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March 26, 2015

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

Subject: 2014 PERIODIC REVIEW REPORT
Chem-Trol Site, Registry No. 9-15-015,
Blasdell, Erie County

Dear Mr. Sadowski:

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. This report is being submitted as requested by the New York State Department of Environmental Conservation (NYSDEC) in its letter dated February 20, 2015 to Mr. Dave Moreira. The letter provides guidance for preparing the PRR and IC/EC forms and requires that they be submitted to NYSDEC no later than March 31, 2015.

I. INTRODUCTION

The Chem-Trol site is located at 4818 Lake Avenue, Town of Hamburg, in Erie County, New York. Chem-Trol Pollution Services 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 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 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 shallow overburden as well as the deeper 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.

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 5) and TestAmerica Laboratories, Inc. (Amherst, NY) (item 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,
2. Perform quarterly acid wash of the air stripper, including a once-per-year dismantling of the air stripper to check seals and remove mineral accumulation in air stripper trays using mechanical means (scrubbing, re-drilling holes to full diameter, etc.),
3. Sample and analyze the groundwater collection and treatment system influent and effluent 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. Analytical test results show that discharge parameter concentrations in the stripper effluent for 2014 were below the concentration and mass loading discharge limits established by NYSDEC for 10 of 12 months. There were no VOC concentration or mass loading exceedances for any month. Total Iron exceeded the concentration but not the mass loading discharge limit for April and November. TSS exceeded the concentration but not the mass loading discharge limit for November. Details for these events are as follows:

- April 10, 2014 effluent sample, there was a Total Iron detection of 5,890 µg/L (vs. the concentration limit of 3,000 µg/L).
- November 25, 2014 effluent sample, there was a Total Iron detection of 3,270 µg/L (vs. the concentration limit of 3,000 µg/L).
- November 25, 2014 effluent sample, TSS detection of 28 mg/L (vs. the concentration limit of 20 mg/L).

In response to the elevated concentration iron results in the April and November events, AECOM performed an acid wash of the air stripper and discharge piping to remove accumulated iron mineralization in May and December 2014. Samples following the acid wash cleanings showed no exceedance of the concentration or mass loading discharge limits.

Analytical test results for the 2014 monthly aqueous effluent samples are included in the Operation and Maintenance (O&M) reports submitted by AECOM to NYSDEC on a quarterly basis.

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.

A summary of groundwater elevations measured in the groundwater monitoring wells and piezometers is included in Table 1 - Summary of Groundwater Elevation Measurements 2014. Quarterly groundwater elevation contours are plotted on Figures 2 through 5.

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 July 2002 through December 2014 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.

A summary of VOC detections for the annual 2014 groundwater-sampling event is included as Table 2, Detection Summary. The complete 2014 groundwater sample analytical laboratory report is included as Attachment B. Historical concentration versus time trend plots for monitoring wells MW3S, 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 activities in 2014 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 2014 as part of 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 and cleaning of stripper trays. Performed acid washes quarterly or more often if necessary to promote optimum removal of VOCs, and
- Prepared and submitted 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 monthly O&M visits. With the exception of general maintenance work performed on pumps, equipment, and sensors, as described in the monthly O&M reports, no significant issues have occurred to the groundwater collection and treatment system. Results of the treatment system performance are discussed in Section III.

V. CONCLUSIONS AND RECOMMENDATIONS

Groundwater Collection and Treatment

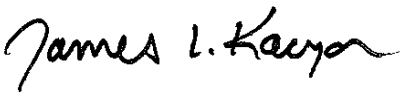
A comparison of the monthly influent vs. effluent analytical test results shows that the groundwater collection and treatment system continues to remove contaminants from groundwater at the Chem-Trol site. A plot of the influent o-chlorotoluene concentration versus time (see Figure 6) indicates that the source contributing to groundwater VOC concentrations has been reduced to where its influence on groundwater has decreased and appears to continue approaching an asymptotic curve.

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.

No changes to the activities currently being performed at the Chem-Trol site are recommended.

Please call the undersigned at AECOM (716-836-4506) or Mr. Dave Moreira (603-929-5446) if you have any questions or require any additional information after reviewing this report.

Sincerely yours,



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

Enclosures (Tables, Figures)

Attachments (IC/EC Form, 2014 Annual Groundwater Data Report, Historical Trend Plots)

cc. Dave Moreira (SC Holdings, Inc.) w/attachments
Daniel Servetas, P.E. (AECOM), w/attachments
60336580 Project File

TABLES

Table 1
Chem-Trol Site, Blasdell, NY
Summary of Groundwater Elevation Measurements 2014

Pumping Wells		1Q Date 3/14/2014		2Q Date 8/13/2014		3Q Date 9/30/2014		4Q Date 12/17/2014	
Well ID	Monitoring Point (TIC)	Depth To Water (ft)	1st Quarter Elevation (ft)	Depth To Water (ft)	2nd Quarter Elevation (ft)	Depth To Water (ft)	3rd Quarter Elevation (ft)	Depth To Water (ft)	4th Quarter Elevation (ft)
EW-1	624.07	18.40	605.67	21.12	602.95	22.40	601.67	15.99	608.08
EW-2	622.16	13.82	608.34	14.94	607.22	15.90	606.26	13.05	609.11
EW-3	621.10	13.95	607.15	15.09	606.01	16.70	604.40	13.44	607.66

East of Cap (North to South)

Well ID	Monitoring Point (TIC)	Depth To Water (ft)	1st Quarter Elevation (ft)	Depth To Water (ft)	2nd Quarter Elevation (ft)	Depth To Water (ft)	3rd Quarter Elevation (ft)	Depth To Water (ft)	4th Quarter Elevation (ft)
MW-6S	638.54	7.53	631.01	10.36	628.18	11.95	626.59	7.89	630.65
MW-6R	638.64	17.13	621.51	17.82	620.82	19.11	619.53	17.01	621.63
P-1S	642.80	4.94	637.86	6.21	636.59	8.73	634.07	4.68	638.12
MW-1R	645.36	6.90	638.46	8.12	637.24	10.64	634.72	6.61	638.75
MW-1S	645.40	5.15	640.25	6.86	638.54	10.00	635.40	4.52	640.88
MW-7S	642.85	3.53	639.32	7.30	635.55	10.42	632.43	3.65	639.20
MW-7R	642.28	4.36	637.92	6.22	636.06	8.23	634.05	4.02	638.26

Center of Cap (North to South)

