38	1
1,2-Dichloropropane	ND		5.0		ug/L			10/26/22 12:38	1
1,3-Dichlorobenzene	ND		5.0		ug/L			10/26/22 12:38	1
1,4-Dichlorobenzene	ND		5.0		ug/L			10/26/22 12:38	1
2-Butanone (MEK)	ND		25		ug/L			10/26/22 12:38	1
o-Chlorotoluene	ND		5.0		ug/L			10/26/22 12:38	1
2-Hexanone	ND		25		ug/L			10/26/22 12:38	1
4-Methyl-2-pentanone (MIBK)	ND		25		ug/L			10/26/22 12:38	1
Acetone	ND		25		ug/L			10/26/22 12:38	1
Benzene	ND		5.0		ug/L			10/26/22 12:38	1
Bromoform	ND		5.0		ug/L			10/26/22 12:38	1
Bromomethane	ND		5.0		ug/L			10/26/22 12:38	1
Carbon disulfide	ND		5.0		ug/L			10/26/22 12:38	1
Carbon tetrachloride	ND		5.0		ug/L			10/26/22 12:38	1
Chlorobenzene	ND		5.0		ug/L			10/26/22 12:38	1
Chlorodibromomethane	ND		5.0		ug/L			10/26/22 12:38	1
Chloroethane	ND		5.0		ug/L			10/26/22 12:38	1
Chloroform	ND		5.0		ug/L			10/26/22 12:38	1
Chloromethane	ND		5.0		ug/L			10/26/22 12:38	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			10/26/22 12:38	1
cis-1,3-Dichloropropene	ND		5.0		ug/L			10/26/22 12:38	1

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QC Sample Results

Client: Waste Management
 Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-647132/8
Matrix: Water
Analysis Batch: 647132

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		5.0		ug/L			10/26/22 12:38	1
Bromodichloromethane	ND		5.0		ug/L			10/26/22 12:38	1
Dichlorofluoromethane	ND		5.0		ug/L			10/26/22 12:38	1
Ethylbenzene	ND		5.0		ug/L			10/26/22 12:38	1
Isopropylbenzene	ND		5.0		ug/L			10/26/22 12:38	1
Methyl acetate	ND		5.0		ug/L			10/26/22 12:38	1
Methyl tert-butyl ether	ND		5.0		ug/L			10/26/22 12:38	1
Methylcyclohexane	ND		5.0		ug/L			10/26/22 12:38	1
Methylene Chloride	ND		5.0		ug/L			10/26/22 12:38	1
Styrene	ND		5.0		ug/L			10/26/22 12:38	1
Tetrachloroethene	ND		5.0		ug/L			10/26/22 12:38	1
Toluene	ND		5.0		ug/L			10/26/22 12:38	1
trans-1,2-Dichloroethene	ND		5.0		ug/L			10/26/22 12:38	1
trans-1,3-Dichloropropene	ND		5.0		ug/L			10/26/22 12:38	1
Trichloroethene	ND		5.0		ug/L			10/26/22 12:38	1
Trichlorofluoromethane	ND		5.0		ug/L			10/26/22 12:38	1
Vinyl chloride	ND		5.0		ug/L			10/26/22 12:38	1
Xylenes, Total	ND		15		ug/L			10/26/22 12:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		10/26/22 12:38	1
Toluene-d8 (Surr)	104		80 - 120		10/26/22 12:38	1
4-Bromofluorobenzene (Surr)	106		73 - 120		10/26/22 12:38	1
Dibromofluoromethane (Surr)	113		75 - 123		10/26/22 12:38	1

Lab Sample ID: LCS 480-647132/6
Matrix: Water
Analysis Batch: 647132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	25.0	23.5		ug/L		94	73 - 126
1,1,1,2-Tetrachloroethane	25.0	24.0		ug/L		96	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	20.2		ug/L		81	61 - 148
1,1,2-Trichloroethane	25.0	25.0		ug/L		100	76 - 122
1,1-Dichloroethane	25.0	23.7		ug/L		95	77 - 120
1,2,4-Trichlorobenzene	25.0	23.4		ug/L		94	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	22.3		ug/L		89	56 - 134
1,2-Dibromoethane	25.0	24.6		ug/L		98	77 - 120
1,2-Dichlorobenzene	25.0	24.2		ug/L		97	80 - 124
1,2-Dichloroethane	25.0	25.7		ug/L		103	75 - 120
1,2-Dichloropropane	25.0	24.4		ug/L		98	76 - 120
1,3-Dichlorobenzene	25.0	24.5		ug/L		98	77 - 120
1,4-Dichlorobenzene	25.0	24.5		ug/L		98	80 - 120
2-Butanone (MEK)	125	140		ug/L		112	57 - 140
o-Chlorotoluene	25.0	23.9		ug/L		96	76 - 121
2-Hexanone	125	119		ug/L		95	65 - 127
4-Methyl-2-pentanone (MIBK)	125	113		ug/L		90	71 - 125
Acetone	125	153		ug/L		123	56 - 142

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QC Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-647132/6
Matrix: Water
Analysis Batch: 647132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	25.0	24.5		ug/L		98	71 - 124
Bromoform	25.0	23.2		ug/L		93	61 - 132
Bromomethane	25.0	20.1		ug/L		80	55 - 144
Carbon disulfide	25.0	22.2		ug/L		89	59 - 134
Carbon tetrachloride	25.0	23.1		ug/L		92	72 - 134
Chlorobenzene	25.0	24.1		ug/L		96	80 - 120
Chlorodibromomethane	25.0	24.4		ug/L		98	75 - 125
Chloroethane	25.0	19.3		ug/L		77	69 - 136
Chloroform	25.0	23.9		ug/L		96	73 - 127
Chloromethane	25.0	17.1		ug/L		68	68 - 124
cis-1,2-Dichloroethene	25.0	24.1		ug/L		96	74 - 124
cis-1,3-Dichloropropene	25.0	24.7		ug/L		99	74 - 124
Cyclohexane	25.0	19.7		ug/L		79	59 - 135
Bromodichloromethane	25.0	24.9		ug/L		99	80 - 122
Dichlorofluoromethane	25.0	19.5		ug/L		78	76 - 127
Ethylbenzene	25.0	23.8		ug/L		95	77 - 123
Isopropylbenzene	25.0	23.7		ug/L		95	77 - 122
Methyl acetate	50.0	48.2		ug/L		96	74 - 133
Methyl tert-butyl ether	25.0	24.9		ug/L		100	77 - 120
Methylcyclohexane	25.0	22.0		ug/L		88	68 - 134
Methylene Chloride	25.0	24.4		ug/L		97	75 - 124
Styrene	25.0	24.6		ug/L		98	80 - 120
Tetrachloroethene	25.0	24.4		ug/L		98	74 - 122
Toluene	25.0	24.2		ug/L		97	80 - 122
trans-1,2-Dichloroethene	25.0	23.8		ug/L		95	73 - 127
trans-1,3-Dichloropropene	25.0	24.2		ug/L		97	80 - 120
Trichloroethene	25.0	24.1		ug/L		96	74 - 123
Trichlorofluoromethane	25.0	19.7		ug/L		79	62 - 150
Vinyl chloride	25.0	18.7		ug/L		75	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		77 - 120
Toluene-d8 (Surr)	102		80 - 120
4-Bromofluorobenzene (Surr)	106		73 - 120
Dibromofluoromethane (Surr)	106		75 - 123

