

AECOM 1 John James Audubon Pkwy Suite 210 Amherst, NY 14228 716 856 5636 tel www.aecom.com

March 14, 2022

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: 02/15/21 – 02/15/22 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, 2021 to February 15, 2022¹. This report is being submitted as requested by the New York State Department of Environmental Conservation (NYSDEC) in its letter dated January 11, 2022 to Mr. Chad Moose. 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, 2022.

I. <u>INTRODUCTION</u>

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 2022 effluent monitoring sample was collected on February 23, 2022 and is reported herein; the February 2022 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) in order to monitor the performance of the groundwater collection system as required in the ROD:

- 1. Perform monthly operation and maintenance tasks on the system;
- Perform periodic cleaning of the air stripper, 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.) (Note: See Section IV O&M Plan Compliance for discussion
 regarding replacement of the HDPE air stripper and mechanical components with a new
 stainless steel air stripper and mechanical components in June 2021.);
- Sample and analyze the groundwater collection and treatment system influent and effluent on a monthly basis 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 2021 through February 2022 were below the concentration and mass loading discharge limits established by NYSDEC for 10 of 12 months. TSS exceeded the concentration limit in the March 2021 and July 2021 samples (note there is no mass loading limit for TSS). Total iron exceeded the concentration limit but not the mass loading limit in March 2021. Response actions for these events are presented in Section IV. Details for the events are as follows:

- March 2021 effluent sample There was a TSS detection of 111 milligrams per liter (mg/L) (vs. the concentration limit of 20 mg/L). Mass loading of TSS was 5.88 pounds per day (lbs/day) (note there is no mass loading limit for TSS). There was a total iron detection of 4,800 micrograms per liter (μg/L) (vs. the concentration limit of 3,000 μg/L). Mass loading of total iron was 0.25 lbs/day, below the limit of 3.61 lbs/day. On March 25, 2021, AECOM performed a flush-and-rinse acid wash of the air stripper. The system was sampled on April 26, 2021; analytical data were received on May 14, 2021. There were no exceedances of the concentration or mass loading limits for any parameter in the effluent samples from the April 26, 2021 sampling event.
- July 2021 effluent sample There was a TSS detection of 28.8 mg/L (vs. the concentration limit of 20 mg/L). Mass loading of TSS was 0.71 lbs/day (note there is no mass loading limit for TSS). On August 12, 2021, AECOM performed pressure washing and mechanical cleaning of the air stripper trays. The system was sampled on August 19, 2021; analytical



data were received on August 31, 2021. There were no exceedances of the concentration or mass loading limits for any parameter in the effluent samples from the August 19, 2021 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 2022 samples will be submitted with the March 2022 sample data not later than April 15, 2022.

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 2021 is included in Table 1 - Summary of Groundwater Elevation Measurements. Quarterly groundwater elevation contours for 2021 are plotted on Figures 2 through 5. First quarter 2022 groundwater elevation data are scheduled to be collected in March 2022 and will be included in the 2022/2023 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 2022 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 22, 2021. Groundwater samples were successfully collected from MW-3S, MW-7R, MW-8R, MW-9R, MW-13R, and MW-15R and analyzed by TestAmerica Laboratories, Inc. (Amherst, NY) for VOCs by EPA Method 8260C. A summary of VOC detections for the annual 2021 groundwater-monitoring event is included as Table 2, Detection Summary. The complete 2021 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 2021 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 2021 and January and February 2022 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 2021 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:

 June 2021 - During the first week of June 2021, AECOM subcontractor Matrix Environmental Technologies, Inc. (Matrix) performed planned upgrade maintenance on the treatment



system which included replacing the HDPE air stripper with a QED Model EZ-12.6HF stainless steel air stripper, replacing the blower, replacing constricted effluent piping between the air stripper and the cleanout outside the treatment building, and adding a cleanout for the new effluent piping. With the new stainless steel air stripper, acid washes are no longer appropriate to clean the air stripper trays. The trays are now periodically removed from the air stripper unit and cleaned using mechanical methods (i.e., scraping, pressure washing). Some system piping may still require an acid flush periodically to remove accumulated precipitates.

September 20, 2021 – During a site visit to collect the third quarter 2021 quarterly groundwater levels, AECOM noted an error message for the EW-1 pump. Matrix performed a maintenance visit and determined that the pump needs to be replaced. The pump has been ordered and replacement is scheduled for March 2022.

In a letter dated April 13, 2021, NYSDEC approved the 02/15/20-02/15/21 PRR and associated IC/EC Certification.

V. <u>CONCLUSIONS AND RECOMMENDATIONS</u>

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 2022 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.

The HDPE air stripper was in operation since 2001. A replacement stainless steel air stripper (QED Model EZ-12.6HF) was installed as of the first week of June 2021. The new air stripper has an updated design with pull out trays to facilitate more efficient cleaning of the system. The new air stripper is cleaned by mechanical means instead of acid washes.

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

James L. Kayon

Enclosures (Tables, Figures)

Attachments (IC/EC Form, 2021 Annual Groundwater Data Report, Historical Trend Plots)

cc: Chad Moose, P.G. (SC Holdings, Inc.), electronic copy w/attachments Ryan Donovan (SC Holdings, Inc.), electronic copy w/attachments Donald McCall, P.E. (AECOM), electronic copy w/attachments 60652207 Project File

TABLES

Table 1: Summary of Groundwater Elevations – 2021

Table 2: Groundwater Sample Detection Summary – 2021

Table 1 Chem-Trol Site, Blasdell, NY Summary of Groundwater Elevation Measurements 2021

		10) Date	20	2 Date	30	Date	40	Date	
Pumping Wells		3/25	5/2021	6/22/2021		9/20/2021		12/9/2021		
		Monitoring	Depth To	1st Quarter	Depth To	2nd Quarter	Depth To	3rd Quarter	Depth To	4th Quarter
	Well ID	Point (TIC)	Water (ft)	Elevation (ft)						
	EW-1	624.07	15.43	608.64	16.21	607.86	16.09	607.98	12.44	611.63
	EW-2	622.16	12.91	609.25	13.76	608.40	13.84	608.32	12.93	609.23
	EW-3	621.10	14.09	607.01	13.73	607.37	12.41	608.69	13.02	608.08

East of Cap (North to South)

	Monitoring	Depth To	1st Quarter	Depth To	2nd Quarter	Depth To	3rd Quarter	Depth To	4th Quarter
Well ID	Point (TIC)	Water (ft)	Elevation (ft)						
MW-6S	638.54	7.52	631.02	10.90	627.64	11.65	626.89	6.81	631.73
MW-6R	638.64	17.41	621.23	17.92	620.72	18.41	620.23	17.46	621.18
P-1S	642.80	5.49	637.31	7.09	635.71	9.80	633.00	4.46	638.34
MW-1R	645.36	7.36	638.00	8.56	636.80	11.51	633.85	5.39	639.97
MW-1S	645.40	5.74	639.66	8.29	637.11	11.28	634.12	4.45	640.95
MW-7S	642.85	4.61	638.24	8.93	633.92	>11.25	<631.60	3.58	639.27
MW-7R	642.28	5.77	636.51	7.02	635.26	9.31	632.97	4.63	637.65

Center of Cap (North to South)

	1 ,		,						
	Monitoring	Depth To	1st Quarter	Depth To	2nd Quarter	Depth To	3rd Quarter	Depth To	4th Quarter
Well ID	Point (TIC)	Water (ft)	Elevation (ft)						
P-5S	637.54	11.29	626.25	13.20	624.34	Dry	<624.09	8.31	629.23
P-5R	637.88	Dry	<618.86	0.00	0.00	Dry	<617.79	18.93	618.95
MW-5S	636.28	11.60	624.68	0.00	0.00	13.98	622.30	9.62	626.66
P-2R	646.96	8.76	638.20	11.47	635.49	14.11	632.85	6.52	640.44
P-2S	646.44	8.72	637.72	10.32	636.12	12.48	633.96	7.66	638.78
MW-2S	644.85	6.63	638.22	8.21	636.64	10.71	634.14	5.45	639.40

West of Cap (North to South)

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	Monitoring	Depth To	1st Quarter	Depth To	2nd Quarter	Depth To	3rd Quarter	Depth To	4th Quarter
Well ID	Point (TIC)	Water (ft)	Elevation (ft)						
MW-4S	637.18	13.51	623.67	15.24	621.94	Dry	<621.81	12.52	624.66
MW-4R	637.02	26.76	610.26	27.61	609.41	27.34	609.68	25.91	611.11
P-4S	636.54	15.47	621.07	15.64	620.90	15.71	<620.61	14.26	622.28
MW-3S	637.64	17.23	620.41	17.80	619.84	17.51	620.13	16.24	621.40
P-3R	639.92	19.71	620.21	19.62	620.30	19.61	620.31	19.59	620.33
P-3S	639.46	19.10	620.36	19.33	620.13	19.08	620.38	18.09	621.37
OW-3R	638.78	23.15	615.63	23.93	614.85	23.81	614.97	22.69	616.09

West of Trench (North to South)

	Treet er mener (ner ar te ee aan)								
	Monitoring	Depth To	1st Quarter	Depth To	2nd Quarter	Depth To	3rd Quarter	Depth To	4th Quarter
Well ID	Point (TIC)	Water (ft)	Elevation (ft)						
OW-1FR	620.42	9.96	610.46	11.08	609.34	11.77	608.65	9.11	611.31
P97-5	613.65	3.71	609.94	4.74	608.91	5.42	608.23	2.87	610.78
MW-10S	615.15	4.13	611.02	5.26	609.89	Dry		3.38	611.77
MW-10R	615.47	4.91	610.56	6.29	609.18	6.91	608.56	4.02	611.45
P97-4	614.8	4.59	610.21	5.72	609.08	6.58	608.22	3.72	611.08
MW-8S	617.28	7.16	610.12	7.15	610.13	Dry	<610.28	6.04	611.24
MW-8R	617.38	7.13	610.25	8.28	609.10	8.69	608.69	6.34	611.04
P97-3	617.66	7.14	610.52	8.48	609.18	8.58	609.08	6.29	611.37
MW-9RD	619.13	8.01	611.12	6.61	612.52	7.85	611.28	8.23	610.90
MW-9R	619.17	8.40	610.77	9.89	609.28	10.64	608.53	7.49	611.68
MW-9S	619.91	8.90	611.01	0.00	0.00	Dry	<609.56	8.01	611.90
OW-2FR	624.14	12.99	611.15	12.92	611.22	12.45	611.69	12.41	611.73
P97-2	619.07	7.34	611.73	8.76	610.31	8.70	610.37	7.00	612.07
P97-1	619.97	7.18	612.79	8.53	611.44	8.65	611.32	7.03	612.94
MW-12R	621.59	7.82	613.77	9.92	611.67	11.31	610.28	8.02	613.57
MW-12S	621.17	3.83	617.34	0.00	0.00	7.38	<611.79	4.11	617.06

West of Smokes Creek (North to South)

	Monitoring	Depth To	1st Quarter	Depth To	2nd Quarter	Depth To	3rd Quarter	Depth To	4th Quarter
Well ID	Point (TIC)	Water (ft)	Elevation (ft)						
MW-13R	615.14	5.68	609.46	6.67	608.47	7.55	607.59	4.96	610.18
MW-14R	618.55	4.91	613.64	5.39	613.16	5.73	612.82	5.19	613.36

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Table 2

Detection Summary

Client: Waste Management Job ID: 480-191354-1

Project/Site: ChemTrol Site - Annual Groundwater

Client Sample ID: Trip Blank Lab Sample ID: 480-191354-1

No Detections.

Client Sample ID: DUP Lab Sample ID: 480-191354-2

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Cyclohexane	24	5.0	ug/L		8260C	Total/NA
Methylcyclohexane	9.9	5.0	ug/L	1	8260C	Total/NA

Client Sample ID: MW-13R Lab Sample ID: 480-191354-3

Analyte	Result	Qualifier	RL	MDL Unit	Dil Fac	D Method	Prep Type
o-Chlorotoluene	1700	F1	34	ug/L	40	8260C	Total/NA

Client Sample ID: MW-15R Lab Sample ID: 480-191354-4

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Cyclohexane	26	5.0	ug/L		8260C	Total/NA
Methylcyclohexane	11	5.0	ug/L	1	8260C	Total/NA

Client Sample ID: MW-3S Lab Sample ID: 480-191354-5

Analyte	Result Qua	alifier RL	MDL Un	it Dil Fac	D	Method	Prep Type
o-Chlorotoluene	24000	430	ug/	<u>L 500</u>	_	8260C	Total/NA
Trichloroethene	310	230	ug/	L 500		8260C	Total/NA

Client Sample ID: MW-7R Lab Sample ID: 480-191354-6

No Detections.

Client Sample ID: MW-8R Lab Sample ID: 480-191354-7

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Me	ethod Prep Type	
1,1-Dichloroethane	12	5.0	ug/L	4 82	60C Total/NA	
o-Chlorotoluene	170	5.0	ua/L	4 82	60C Total/NA	

Client Sample ID: MW-9R Lab Sample ID: 480-191354-8

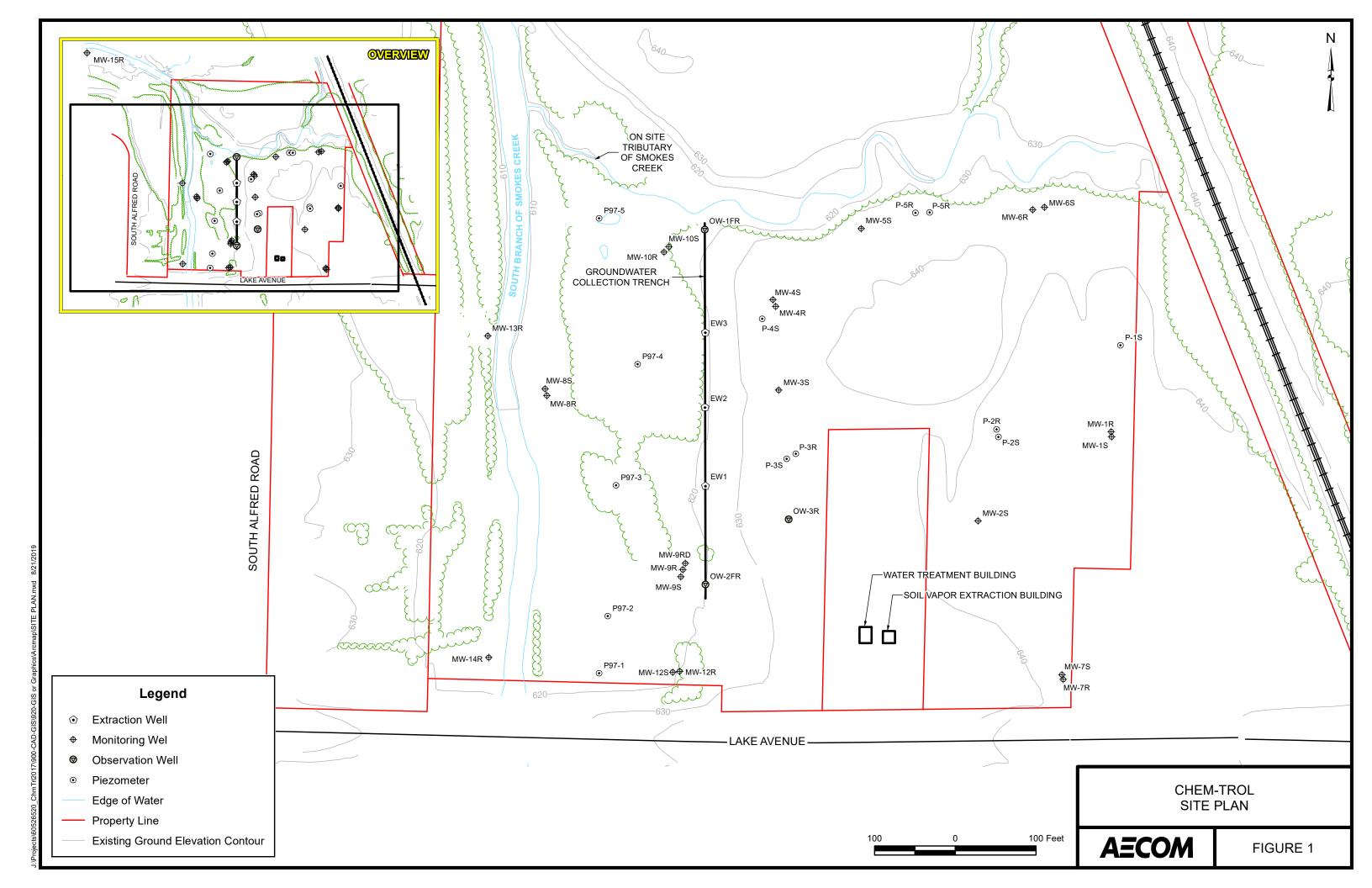
Analyte	Result Qua	alifier RL	MDL Unit	Dil Fac [Method	Prep Type
1,1,1-Trichloroethane	130	5.0	ug/L	4	8260C	Total/NA
1,1-Dichloroethane	240	5.0	ug/L	4	8260C	Total/NA
Chloroethane	39	5.0	ua/l	4	8260C	Total/NA