Well ID	Monitoring Point (TIC)	Depth To Water (ft)	1st Quarter Elevation (ft)	Depth To Water (ft)	2nd Quarter Elevation (ft)	Depth To Water (ft)	3rd Quarter Elevation (ft)	Depth To Water (ft)	4th Quarter Elevation (ft)
P-5S	637.54	9.34	628.20	12.56	624.98	>13.60	DRY	8.52	629.02
P-5R	637.88	18.99	618.89	19.61	618.27	>20.22	DRY	19.01	618.87
MW-5S	636.28	11.32	624.96	12.30	623.98	13.82	622.46	11.14	625.14
P-2R	646.96	9.86	637.10	11.64	635.32	13.00	633.96	10.75	636.21
P-2S	646.44	8.46	637.98	9.46	636.98	11.83	634.61	8.04	638.40
MW-2S	644.85	6.15	638.70	7.35	637.50	10.00	634.85	5.81	639.04

West of Cap (North to South)

Well ID	Monitoring Point (TIC)	Depth To Water (ft)	1st Quarter Elevation (ft)	Depth To Water (ft)	2nd Quarter Elevation (ft)	Depth To Water (ft)	3rd Quarter Elevation (ft)	Depth To Water (ft)	4th Quarter Elevation (ft)
MW-4S	637.18	14.14	623.04	15.10	622.08	>15.40	DRY	13.75	623.43
MW-4R	637.02	26.33	610.69	28.34	608.68	30.55	606.47	24.46	612.56
P-4S	636.54	15.65	620.89	15.96	620.58	15.95	620.59	14.63	621.91
MW-3S	637.64	17.31	620.33	17.91	619.73	18.45	619.19	16.79	620.85
P-3R	639.92	20.78	619.14	20.51	619.41	20.45	619.47	20.20	619.72
P-3S	639.46	19.20	620.26	19.41	620.05	19.89	619.57	18.80	620.66
OW-3R	638.78	23.68	615.10	24.47	614.31	24.65	614.13	23.78	615.00

West of Trench (North to South)

Well ID	Monitoring Point (TIC)	Depth To Water (ft)	1st Quarter Elevation (ft)	Depth To Water (ft)	2nd Quarter Elevation (ft)	Depth To Water (ft)	3rd Quarter Elevation (ft)	Depth To Water (ft)	4th Quarter Elevation (ft)
OW-1FR	620.42	9.44	610.98	11.47	608.95	13.74	606.68	7.61	612.81
P97-5	613.65	3.14	610.51	5.02	608.63	7.16	606.49	1.50	612.15
MW-10S	615.15	3.83	611.32	5.72	609.43	>5.7	DRY	2.45	612.70
MW-10R	615.47	4.59	610.88	6.52	608.95	8.59	606.88	2.95	612.52
P97-4	614.8	4.05	610.75	6.05	608.75	8.25	606.55	2.20	612.60
MW-8S	617.28	5.99	611.29	7.15	610.13	>7.29	DRY	5.58	611.70
MW-8R	617.38	6.51	610.87	8.56	608.82	10.60	606.78	4.80	612.58
P97-3	617.66	6.64	611.02	8.79	608.87	11.05	606.61	4.54	613.12
MW-9RD	619.13	7.20	611.93	6.86	612.27	6.42	612.71	7.71	611.42
MW-9R	619.17	8.00	611.17	10.29	608.88	12.60	606.57	5.60	613.57
MW-9S	619.91	7.91	612.00	>10.59	DRY	>10.42	DRY	5.05	614.86
OW-2FR	624.14	12.95	611.19	15.21	608.93	17.54	606.60	10.55	613.59
P97-2	619.07	6.98	612.09	8.79	610.28	10.03	609.04	4.85	614.22
P97-1	619.97	7.00	612.97	8.43	611.54	9.20	610.77	5.60	614.37
MW-12R	621.59	9.17	612.42	10.52	611.07	11.24	610.35	8.00	613.59
MW-12S	621.17	3.70	617.47	7.90	613.27	>9.42	DRY	2.85	618.32

West of Smokes Creek (North to South)

Well ID	Monitoring Point (TIC)	Depth To Water (ft)	1st Quarter Elevation (ft)	Depth To Water (ft)	2nd Quarter Elevation (ft)	Depth To Water (ft)	3rd Quarter Elevation (ft)	Depth To Water (ft)	4th Quarter Elevation (ft)
MW-13R	615.14	4.80	610.34	6.83	608.31	8.72	606.42	3.08	612.06
MW-14R	618.55	5.42	613.13	5.92	612.63	6.20	612.35	5.65	612.90

TABLE 2

Detection Summary

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

TestAmerica Job ID: 480-68237-1

Client Sample ID: DUP — Lab Sample ID: 480-68237-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	24		5.0		ug/L	42		8260C	Total/NA
Chloroethane	20		8.4		ug/L	42		8260C	Total/NA
o-Chlorotoluene	2000		5.0		ug/L	42		8260C	Total/NA

Client Sample ID: MW-13R — Lab Sample ID: 480-68237-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	25		5.0		ug/L	42		8260C	Total/NA
Chloroethane	25		8.4		ug/L	42		8260C	Total/NA
o-Chlorotoluene	2100		5.0		ug/L	42		8260C	Total/NA

Client Sample ID: MW-15R — Lab Sample ID: 480-68237-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	23		5.0		ug/L	1		8260C	Total/NA
Methylcyclohexane	16		5.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-3S — Lab Sample ID: 480-68237-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Chlorotoluene	69000		210		ug/L	2100		8260C	Total/NA

Client Sample ID: MW-7R — Lab Sample ID: 480-68237-5

No Detections.

Client Sample ID: MW-8R — Lab Sample ID: 480-68237-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Chlorotoluene	61		5.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-9R — Lab Sample ID: 480-68237-7