Lab Sample ID: 480-203054-5 MS
Matrix: Water
Analysis Batch: 647132

Client Sample ID: MW-3S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	ND		25000	24000		ug/L		96	73 - 126
1,1,2,2-Tetrachloroethane	ND		25000	24700		ug/L		99	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25000	21300		ug/L		85	61 - 148
1,1,2-Trichloroethane	ND		25000	25800		ug/L		103	76 - 122
1,1-Dichloroethane	ND		25000	24500		ug/L		98	77 - 120
1,2,4-Trichlorobenzene	ND		25000	23000		ug/L		92	79 - 122
1,2-Dibromo-3-Chloropropane	ND		25000	22500		ug/L		90	56 - 134

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QC Sample Results

Client: Waste Management
 Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-203054-5 MS
Matrix: Water
Analysis Batch: 647132

Client Sample ID: MW-3S
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
1,2-Dibromoethane	ND		25000	26100		ug/L		104	77 - 120
1,2-Dichlorobenzene	ND		25000	24600		ug/L		98	80 - 124
1,2-Dichloroethane	ND		25000	26600		ug/L		107	75 - 120
1,2-Dichloropropane	ND		25000	25300		ug/L		101	76 - 120
1,3-Dichlorobenzene	ND		25000	25400		ug/L		102	77 - 120
1,4-Dichlorobenzene	ND		25000	25400		ug/L		102	78 - 124
2-Butanone (MEK)	ND		125000	158000		ug/L		126	57 - 140
o-Chlorotoluene	66000	F1	25000	80700	F1	ug/L		58	76 - 121
2-Hexanone	ND		125000	130000		ug/L		104	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		125000	129000		ug/L		103	71 - 125
Acetone	ND		125000	161000		ug/L		128	56 - 142
Benzene	ND		25000	25300		ug/L		101	71 - 124
Bromoform	ND		25000	22400		ug/L		90	61 - 132
Bromomethane	ND		25000	20200		ug/L		81	55 - 144
Carbon disulfide	ND		25000	22800		ug/L		91	59 - 134
Carbon tetrachloride	ND		25000	23700		ug/L		95	72 - 134
Chlorobenzene	ND		25000	26100		ug/L		104	80 - 120
Chlorodibromomethane	ND		25000	24200		ug/L		97	75 - 125
Chloroethane	ND		25000	19400		ug/L		78	69 - 136
Chloroform	ND		25000	25000		ug/L		100	73 - 127
Chloromethane	ND		25000	17500		ug/L		70	68 - 124
cis-1,2-Dichloroethene	ND		25000	25100		ug/L		100	74 - 124
cis-1,3-Dichloropropene	ND		25000	24900		ug/L		100	74 - 124
Cyclohexane	ND		25000	20800		ug/L		83	59 - 135
Bromodichloromethane	ND		25000	24200		ug/L		97	80 - 122
Dichlorofluoromethane	ND		25000	19800		ug/L		79	76 - 127
Ethylbenzene	ND		25000	26000		ug/L		104	77 - 123
Isopropylbenzene	ND		25000	24200		ug/L		97	77 - 122
Methyl acetate	ND		50000	53100		ug/L		106	74 - 133
Methyl tert-butyl ether	ND		25000	25600		ug/L		103	77 - 120
Methylcyclohexane	ND		25000	22800		ug/L		91	68 - 134
Methylene Chloride	ND		25000	24700		ug/L		99	75 - 124
Styrene	ND		25000	26200		ug/L		105	80 - 120
Tetrachloroethene	ND		25000	26400		ug/L		106	74 - 122
Toluene	ND		25000	25700		ug/L		103	80 - 122
trans-1,2-Dichloroethene	ND		25000	24500		ug/L		98	73 - 127
trans-1,3-Dichloropropene	ND		25000	24600		ug/L		98	80 - 120
Trichloroethene	ND		25000	25200		ug/L		101	74 - 123
Trichlorofluoromethane	ND		25000	21200		ug/L		85	62 - 150
Vinyl chloride	ND		25000	19800		ug/L		79	65 - 133
		MS MS							
Surrogate		%Recovery	Qualifier	Limits					
1,2-Dichloroethane-d4 (Surr)		104		77 - 120					
Toluene-d8 (Surr)		103		80 - 120					
4-Bromofluorobenzene (Surr)		108		73 - 120					
Dibromofluoromethane (Surr)		103		75 - 123					

QC Sample Results

Client: Waste Management
 Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-203054-5 MSD

Matrix: Water

Analysis Batch: 647132

Client Sample ID: MW-3S

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		25000	24500		ug/L		98	73 - 126	2	15
1,1,2,2-Tetrachloroethane	ND		25000	25500		ug/L		102	76 - 120	3	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25000	20800		ug/L		83	61 - 148	3	20
1,1,2-Trichloroethane	ND		25000	25400		ug/L		102	76 - 122	2	15
1,1-Dichloroethane	ND		25000	24800		ug/L		99	77 - 120	1	20
1,2,4-Trichlorobenzene	ND		25000	22900		ug/L		92	79 - 122	0	20
1,2-Dibromo-3-Chloropropane	ND		25000	22600		ug/L		90	56 - 134	0	15
1,2-Dibromoethane	ND		25000	26100		ug/L		104	77 - 120	0	15
1,2-Dichlorobenzene	ND		25000	24600		ug/L		98	80 - 124	0	20
1,2-Dichloroethane	ND		25000	26900		ug/L		108	75 - 120	1	20
1,2-Dichloropropane	ND		25000	26200		ug/L		105	76 - 120	3	20
1,3-Dichlorobenzene	ND		25000	25000		ug/L		100	77 - 120	2	20
1,4-Dichlorobenzene	ND		25000	25400		ug/L		102	78 - 124	0	20
2-Butanone (MEK)	ND		125000	162000		ug/L		130	57 - 140	3	20
o-Chlorotoluene	66000	F1	25000	79300	F1	ug/L		52	76 - 121	2	20
2-Hexanone	ND		125000	129000		ug/L		103	65 - 127	1	15
4-Methyl-2-pentanone (MIBK)	ND		125000	127000		ug/L		102	71 - 125	1	35
Acetone	ND		125000	169000		ug/L		135	56 - 142	5	15
Benzene	ND		25000	25300		ug/L		101	71 - 124	0	13
Bromoform	ND		25000	22900		ug/L		92	61 - 132	2	15
Bromomethane	ND		25000	20200		ug/L		81	55 - 144	0	15
Carbon disulfide	ND		25000	23000		ug/L		92	59 - 134	1	15
Carbon tetrachloride	ND		25000	23800		ug/L		95	72 - 134	0	15
Chlorobenzene	ND		25000	25300		ug/L		101	80 - 120	3	25
Chlorodibromomethane	ND		25000	24200		ug/L		97	75 - 125	0	15
Chloroethane	ND		25000	19300		ug/L		77	69 - 136	1	15
Chloroform	ND		25000	25200		ug/L		101	73 - 127	1	20
Chloromethane	ND		25000	17300		ug/L		69	68 - 124	1	15
cis-1,2-Dichloroethene	ND		25000	25500		ug/L		102	74 - 124	2	15
cis-1,3-Dichloropropene	ND		25000	25400		ug/L		102	74 - 124	2	15
Cyclohexane	ND		25000	20600		ug/L		82	59 - 135	1	20
Bromodichloromethane	ND		25000	25600		ug/L		103	80 - 122	6	15
Dichlorofluoromethane	ND		25000	19100		ug/L		76	76 - 127	4	20
Ethylbenzene	ND		25000	24700		ug/L		99	77 - 123	5	15
Isopropylbenzene	ND		25000	23700		ug/L		95	77 - 122	2	20
Methyl acetate	ND		50000	54900		ug/L		110	74 - 133	3	20
Methyl tert-butyl ether	ND		25000	27300		ug/L		109	77 - 120	6	37
Methylcyclohexane	ND		25000	22800		ug/L		91	68 - 134	0	20
Methylene Chloride	ND		25000	25200		ug/L		101	75 - 124	2	15
Styrene	ND		25000	25800		ug/L		103	80 - 120	2	20
Tetrachloroethene	ND		25000	24800		ug/L		99	74 - 122	6	20
Toluene	ND		25000	24500		ug/L		98	80 - 122	5	15
trans-1,2-Dichloroethene	ND		25000	24000		ug/L		96	73 - 127	2	20
trans-1,3-Dichloropropene	ND		25000	24200		ug/L		97	80 - 120	1	15
Trichloroethene	ND		25000	25100		ug/L		100	74 - 123	0	16
Trichlorofluoromethane	ND		25000	21200		ug/L		85	62 - 150	0	20
Vinyl chloride	ND		25000	19300		ug/L		77	65 - 133	3	15