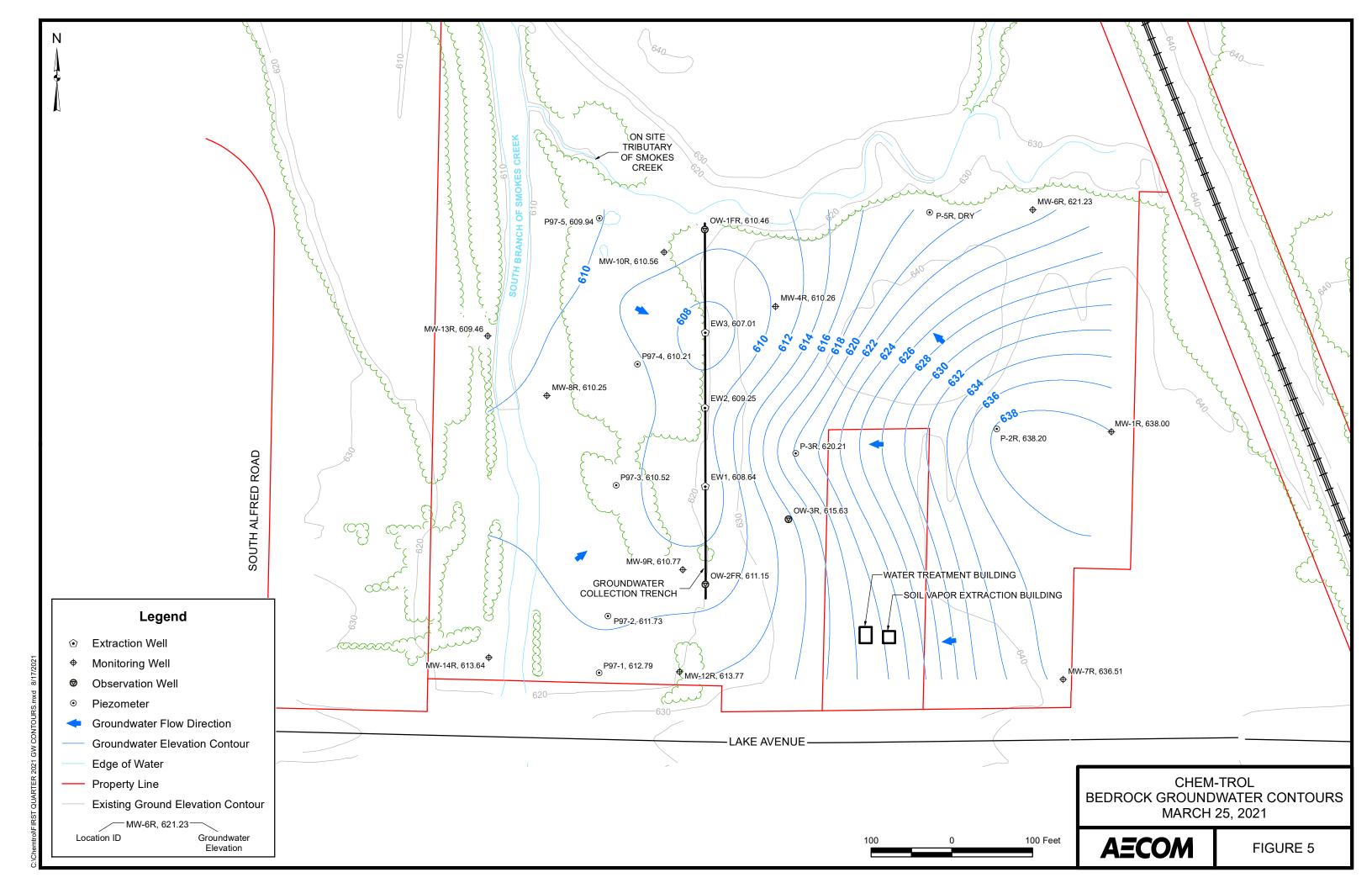
This Detection Summary does not include radiochemical test results.

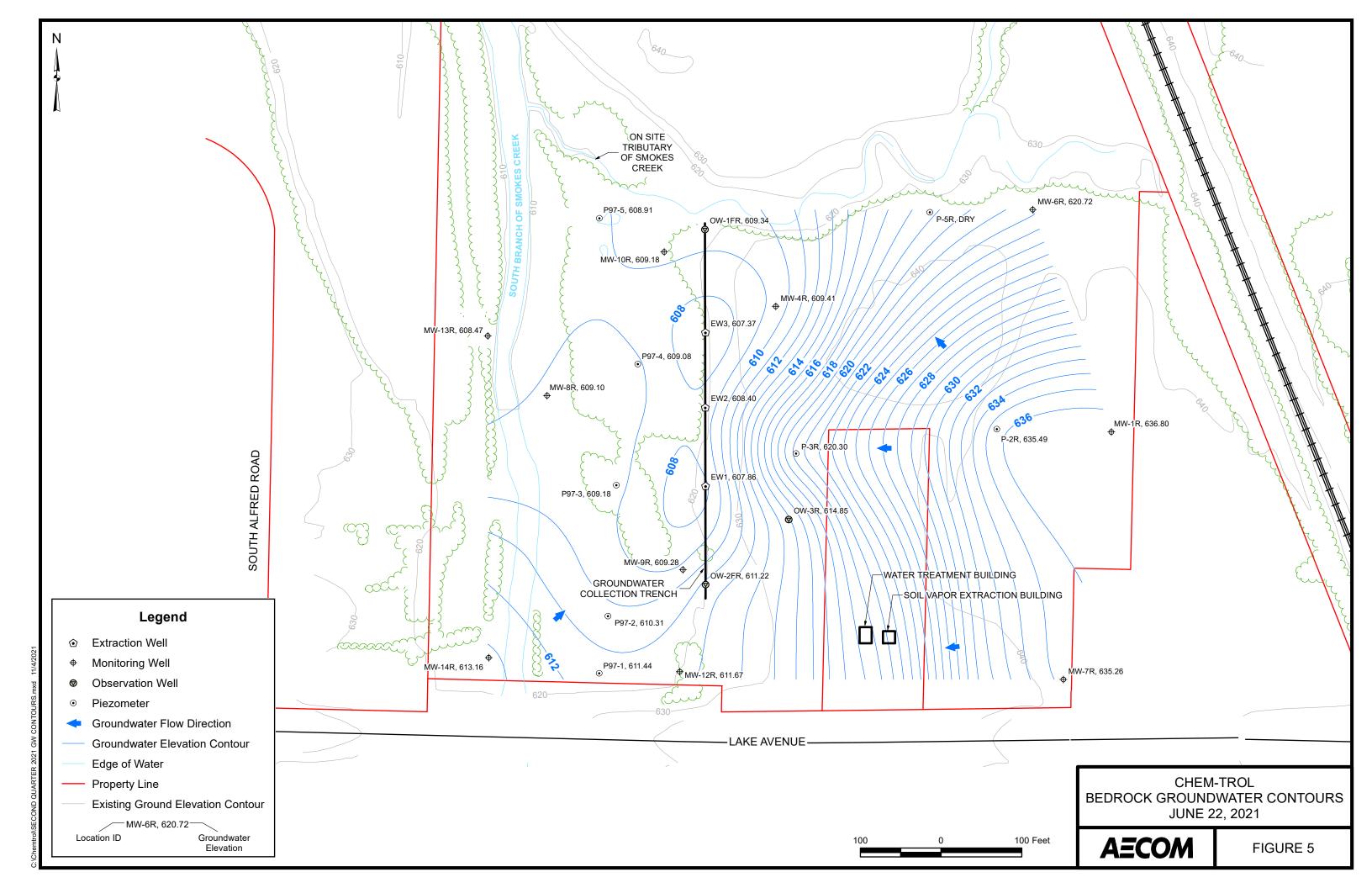
FIGURES

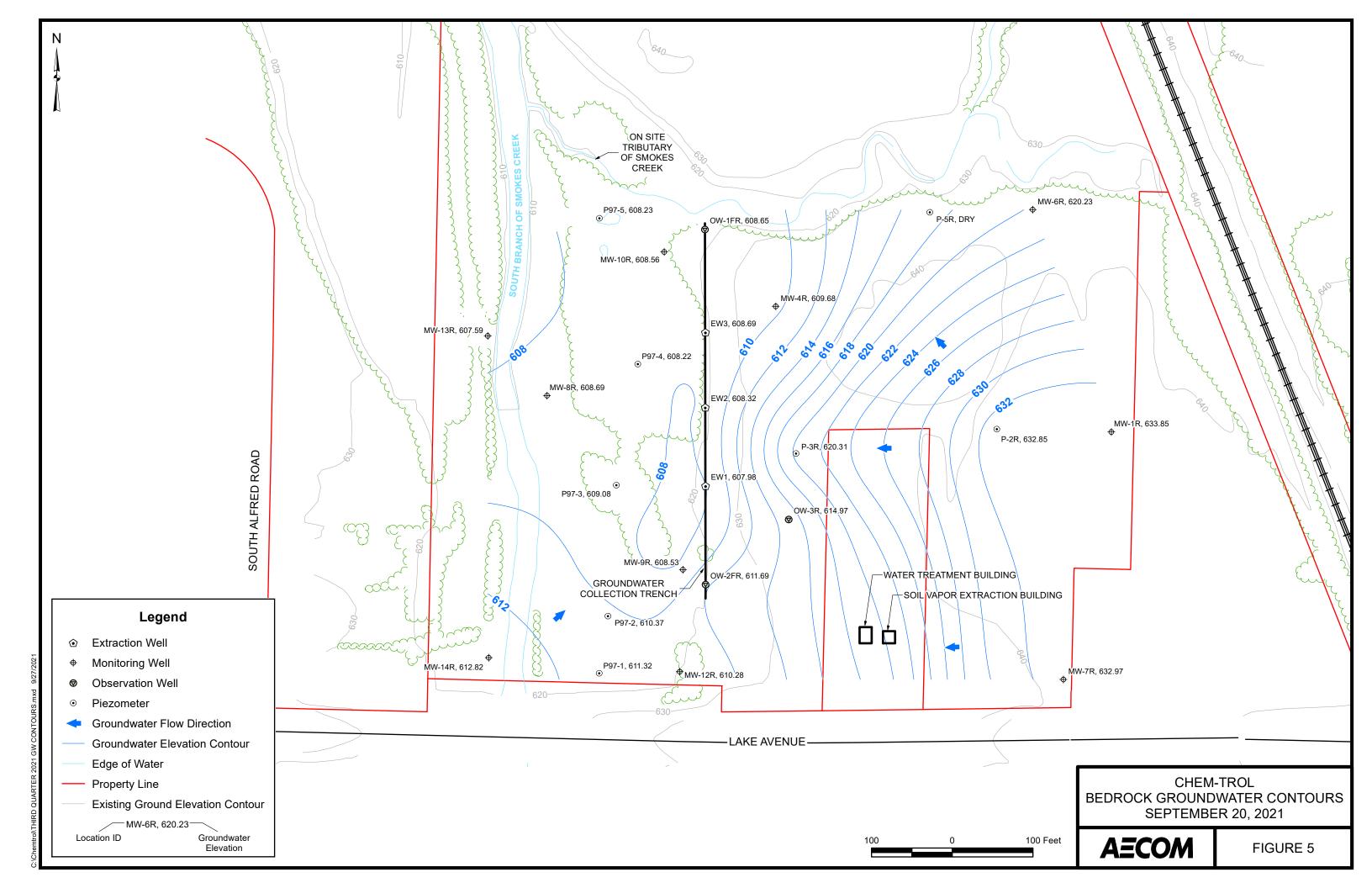
Fig	ure	1:	Site	Plan
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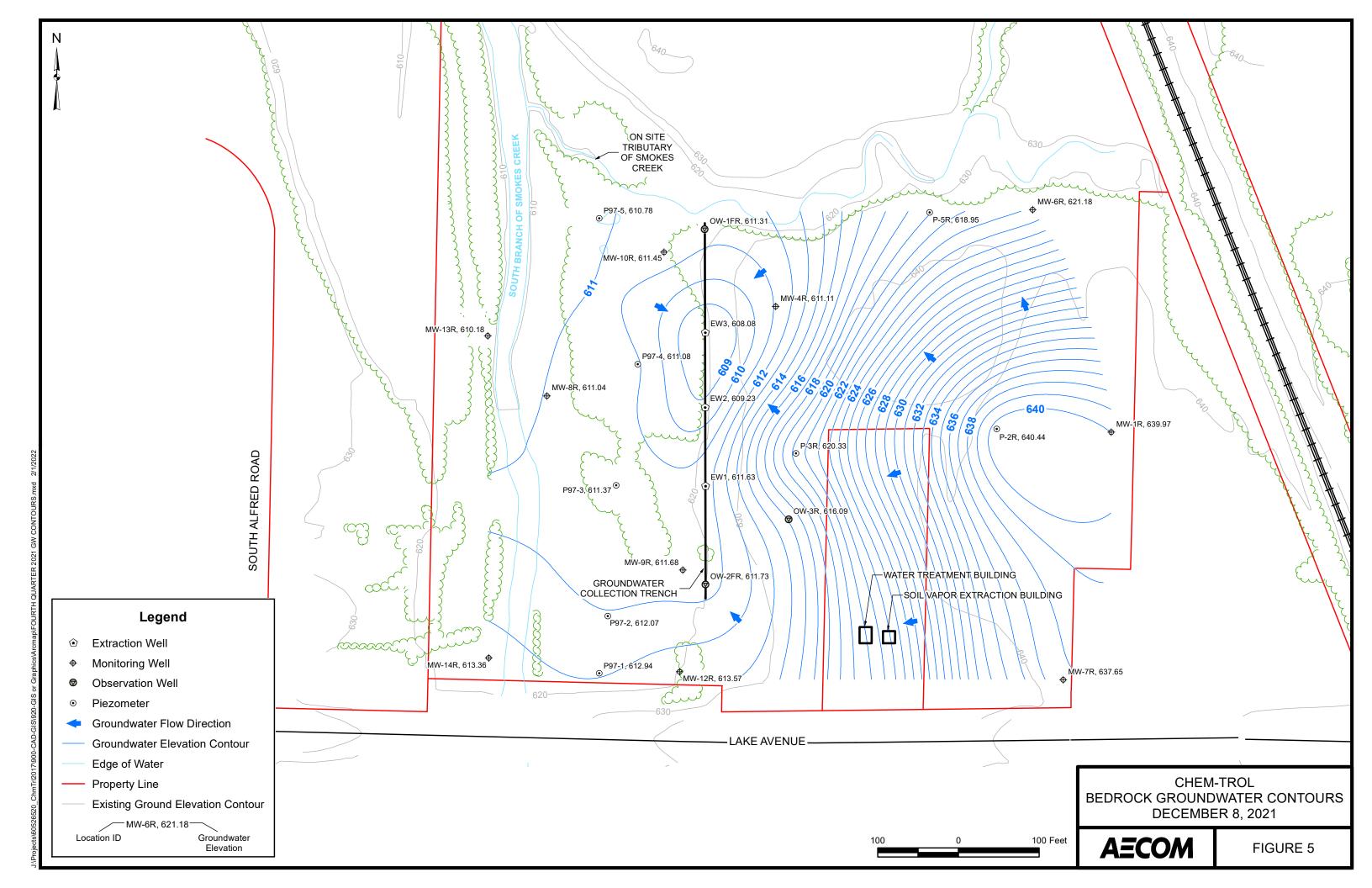
- Figure 2: Bedrock Groundwater Contours March 25, 2021
- Figure 3: Bedrock Groundwater Contours June 22, 2021
- Figure 4: Bedrock Groundwater Contours September 20, 2021
- Figure 5: Bedrock Groundwater Contours December 9, 2021
- Figure 6: Influent o-Chlorotoluene Concentration 2003 02/23/22