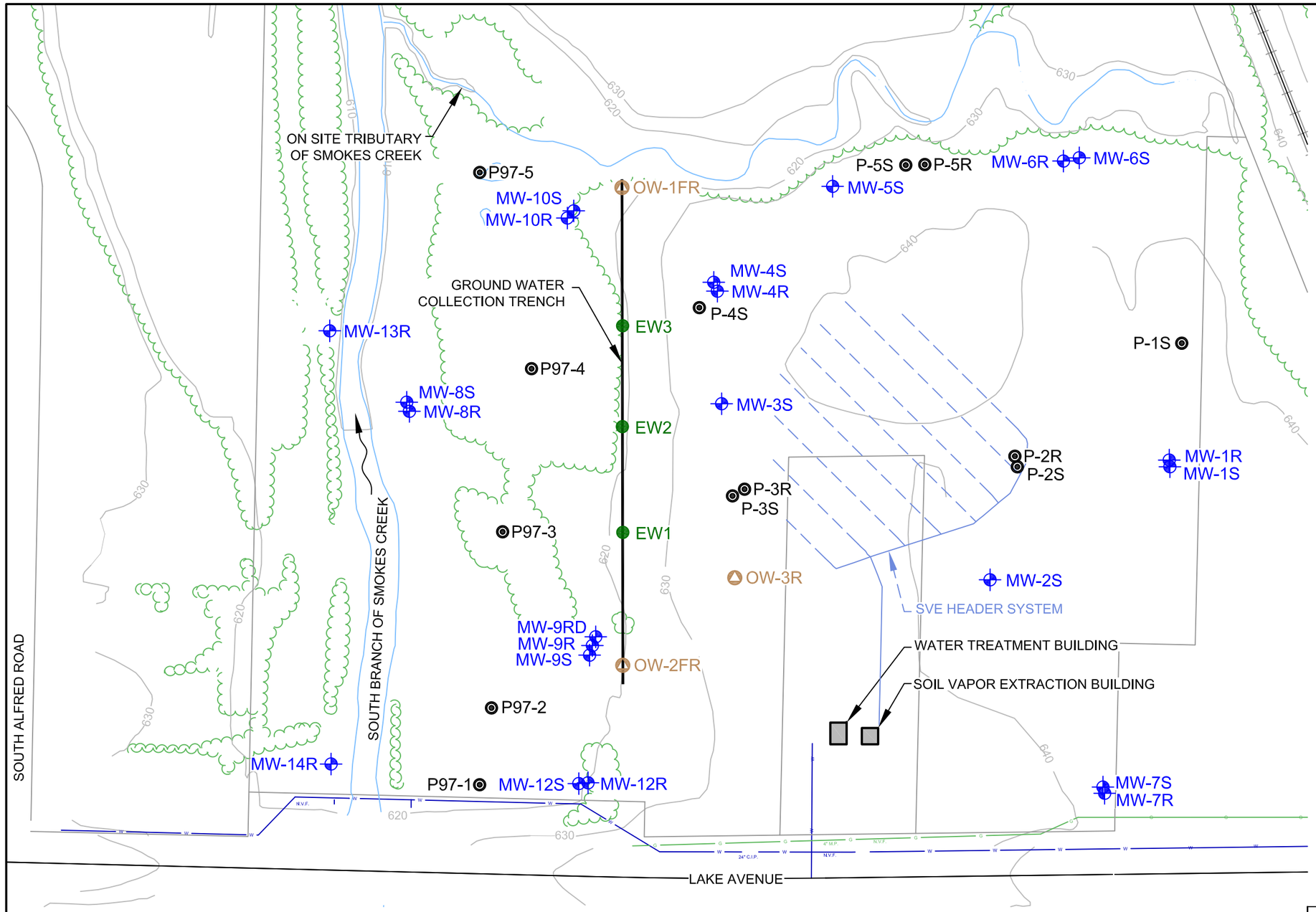
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	540		5.0		ug/L	21		8260C	Total/NA
1,1-Dichloroethane	300		5.0		ug/L	21		8260C	Total/NA
Chloroethane	19		5.0		ug/L	21		8260C	Total/NA
o-Chlorotoluene	860		5.0		ug/L	21		8260C	Total/NA
Trichloroethene	7.1		5.0		ug/L	21		8260C	Total/NA

Client Sample ID: TB — Lab Sample ID: 480-68237-8

No Detections.

This Detection Summary does not include radiochemical test results.

FIGURES



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LEGEND:

- MONITORING WELL LOCATION
- PIEZOMETER LOCATION
- OBSERVATION WELL LOCATION
- EXTRACTION WELL LOCATION
- EXISTING GROUND CONTOUR
- PROPERTY LINE
- EDGE OF WATER

NOTE:

1. BASEMAP AND DATA SHOWN PROVIDED BY *MCMAHON & MANN CONSULTING ENGINEERS, P.C.*, MARCH 2011.

0 50 100 200

SCALE IN FEET

SOURCE: BASEMAP AND DATA SHOWN PROVIDED BY McMahon & Mann Consulting Engineers, P.C., MARCH 2011.

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FIGURE 1
SITE PLAN

CHEM-TROL
ERIE COUNTY, NEW YORK

FEBRUARY 2013 60164822

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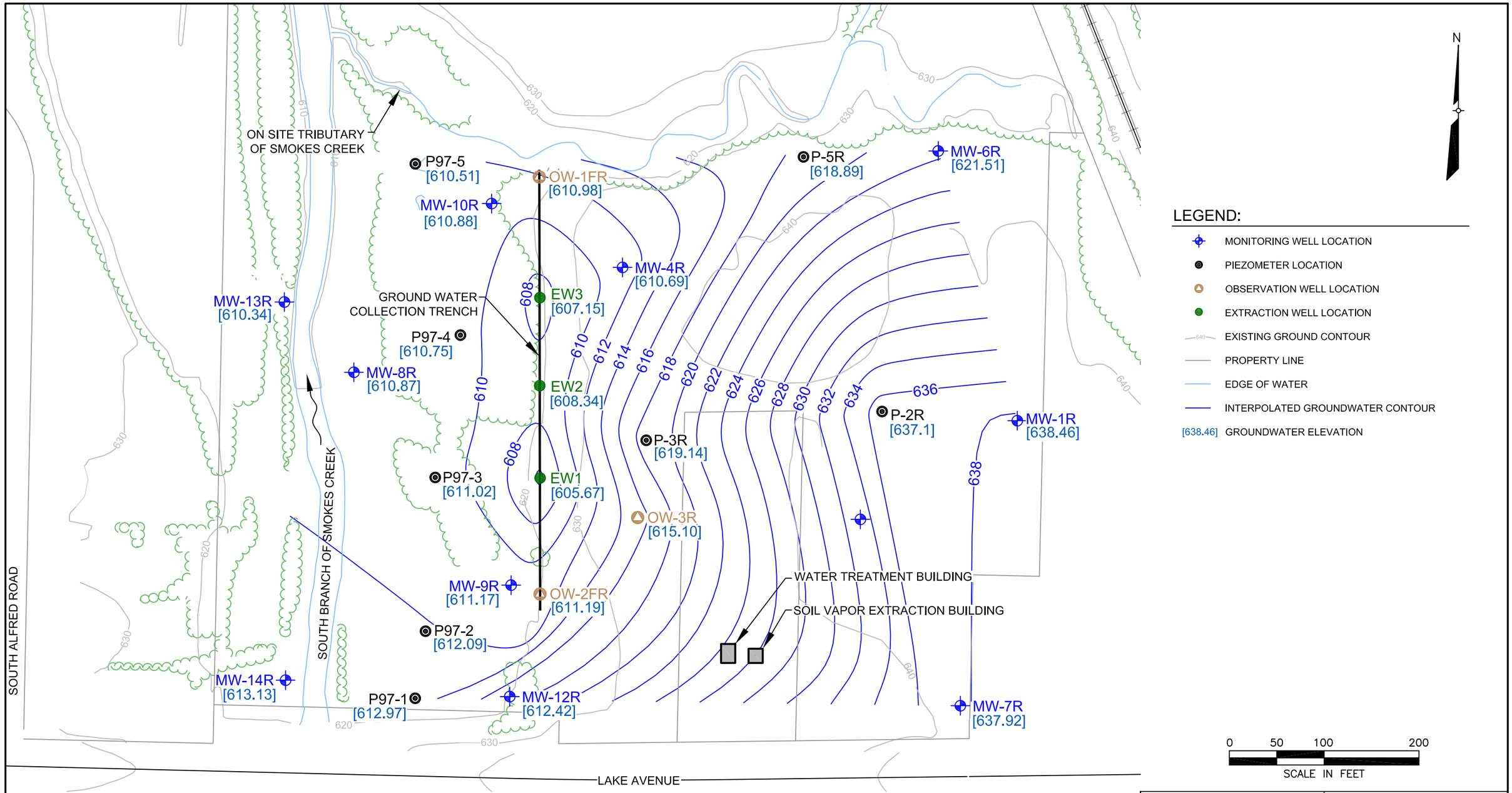