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QC Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-203054-5 MSD

Matrix: Water

Analysis Batch: 647132

Client Sample ID: MW-3S

Prep Type: Total/NA

Surrogate	MSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	108		77 - 120
Toluene-d8 (Surr)	101		80 - 120
4-Bromofluorobenzene (Surr)	107		73 - 120
Dibromofluoromethane (Surr)	106		75 - 123

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QC Association Summary

Client: Waste Management
Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

GC/MS VOA

Analysis Batch: 647035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-203054-1	Trip Blank	Total/NA	Water	8260C	
480-203054-2	DUP-20221020	Total/NA	Water	8260C	
480-203054-3	MW-13R	Total/NA	Water	8260C	
480-203054-4	MW-15R	Total/NA	Water	8260C	
480-203054-5	MW-3S	Total/NA	Water	8260C	
480-203054-7	MW-8R	Total/NA	Water	8260C	
MB 480-647035/8	Method Blank	Total/NA	Water	8260C	
LCS 480-647035/6	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 647102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-203054-6	MW-7R	Total/NA	Water	8260C	
480-203054-8	MW-9R	Total/NA	Water	8260C	
MB 480-647102/7	Method Blank	Total/NA	Water	8260C	
LCS 480-647102/5	Lab Control Sample	Total/NA	Water	8260C	
480-203054-8 MS	MW-9R	Total/NA	Water	8260C	
480-203054-8 MSD	MW-9R	Total/NA	Water	8260C	

Analysis Batch: 647132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-203054-5 - DL	MW-3S	Total/NA	Water	8260C	
MB 480-647132/8	Method Blank	Total/NA	Water	8260C	
LCS 480-647132/6	Lab Control Sample	Total/NA	Water	8260C	
480-203054-5 MS	MW-3S	Total/NA	Water	8260C	
480-203054-5 MSD	MW-3S	Total/NA	Water	8260C	

Lab Chronicle

Client: Waste Management
Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Client Sample ID: Trip Blank

Date Collected: 10/20/22 00:00

Date Received: 10/21/22 10:46

Lab Sample ID: 480-203054-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	647035	ATG	EET BUF	10/26/22 02:35

Client Sample ID: DUP-20221020

Date Collected: 10/20/22 00:00

Date Received: 10/21/22 10:46

Lab Sample ID: 480-203054-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	647035	ATG	EET BUF	10/26/22 02:58

Client Sample ID: MW-13R

Date Collected: 10/20/22 12:36

Date Received: 10/21/22 10:46

Lab Sample ID: 480-203054-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		40	647035	ATG	EET BUF	10/26/22 03:21

Client Sample ID: MW-15R

Date Collected: 10/20/22 11:22

Date Received: 10/21/22 10:46

Lab Sample ID: 480-203054-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	647035	ATG	EET BUF	10/26/22 03:44

Client Sample ID: MW-3S

Date Collected: 10/20/22 15:02

Date Received: 10/21/22 10:46

Lab Sample ID: 480-203054-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		500	647035	ATG	EET BUF	10/26/22 04:08
Total/NA	Analysis	8260C	DL	1000	647132	ATG	EET BUF	10/26/22 15:55

Client Sample ID: MW-7R

Date Collected: 10/21/22 09:27

Date Received: 10/21/22 10:46

Lab Sample ID: 480-203054-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	647102	AXK	EET BUF	10/26/22 11:55

Client Sample ID: MW-8R

Date Collected: 10/20/22 14:18

Date Received: 10/21/22 10:46

Lab Sample ID: 480-203054-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		4	647035	ATG	EET BUF	10/26/22 04:31

Lab Chronicle

Client: Waste Management
Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Client Sample ID: MW-9R

Date Collected: 10/21/22 08:15

Date Received: 10/21/22 10:46

Lab Sample ID: 480-203054-8

Matrix: Water

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Analysis	8260C		4	647102	AXK	EET BUF	10/26/22 12:17

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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Accreditation/Certification Summary

Client: Waste Management
Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	Dichlorofluoromethane

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Method Summary

Client: Waste Management
Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
5030C	Purge and Trap	SW846	EET BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



Sample Summary

Client: Waste Management
Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-203054-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-203054-1	Trip Blank	Water	10/20/22 00:00	10/21/22 10:46
480-203054-2	DUP-20221020	Water	10/20/22 00:00	10/21/22 10:46
480-203054-3	MW-13R	Water	10/20/22 12:36	10/21/22 10:46
480-203054-4	MW-15R	Water	10/20/22 11:22	10/21/22 10:46
480-203054-5	MW-3S	Water	10/20/22 15:02	10/21/22 10:46
480-203054-6	MW-7R	Water	10/21/22 09:27	10/21/22 10:46
480-203054-7	MW-8R	Water	10/20/22 14:18	10/21/22 10:46
480-203054-8	MW-9R	Water	10/21/22 08:15	10/21/22 10:46

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Chain of Custody Record



Client Information		Lab PM: VanDette, Ryan T		COC No: 480-176191-30197.1	
Client Contact: Chad Moose		E-Mail: Ryan.VanDette@et.eurofinsus.com		Page: Page 1 of 1	
Company: Waste Management		PWSID:		Job #:	
Address: Tullytown Landfill, 444 Oxford Valley Road		Due Date Requested:		Carmer Tracking No(s):	
City: Morrisville		TAT Requested (days): STD		State of Origin:	
State, Zip: PA, 19067		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Analysis Requested:	
Phone: 215-269-2114(Tel) 215-699-8315(Fax)		PO #: 11231631		Total Number of Containers: <input checked="" type="checkbox"/>	
Email: cmoose@wm.com		WG #:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)	
Project Name: ChemTrol Site/NY22 Event Desc: ChemTrol Annual Groundwater		Project #: 48002447		Other:	
Site: New York		SSOW#:		Special Instructions/Note:	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, B=Trizma, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	826C - Volatiles	Special Instructions/Note:
Trip Blank	10/24/22	-	-	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	A	
DUP ~ 20221020	10/20/22	-	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
MW-13R	10/20/22	1236	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	
MW-15R	10/20/22	1122	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	
MW-3S	10/20/22	1502	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	
MW-7R	10/20/22	0927	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	
MW-8R	10/22/22	1418	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	
MW-9R	10/24/22	0815	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	



480-203054 Chain of Custody

Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Special Instructions/QC Requirements:			