Chem-Trol Groundwater Treatment System

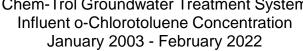
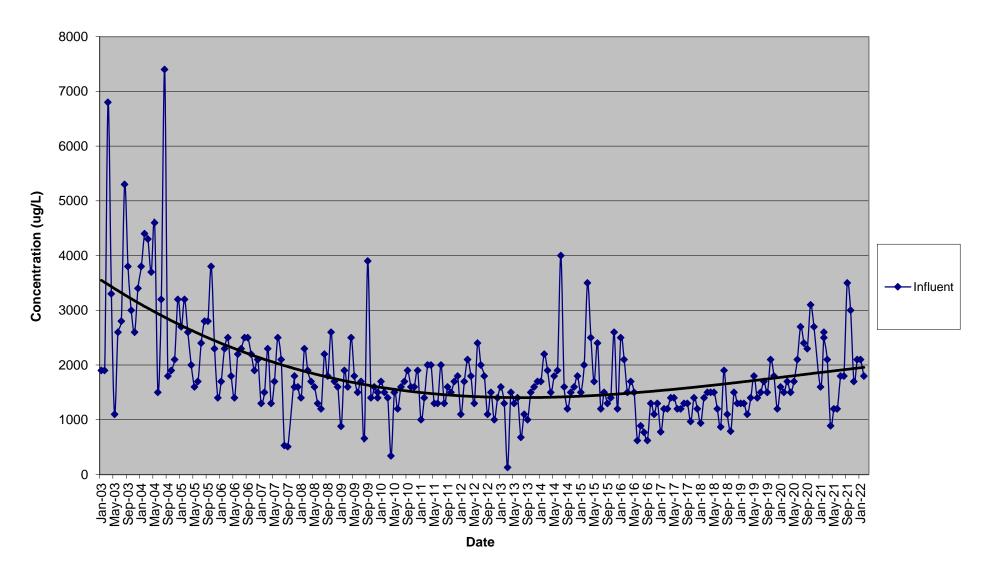


FIGURE 6



ATTACHMENT A

Completed IC/EC Form



Enclosure 2 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION Site Management Periodic Review Report Notice Institutional and Engineering Controls Certification Form



Sit	e No. 915015	Site Details	Box 1						
Sit	e Name Chem-Trol								
Cit Co	e Address: Lake Avenue y/Town: Hamburg unty:Erie e Acreage: 17.520	Zip Code: 14107							
Re	porting Period: February 1	5, 2021 to February 15, 2022							
			YES	NO					
1.	Is the information above of	correct?	X						
	If NO, include handwritter	n above or on a separate sheet.							
2.	Has some or all of the site tax map amendment during	e property been sold, subdivided, merged, or undergone ang this Reporting Period?	a	X					
3.	Has there been any changesee 6NYCRR 375-1.11(c	ge of use at the site during this Reporting Period		X					
4.	Have any federal, state, a for or at the property during	d	泫						
	-	questions 2 thru 4, include documentation or evidence been previously submitted with this certification form							
5.	Is the site currently under	going development?		X					
			Box 2						
			YES	NO					
6.	Is the current site use cor Closed Landfill	nsistent with the use(s) listed below?	X						
7.	Are all ICs in place and fu	unctioning as designed?	₫ □						
	IF THE ANSWER TO EITHER QUESTION 6 OR 7 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 iss	sues.					
Sig	nature of Owner, Remedial	Party or Designated Representative Date							

SITE NO. 915015 Box 3

Description of Institutional Controls

Parcel Owner Institutional Control

151.02-1-14.1 SC Holdlings 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.

Box 4

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 compete. 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.

Ryan Donovan	at _	600 New Ludlow Road,	South Hadley, MA 01075						
print name		print business ac	ddress						
am certifying as <u>Owner</u>			(Owner or Remedial Party)						
	for the Site named in the Site Details Section of this form.								
E. Ryan Don			03/10/22						
Signature of Owner, Remedial Party, or Rendering Certification	Desig	ignated Representative	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.

Donald McCall at 1 John James Audubon Pkwy, Suite 210, Amherst, N						
print name	print business address					
am certifying as a Professional Engineer						
TE OF NE TE OF	McCarl A	medial Party) March 10, 2002				
Signature of Professional Engineer, for t Remedial Party, Rendering Certification		Date				

ATTACHMENT B

2021 Annual Groundwater Sample Laboratory Report

ANALYTICAL REPORT

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

Laboratory Job ID: 480-191354-1

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

For:

eurofins 🙀

Waste Management 600 New Ludlow Road South Hadley, Massachusetts 01075

Attn: Ryan Donovan



Authorized for release by: 10/29/2021 12:55:04 PM Joshua Velez, Project Management Assistant I joshua.velez@eurofinset.com

Designee for

Ryan VanDette, Project Manager II (716)504-9830 Ryan.VanDette@Eurofinset.com

----- LINKS ------

Review your project results through Total Access

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.

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Definitions/Glossary

Client: Waste Management Job ID: 480-191354-1

Project/Site: ChemTrol Site - Annual Groundwater

Qualifiers

GC/MS VOA

Qualifier Qualifier Description

F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Example 2 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

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Case Narrative

Client: Waste Management

Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-191354-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-191354-1

Comments

No additional comments.

Receipt

The samples were received on 10/23/2021 11:30 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 3.3° C.

GC/MS VOA

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-13R (480-191354-3), MW-8R (480-191354-7), MW-9R (480-191354-8), (480-191354-A-3 MS) and (480-191354-A-3 MSD). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-602169 recovered outside acceptance criteria, low biased, for Trichlorofluoromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The associated samples are impacted: Trip Blank (480-191354-1), DUP (480-191354-2), MW-13R (480-191354-3), MW-15R (480-191354-4), MW-7R (480-191354-6), MW-8R (480-191354-7) and MW-9R (480-191354-8).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-602367 recovered outside acceptance criteria, low biased, for Trichlorofluoromethane and Dichlorofluoromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-3S (480-191354-5). Elevated reporting limits (RLs) are provided.

Method 8260C: The results reported for the following samples do not concur with results previously reported for this site: MW-8R (480-191354-7) and MW-9R (480-191354-8). Reanalysis was performed, and the result(s) confirmed.

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

Job ID: 480-191354-1

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Client: Waste Management Job ID: 480-191354-1

Project/Site: ChemTrol Site - Annual Groundwater

Client Sample ID: Trip Blank

Lab Sample ID: 480-191354-1

No Detections.

Client Sample ID: DUP Lab Sample ID: 480-191354-2

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Cyclohexane		5.0	ug/L	1	8260C	Total/NA
Methylcyclohexane	9.9	5.0	ug/L	1	8260C	Total/NA

Client Sample ID: MW-13R Lab Sample ID: 480-191354-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Chlorotoluene	1700	F1	34		ug/L	40		8260C	Total/NA

Client Sample ID: MW-15R Lab Sample ID: 480-191354-4

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Cyclohexane	26	5.0	ug/L		8260C	Total/NA
Methylcyclohexane	11	5.0	ug/L	1	8260C	Total/NA

Client Sample ID: MW-3S Lab Sample ID: 480-191354-5

	Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
	o-Chlorotoluene	24000		430		ug/L	500	_	8260C	Total/NA
Į	Trichloroethene	310		230		ug/L	500		8260C	Total/NA

Client Sample ID: MW-7R Lab Sample ID: 480-191354-6

No Detections.

Client Sample ID: MW-8R Lab Sample ID: 480-191354-7

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
1,1-Dichloroethane	12	5.0	ug/L		8260C	Total/NA
o-Chlorotoluene	170	5.0	ua/l	4	8260C	Total/NA

Client Sample ID: MW-9R Lab Sample ID: 480-191354-8

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
1,1,1-Trichloroethane	130	5.0	ug/L	4	8260C	Total/NA
1,1-Dichloroethane	240	5.0	ug/L	4	8260C	Total/NA
Chloroethane	39	5.0	ua/l	4	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

10/29/2021

Client: Waste Management Job ID: 480-191354-1

Project/Site: ChemTrol Site - Annual Groundwater

Client Sample ID: Trip Blank

Date Collected: 10/22/21 00:00 Date Received: 10/23/21 11:30 Lab Sample ID: 480-191354-1

Matrix: Water

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND -	5.0	ug/L			10/27/21 15:26	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L			10/27/21 15:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	ug/L			10/27/21 15:26	
1,1,2-Trichloroethane	ND	5.0	ug/L			10/27/21 15:26	
1,1-Dichloroethane	ND	5.0	ug/L			10/27/21 15:26	
1,2,4-Trichlorobenzene	ND	5.0	ug/L			10/27/21 15:26	
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/L			10/27/21 15:26	,
1,2-Dibromoethane	ND	5.0	ug/L			10/27/21 15:26	
1,2-Dichlorobenzene	ND	5.0	ug/L			10/27/21 15:26	
1,2-Dichloroethane	ND	5.0	ug/L			10/27/21 15:26	· · · · · · .
1,2-Dichloropropane	ND	5.0	ug/L			10/27/21 15:26	
1,3-Dichlorobenzene	ND	5.0	ug/L			10/27/21 15:26	
1,4-Dichlorobenzene	ND	5.0	ug/L			10/27/21 15:26	,
2-Butanone (MEK)	ND	25	ug/L			10/27/21 15:26	
2-Hexanone	ND	25	ug/L			10/27/21 15:26	
4-Methyl-2-pentanone (MIBK)	ND	25				10/27/21 15:26	,
Acetone	ND ND	25 25	ug/L			10/27/21 15:26	
Benzene	ND	5.0	ug/L ug/L			10/27/21 15:26	
						10/27/21 15:26	
Bromodichloromethane	ND	5.0	ug/L				
Bromoform	ND	5.0	ug/L			10/27/21 15:26	
Bromomethane	ND	5.0	ug/L			10/27/21 15:26	
Carbon disulfide	ND	5.0	ug/L			10/27/21 15:26	ŕ
Carbon tetrachloride	ND	5.0	ug/L			10/27/21 15:26	ŕ
Chlorobenzene	ND	5.0	ug/L			10/27/21 15:26	
Chlorodibromomethane	ND	5.0	ug/L			10/27/21 15:26	•
Chloroethane	ND	5.0	ug/L			10/27/21 15:26	•
Chloroform	ND	5.0	ug/L			10/27/21 15:26	
Chloromethane	ND	5.0	ug/L			10/27/21 15:26	•
cis-1,2-Dichloroethene	ND	5.0	ug/L			10/27/21 15:26	•
cis-1,3-Dichloropropene	ND	5.0	ug/L			10/27/21 15:26	
Cyclohexane	ND	5.0	ug/L			10/27/21 15:26	•
Dichlorofluoromethane	ND	5.0	ug/L			10/27/21 15:26	•
Ethylbenzene	ND	5.0	ug/L			10/27/21 15:26	•
Isopropylbenzene	ND	5.0	ug/L			10/27/21 15:26	· · · · · · · · ·
Methyl acetate	ND	5.0	ug/L			10/27/21 15:26	,
Methyl tert-butyl ether	ND	5.0	ug/L			10/27/21 15:26	•
Methylcyclohexane	ND	5.0	ug/L			10/27/21 15:26	
Methylene Chloride	ND	5.0	ug/L			10/27/21 15:26	,
o-Chlorotoluene	ND	5.0	ug/L			10/27/21 15:26	1
Styrene	ND	5.0	ug/L			10/27/21 15:26	
Tetrachloroethene	ND	5.0	ug/L			10/27/21 15:26	
Toluene	ND	5.0	ug/L			10/27/21 15:26	
trans-1,2-Dichloroethene	ND	5.0	ug/L			10/27/21 15:26	,
trans-1,3-Dichloropropene	ND	5.0	ug/L			10/27/21 15:26	
Trichloroethene	ND	5.0	ug/L			10/27/21 15:26	
Trichlorofluoromethane	ND	5.0	ug/L			10/27/21 15:26	
Vinyl chloride	ND	5.0	ug/L			10/27/21 15:26	1
Xylenes, Total	ND	15	ug/L			10/27/21 15:26	1

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Client: Waste Management Job ID: 480-191354-1

Project/Site: ChemTrol Site - Annual Groundwater

Lab Sample ID: 480-191354-1 **Client Sample ID: Trip Blank**

Date Collected: 10/22/21 00:00 **Matrix: Water**

Date Received: 10/23/21 11:30

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120	10/27/21 15:26	1
Toluene-d8 (Surr)	103		80 - 120	10/27/21 15:26	1
4-Bromofluorobenzene (Surr)	96		73 - 120	10/27/21 15:26	1
Dibromofluoromethane (Surr)	96		75 - 123	10/27/21 15:26	1

Client: Waste Management Job ID: 480-191354-1

Project/Site: ChemTrol Site - Annual Groundwater

Client Sample ID: DUP

Xylenes, Total

Date Collected: 10/22/21 00:00 Date Received: 10/23/21 11:30 Lab Sample ID: 480-191354-2

Matrix: Water

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	5.0	ug/L			10/27/21 15:49	1
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L			10/27/21 15:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	ug/L			10/27/21 15:49	1
1,1,2-Trichloroethane	ND	5.0	ug/L			10/27/21 15:49	1
1,1-Dichloroethane	ND	5.0	ug/L			10/27/21 15:49	1
1,2,4-Trichlorobenzene	ND	5.0	ug/L			10/27/21 15:49	1
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/L			10/27/21 15:49	1
1,2-Dibromoethane	ND	5.0	ug/L			10/27/21 15:49	1
1,2-Dichlorobenzene	ND	5.0	ug/L			10/27/21 15:49	1
1,2-Dichloroethane	ND	5.0	ug/L			10/27/21 15:49	1
1,2-Dichloropropane	ND	5.0	ug/L			10/27/21 15:49	1
1,3-Dichlorobenzene	ND	5.0	ug/L			10/27/21 15:49	1
1,4-Dichlorobenzene	ND	5.0	ug/L			10/27/21 15:49	1
2-Butanone (MEK)	ND	25	ug/L			10/27/21 15:49	1
2-Hexanone	ND	25	ug/L			10/27/21 15:49	1
4-Methyl-2-pentanone (MIBK)	ND	25	ug/L			10/27/21 15:49	1
Acetone	ND	25	ug/L			10/27/21 15:49	1
Benzene	ND	5.0	ug/L			10/27/21 15:49	1
Bromodichloromethane	ND	5.0	ug/L			10/27/21 15:49	1
Bromoform	ND	5.0	ug/L			10/27/21 15:49	1
Bromomethane	ND	5.0	ug/L			10/27/21 15:49	1
Carbon disulfide	ND	5.0	ug/L			10/27/21 15:49	1
Carbon tetrachloride	ND	5.0	ug/L			10/27/21 15:49	1
Chlorobenzene	ND	5.0	ug/L			10/27/21 15:49	1
Chlorodibromomethane	ND	5.0	ug/L			10/27/21 15:49	1
Chloroethane	ND	5.0	ug/L			10/27/21 15:49	1
Chloroform	ND	5.0	ug/L			10/27/21 15:49	1
Chloromethane	ND	5.0	ug/L			10/27/21 15:49	1
cis-1,2-Dichloroethene	ND	5.0	ug/L			10/27/21 15:49	1
cis-1,3-Dichloropropene	ND	5.0	ug/L			10/27/21 15:49	1
Cyclohexane	24	5.0	ug/L			10/27/21 15:49	1
Dichlorofluoromethane	ND	5.0	ug/L			10/27/21 15:49	1
Ethylbenzene	ND	5.0	ug/L			10/27/21 15:49	1
Isopropylbenzene	ND	5.0	ug/L			10/27/21 15:49	1
Methyl acetate	ND	5.0	ug/L			10/27/21 15:49	1
Methyl tert-butyl ether	ND	5.0	ug/L			10/27/21 15:49	1
Methylcyclohexane	9.9	5.0	ug/L			10/27/21 15:49	1
Methylene Chloride	ND	5.0	ug/L			10/27/21 15:49	1
o-Chlorotoluene	ND	5.0	ug/L			10/27/21 15:49	1
Styrene	ND	5.0	ug/L			10/27/21 15:49	1
Tetrachloroethene	ND	5.0	ug/L			10/27/21 15:49	1
Toluene	ND	5.0	ug/L			10/27/21 15:49	
trans-1,2-Dichloroethene	ND	5.0	ug/L			10/27/21 15:49	· · · · · · · · · · · · · · · · · · ·
trans-1,3-Dichloropropene	ND	5.0	ug/L			10/27/21 15:49	. 1
Trichloroethene	ND	5.0	ug/L			10/27/21 15:49	1
Trichlorofluoromethane	ND	5.0	ug/L			10/27/21 15:49	· · · · · · · · · · · · · · · · · · ·
Vinyl chloride	ND	5.0	ug/L			10/27/21 15:49	1
, onlongs	ND	0.0	ug/L			10,27,21 10.73	!