SOURCE: BASEMAP SHOWN PROVIDED BY McMahon & Mann Consulting Engineers, P.C., JANUARY 21, 2013.

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FIGURE 2
BEDROCK GROUNDWATER CONTOURS
MARCH 14, 2014

CHEM-TROL
ERIE COUNTY, NEW YORK

MARCH 2014 60164822

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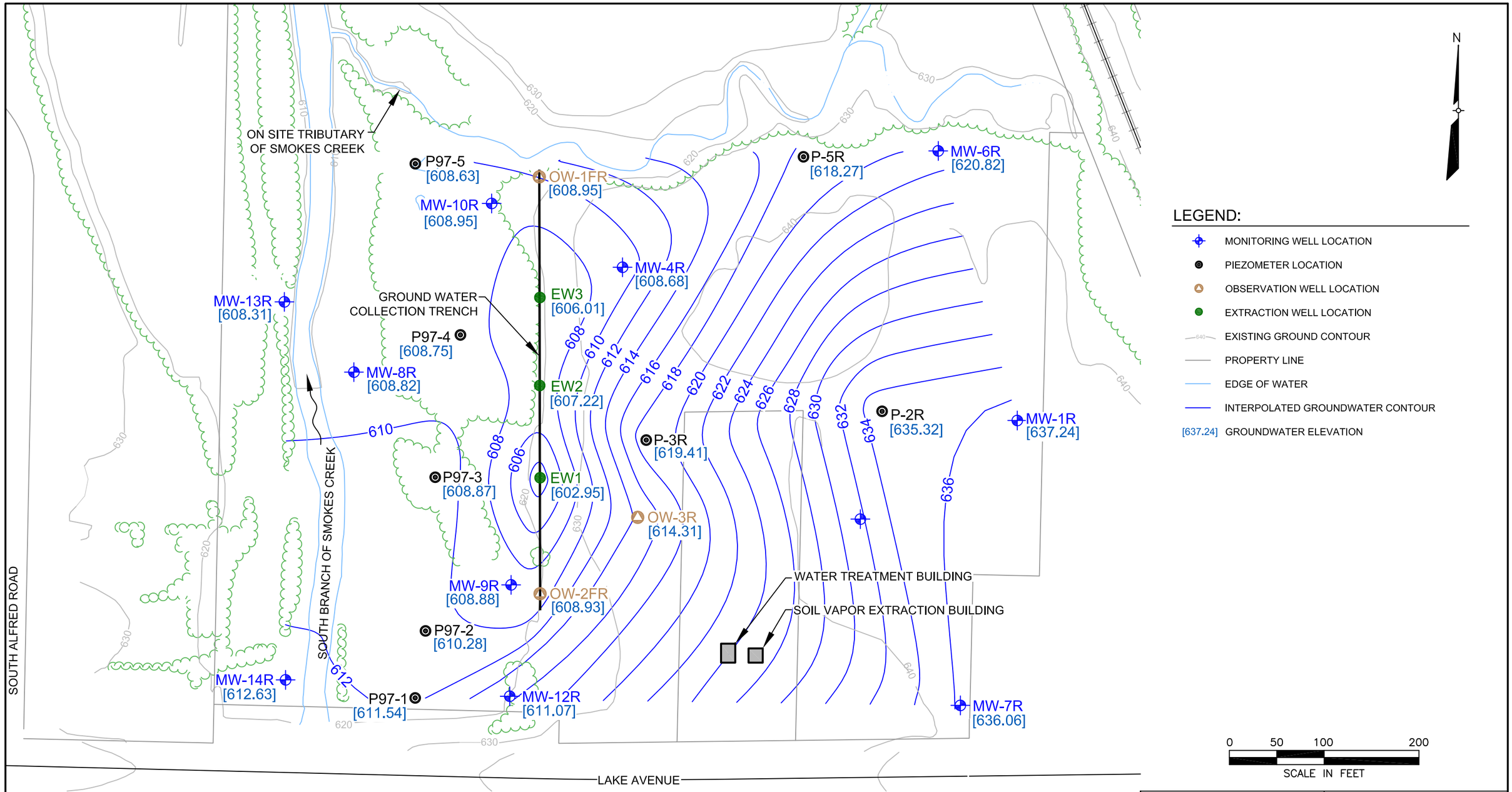

SOURCE: BASEMAP SHOWN PROVIDED BY McMahon & Mann Consulting Engineers, P.C., JANUARY 21, 2013.