Empty Kit Relinquished by: <i>[Signature]</i>		Date: _____	
Relinquished by: <i>[Signature]</i>		Date: 10/20/22	
Relinquished by: _____		Date: _____	
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No.: _____	

Received by: _____	Date/Time: _____	Company: _____
Received by: _____	Date/Time: _____	Company: _____
Received by: _____	Date/Time: 10/24/22 1046	Company: _____
Cooler Temperature(s) °C and Other Remarks: 11.2 °C, ICE		



ATTACHMENT C

Historical Data Trend Plots

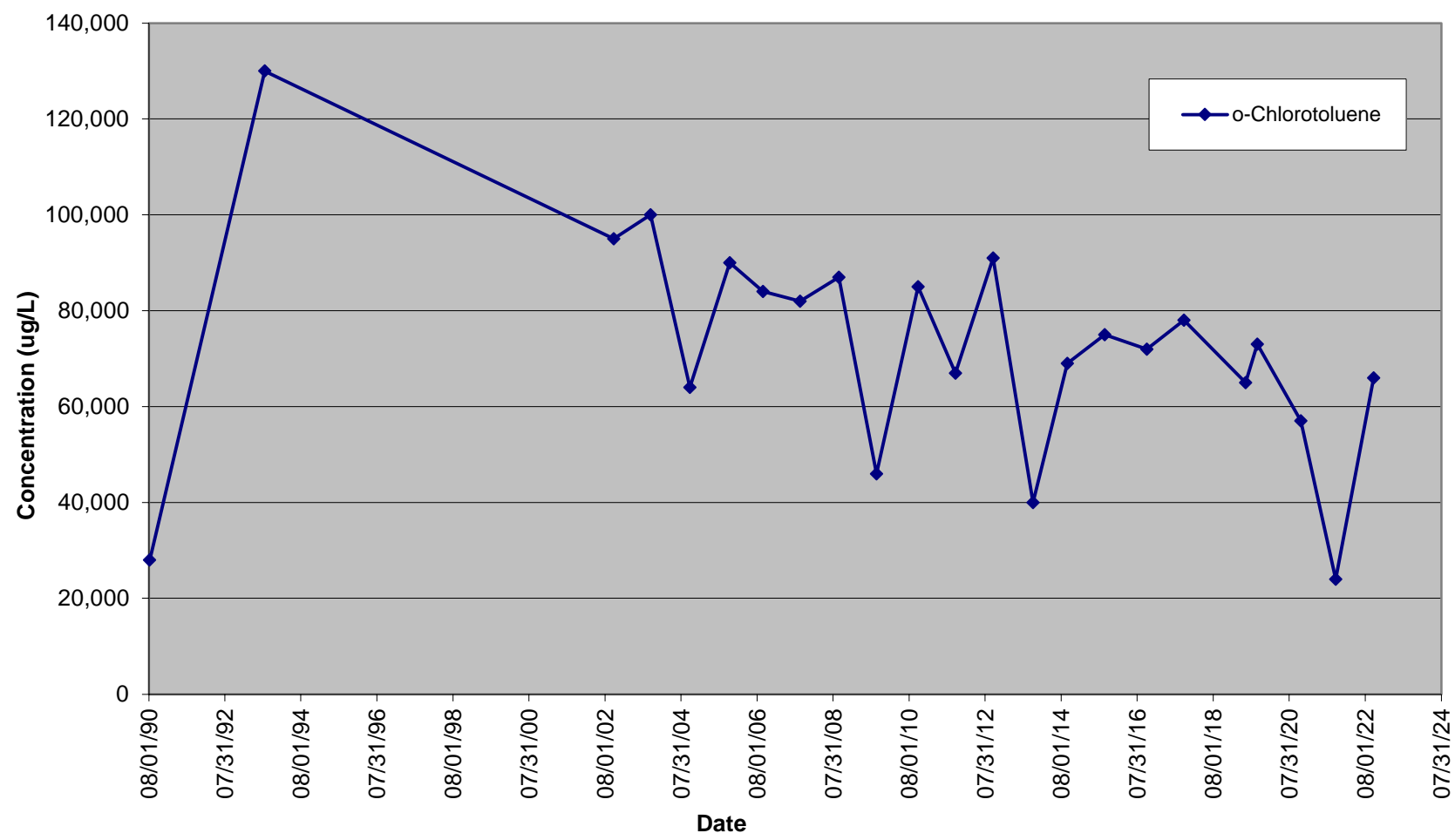
CHEM-TROL SITE

Groundwater Analytical Data for Well MW-3S (ug/L)

Date	o-Chlorotoluene
08/09/90	28,000
08/19/93	130,000
10/23/02	95,000
10/13/03	100,000
10/26/04	64,000
11/11/05	90,000
09/27/06	84,000
09/20/07	82,000
09/24/08	87,000
09/22/09	46,000
10/27/10	85,000
10/20/11	67,000
10/17/12	91,000
11/05/13	40,000
09/29/14	69,000
09/23/15	75,000
11/02/16	72,000
10/25/17	78,000
06/07/19	65,000
09/30/19	73,000
11/20/20	57,000
10/22/21	24,000
10/20/22	66,000

Note: Data not collected 10/30/18 due to the well being dry; as a result, 2018 annual sample collected 06/07/19.