Eurofins TestAmerica, Buffalo

10/29/2021

10/27/21 15:49

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Client: Waste Management Job ID: 480-191354-1

Project/Site: ChemTrol Site - Annual Groundwater

Lab Sample ID: 480-191354-2 **Client Sample ID: DUP**

Matrix: Water

Date Collected: 10/22/21 00:00 Date Received: 10/23/21 11:30

Surrogate	%Recovery	Qualifier Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102	77 - 12	0		10/27/21 15:49	1
Toluene-d8 (Surr)	103	80 - 12	0		10/27/21 15:49	1
4-Bromofluorobenzene (Surr)	97	73 - 12	0		10/27/21 15:49	1
Dibromofluoromethane (Surr)	98	75 - 12	3		10/27/21 15:49	1

Client: Waste Management Job ID: 480-191354-1

Project/Site: ChemTrol Site - Annual Groundwater

Client Sample ID: MW-13R Date Collected: 10/22/21 13:47 Lab Sample ID: 480-191354-3

Matrix: Water

Date Received: 10/23/21 11:30

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

Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND	33	ug/L		10/27/21 16:12	4
1,1,2,2-Tetrachloroethane	ND	8.4	ug/L		10/27/21 16:12	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	12	ug/L		10/27/21 16:12	4
1,1,2-Trichloroethane	ND	9.2	ug/L		10/27/21 16:12	4
1,1-Dichloroethane	ND	15	ug/L		10/27/21 16:12	4
1,2,4-Trichlorobenzene	ND	16	ug/L		10/27/21 16:12	4
I,2-Dibromo-3-Chloropropane	ND	16	ug/L		10/27/21 16:12	4
,2-Dibromoethane	ND	29	ug/L		10/27/21 16:12	4
,2-Dichlorobenzene	ND	32	ug/L		10/27/21 16:12	
,2-Dichloroethane	ND	8.4	ug/L		10/27/21 16:12	
1,2-Dichloropropane	ND F1	29	ug/L		10/27/21 16:12	4
I,3-Dichlorobenzene	ND	31	ug/L		10/27/21 16:12	
1,4-Dichlorobenzene	ND	34	ug/L		10/27/21 16:12	
2-Butanone (MEK)	ND	53	ug/L		10/27/21 16:12	4
2-Hexanone	ND	50	ug/L		10/27/21 16:12	
I-Methyl-2-pentanone (MIBK)	ND	84	ug/L		10/27/21 16:12	
Acetone	ND F2	120	ug/L		10/27/21 16:12	
Benzene	ND	16	ug/L		10/27/21 16:12	
Bromodichloromethane	ND	16	ug/L		10/27/21 16:12	
Bromoform	ND	10	ug/L		10/27/21 16:12	
Bromomethane	ND	28	ug/L		10/27/21 16:12	
arbon disulfide	ND F2	7.6	ug/L		10/27/21 16:12	
Carbon tetrachloride	ND	11	ug/L		10/27/21 16:12	
Chlorobenzene	ND	30	ug/L		10/27/21 16:12	
Chlorodibromomethane	ND	13	ug/L		10/27/21 16:12	
Chloroethane	ND	13	ug/L		10/27/21 16:12	
Chloroform	ND	14	ug/L		10/27/21 16:12	
Chloromethane	ND	14			10/27/21 16:12	
is-1,2-Dichloroethene	ND ND	32	ug/L		10/27/21 16:12	
	ND ND	32 14	ug/L		10/27/21 16:12	
is-1,3-Dichloropropene			ug/L			
Cyclohexane	ND F1	7.2	ug/L		10/27/21 16:12	
Dichlorofluoromethane	ND	14	ug/L		10/27/21 16:12	
Ethylbenzene	ND	30	ug/L		10/27/21 16:12	
sopropylbenzene	ND	32	ug/L		10/27/21 16:12	
Methyl acetate	ND	52	ug/L		10/27/21 16:12	
Methyl tert-butyl ether	ND	6.4	ug/L		10/27/21 16:12	
Methylcyclohexane	ND	6.4	ug/L		10/27/21 16:12	
Methylene Chloride	ND	18	ug/L		10/27/21 16:12	
o-Chlorotoluene	1700 F1	34	ug/L		10/27/21 16:12	
Styrene	ND	29	ug/L		10/27/21 16:12	
etrachloroethene	ND F1	14	ug/L		10/27/21 16:12	
oluene	ND F1	20	ug/L		10/27/21 16:12	
ans-1,2-Dichloroethene	ND	36	ug/L		10/27/21 16:12	
rans-1,3-Dichloropropene	ND	15	ug/L		10/27/21 16:12	
Trichloroethene	ND	18	ug/L		10/27/21 16:12	
richlorofluoromethane	ND	35	ug/L		10/27/21 16:12	
/inyl chloride	ND	36	ug/L		10/27/21 16:12	
Xylenes, Total	ND	26	ug/L		10/27/21 16:12	

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Client: Waste Management Job ID: 480-191354-1

Project/Site: ChemTrol Site - Annual Groundwater

Client Sample ID: MW-13R Lab Sample ID: 480-191354-3

Date Collected: 10/22/21 13:47

Date Received: 10/23/21 11:30

Matrix: Water

ared Analvzed	Dil Fac
	DII Fac
10/27/21 16:12	40
10/27/21 16:12	40
10/27/21 16:12	40
10/27/21 16:12	40
	10/27/21 16:12

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Client: Waste Management Job ID: 480-191354-1

Project/Site: ChemTrol Site - Annual Groundwater

Client Sample ID: MW-15R

Date Collected: 10/22/21 13:08 Date Received: 10/23/21 11:30 Lab Sample ID: 480-191354-4

Matrix: Water

Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	5.0	ug/L	<u> </u>	10/27/21 16:35	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L		10/27/21 16:35	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	ug/L		10/27/21 16:35	
1,1,2-Trichloroethane	ND	5.0	ug/L		10/27/21 16:35	
1,1-Dichloroethane	ND	5.0	ug/L		10/27/21 16:35	
1,2,4-Trichlorobenzene	ND	5.0	ug/L		10/27/21 16:35	
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/L		10/27/21 16:35	
1,2-Dibromoethane	ND	5.0	ug/L		10/27/21 16:35	
1,2-Dichlorobenzene	ND	5.0	ug/L		10/27/21 16:35	
1,2-Dichloroethane	ND	5.0	ug/L		10/27/21 16:35	
1,2-Dichloropropane	ND	5.0	ug/L		10/27/21 16:35	
1,3-Dichlorobenzene	ND	5.0	ug/L		10/27/21 16:35	
1,4-Dichlorobenzene	ND	5.0	ug/L		10/27/21 16:35	
2-Butanone (MEK)	ND	25	ug/L		10/27/21 16:35	
2-Hexanone	ND	25	ug/L		10/27/21 16:35	
4-Methyl-2-pentanone (MIBK)	ND	25	ug/L		10/27/21 16:35	
Acetone	ND	25	ug/L		10/27/21 16:35	
Benzene	ND	5.0	ug/L		10/27/21 16:35	
Bromodichloromethane	ND	5.0	ug/L		10/27/21 16:35	
Bromoform	ND	5.0	ug/L		10/27/21 16:35	
Bromomethane	ND	5.0	ug/L		10/27/21 16:35	
Carbon disulfide	ND	5.0	ug/L		10/27/21 16:35	
Carbon tetrachloride	ND	5.0	ug/L		10/27/21 16:35	
Chlorobenzene	ND	5.0	ug/L		10/27/21 16:35	
Chlorodibromomethane	ND	5.0	ug/L		10/27/21 16:35	
Chloroethane	ND	5.0	ug/L		10/27/21 16:35	
Chloroform	ND	5.0	ug/L		10/27/21 16:35	
Chloromethane	ND	5.0	ug/L		10/27/21 16:35	
cis-1,2-Dichloroethene	ND	5.0	ug/L		10/27/21 16:35	
cis-1,3-Dichloropropene	ND	5.0	ug/L		10/27/21 16:35	
Cyclohexane	26	5.0	ug/L		10/27/21 16:35	
Dichlorofluoromethane	ND	5.0	ug/L		10/27/21 16:35	
Ethylbenzene	ND	5.0	ug/L		10/27/21 16:35	
Isopropylbenzene	ND	5.0	ug/L		10/27/21 16:35	
Methyl acetate	ND	5.0	ug/L		10/27/21 16:35	
Methyl tert-butyl ether	ND	5.0	ug/L		10/27/21 16:35	
	11	5.0	ug/L		10/27/21 16:35	
Methylcyclohexane Methylene Chloride	ND	5.0	ug/L		10/27/21 16:35	
o-Chlorotoluene	ND	5.0	ug/L		10/27/21 16:35	
Styrene	ND	5.0	ug/L ug/L		10/27/21 16:35	
Tetrachloroethene	ND ND	5.0			10/27/21 16:35	
Toluene	ND ND	5.0	ug/L ug/L		10/27/21 16:35	
trans-1,2-Dichloroethene						
,	ND ND	5.0 5.0	ug/L		10/27/21 16:35	
trans-1,3-Dichloropropene	ND ND	5.0 5.0	ug/L		10/27/21 16:35 10/27/21 16:35	
Trichlorofluoromethana	ND	5.0	ug/L			
Trichlorofluoromethane	ND ND	5.0	ug/L		10/27/21 16:35	
Vinyl chloride	ND	5.0	ug/L		10/27/21 16:35	

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10/27/21 16:35

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ug/L

ND

Xylenes, Total

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Client: Waste Management Job ID: 480-191354-1

Project/Site: ChemTrol Site - Annual Groundwater

Client Sample ID: MW-15R Lab Sample ID: 480-191354-4

Date Collected: 10/22/21 13:08 Matrix: Water Date Received: 10/23/21 11:30

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120	_		10/27/21 16:35	1
Toluene-d8 (Surr)	102		80 - 120			10/27/21 16:35	1
4-Bromofluorobenzene (Surr)	97		73 - 120			10/27/21 16:35	1
Dibromofluoromethane (Surr)	99		75 - 123			10/27/21 16:35	1

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Client: Waste Management Job ID: 480-191354-1

Project/Site: ChemTrol Site - Annual Groundwater

Client Sample ID: MW-3S

Lab Sample ID: 480-191354-5

Matrix: Water

Date Collected: 10/22/21 16:08 Date Received: 10/23/21 11:30

Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	410	ug/L		10/28/21 12:55	500
1,1,2,2-Tetrachloroethane	ND	110	ug/L		10/28/21 12:55	500
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	160	ug/L		10/28/21 12:55	500
1,1,2-Trichloroethane	ND	120	ug/L		10/28/21 12:55	500
1,1-Dichloroethane	ND	190	ug/L		10/28/21 12:55	500
1,2,4-Trichlorobenzene	ND	210	ug/L		10/28/21 12:55	500
1,2-Dibromo-3-Chloropropane	ND	200	ug/L		10/28/21 12:55	500
1,2-Dibromoethane	ND	370	ug/L		10/28/21 12:55	500
1,2-Dichlorobenzene	ND	400	ug/L		10/28/21 12:55	500
1,2-Dichloroethane	ND	110	ug/L		10/28/21 12:55	500
1,2-Dichloropropane	ND	360	ug/L		10/28/21 12:55	500
1,3-Dichlorobenzene	ND	390	ug/L		10/28/21 12:55	500
1,4-Dichlorobenzene	ND	420	ug/L		10/28/21 12:55	500
2-Butanone (MEK)	ND	660	ug/L		10/28/21 12:55	500
2-Hexanone	ND	620	ug/L		10/28/21 12:55	500
4-Methyl-2-pentanone (MIBK)	ND	1100	ug/L		10/28/21 12:55	500
Acetone	ND	1500	ug/L		10/28/21 12:55	500
Benzene	ND	210	ug/L		10/28/21 12:55	500
Bromodichloromethane	ND	200			10/28/21 12:55	500
Bromoform	ND ND	130	ug/L		10/28/21 12:55	500
Bromomethane	ND ND	350	ug/L		10/28/21 12:55	500
Carbon disulfide			ug/L			
	ND	95	ug/L		10/28/21 12:55	500
Carbon tetrachloride	ND	140	ug/L		10/28/21 12:55	500
Chlorobenzene	ND	380	ug/L		10/28/21 12:55	500
Chlorodibromomethane	ND	160	ug/L		10/28/21 12:55	500
Chloroethane	ND	160	ug/L		10/28/21 12:55	500
Chloroform	ND	170	ug/L		10/28/21 12:55	500
Chloromethane	ND	180	ug/L		10/28/21 12:55	500
cis-1,2-Dichloroethene	ND	410	ug/L		10/28/21 12:55	500
cis-1,3-Dichloropropene	ND	180	ug/L		10/28/21 12:55	500
Cyclohexane	ND	90	ug/L		10/28/21 12:55	500
Dichlorofluoromethane	ND	170	ug/L		10/28/21 12:55	500
Ethylbenzene	ND	370	ug/L		10/28/21 12:55	500
Isopropylbenzene	ND	400	ug/L		10/28/21 12:55	500
Methyl acetate	ND	650	ug/L		10/28/21 12:55	500
Methyl tert-butyl ether	ND	80	ug/L		10/28/21 12:55	500
Methylcyclohexane	ND	80	ug/L		10/28/21 12:55	500
Methylene Chloride	ND	220	ug/L		10/28/21 12:55	500
o-Chlorotoluene	24000	430	ug/L		10/28/21 12:55	500
Styrene	ND	370	ug/L		10/28/21 12:55	500
Tetrachloroethene	ND	180	ug/L		10/28/21 12:55	500
Toluene	ND	260	ug/L		10/28/21 12:55	500
trans-1,2-Dichloroethene	ND	450	ug/L		10/28/21 12:55	500
trans-1,3-Dichloropropene	ND	190	ug/L		10/28/21 12:55	500
Trichloroethene	310	230	ug/L		10/28/21 12:55	500
Trichlorofluoromethane	ND	440	ug/L		10/28/21 12:55	500
Vinyl chloride	ND	450	ug/L		10/28/21 12:55	500
Xylenes, Total	ND	330	ug/L		10/28/21 12:55	500