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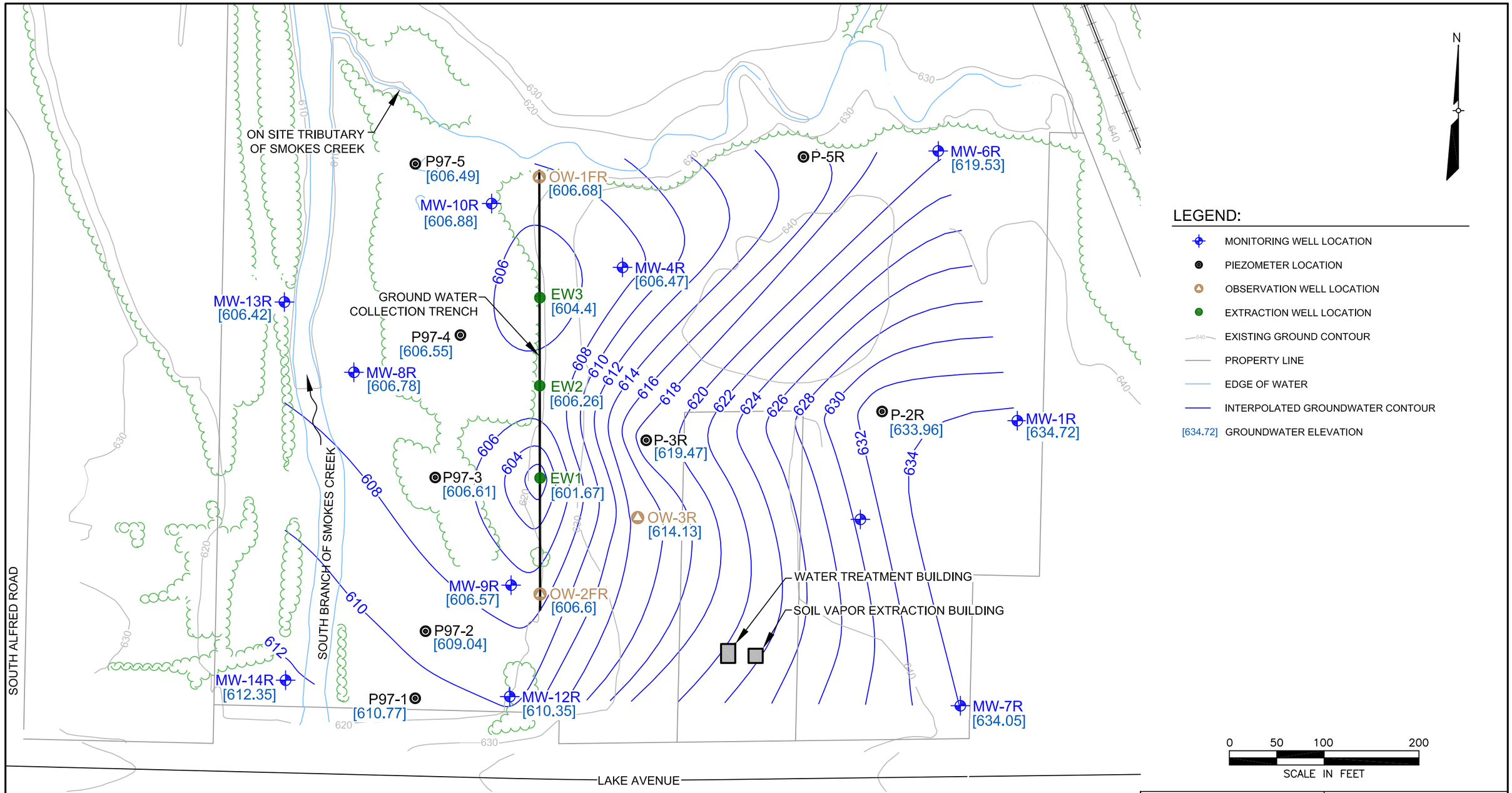
FIGURE 3
BEDROCK GROUNDWATER CONTOURS
AUGUST 13, 2014

CHEM-TROL
ERIE COUNTY, NEW YORK

SEPTEMBER 2014 60164822



SOURCE: BASEMAP SHOWN PROVIDED BY McMahon & Mann Consulting Engineers, P.C., JANUARY 21, 2013.

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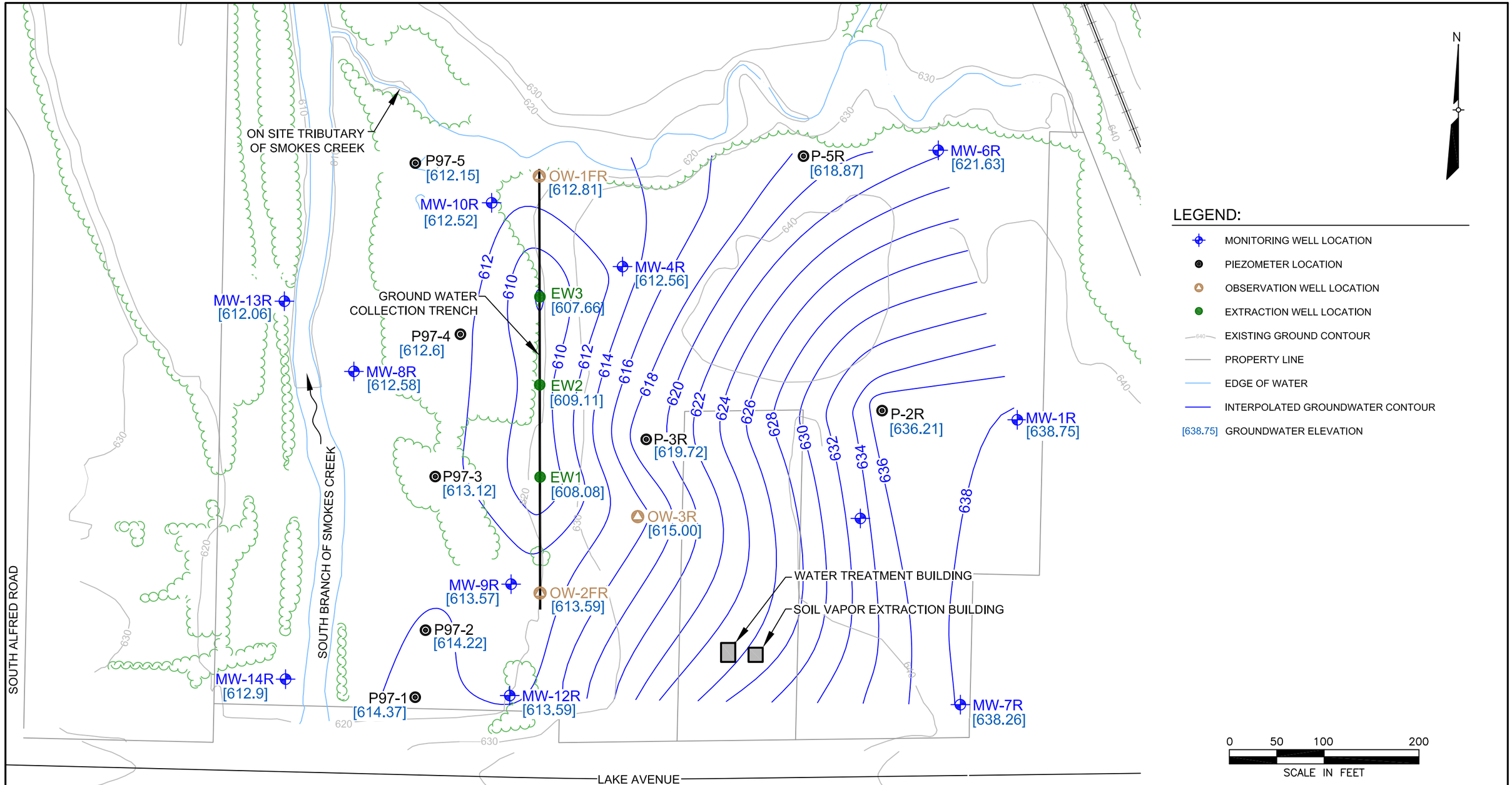
FIGURE 4
BEDROCK GROUNDWATER CONTOURS SEPTEMBER 30, 2014

CHEM-TROL
ERIE COUNTY, NEW YORK

MARCH 2015 60164822



SOURCE: BASEMAP SHOWN PROVIDED BY McMahon & Mann Consulting Engineers, P.C., JANUARY 21, 2013.