Monitoring Well MW-3S
Chem-Trol Site, Site No. 915015



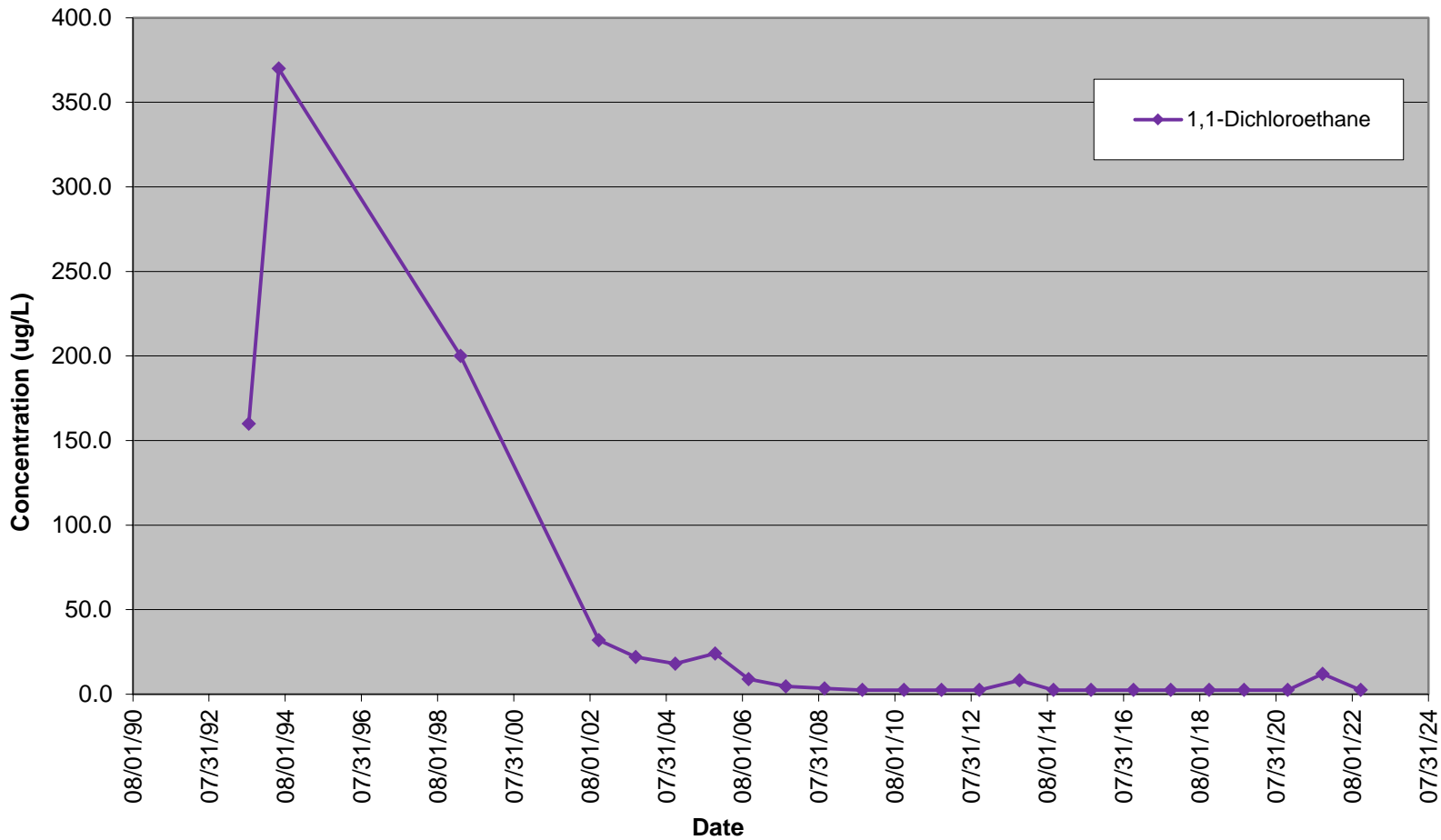
CHEM-TROL SITE

Groundwater Analytical Data for Well MW-8R (ug/L)

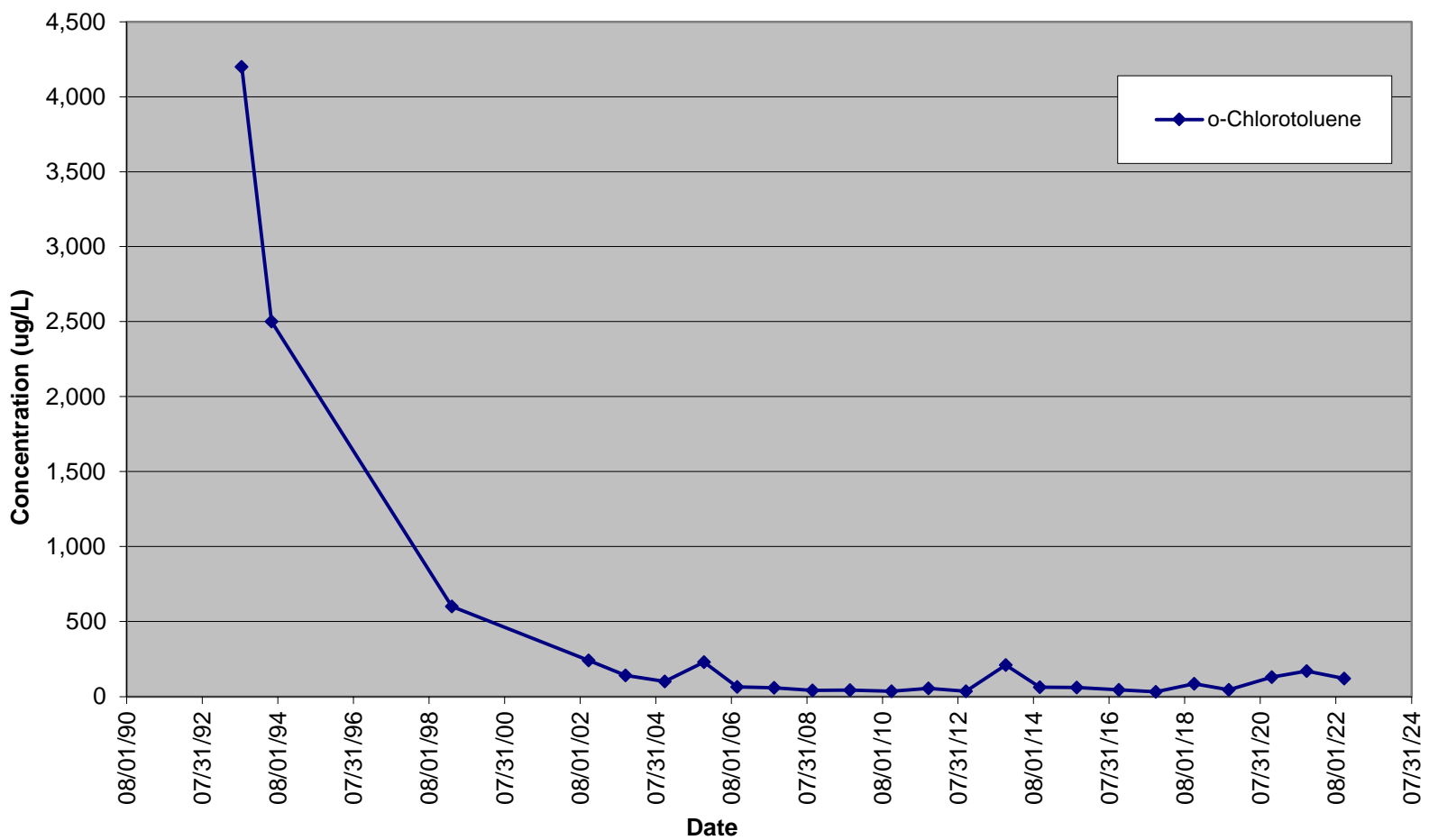
Date	1,1-Dichloroethane	o-Chlorotoluene
08/16/93	160.0	4,200
06/01/94	370.0	2,500
03/10/99	200.0	600.0
10/22/02	32.0	240.0
10/13/03	22.0	140.0
10/26/04	18.0	100.0
11/11/05	24.0	230.0
09/27/06	8.9	63.0
09/20/07	4.7	58.0
09/24/08	3.4	40.0
09/22/09	2.5	43.0
10/27/10	2.5	35.0
10/20/11	2.5	55.0
10/17/12	2.5	34.0
11/05/13	8.2	210.0
09/29/14	2.5	61.0
09/23/15	2.5	59.0
11/02/16	2.5	44.0
10/25/17	2.5	31.0
10/30/18	2.5	85.0
09/30/19	2.5	44.0
11/20/20	2.5	130.0
10/22/21	12.0	170.0
10/20/22	2.5	120.0

 Value is equal to 1/2 the detection limit.