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Client: Waste Management Job ID: 480-191354-1

Project/Site: ChemTrol Site - Annual Groundwater

Client Sample ID: MW-3S Lab Sample ID: 480-191354-5

Date Collected: 10/22/21 16:08 Matrix: Water
Date Received: 10/23/21 11:30

	Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
	1,2-Dichloroethane-d4 (Surr)	98		77 - 120	_		10/28/21 12:55	500
	Toluene-d8 (Surr)	102		80 - 120			10/28/21 12:55	500
	4-Bromofluorobenzene (Surr)	96		73 - 120			10/28/21 12:55	500
L	Dibromofluoromethane (Surr)	100		75 - 123			10/28/21 12:55	500

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Client: Waste Management Job ID: 480-191354-1

Project/Site: ChemTrol Site - Annual Groundwater

Client Sample ID: MW-7R

Lab Sample ID: 480-191354-6

Matrix: Water

Date Collected: 10/22/21 16:39 Date Received: 10/23/21 11:30

Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND	5.0	ug/L		10/27/21 17:21	•
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L		10/27/21 17:21	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	ug/L		10/27/21 17:21	
1,1,2-Trichloroethane	ND	5.0	ug/L		10/27/21 17:21	
1,1-Dichloroethane	ND	5.0	ug/L		10/27/21 17:21	
1,2,4-Trichlorobenzene	ND	5.0	ug/L		10/27/21 17:21	
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/L		10/27/21 17:21	
1,2-Dibromoethane	ND	5.0	ug/L		10/27/21 17:21	
1,2-Dichlorobenzene	ND	5.0	ug/L		10/27/21 17:21	
1,2-Dichloroethane	ND	5.0	ug/L		10/27/21 17:21	
1,2-Dichloropropane	ND	5.0	ug/L		10/27/21 17:21	
1,3-Dichlorobenzene	ND	5.0	ug/L		10/27/21 17:21	
1,4-Dichlorobenzene	ND	5.0	ug/L		10/27/21 17:21	
2-Butanone (MEK)	ND	25	ug/L		10/27/21 17:21	
2-Hexanone	ND	25	ug/L		10/27/21 17:21	
4-Methyl-2-pentanone (MIBK)	ND	25	ug/L		10/27/21 17:21	
Acetone	ND	25	ug/L		10/27/21 17:21	
Benzene	ND	5.0	ug/L		10/27/21 17:21	
Bromodichloromethane	ND	5.0	ug/L		10/27/21 17:21	
Bromoform	ND	5.0	ug/L		10/27/21 17:21	
Bromomethane	ND	5.0	ug/L		10/27/21 17:21	
Carbon disulfide	ND	5.0	ug/L		10/27/21 17:21	
Carbon tetrachloride	ND	5.0	ug/L		10/27/21 17:21	
Chlorobenzene	ND	5.0	ug/L		10/27/21 17:21	
Chlorodibromomethane	ND	5.0	ug/L		10/27/21 17:21	
Chloroethane	ND	5.0	ug/L		10/27/21 17:21	
Chloroform	ND	5.0	ug/L		10/27/21 17:21	
Chloromethane	ND	5.0	ug/L ug/L		10/27/21 17:21	
cis-1,2-Dichloroethene	ND	5.0	ug/L		10/27/21 17:21	
cis-1,3-Dichloropropene	ND	5.0	ug/L		10/27/21 17:21	
Cyclohexane	ND	5.0			10/27/21 17:21	
Dichlorofluoromethane	ND ND	5.0	ug/L		10/27/21 17:21	
			ug/L			
Ethylbenzene	ND	5.0	ug/L		10/27/21 17:21	
Isopropylbenzene	ND	5.0	ug/L		10/27/21 17:21	
Methyl acetate	ND	5.0	ug/L		10/27/21 17:21	
Methyl tert-butyl ether	ND	5.0	ug/L		10/27/21 17:21	
Methylcyclohexane	ND	5.0	ug/L		10/27/21 17:21	
Methylene Chloride	ND	5.0	ug/L		10/27/21 17:21	
o-Chlorotoluene	ND	5.0	ug/L		10/27/21 17:21	
Styrene	ND	5.0	ug/L		10/27/21 17:21	
Tetrachloroethene	ND	5.0	ug/L		10/27/21 17:21	
Toluene	ND	5.0	ug/L		10/27/21 17:21	
trans-1,2-Dichloroethene	ND	5.0	ug/L		10/27/21 17:21	
trans-1,3-Dichloropropene	ND	5.0	ug/L		10/27/21 17:21	
Trichloroethene	ND	5.0	ug/L		10/27/21 17:21	
Trichlorofluoromethane	ND	5.0	ug/L		10/27/21 17:21	
Vinyl chloride	ND	5.0	ug/L		10/27/21 17:21	
Xylenes, Total	ND	15	ug/L		10/27/21 17:21	

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Client: Waste Management Job ID: 480-191354-1

Project/Site: ChemTrol Site - Annual Groundwater

Client Sample ID: MW-7R Lab Sample ID: 480-191354-6

Date Collected: 10/22/21 16:39 Matrix: Water Date Received: 10/23/21 11:30

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100	77 - 120		10/27/21 17:21	1
Toluene-d8 (Surr)	103	80 - 120		10/27/21 17:21	1
4-Bromofluorobenzene (Surr)	96	73 - 120		10/27/21 17:21	1
Dibromofluoromethane (Surr)	99	75 - 123		10/27/21 17:21	1

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Client: Waste Management Job ID: 480-191354-1

Project/Site: ChemTrol Site - Annual Groundwater

Client Sample ID: MW-8R

Lab Sample ID: 480-191354-7

Matrix: Water

Date Collected: 10/22/21 14:32 Date Received: 10/23/21 11:30

Analyte	Result Q	ualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND	5.0	ug/L			10/27/21 17:44	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L			10/27/21 17:44	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	ug/L			10/27/21 17:44	
1,1,2-Trichloroethane	ND	5.0	ug/L			10/27/21 17:44	
1,1-Dichloroethane	12	5.0	ug/L			10/27/21 17:44	
1,2,4-Trichlorobenzene	ND	5.0	ug/L			10/27/21 17:44	
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/L			10/27/21 17:44	
1,2-Dibromoethane	ND	5.0	ug/L			10/27/21 17:44	
1,2-Dichlorobenzene	ND	5.0	ug/L			10/27/21 17:44	
, 1,2-Dichloroethane	ND	5.0	ug/L			10/27/21 17:44	
1,2-Dichloropropane	ND	5.0	ug/L			10/27/21 17:44	
1,3-Dichlorobenzene	ND	5.0	ug/L			10/27/21 17:44	
1,4-Dichlorobenzene	ND	5.0	ug/L			10/27/21 17:44	
2-Butanone (MEK)	ND	25	ug/L			10/27/21 17:44	
2-Hexanone	ND	25	ug/L			10/27/21 17:44	
4-Methyl-2-pentanone (MIBK)	ND	25				10/27/21 17:44	
Acetone	ND ND	25 25	ug/L			10/27/21 17:44	
	ND ND	5.0	ug/L			10/27/21 17:44	
Benzene			ug/L				
Bromodichloromethane	ND	5.0	ug/L			10/27/21 17:44	
Bromoform	ND	5.0	ug/L			10/27/21 17:44	
3romomethane	ND	5.0	ug/L			10/27/21 17:44	
Carbon disulfide	ND	5.0	ug/L			10/27/21 17:44	
Carbon tetrachloride	ND	5.0	ug/L			10/27/21 17:44	
Chlorobenzene	ND	5.0	ug/L			10/27/21 17:44	
Chlorodibromomethane	ND	5.0	ug/L			10/27/21 17:44	
Chloroethane	ND	5.0	ug/L			10/27/21 17:44	
Chloroform	ND	5.0	ug/L			10/27/21 17:44	
Chloromethane	ND	5.0	ug/L			10/27/21 17:44	
cis-1,2-Dichloroethene	ND	5.0	ug/L			10/27/21 17:44	
cis-1,3-Dichloropropene	ND	5.0	ug/L			10/27/21 17:44	
Cyclohexane	ND	5.0	ug/L			10/27/21 17:44	
Dichlorofluoromethane	ND	5.0	ug/L			10/27/21 17:44	
Ethylbenzene	ND	5.0	ug/L			10/27/21 17:44	
Isopropylbenzene	ND	5.0	ug/L			10/27/21 17:44	
Methyl acetate	ND	5.2	ug/L			10/27/21 17:44	
Methyl tert-butyl ether	ND	5.0	ug/L			10/27/21 17:44	
Methylcyclohexane	ND	5.0	ug/L			10/27/21 17:44	
Methylene Chloride	ND	5.0	ug/L			10/27/21 17:44	
o-Chlorotoluene	170	5.0	ug/L			10/27/21 17:44	
Styrene	ND	5.0	ug/L			10/27/21 17:44	
Tetrachloroethene	ND	5.0	ug/L			10/27/21 17:44	
Toluene	ND	5.0	ug/L			10/27/21 17:44	
trans-1,2-Dichloroethene	ND	5.0	ug/L			10/27/21 17:44	
trans-1,3-Dichloropropene	ND ND	5.0	ug/L			10/27/21 17:44	
Trichloroethene	ND ND	5.0	ug/L			10/27/21 17:44	
Trichlorofluoromethane							
	ND	5.0	ug/L			10/27/21 17:44	
Vinyl chloride Xylenes, Total	ND ND	5.0 15	ug/L ug/L			10/27/21 17:44 10/27/21 17:44	

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Client: Waste Management Job ID: 480-191354-1

Project/Site: ChemTrol Site - Annual Groundwater

Lab Sample ID: 480-191354-7 **Client Sample ID: MW-8R** Date Collected: 10/22/21 14:32

Matrix: Water

Date Received: 10/23/21 11:30

Survey made	% Pagaramy Ovalities	l imita	Dramarad	Amalumad	Dil Faa
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99	77 - 120		10/27/21 17:44	4
Toluene-d8 (Surr)	102	80 - 120		10/27/21 17:44	4
4-Bromofluorobenzene (Surr)	97	73 - 120		10/27/21 17:44	4
Dibromofluoromethane (Surr)	102	75 - 123		10/27/21 17:44	4

Client: Waste Management Job ID: 480-191354-1

Project/Site: ChemTrol Site - Annual Groundwater

Client Sample ID: MW-9R

Lab Sample ID: 480-191354-8

Matrix: Water

Date Collected: 10/22/21 15:23 Date Received: 10/23/21 11:30

Analyte	Result C	Qualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	130	5.0	ug/L			10/27/21 18:07	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L			10/27/21 18:07	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	ug/L			10/27/21 18:07	
1,1,2-Trichloroethane	ND	5.0	ug/L			10/27/21 18:07	
1,1-Dichloroethane	240	5.0	ug/L			10/27/21 18:07	
1,2,4-Trichlorobenzene	ND	5.0	ug/L			10/27/21 18:07	
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/L			10/27/21 18:07	
1,2-Dibromoethane	ND	5.0	ug/L			10/27/21 18:07	
1,2-Dichlorobenzene	ND	5.0	ug/L			10/27/21 18:07	
1,2-Dichloroethane	ND	5.0	ug/L			10/27/21 18:07	
1,2-Dichloropropane	ND	5.0	ug/L			10/27/21 18:07	
1,3-Dichlorobenzene	ND	5.0	ug/L			10/27/21 18:07	
1,4-Dichlorobenzene	ND	5.0	ug/L			10/27/21 18:07	
2-Butanone (MEK)	ND	25	ug/L			10/27/21 18:07	
2-Butanone (MER)	ND ND	25	ug/L			10/27/21 18:07	
4-Methyl-2-pentanone (MIBK)	ND	25	ug/L			10/27/21 18:07	
• • • • • • • • • • • • • • • • • • • •	ND ND	25 25	-			10/27/21 18:07	
Acetone			ug/L				
3enzene	ND	5.0	ug/L			10/27/21 18:07	
3romodichloromethane	ND	5.0	ug/L			10/27/21 18:07	
Bromoform	ND	5.0	ug/L			10/27/21 18:07	
Bromomethane	ND	5.0	ug/L			10/27/21 18:07	
Carbon disulfide	ND	5.0	ug/L			10/27/21 18:07	
Carbon tetrachloride	ND	5.0	ug/L			10/27/21 18:07	
Chlorobenzene	ND	5.0	ug/L			10/27/21 18:07	
Chlorodibromomethane	ND	5.0	ug/L			10/27/21 18:07	
Chloroethane	39	5.0	ug/L			10/27/21 18:07	
Chloroform	ND	5.0	ug/L			10/27/21 18:07	
Chloromethane	ND	5.0	ug/L			10/27/21 18:07	
cis-1,2-Dichloroethene	ND	5.0	ug/L			10/27/21 18:07	
cis-1,3-Dichloropropene	ND	5.0	ug/L			10/27/21 18:07	
Cyclohexane	ND	5.0	ug/L			10/27/21 18:07	
Dichlorofluoromethane	ND	5.0	ug/L			10/27/21 18:07	
Ethylbenzene	ND	5.0	ug/L			10/27/21 18:07	
sopropylbenzene	ND	5.0	ug/L			10/27/21 18:07	
Methyl acetate	ND	5.2	ug/L			10/27/21 18:07	
Methyl tert-butyl ether	ND	5.0	ug/L			10/27/21 18:07	
Methylcyclohexane	ND	5.0	ug/L			10/27/21 18:07	
Methylene Chloride	ND	5.0	ug/L			10/27/21 18:07	
o-Chlorotoluene	ND	5.0	ug/L			10/27/21 18:07	
Styrene	ND	5.0				10/27/21 18:07	
Tetrachloroethene	ND ND	5.0	ug/L			10/27/21 18:07	
	ND ND		ug/L				
Foliuene		5.0	ug/L			10/27/21 18:07	
rans-1,2-Dichloroethene	ND	5.0	ug/L			10/27/21 18:07	
rans-1,3-Dichloropropene	ND	5.0	ug/L			10/27/21 18:07	
Trichloroethene	ND	5.0	ug/L			10/27/21 18:07	
Trichlorofluoromethane	ND	5.0	ug/L			10/27/21 18:07	•
Vinyl chloride	ND	5.0	ug/L			10/27/21 18:07	
Xylenes, Total	ND	15	ug/L			10/27/21 18:07	

Eurofins TestAmerica, Buffalo

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Client: Waste Management Job ID: 480-191354-1

Project/Site: ChemTrol Site - Annual Groundwater

Client Sample ID: MW-9R Lab Sample ID: 480-191354-8

Date Collected: 10/22/21 15:23 Matrix: Water Date Received: 10/23/21 11:30

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102	77 - 120		10/27/21 18:07	4
Toluene-d8 (Surr)	103	80 - 120		10/27/21 18:07	4
4-Bromofluorobenzene (Surr)	99	73 - 120		10/27/21 18:07	4
Dibromofluoromethane (Surr)	100	75 - 123		10/27/21 18:07	4

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Client: Waste Management Job ID: 480-191354-1