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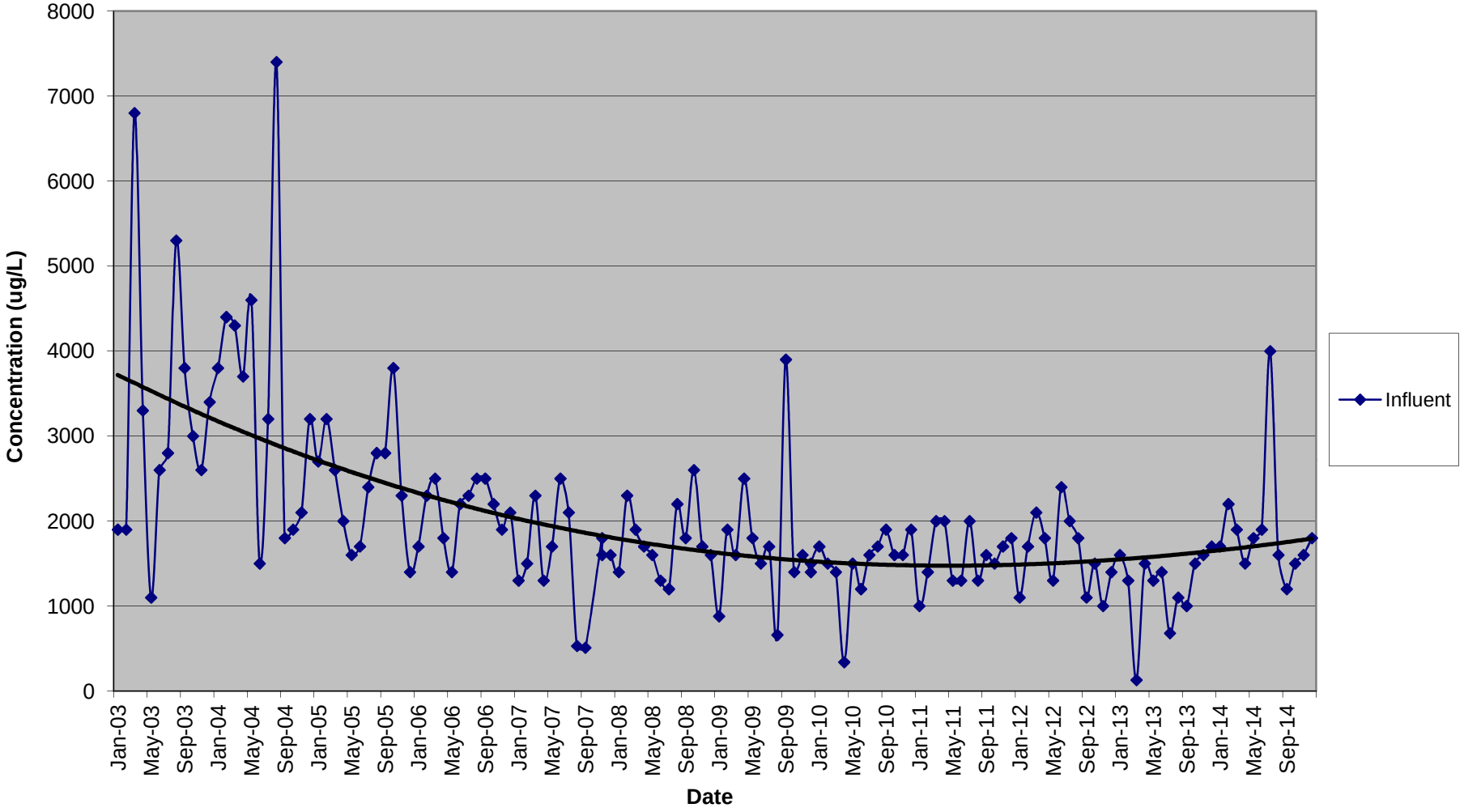
FIGURE 5
BEDROCK GROUNDWATER CONTOURS
DECEMBER 17, 2014

CHEM-TROL
ERIE COUNTY, NEW YORK

MARCH 2015 60164822

FIGURE 6

Chem-Trol Groundwater Treatment System
Influent o-Chlorotoluene Concentration
2003-2014



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

Site Details **Box 1**

Site No. 915015

Site Name Chem-Trol

Site Address: Lake Avenue Zip Code: 14107
City/Town: Hamburg
County: Erie
Site Acreage: 17.5

Reporting Period: February 15, 2014 to February 15, 2015

	YES	NO
1. Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☒

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Closed Landfill	☒	☐
7. Are all ICs/ECs in place and functioning 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 issues.

_____ _____
Signature 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	Waste Management	Ground Water Use Restriction Monitoring Plan O&M Plan Landuse 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

Parcel	Engineering Control
151.02-1-14.1	Groundwater Treatment System Cover System Groundwater Containment 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:

- “Hot Spot” Soils Removal;
- Tributary Sediment Excavation/Disposal;
- Site Soils Cover; and
- Soil Vapor Extraction (passive state with one year evaluation starting January 2010; passive state permanently approved on May 29, 2011).

Groundwater Control Elements:

- Groundwater Extraction, On-Site Treatment, and Discharge Compliance Monitoring; and
- Groundwater Quality Monitoring.

Discharge compliance monitoring, groundwater elevations and groundwater quality monitoring are completed to confirm that the remedy remains protective of public health and the environment.

Box 5

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 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. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

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

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

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

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

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

YES	NO
☒	☐

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

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

_____ _____

Signature of Owner, Remedial Party or Designated Representative Date

IC CERTIFICATIONS
SITE NO. 915015

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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

I David Moreira (print name) at 4 Liberty Lane West, Hampton, NH 03842 (print business address)

am certifying as Owner (Owner or Remedial Party)

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

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

Date 3/26/15

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

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

I Daniel Servetas (print name) at 40 British American Blvd, Latham, NY 12110 (print business address)

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

March 26, 2015

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification	Stamp (Required for PE)	Date

ATTACHMENT B

2014 Annual Groundwater Sample Laboratory Report

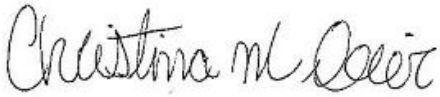
ANALYTICAL REPORT

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

TestAmerica Job ID: 480-68237-1
Client Project/Site: ChemTrol Site - Annual Groundwater
Sampling Event: ChemTrol Annual Groundwater

For:
Waste Management
4 Liberty Lane West
Hampton, New Hampshire 03842

Attn: Dave Moreira



Authorized for release by:
10/20/2014 2:20:25 PM
Christina Dosier, Project Mgmt. Assistant
christina.dosier@testamericainc.com

Designee for

Ryan VanDette, Project Manager II
(716)504-9830
ryan.vandette@testamericainc.com

Table of Contents

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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)

Job ID: 480-68237-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-68237-1

Comments
No additional comments.