Monitoring Well MW-8R
Chem-Trol Site, Site No. 915015



Monitoring Well MW-8R
Chem-Trol Site, Site No. 915015



CHEM-TROL SITE

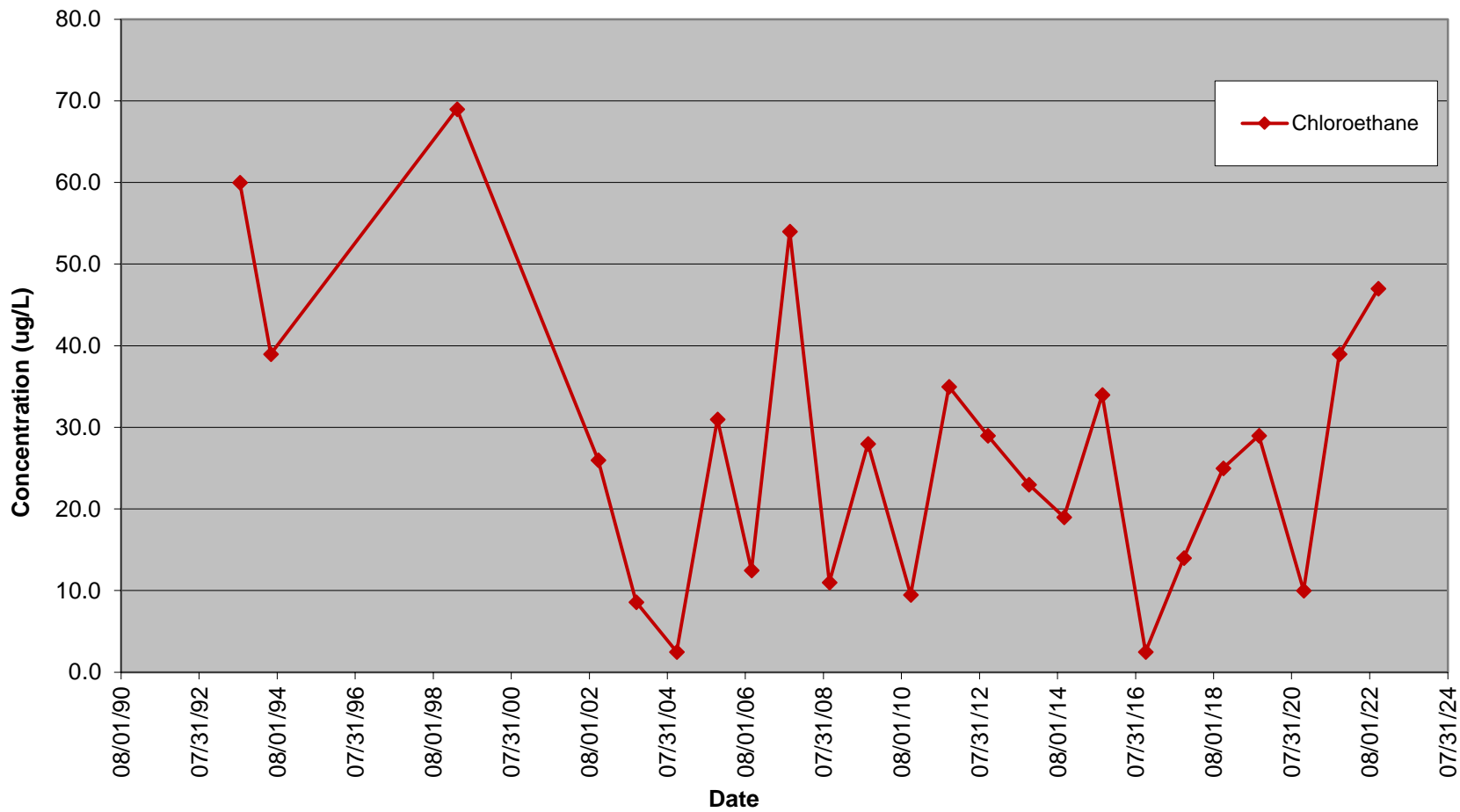
Groundwater Analytical Data for Well MW-9R (ug/L)

Date	Chloroethane	1,1-Dichloroethane	o-Chlorotoluene	1,1,1-Trichloroethane	Trichloroethene
08/16/93	60.0	1,000		1,300	330.0
06/01/94	39.0	860.0	620.0	2,800	300.0
03/10/99	69.0	470.0	180.0	630.0	260.0
10/22/02	26.0	190.0	1,100	540.0	8.2
10/13/03	8.6	93.0	140.0	460.0	10.0
10/26/04	2.5	2.5	2.5	2.5	2.5
11/11/05	31.0	180.0	190.0	410.0	2.4
09/27/06	12.5	46.0	18.0	440.0	12.5
09/20/07	54.0	270.0	2,000	1,800	5.1
09/24/08	11.0	64.0	62.0	170.0	0.68
09/22/09	28.0	85.0	33.0	300.0	2.5
10/27/10	9.5	93.0	100.0	310.0	2.5
10/20/11	35.0	140.0	150.0	250.0	
10/17/12	29.0	150.0	380.0	410.0	
11/05/13	23.0	82.0	97.0	220.0	2.5
09/29/14	19.0	300.0	860.0	540.0	7.1
09/23/15	34.0	350.0	1900.0	530.0	2.5
11/02/16	2.5	31.0	38.0	82.0	2.5
10/25/17	14.0	410.0	2100.0	640.0	2.5
10/30/18	25.0	130.0	40.0	150.0	2.5
09/30/19	29.0	89.0	39.0	200.0	2.5
11/20/20	10.0	120.0	2.5	200.0	2.5
10/22/21	39.0	240.0	2.5	130.0	2.5
10/20/22	47.0	300.0	2.5	150.0	2.5

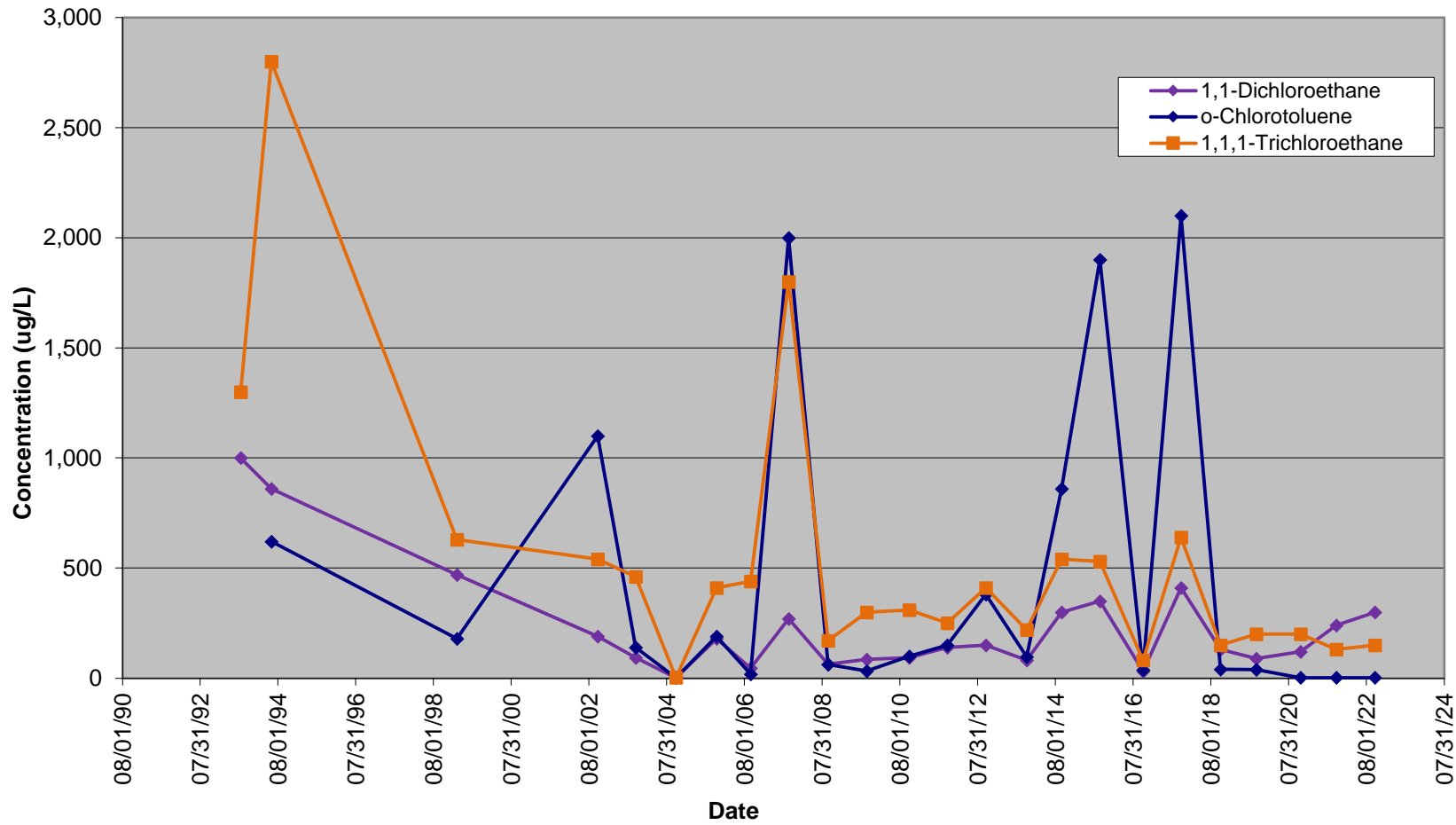
Data not included due to 1/2 the detection limit being higher than the previous 3 years of positive results.