Project/Site: ChemTrol Site - Annual Groundwater

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

Lab Sample ID: MB 480-602169/7

Matrix: Water

Analysis Batch: 602169

Client Sample ID: Method Blank

		Prep Type: To	otal/NA
)	Prepared	Analyzed	Dil Fac
		10/27/21 10:50	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L		<u> </u>	10/27/21 10:50	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			10/27/21 10:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/L			10/27/21 10:50	1
1,1,2-Trichloroethane	ND		5.0		ug/L			10/27/21 10:50	1
1,1-Dichloroethane	ND		5.0		ug/L			10/27/21 10:50	1
1,2,4-Trichlorobenzene	ND		5.0		ug/L			10/27/21 10:50	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/27/21 10:50	1
1,2-Dibromoethane	ND		5.0		ug/L			10/27/21 10:50	1
1,2-Dichlorobenzene	ND		5.0		ug/L			10/27/21 10:50	1
1,2-Dichloroethane	ND		5.0		ug/L			10/27/21 10:50	1
1,2-Dichloropropane	ND		5.0		ug/L			10/27/21 10:50	1
1,3-Dichlorobenzene	ND		5.0		ug/L			10/27/21 10:50	1
1,4-Dichlorobenzene	ND		5.0		ug/L			10/27/21 10:50	1
2-Butanone (MEK)	ND		25		ug/L			10/27/21 10:50	1
2-Hexanone	ND		25		ug/L			10/27/21 10:50	1
4-Methyl-2-pentanone (MIBK)	ND		25		ug/L			10/27/21 10:50	·
Acetone	ND		25		ug/L			10/27/21 10:50	1
Benzene	ND		5.0		ug/L			10/27/21 10:50	1
Bromodichloromethane	ND		5.0					10/27/21 10:50	
Bromoform	ND		5.0		ug/L ug/L			10/27/21 10:50	1
Bromomethane	ND		5.0		_			10/27/21 10:50	1
Carbon disulfide	ND		5.0		ug/L			10/27/21 10:50	ا 1
	ND ND				ug/L			10/27/21 10:50	
Carbon tetrachloride	ND ND		5.0 5.0		ug/L				1
Chlorodibromomethana	ND ND				ug/L			10/27/21 10:50	1
Chlorodibromomethane			5.0		ug/L			10/27/21 10:50	1
Chloroethane	ND		5.0		ug/L			10/27/21 10:50	1
Chloroform	ND		5.0		ug/L			10/27/21 10:50	
Chloromethane	ND		5.0		ug/L			10/27/21 10:50	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			10/27/21 10:50	1
cis-1,3-Dichloropropene	ND		5.0		ug/L			10/27/21 10:50	
Cyclohexane	ND		5.0		ug/L			10/27/21 10:50	1
Dichlorofluoromethane	ND		5.0		ug/L			10/27/21 10:50	1
Ethylbenzene	ND		5.0		ug/L			10/27/21 10:50	
Isopropylbenzene	ND		5.0		ug/L			10/27/21 10:50	1
Methyl acetate	ND		5.0		ug/L			10/27/21 10:50	1
Methyl tert-butyl ether	ND		5.0		ug/L			10/27/21 10:50	1
Methylcyclohexane	ND		5.0		ug/L			10/27/21 10:50	1
Methylene Chloride	ND		5.0		ug/L			10/27/21 10:50	1
o-Chlorotoluene	ND		5.0		ug/L			10/27/21 10:50	1
Styrene	ND		5.0		ug/L			10/27/21 10:50	1
Tetrachloroethene	ND		5.0		ug/L			10/27/21 10:50	1
Toluene	ND		5.0		ug/L			10/27/21 10:50	1
trans-1,2-Dichloroethene	ND		5.0		ug/L			10/27/21 10:50	1
trans-1,3-Dichloropropene	ND		5.0		ug/L			10/27/21 10:50	1
Trichloroethene	ND		5.0		ug/L			10/27/21 10:50	1
Trichlorofluoromethane	ND		5.0		ug/L			10/27/21 10:50	1
Vinyl chloride	ND		5.0		ug/L			10/27/21 10:50	1
Xylenes, Total	ND		15		ug/L			10/27/21 10:50	1

Eurofins TestAmerica, Buffalo

Client: Waste Management Job ID: 480-191354-1

Project/Site: ChemTrol Site - Annual Groundwater

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

Lab Sample ID: MB 480-602169/7

Matrix: Water

Analysis Batch: 602169

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB M	IB			
Surrogate	%Recovery Q	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99	77 - 120		0/27/21 10:50	1
Toluene-d8 (Surr)	106	80 - 120	10	0/27/21 10:50	1
4-Bromofluorobenzene (Surr)	100	73 - 120	10	0/27/21 10:50	1
Dibromofluoromethane (Surr)	97	75 - 123	10	0/27/21 10:50	1

Lab Sample ID: LCS 480-602169/5

Matrix: Water

Analysis Batch: 602169

Client	Sample	ID:	Lab	Control	Sample
			Dro	a Turnou "	Total/NIA

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1,1-Trichloroethane	25.0	23.5		ug/L		94	73 - 126	
1,1,2,2-Tetrachloroethane	25.0	26.0		ug/L		104	76 - 120	
1,1,2-Trichloro-1,2,2-trifluoroetha	25.0	21.8		ug/L		87	61 - 148	
ne								
1,1,2-Trichloroethane	25.0	26.8		ug/L		107	76 - 122	
1,1-Dichloroethane	25.0	25.8		ug/L		103	77 - 120	
1,2,4-Trichlorobenzene	25.0	27.0		ug/L		108	79 - 122	
1,2-Dibromo-3-Chloropropane	25.0	22.1		ug/L		88	56 - 134	
1,2-Dibromoethane	25.0	26.7		ug/L		107	77 - 120	
1,2-Dichlorobenzene	25.0	26.9		ug/L		108	80 - 124	
1,2-Dichloroethane	25.0	24.3		ug/L		97	75 - 120	
1,2-Dichloropropane	25.0	27.4		ug/L		110	76 - 120	
1,3-Dichlorobenzene	25.0	27.1		ug/L		109	77 - 120	
1,4-Dichlorobenzene	25.0	27.1		ug/L		108	80 - 120	
2-Butanone (MEK)	125	127		ug/L		102	57 - 140	
2-Hexanone	125	132		ug/L		105	65 - 127	
4-Methyl-2-pentanone (MIBK)	125	122		ug/L		98	71 - 125	
Acetone	125	114		ug/L		91	56 - 142	
Benzene	25.0	27.2		ug/L		109	71 - 124	
Bromodichloromethane	25.0	26.3		ug/L		105	80 - 122	
Bromoform	25.0	22.1		ug/L		89	61 - 132	
Bromomethane	25.0	22.6		ug/L		91	55 - 144	
Carbon disulfide	25.0	20.1		ug/L		80	59 - 134	
Carbon tetrachloride	25.0	22.2		ug/L		89	72 - 134	
Chlorobenzene	25.0	26.9		ug/L		108	80 - 120	
Chlorodibromomethane	25.0	24.6		ug/L		98	75 - 125	
Chloroethane	25.0	22.5		ug/L		90	69 - 136	
Chloroform	25.0	23.4		ug/L		93	73 - 127	
Chloromethane	25.0	26.0		ug/L		104	68 - 124	
cis-1,2-Dichloroethene	25.0	25.4		ug/L		101	74 - 124	
cis-1,3-Dichloropropene	25.0	27.9		ug/L		112	74 - 124	
Cyclohexane	25.0	25.5		ug/L		102	59 - 135	
Dichlorofluoromethane	25.0	20.7		ug/L		83	76 - 127	
Ethylbenzene	25.0	26.6		ug/L		106	77 - 123	
Isopropylbenzene	25.0	27.4		ug/L		110	77 - 122	
Methyl acetate	50.0	41.4		ug/L		83	74 - 133	
Methyl tert-butyl ether	25.0	25.0		ug/L		100	77 - 120	
Methylcyclohexane	25.0	25.5		ug/L		102	68 - 134	
Methylene Chloride	25.0	26.3		ug/L		105	75 ₋ 124	
	20.0	_0.0		~9, -		.00		

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Client: Waste Management

Project/Site: ChemTrol Site - Annual Groundwater

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

Lab Sample ID: LCS 480-602169/5

Matrix: Water

Analysis Batch: 602169

Client Sample ID: Lab Control Sample

Job ID: 480-191354-1

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
o-Chlorotoluene	25.0	26.4		ug/L		106	76 - 121	
Styrene	25.0	27.6		ug/L		110	80 - 120	
Tetrachloroethene	25.0	26.7		ug/L		107	74 - 122	
Toluene	25.0	27.6		ug/L		110	80 - 122	
trans-1,2-Dichloroethene	25.0	25.0		ug/L		100	73 - 127	
trans-1,3-Dichloropropene	25.0	26.7		ug/L		107	80 - 120	
Trichloroethene	25.0	26.7		ug/L		107	74 - 123	
Trichlorofluoromethane	25.0	18.1		ug/L		72	62 - 150	
Vinyl chloride	25.0	24.7		ug/L		99	65 - 133	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		77 - 120
Toluene-d8 (Surr)	104		80 - 120
4-Bromofluorobenzene (Surr)	98		73 - 120
Dibromofluoromethane (Surr)	98		75 - 123

Client Sample ID: MW-13R

Prep Type: Total/NA

Analysis Batch: 602169

Matrix: Water

Lab Sample ID: 480-191354-3 MS

7 maryolo Batom 002100	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1,1-Trichloroethane	ND		1000	1110		ug/L		111	73 - 126
1,1,2,2-Tetrachloroethane	ND		1000	1110		ug/L		111	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroetha	ND		1000	1150		ug/L		115	61 - 148
ne									
1,1,2-Trichloroethane	ND		1000	1130		ug/L		113	76 - 122
1,1-Dichloroethane	ND		1000	1150		ug/L		115	77 - 120
1,2,4-Trichlorobenzene	ND		1000	1090		ug/L		109	79 - 122
1,2-Dibromo-3-Chloropropane	ND		1000	975		ug/L		98	56 - 134
1,2-Dibromoethane	ND		1000	1140		ug/L		114	77 - 120
1,2-Dichlorobenzene	ND		1000	1150		ug/L		115	80 - 124
1,2-Dichloroethane	ND		1000	1060		ug/L		106	75 - 120
1,2-Dichloropropane	ND	F1	1000	1220	F1	ug/L		122	76 - 120
1,3-Dichlorobenzene	ND		1000	1150		ug/L		115	77 - 120
1,4-Dichlorobenzene	ND		1000	1150		ug/L		115	78 - 124
2-Butanone (MEK)	ND		5000	5660		ug/L		113	57 - 140
2-Hexanone	ND		5000	5770		ug/L		115	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		5000	5450		ug/L		109	71 - 125
Acetone	ND	F2	5000	3420		ug/L		68	56 - 142
Benzene	ND		1000	1230		ug/L		123	71 - 124
Bromodichloromethane	ND		1000	1130		ug/L		113	80 - 122
Bromoform	ND		1000	935		ug/L		94	61 - 132
Bromomethane	ND		1000	927		ug/L		93	55 - 144
Carbon disulfide	ND	F2	1000	945		ug/L		95	59 - 134
Carbon tetrachloride	ND		1000	1060		ug/L		106	72 - 134
Chlorobenzene	ND		1000	1180		ug/L		118	80 - 120
Chlorodibromomethane	ND		1000	1040		ug/L		104	75 - 125
Chloroethane	ND		1000	1040		ug/L		104	69 - 136
Chloroform	ND		1000	1040		ug/L		104	73 - 127

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Client: Waste Management

Project/Site: ChemTrol Site - Annual Groundwater

Job ID: 480-191354-1

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

Lab Sample ID: 480-191354-3 MS

Matrix: Water

Analysis Batch: 602169

Client Sample ID: MW-13R

Prep Type: Total/NA

MS MS %Rec. Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloromethane ND 1000 1170 ug/L 117 68 - 124 cis-1,2-Dichloroethene ND 1000 1120 ug/L 112 74 - 124 cis-1,3-Dichloropropene ND 1000 ug/L 74 - 124 1160 116 F1 Cyclohexane ND 1000 1380 F1 ug/L 138 59 - 135 Dichlorofluoromethane ND 1000 981 ug/L 98 76 - 127 1000 77 - 123 Ethylbenzene ND 1200 ug/L 120 Isopropylbenzene ND 1000 1190 ug/L 119 77 - 122 2000 1980 ug/L 99 74 - 133 Methyl acetate ND Methyl tert-butyl ether ND 1000 1050 105 ug/L 77 - 120ND Methylcyclohexane 1000 1330 133 68 - 134 ug/L Methylene Chloride ND 1000 1200 ug/L 120 75 - 124 ug/L o-Chlorotoluene 1000 47 1700 F1 2210 F1 76 - 121 Styrene ND 1000 1190 ug/L 119 80 - 120 ND F1 74 - 122 Tetrachloroethene 1000 1260 F1 ug/L 126 Toluene ND F1 1000 1230 F1 ug/L 123 80 - 122 trans-1,2-Dichloroethene ND 1000 1160 116 ug/L 73 - 127 trans-1,3-Dichloropropene ND 1000 1080 ug/L 108 80 - 120 ug/L Trichloroethene ND 1000 1220 122 74 - 123 Trichlorofluoromethane ND 1000 972 97 ug/L 62 - 150

1000

1240

ug/L

124

65 - 133

Client Sample ID: MW-13R

Prep Type: Total/NA

MS MS

ND

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		77 - 120
Toluene-d8 (Surr)	105		80 - 120
4-Bromofluorobenzene (Surr)	98		73 - 120
Dibromofluoromethane (Surr)	98		75 - 123

Lab Sample ID: 480-191354-3 MSD

Matrix: Water

Vinyl chloride

Analysis Batch: 602169

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1,1-Trichloroethane	ND		1000	1070		ug/L		107	73 - 126	4	15
1,1,2,2-Tetrachloroethane	ND		1000	1110		ug/L		111	76 - 120	1	15
1,1,2-Trichloro-1,2,2-trifluoroetha	ND		1000	1000		ug/L		100	61 - 148	14	20
ne											
1,1,2-Trichloroethane	ND		1000	1140		ug/L		114	76 - 122	1	15
1,1-Dichloroethane	ND		1000	1120		ug/L		112	77 - 120	3	20
1,2,4-Trichlorobenzene	ND		1000	1020		ug/L		102	79 - 122	7	20
1,2-Dibromo-3-Chloropropane	ND		1000	933		ug/L		93	56 - 134	4	15
1,2-Dibromoethane	ND		1000	1160		ug/L		116	77 - 120	1	15
1,2-Dichlorobenzene	ND		1000	1100		ug/L		110	80 - 124	5	20
1,2-Dichloroethane	ND		1000	1030		ug/L		103	75 - 120	2	20
1,2-Dichloropropane	ND	F1	1000	1200		ug/L		120	76 - 120	2	20
1,3-Dichlorobenzene	ND		1000	1130		ug/L		113	77 - 120	2	20
1,4-Dichlorobenzene	ND		1000	1130		ug/L		113	78 - 124	2	20
2-Butanone (MEK)	ND		5000	5730		ug/L		115	57 - 140	1	20
2-Hexanone	ND		5000	6000		ug/L		120	65 - 127	4	15
4-Methyl-2-pentanone (MIBK)	ND		5000	5590		ug/L		112	71 - 125	3	35