Receipt
The samples were received on 9/29/2014 3:12 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 2.6° C.

GC/MS VOA
Method(s) 8260C: The following sample(s) was diluted due to the amount of sulfur observed in the sample: MW-7R (480-68237-5).
Elevated reporting limits (RLs) are provided.

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

Detection Summary

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

TestAmerica Job ID: 480-68237-1

Client Sample ID: DUP — Lab Sample ID: 480-68237-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	24		5.0		ug/L	42		8260C	Total/NA
Chloroethane	20		8.4		ug/L	42		8260C	Total/NA
o-Chlorotoluene	2000		5.0		ug/L	42		8260C	Total/NA

Client Sample ID: MW-13R — Lab Sample ID: 480-68237-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	25		5.0		ug/L	42		8260C	Total/NA
Chloroethane	25		8.4		ug/L	42		8260C	Total/NA
o-Chlorotoluene	2100		5.0		ug/L	42		8260C	Total/NA

Client Sample ID: MW-15R — Lab Sample ID: 480-68237-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	23		5.0		ug/L	1		8260C	Total/NA
Methylcyclohexane	16		5.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-3S — Lab Sample ID: 480-68237-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Chlorotoluene	69000		210		ug/L	2100		8260C	Total/NA

Client Sample ID: MW-7R — Lab Sample ID: 480-68237-5

No Detections.

Client Sample ID: MW-8R — Lab Sample ID: 480-68237-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Chlorotoluene	61		5.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-9R — Lab Sample ID: 480-68237-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	540		5.0		ug/L	21		8260C	Total/NA
1,1-Dichloroethane	300		5.0		ug/L	21		8260C	Total/NA
Chloroethane	19		5.0		ug/L	21		8260C	Total/NA
o-Chlorotoluene	860		5.0		ug/L	21		8260C	Total/NA
Trichloroethene	7.1		5.0		ug/L	21		8260C	Total/NA

Client Sample ID: TB — Lab Sample ID: 480-68237-8

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP
Date Collected: 09/29/14 12:52
Date Received: 09/29/14 15:12

Lab Sample ID: 480-68237-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			10/08/14 12:01	42
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			10/08/14 12:01	42
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/L			10/08/14 12:01	42
1,1,2-Trichloroethane	ND		5.0		ug/L			10/08/14 12:01	42
1,1-Dichloroethane	**24**		5.0		ug/L			10/08/14 12:01	42
1,2,4-Trichlorobenzene	ND		5.0		ug/L			10/08/14 12:01	42
1,2-Dibromo-3-Chloropropane	ND		8.0		ug/L			10/08/14 12:01	42
1,2-Dibromoethane	ND		5.9		ug/L			10/08/14 12:01	42
1,2-Dichlorobenzene	ND		5.5		ug/L			10/08/14 12:01	42
1,2-Dichloroethane	ND		6.7		ug/L			10/08/14 12:01	42
1,2-Dichloropropane	ND		5.0		ug/L			10/08/14 12:01	42
1,3-Dichlorobenzene	ND		5.0		ug/L			10/08/14 12:01	42
1,4-Dichlorobenzene	ND		6.7		ug/L			10/08/14 12:01	42
2-Butanone (MEK)	ND		34		ug/L			10/08/14 12:01	42
2-Hexanone	ND		30		ug/L			10/08/14 12:01	42
4-Methyl-2-pentanone (MIBK)	ND		27		ug/L			10/08/14 12:01	42
Acetone	ND		29		ug/L			10/08/14 12:01	42
Benzene	ND		5.0		ug/L			10/08/14 12:01	42
Bromodichloromethane	ND		5.0		ug/L			10/08/14 12:01	42
Bromoform	ND		5.0		ug/L			10/08/14 12:01	42
Bromomethane	ND		9.2		ug/L			10/08/14 12:01	42
Carbon disulfide	ND		6.7		ug/L			10/08/14 12:01	42
Carbon tetrachloride	ND		5.0		ug/L			10/08/14 12:01	42
Chlorobenzene	ND		5.0		ug/L			10/08/14 12:01	42
Chlorodibromomethane	ND		5.0		ug/L			10/08/14 12:01	42
Chloroethane	**20**		8.4		ug/L			10/08/14 12:01	42
Chloroform	ND		5.0		ug/L			10/08/14 12:01	42
Chloromethane	ND		8.0		ug/L			10/08/14 12:01	42
cis-1,2-Dichloroethene	ND		5.9		ug/L			10/08/14 12:01	42
cis-1,3-Dichloropropene	ND		5.9		ug/L			10/08/14 12:01	42
Cyclohexane	ND		5.0		ug/L			10/08/14 12:01	42
Dichlorofluoromethane	ND		42		ug/L			10/08/14 12:01	42
Ethylbenzene	ND		5.0		ug/L			10/08/14 12:01	42
Isopropylbenzene	ND		5.0		ug/L			10/08/14 12:01	42
Methyl acetate	ND		8.8		ug/L			10/08/14 12:01	42
Methyl tert-butyl ether	ND		5.0		ug/L			10/08/14 12:01	42
Methylcyclohexane	ND		5.0		ug/L			10/08/14 12:01	42
Methylene Chloride	ND		6.3		ug/L			10/08/14 12:01	42
o-Chlorotoluene	**2000**		5.0		ug/L			10/08/14 12:01	42
Styrene	ND		5.0		ug/L			10/08/14 12:01	42
Tetrachloroethene	ND		5.0		ug/L			10/08/14 12:01	42
Toluene	ND		5.0		ug/L			10/08/14 12:01	42
trans-1,2-Dichloroethene	ND		5.9		ug/L			10/08/14 12:01	42
trans-1,3-Dichloropropene	ND		8.0		ug/L			10/08/14 12:01	42
Trichloroethene	ND		5.5		ug/L			10/08/14 12:01	42
Trichlorofluoromethane	ND		8.4		ug/L			10/08/14 12:01	42
Vinyl chloride	ND		9.7		ug/L			10/08/14 12:01	42
Xylenes, Total	ND		15		ug/L			10/08/14 12:01	42

Client Sample ID: DUP

Lab Sample ID: 480-68237-1

Date Collected: 09/29/14 12:52

Matrix: Water

Date Received: 09/29/14 15:12

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*101*		*50 - 150*		*10/08/14 12:01*	*42*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/08/14 12:01*	*42*