Value is equal to 1/2 the detection limit.

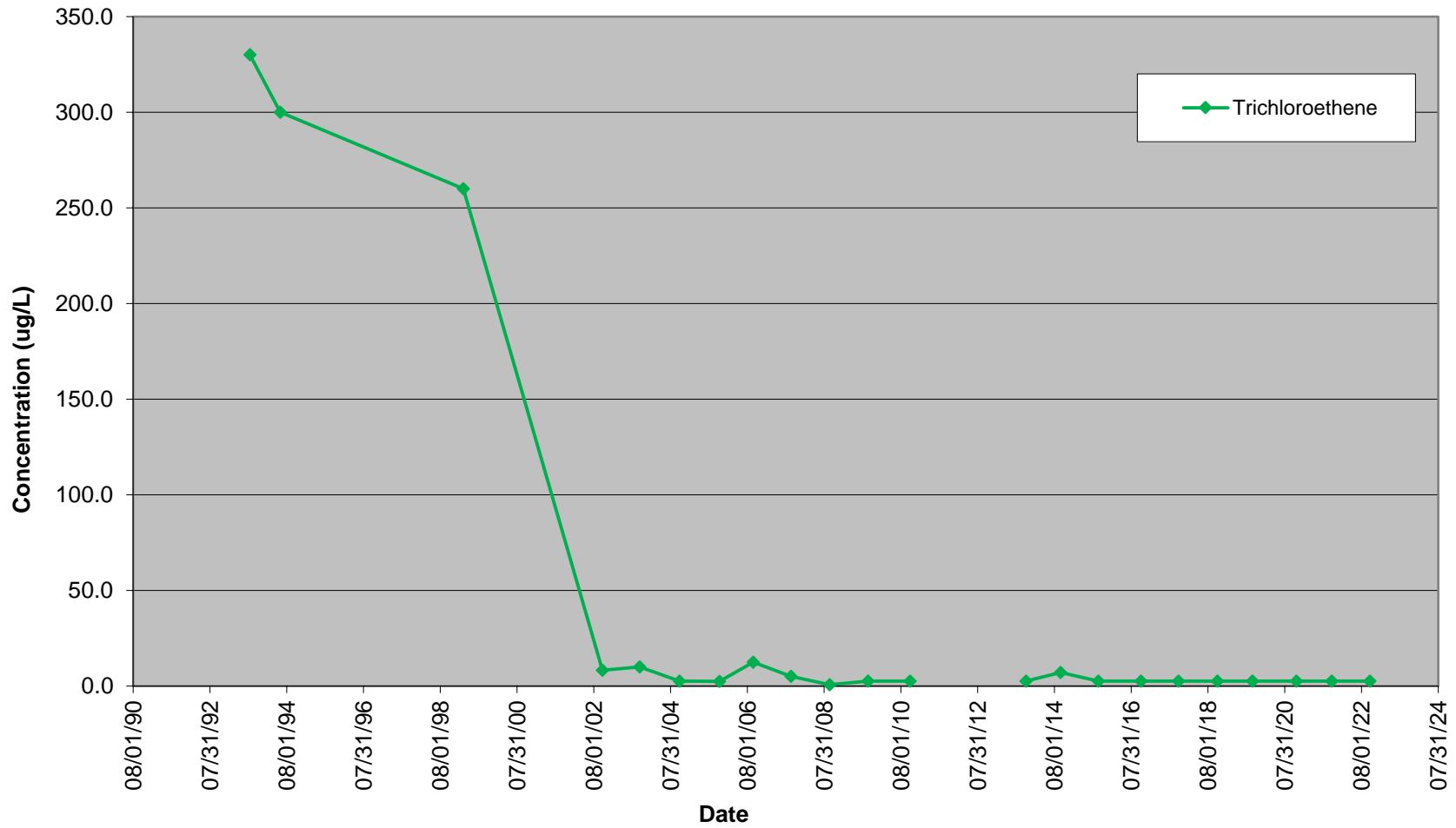
Monitoring Well MW-9R
Chem-Trol Site, Site No. 915015