Eurofins TestAmerica, Buffalo

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Client: Waste Management

Project/Site: ChemTrol Site - Annual Groundwater

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

Lab Sample ID: 480-191354-3 MSD

Matrix: Water

Client Sample ID: MW-13R

Prep Type: Total/NA

Job ID: 480-191354-1

Analysis Batch: 602169	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	•	Qualifier	Added	_	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acetone	ND	F2	5000	4700	F2	ug/L		94	56 - 142	31	15
Benzene	ND		1000	1190		ug/L		119	71 - 124	3	13
Bromodichloromethane	ND		1000	1120		ug/L		112	80 - 122	0	15
Bromoform	ND		1000	989		ug/L		99	61 - 132	6	15
Bromomethane	ND		1000	911		ug/L		91	55 - 144	2	15
Carbon disulfide	ND	F2	1000	1130	F2	ug/L		113	59 - 134	18	15
Carbon tetrachloride	ND		1000	1030		ug/L		103	72 - 134	4	15
Chlorobenzene	ND		1000	1180		ug/L		118	80 - 120	1	25
Chlorodibromomethane	ND		1000	1070		ug/L		107	75 - 125	2	15
Chloroethane	ND		1000	982		ug/L		98	69 - 136	6	15
Chloroform	ND		1000	991		ug/L		99	73 - 127	5	20
Chloromethane	ND		1000	1080		ug/L		108	68 - 124	8	15
cis-1,2-Dichloroethene	ND		1000	1100		ug/L		110	74 - 124	2	15
cis-1,3-Dichloropropene	ND		1000	1170		ug/L		117	74 - 124	1	15
Cyclohexane	ND	F1	1000	1310		ug/L		131	59 - 135	5	20
Dichlorofluoromethane	ND		1000	921		ug/L		92	76 - 127	6	20
Ethylbenzene	ND		1000	1190		ug/L		119	77 - 123	1	15
Isopropylbenzene	ND		1000	1150		ug/L		115	77 - 122	4	20
Methyl acetate	ND		2000	2010		ug/L		101	74 - 133	2	20
Methyl tert-butyl ether	ND		1000	1030		ug/L		103	77 - 120	2	37
Methylcyclohexane	ND		1000	1270		ug/L		127	68 - 134	5	20
Methylene Chloride	ND		1000	1120		ug/L		112	75 - 124	6	15
o-Chlorotoluene	1700	F1	1000	2160	F1	ug/L		42	76 - 121	2	20
Styrene	ND		1000	1200		ug/L		120	80 - 120	1	20
Tetrachloroethene	ND	F1	1000	1230	F1	ug/L		123	74 - 122	2	20
Toluene	ND	F1	1000	1220		ug/L		122	80 - 122	1	15
trans-1,2-Dichloroethene	ND		1000	1080		ug/L		108	73 - 127	7	20
trans-1,3-Dichloropropene	ND		1000	1110		ug/L		111	80 - 120	2	15
Trichloroethene	ND		1000	1180		ug/L		118	74 - 123	3	16
Trichlorofluoromethane	ND		1000	955		ug/L		95	62 - 150	2	20

MSD MSD

ND

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		77 - 120
Toluene-d8 (Surr)	107		80 - 120
4-Bromofluorobenzene (Surr)	102		73 - 120
Dibromofluoromethane (Surr)	99		75 - 123

Lab Sample ID: MB 480-602367/8

Matrix: Water

Vinyl chloride

Analysis Batch: 602367

Client Sample ID: Method Blank

65 - 133

112

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			10/28/21 12:18	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			10/28/21 12:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/L			10/28/21 12:18	1
1,1,2-Trichloroethane	ND		5.0		ug/L			10/28/21 12:18	1
1,1-Dichloroethane	ND		5.0		ug/L			10/28/21 12:18	1

1120

1000

ug/L

Eurofins TestAmerica, Buffalo

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15

10

Client: Waste Management Job ID: 480-191354-1

Project/Site: ChemTrol Site - Annual Groundwater

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

Lab Sample ID: MB 480-602367/8

Matrix: Water

Surrogate

Toluene-d8 (Surr)

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Analysis Batch: 602367

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		5.0	ug/L			10/28/21 12:18	
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L			10/28/21 12:18	1
1,2-Dibromoethane	ND		5.0	ug/L			10/28/21 12:18	1
1,2-Dichlorobenzene	ND		5.0	ug/L			10/28/21 12:18	1
1,2-Dichloroethane	ND		5.0	ug/L			10/28/21 12:18	1
1,2-Dichloropropane	ND		5.0	ug/L			10/28/21 12:18	1
1,3-Dichlorobenzene	ND		5.0	ug/L			10/28/21 12:18	1
1,4-Dichlorobenzene	ND		5.0	ug/L			10/28/21 12:18	1
2-Butanone (MEK)	ND		25	ug/L			10/28/21 12:18	1
2-Hexanone	ND		25	ug/L			10/28/21 12:18	1
4-Methyl-2-pentanone (MIBK)	ND		25	ug/L			10/28/21 12:18	1
Acetone	ND		25	ug/L			10/28/21 12:18	1
Benzene	ND		5.0	ug/L			10/28/21 12:18	1
Bromodichloromethane	ND		5.0	ug/L			10/28/21 12:18	1
Bromoform	ND		5.0	ug/L			10/28/21 12:18	1
Bromomethane	ND		5.0	ug/L			10/28/21 12:18	1
Carbon disulfide	ND		5.0	ug/L			10/28/21 12:18	1
Carbon tetrachloride	ND		5.0	ug/L			10/28/21 12:18	1
Chlorobenzene	ND		5.0	ug/L			10/28/21 12:18	1
Chlorodibromomethane	ND		5.0	ug/L			10/28/21 12:18	1
Chloroethane	ND		5.0	ug/L			10/28/21 12:18	1
Chloroform	ND		5.0	ug/L			10/28/21 12:18	1
Chloromethane	ND		5.0	ug/L			10/28/21 12:18	1
cis-1,2-Dichloroethene	ND		5.0	ug/L			10/28/21 12:18	1
cis-1,3-Dichloropropene	ND		5.0	ug/L			10/28/21 12:18	1
Cyclohexane	ND		5.0	ug/L			10/28/21 12:18	1
Dichlorofluoromethane	ND		5.0	ug/L			10/28/21 12:18	1
Ethylbenzene	ND		5.0	ug/L			10/28/21 12:18	1
Isopropylbenzene	ND		5.0	ug/L			10/28/21 12:18	1
Methyl acetate	ND		5.0	ug/L			10/28/21 12:18	1
Methyl tert-butyl ether	ND		5.0	ug/L			10/28/21 12:18	1
Methylcyclohexane	ND		5.0	ug/L			10/28/21 12:18	1
Methylene Chloride	ND		5.0	ug/L			10/28/21 12:18	1
o-Chlorotoluene	ND		5.0	ug/L			10/28/21 12:18	1
Styrene	ND		5.0	ug/L			10/28/21 12:18	1
Tetrachloroethene	ND		5.0	ug/L			10/28/21 12:18	1
Toluene	ND		5.0	ug/L			10/28/21 12:18	1
trans-1,2-Dichloroethene	ND		5.0	ug/L			10/28/21 12:18	1
trans-1,3-Dichloropropene	ND		5.0	ug/L			10/28/21 12:18	1
Trichloroethene	ND		5.0	ug/L			10/28/21 12:18	1
Trichlorofluoromethane	ND		5.0	ug/L			10/28/21 12:18	1
Vinyl chloride	ND		5.0	ug/L			10/28/21 12:18	1
Xylenes, Total	ND		15	ug/L			10/28/21 12:18	1

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Analyzed

10/28/21 12:18

10/28/21 12:18

10/28/21 12:18

Dil Fac

10/29/2021

Prepared

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Limits

77 - 120

80 - 120

73 - 120

%Recovery Qualifier

99

105

Client: Waste Management

Project/Site: ChemTrol Site - Annual Groundwater

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

Lab Sample ID: MB 480-602367/8

Matrix: Water

Analysis Batch: 602367

Client Sample ID: Method Blank

Prep Type: Total/NA

Job ID: 480-191354-1

MB MB

%Recovery Qualifier Limits Analyzed Dil Fac Surrogate Prepared Dibromofluoromethane (Surr) 101 75 - 123 10/28/21 12:18

Lab Sample ID: LCS 480-602367/6

Matrix: Water

Analysis Batch: 602367

1,2-Dibromo-3-Chloropropane

4-Methyl-2-pentanone (MIBK)

1,2-Dibromoethane

1,2-Dichlorobenzene

1.2-Dichloroethane

1,2-Dichloropropane

1,3-Dichlorobenzene

1,4-Dichlorobenzene

Bromodichloromethane

2-Butanone (MEK)

2-Hexanone

Acetone

Benzene

Bromoform

Bromomethane

Carbon disulfide

Chlorobenzene

Carbon tetrachloride

Client Sample I	D: Lab Control Sample	
	Prep Type: Total/NA	

56 - 134

86

87

97

116

72 - 134

80 - 120

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits 1,1,1-Trichloroethane 25.0 25.5 ug/L 102 73 - 126 ug/L 1,1,2,2-Tetrachloroethane 25.0 25.5 102 76 - 120 1,1,2-Trichloro-1,2,2-trifluoroetha 25.0 22.7 ug/L 91 61 - 14825.0 27.9 112 76 - 122 1,1,2-Trichloroethane ug/L 1,1-Dichloroethane 25.0 27.5 ug/L 110 77 - 120 1,2,4-Trichlorobenzene 25.0 26.5 ug/L 106 79 - 122

25.0

25.0 27.6 ug/L 110 77 - 12025.0 26.8 107 80 - 124 ug/L 75 - 120 25.0 24.8 99 ug/L 25.0 29.9 ug/L 120 76 - 120

ug/L

ug/L

ug/L 25.0 28.1 112 77 - 120 25.0 27.3 ug/L 109 80 - 120 125 134 ug/L 107 57 - 140125 133 ug/L 107 65 - 127125 124 ug/L 100 71 - 125

125 109 56 - 142 ug/L 25.0 29.2 ug/L 117 71 - 124 25.0 27.4 ug/L 110 80 - 122 25.0 23.8 ug/L 95 61 - 13225.0 ug/L 96 55 - 144 24 1 25.0 17.1 ug/L 68 59 - 134

24 4

29.0

21.5

ug/L Chlorodibromomethane 25.0 26.2 105 75 - 125 ug/L Chloroethane 25.0 24.3 ug/L 97 69 - 136 Chloroform 25.0 24.6 ug/L 98 73 - 127 Chloromethane 25.0 28.7 ug/L 115 68 - 124cis-1,2-Dichloroethene 25.0 27.3 ug/L 109 74 - 124

25.0

25.0

cis-1,3-Dichloropropene 25.0 29.7 ug/L 119 74 - 124 Cyclohexane 25.0 28.5 ug/L 114 59 - 135 Dichlorofluoromethane 25.0 81 76 - 127 20.3 ug/L 115 77 - 123 Ethylbenzene 25.0 28.9 ug/L Isopropylbenzene 25.0 27.8 ug/L 111 77 - 122

50.0 42.2 84 74 - 133 Methyl acetate ug/L Methyl tert-butyl ether 25.6 102 25.0 ug/L 77 - 120Methylcyclohexane 25.0 27.7 111 68 - 134 ug/L Methylene Chloride 25.0 28.1 ug/L 113 75 - 124

o-Chlorotoluene 25.0 26.9 ug/L 107 76 - 121 Styrene 25.0 28.9 ug/L 116 80 - 120 Tetrachloroethene 25.0 29.8 ug/L 119 74 - 122

Eurofins TestAmerica, Buffalo

Client: Waste Management Job ID: 480-191354-1

Project/Site: ChemTrol Site - Annual Groundwater

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

LCS LCS

%Recovery Qualifier

96

108

102

101

Lab Sample ID: LCS 480-602367/6

Matrix: Water

Surrogate

Toluene-d8 (Surr)

Analysis Batch: 602367

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Toluene	25.0	29.8		ug/L		119	80 - 122	
trans-1,2-Dichloroethene	25.0	27.2		ug/L		109	73 - 127	
trans-1,3-Dichloropropene	25.0	28.1		ug/L		112	80 - 120	
Trichloroethene	25.0	28.7		ug/L		115	74 - 123	
Trichlorofluoromethane	25.0	19.6		ug/L		79	62 - 150	
Vinyl chloride	25.0	27.3		ug/L		109	65 - 133	

Limits

77 - 120

80 - 120

73 - 120

75 - 123

QC Association Summary

Client: Waste Management Job ID: 480-191354-1

Project/Site: ChemTrol Site - Annual Groundwater

GC/MS VOA

Analysis Batch: 602169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-191354-1	Trip Blank	Total/NA	Water	8260C	
480-191354-2	DUP	Total/NA	Water	8260C	
480-191354-3	MW-13R	Total/NA	Water	8260C	
480-191354-4	MW-15R	Total/NA	Water	8260C	
480-191354-6	MW-7R	Total/NA	Water	8260C	
480-191354-7	MW-8R	Total/NA	Water	8260C	
480-191354-8	MW-9R	Total/NA	Water	8260C	
MB 480-602169/7	Method Blank	Total/NA	Water	8260C	
LCS 480-602169/5	Lab Control Sample	Total/NA	Water	8260C	
480-191354-3 MS	MW-13R	Total/NA	Water	8260C	
480-191354-3 MSD	MW-13R	Total/NA	Water	8260C	

Analysis Batch: 602367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-191354-5	MW-3S	Total/NA	Water	8260C	
MB 480-602367/8	Method Blank	Total/NA	Water	8260C	
LCS 480-602367/6	Lab Control Sample	Total/NA	Water	8260C	

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

Client Sample ID: Trip Blank

Date Collected: 10/22/21 00:00 Date Received: 10/23/21 11:30

Lab Sample ID: 480-191354-1

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

10/29/2021

Job ID: 480-191354-1

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	602169	10/27/21 15:26	LCH	TAL BUF

Client Sample ID: DUP Lab Sample ID: 480-191354-2

Date Collected: 10/22/21 00:00 Date Received: 10/23/21 11:30

Batch Batch Dilution **Batch Prepared Prep Type** Type Method Run **Factor** Number or Analyzed Analyst Lab Total/NA Analysis 8260C 602169 10/27/21 15:49 I CH TAL BUF

Client Sample ID: MW-13R Lab Sample ID: 480-191354-3

Date Collected: 10/22/21 13:47 **Matrix: Water**

Date Received: 10/23/21 11:30

Batch Batch Dilution Batch Prepared **Prep Type** Method **Factor** Number or Analyzed Type Run Analyst Lab TAL BUF Total/NA Analysis 8260C 40 602169 10/27/21 16:12 LCH

Client Sample ID: MW-15R Lab Sample ID: 480-191354-4

Date Collected: 10/22/21 13:08 **Matrix: Water**

Date Received: 10/23/21 11:30

Batch Batch Dilution Batch Prepared **Prep Type** Method Run Factor Number or Analyzed Analyst Type Lab Total/NA Analysis 8260C 602169 10/27/21 16:35 LCH TAL BUF

Client Sample ID: MW-3S Lab Sample ID: 480-191354-5

Date Collected: 10/22/21 16:08

Date Received: 10/23/21 11:30

Batch Batch Dilution Batch Prepared Method Run **Factor** Number or Analyzed **Prep Type** Type Analyst Lab TAL BUF Total/NA Analysis 8260C 500 602367 10/28/21 12:55 LCH

Client Sample ID: MW-7R Lab Sample ID: 480-191354-6

Date Collected: 10/22/21 16:39

Date Received: 10/23/21 11:30

Batch Batch Dilution Batch **Prepared Prep Type** Type Method Run **Factor** Number or Analyzed Analyst Lab 10/27/21 17:21 LCH TAL BUF Total/NA Analysis 8260C 602169

Client Sample ID: MW-8R Lab Sample ID: 480-191354-7

Date Collected: 10/22/21 14:32 Date Received: 10/23/21 11:30

Batch Batch Dilution Batch **Prepared** Method **Prep Type** Type Run **Factor** Number or Analyzed Analyst Lab 8260C TAL BUF Total/NA Analysis 4 602169 10/27/21 17:44 LCH

Lab Chronicle

Client: Waste Management Job ID: 480-191354-1

Project/Site: ChemTrol Site - Annual Groundwater

Client Sample ID: MW-9R Lab Sample ID: 480-191354-8

Date Collected: 10/22/21 15:23 Matrix: Water

Date Received: 10/23/21 11:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	602169	10/27/21 18:07	LCH	TAL BUF

Laboratory References:

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

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11

12

Accreditation/Certification Summary

Client: Waste Management Job ID: 480-191354-1

Project/Site: ChemTrol Site - Annual Groundwater

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority New York		Program NELAP	Identification Number 10026	Expiration Date 04-01-22
The following analytes the agency does not o		port, but the laboratory is r	ot certified by the governing authority.	This list may include analytes for wh
Analysis Method	Prep Method	Matrix	Analyte	
8260C		Water	Dichlorofluoromethane	

Eurofins TestAmerica, Buffalo

3

4

9

10

12

Method Summary

Client: Waste Management

Project/Site: ChemTrol Site - Annual Groundwater

MethodMethod DescriptionProtocolLaboratory8260CVolatile Organic Compounds by GC/MSSW846TAL BUF5030CPurge and TrapSW846TAL BUF

Protocol References:

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

Laboratory References:

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

Job ID: 480-191354-1

2

4

5

7

8

11

40

Sample Summary

Client: Waste Management Job ID: 480-191354-1

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-191354-1	Trip Blank	Water	10/22/21 00:00	10/23/21 11:30
480-191354-2	DUP	Water	10/22/21 00:00	10/23/21 11:30
480-191354-3	MW-13R	Water	10/22/21 13:47	10/23/21 11:30
480-191354-4	MW-15R	Water	10/22/21 13:08	10/23/21 11:30
480-191354-5	MW-3S	Water	10/22/21 16:08	10/23/21 11:30
480-191354-6	MW-7R	Water	10/22/21 16:39	10/23/21 11:30
480-191354-7	MW-8R	Water	10/22/21 14:32	10/23/21 11:30
480-191354-8	MW-9R	Water	10/22/21 15:23	10/23/21 11:30

Chain of Custody Record

Eurofins TestAmerica, Buffalo

10 Hazelwood Drive Amherst, NY 14228-2298	S S	Chain of Custody Record	ustody	Record		eurofins Environment Testing
Phone: 716-691-2600 Fax: 716-691-7991						
Client Information	Santain V	Some Me	<u> </u>	Lab PM: VanDette, Ryan T	Carrier Tracking No(s):	COC No: 480-163871-30197 1
Client Contact: Chad Moose	Phone 7/6)3	to 26	25	E-Mail: Ryan.VanDette@Eurofinset.com	State of Origin:	Page:
Company: Waste Management		PWSID:		Analysis	Analysis Reguested	- 50 - 50 mg - 1
Address: Tullytown Landfill 444 Oxford Valley Road	Due Date Requested:					Preservation Codes:
City: Convictible Convictible	TAT Requested (days):	0				A - HCL M - Hexane B - NaOH N - None
State, Zp: PA, 19067	, Proje	- 5		T		
Phone: 215-269-2114(Tel) 215-699-8315(Fax)	PO#: 10132351			(6		
Email: cmoose@wm.com						
Project Name: Project War Chem Trol Annual Groundwate 48002447	Project #: te 48002447				4	480-191354 Chain of Custody
Site: New York	SSOW#:			///(iii		Other:
مناب المسام			Matrix (W=water, S=solid, O=waste/oil,	ت الاودوط : الروس : الناف : الناف : الناف : الناف : Diditie		al Number c
Sample identification	Sample Date	Time G=grab)	<u>a</u> ;			Special Instructions/Note:
Trip Blank	10/27/21	1	Water			
DUP		3		2		
MW-13R	E	347 6	Water	2		
MW-15R	13		Water	3		
MW-3S	,	1608	Water			
MW-7R	2	_	Water	5		
MW-8R	>		Water	3		
MW-9R	10/22/21 1	7 828	Water	3		
*						
		+				
				Sample Disposal (A fee ma	i possosse of A	
Mon-Hazard Flammable Skin Irritant Poison B Deliverable Requested: 1, III. IIV. Other (specify)	son B Unknown	Radiological	ical	Return To Client	Disposal By Lab	Return To Client Disposal By Lab Archive For Months
Emoty Kit Dollar anichod but				Special Instructions/QC Requirements:	irements:	
Relinquished by	Date:	te:		Time:	Method of Shipment:	
Keinquished by:	3/21	061190	Company	Received by:	Date/Time:	3/2/ Q 1130 Company 8
Reinauished by	E E			Received by:	Date/Time:	Сотрапу
	Date/ IIme:		Company	Received by:	Date/Time:	Company
Custody Seals Infact: Custody Seal No.: A Yes A No				Cooler Temperature(s) °C and Other Remarks:	Other Remarks:	5.3.
						Ver: 06/08/2021

ATTACHMENT C

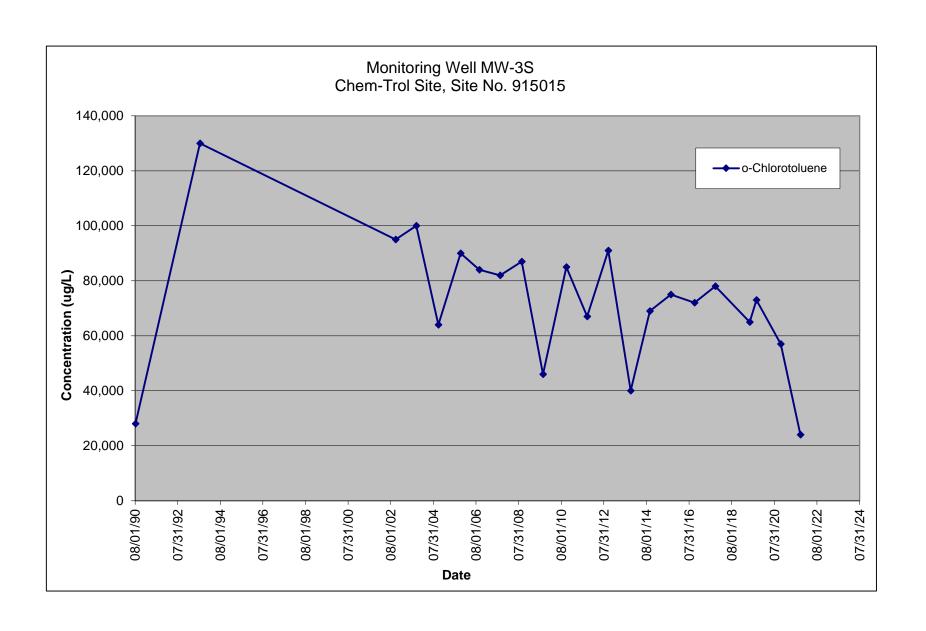
Historical Data Trend Plots

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

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

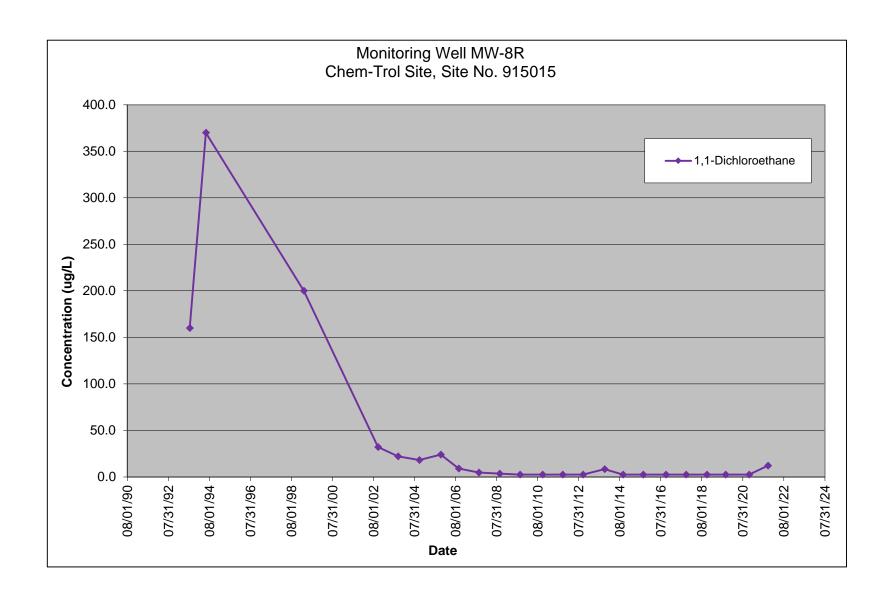


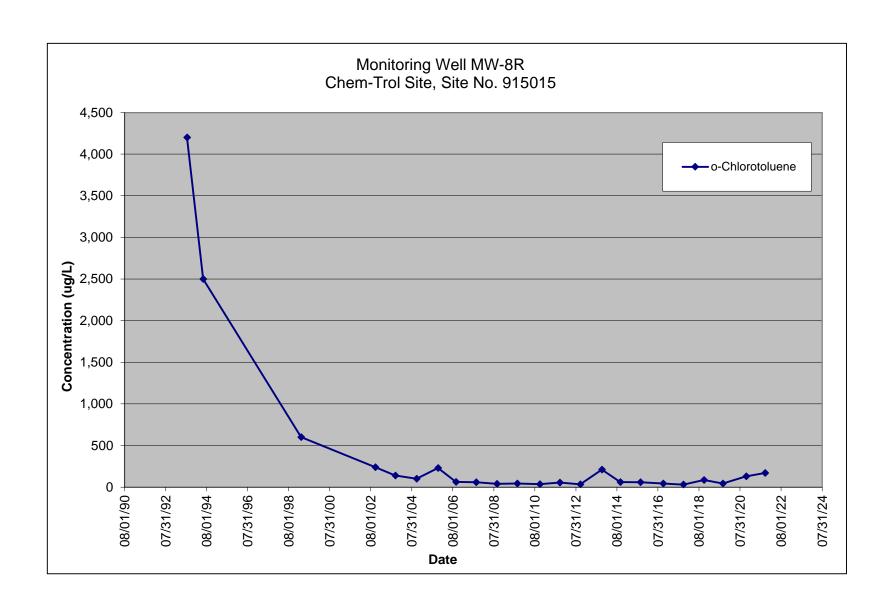
CHEM-TROL SITE

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

Value is equal to 1/2 the detection limit.



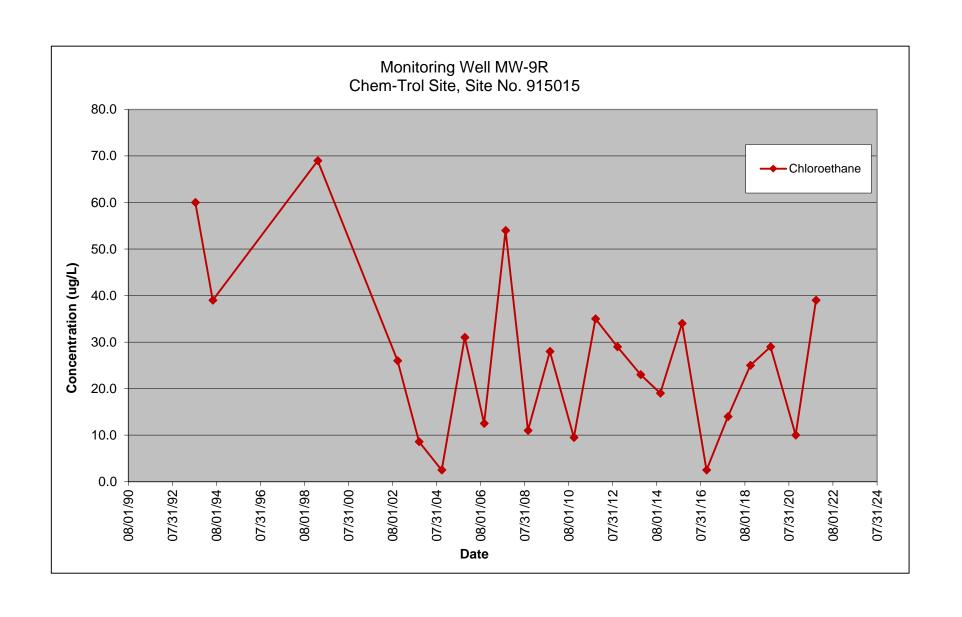


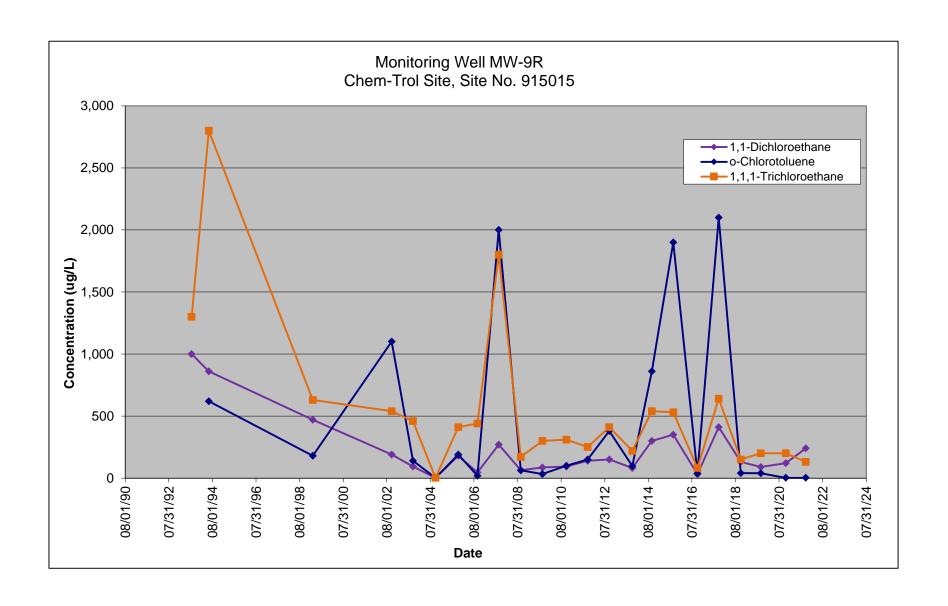
CHEM-TROL SITE

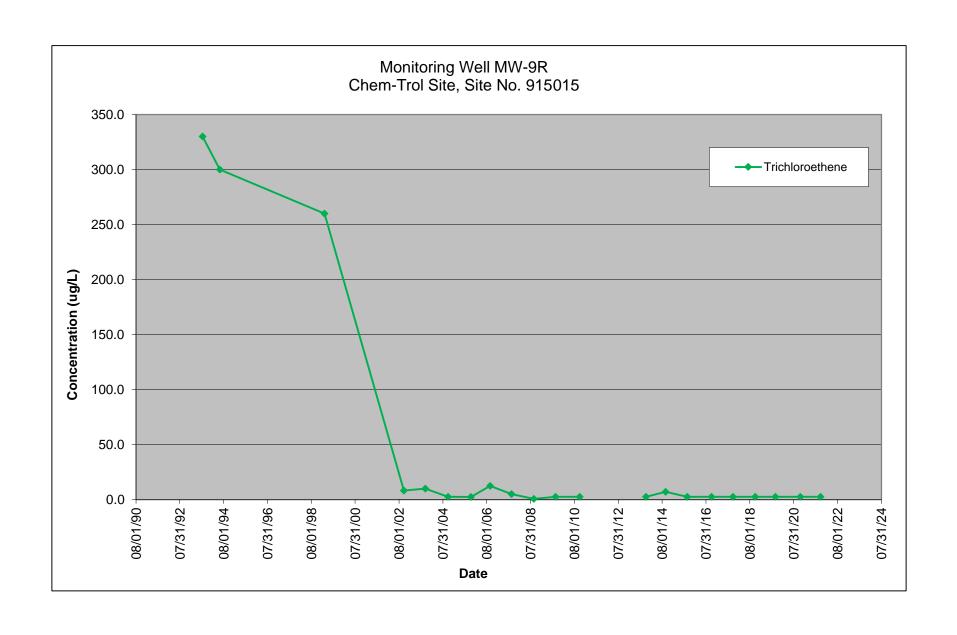
Groundwater Analytical Data for Well MW-9R (ug/L)

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

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.







 $\label{eq:chem-trol} CHEM\text{-}TROL\ SITE$ 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

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.