Monitoring Well MW-9R
Chem-Trol Site, Site No. 915015



Monitoring Well MW-9R
Chem-Trol Site, Site No. 915015



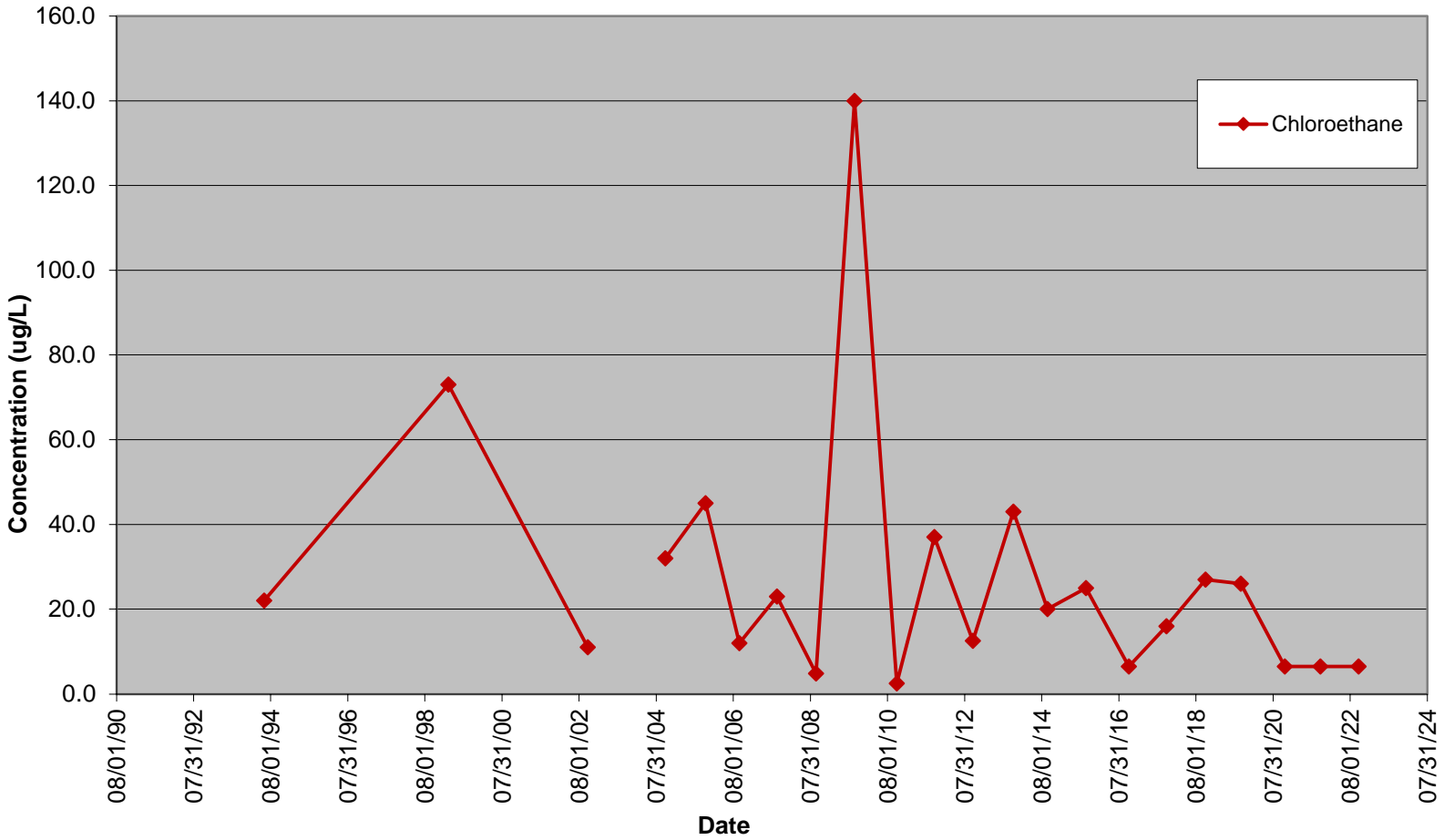
CHEM-TROL SITE

Groundwater Analytical Data for Well MW-13R (ug/L)

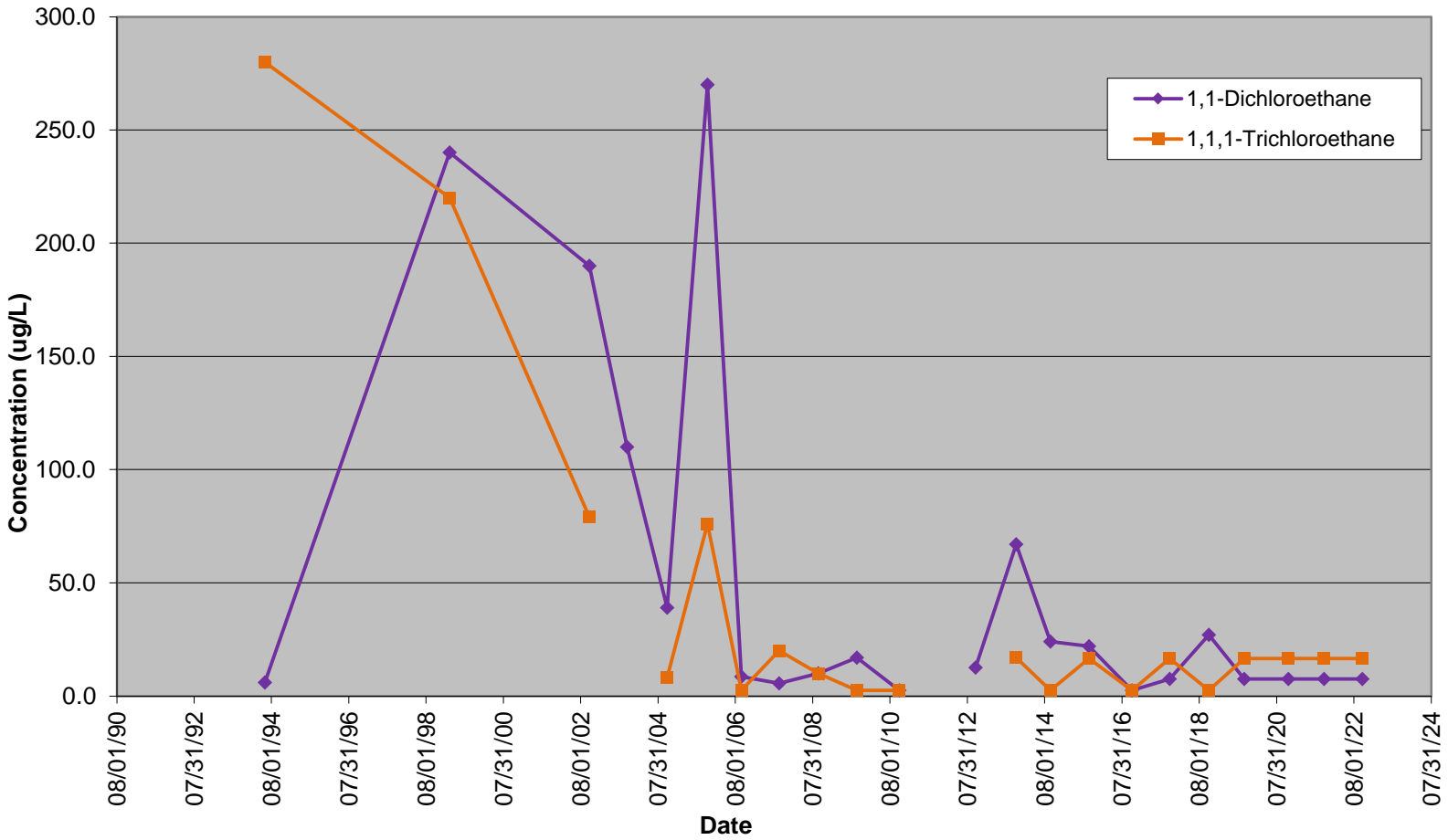
Date	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane	o-Chlorotoluene
05/31/94	22.0	6.0	280.0	1,700
03/11/99	73.0	240.0	220.0	
10/22/02	11.0	190.0	79.0	4,200
10/13/03		110.0		4,500
10/26/04	32.0	39.0	8.2	1,900
11/11/05	45.0	270.0	76.0	4,900
09/27/06	12.0	8.6	2.5	680.0
09/20/07	23.0	5.6	20.0	440.0
09/24/08	4.8	10.0	10.0	250.0
09/22/09	140.0	17.0	2.5	600.0
10/27/10	2.5	2.5	2.5	210.0
10/20/11	37.0			820.0
10/17/12	12.5	12.5		410.0
11/05/13	43.0	67.0	17.0	2,500
09/24/14	20.0	24.0	2.5	2,000
09/23/15	25.0	22.0	16.5	3200
11/02/16	6.5	2.5	2.5	1200
10/25/17	16.0	7.5	16.5	2000
10/30/18	27.0	27.0	2.5	2300
09/30/19	26.0	7.5	16.5	2500
11/20/20	6.5	7.5	16.5	1100
10/22/21	6.5	7.5	16.5	1700
10/20/22	6.5	7.5	16.5	1600

- Data not included due to high detection limits for ND values: (1) 2003 - 200 ug/L except for Total Xylenes, which was 600 ug/L.
- Data not included due to 1/2 the detection limit being higher than the previous 3 years of positive results.
- Value is equal to 1/2 the detection limit.

Monitoring Well MW-13R
Chem-Trol Site, Site No. 915015



Monitoring Well MW-13R
Chem-Trol Site, Site No. 915015



Monitoring Well MW-13R
Chem-Trol Site, Site No. 915015