Client Sample ID: MW-13R

Lab Sample ID: 480-68237-2

Date Collected: 09/29/14 12:52

Matrix: Water

Date Received: 09/29/14 15:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			10/08/14 12:34	42
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			10/08/14 12:34	42
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/L			10/08/14 12:34	42
1,1,2-Trichloroethane	ND		5.0		ug/L			10/08/14 12:34	42
1,1-Dichloroethane	**25**		5.0		ug/L			10/08/14 12:34	42
1,2,4-Trichlorobenzene	ND		5.0		ug/L			10/08/14 12:34	42
1,2-Dibromo-3-Chloropropane	ND		8.0		ug/L			10/08/14 12:34	42
1,2-Dibromoethane	ND		5.9		ug/L			10/08/14 12:34	42
1,2-Dichlorobenzene	ND		5.5		ug/L			10/08/14 12:34	42
1,2-Dichloroethane	ND		6.7		ug/L			10/08/14 12:34	42
1,2-Dichloropropane	ND		5.0		ug/L			10/08/14 12:34	42
1,3-Dichlorobenzene	ND		5.0		ug/L			10/08/14 12:34	42
1,4-Dichlorobenzene	ND		6.7		ug/L			10/08/14 12:34	42
2-Butanone (MEK)	ND		34		ug/L			10/08/14 12:34	42
2-Hexanone	ND		30		ug/L			10/08/14 12:34	42
4-Methyl-2-pentanone (MIBK)	ND		27		ug/L			10/08/14 12:34	42
Acetone	ND		29		ug/L			10/08/14 12:34	42
Benzene	ND		5.0		ug/L			10/08/14 12:34	42
Bromodichloromethane	ND		5.0		ug/L			10/08/14 12:34	42
Bromoform	ND		5.0		ug/L			10/08/14 12:34	42
Bromomethane	ND		9.2		ug/L			10/08/14 12:34	42
Carbon disulfide	ND		6.7		ug/L			10/08/14 12:34	42
Carbon tetrachloride	ND		5.0		ug/L			10/08/14 12:34	42
Chlorobenzene	ND		5.0		ug/L			10/08/14 12:34	42
Chlorodibromomethane	ND		5.0		ug/L			10/08/14 12:34	42
Chloroethane	**25**		8.4		ug/L			10/08/14 12:34	42
Chloroform	ND		5.0		ug/L			10/08/14 12:34	42
Chloromethane	ND		8.0		ug/L			10/08/14 12:34	42
cis-1,2-Dichloroethene	ND		5.9		ug/L			10/08/14 12:34	42
cis-1,3-Dichloropropene	ND		5.9		ug/L			10/08/14 12:34	42
Cyclohexane	ND		5.0		ug/L			10/08/14 12:34	42
Dichlorofluoromethane	ND		42		ug/L			10/08/14 12:34	42
Ethylbenzene	ND		5.0		ug/L			10/08/14 12:34	42
Isopropylbenzene	ND		5.0		ug/L			10/08/14 12:34	42
Methyl acetate	ND		8.8		ug/L			10/08/14 12:34	42
Methyl tert-butyl ether	ND		5.0		ug/L			10/08/14 12:34	42
Methylcyclohexane	ND		5.0		ug/L			10/08/14 12:34	42
Methylene Chloride	ND		6.3		ug/L			10/08/14 12:34	42
o-Chlorotoluene	**2100**		5.0		ug/L			10/08/14 12:34	42
Styrene	ND		5.0		ug/L			10/08/14 12:34	42
Tetrachloroethene	ND		5.0		ug/L			10/08/14 12:34	42

Client Sample ID: MW-13R

Date Collected: 09/29/14 12:52
Date Received: 09/29/14 15:12

Lab Sample ID: 480-68237-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		5.0		ug/L			10/08/14 12:34	42
trans-1,2-Dichloroethene	ND		5.9		ug/L			10/08/14 12:34	42
trans-1,3-Dichloropropene	ND		8.0		ug/L			10/08/14 12:34	42
Trichloroethene	ND		5.5		ug/L			10/08/14 12:34	42
Trichlorofluoromethane	ND		8.4		ug/L			10/08/14 12:34	42
Vinyl chloride	ND		9.7		ug/L			10/08/14 12:34	42
Xylenes, Total	ND		15		ug/L			10/08/14 12:34	42

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*50 - 150*		*10/08/14 12:34*	*42*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/08/14 12:34*	*42*

Client Sample ID: MW-15R

Date Collected: 09/29/14 12:59
Date Received: 09/29/14 15:12

Lab Sample ID: 480-68237-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			10/08/14 13:07	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			10/08/14 13:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/L			10/08/14 13:07	1
1,1,2-Trichloroethane	ND		5.0		ug/L			10/08/14 13:07	1
1,1-Dichloroethane	ND		5.0		ug/L			10/08/14 13:07	1
1,2,4-Trichlorobenzene	ND		5.0		ug/L			10/08/14 13:07	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/08/14 13:07	1
1,2-Dibromoethane	ND		5.0		ug/L			10/08/14 13:07	1
1,2-Dichlorobenzene	ND		5.0		ug/L			10/08/14 13:07	1
1,2-Dichloroethane	ND		5.0		ug/L			10/08/14 13:07	1
1,2-Dichloropropane	ND		5.0		ug/L			10/08/14 13:07	1
1,3-Dichlorobenzene	ND		5.0		ug/L			10/08/14 13:07	1
1,4-Dichlorobenzene	ND		5.0		ug/L			10/08/14 13:07	1
2-Butanone (MEK)	ND		25		ug/L			10/08/14 13:07	1
2-Hexanone	ND		25		ug/L			10/08/14 13:07	1
4-Methyl-2-pentanone (MIBK)	ND		25		ug/L			10/08/14 13:07	1
Acetone	ND		25		ug/L			10/08/14 13:07	1
Benzene	ND		5.0		ug/L			10/08/14 13:07	1
Bromodichloromethane	ND		5.0		ug/L			10/08/14 13:07	1
Bromoform	ND		5.0		ug/L			10/08/14 13:07	1
Bromomethane	ND		5.0		ug/L			10/08/14 13:07	1
Carbon disulfide	ND		5.0		ug/L			10/08/14 13:07	1
Carbon tetrachloride	ND		5.0		ug/L			10/08/14 13:07	1
Chlorobenzene	ND		5.0		ug/L			10/08/14 13:07	1
Chlorodibromomethane	ND		5.0		ug/L			10/08/14 13:07	1
Chloroethane	ND		5.0		ug/L			10/08/14 13:07	1
Chloroform	ND		5.0		ug/L			10/08/14 13:07	1
Chloromethane	ND		5.0		ug/L			10/08/14 13:07	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			10/08/14 13:07	1
cis-1,3-Dichloropropene	ND		5.0		ug/L			10/08/14 13:07	1
Cyclohexane	**23**		5.0		ug/L			10/08/14 13:07	1
Dichlorofluoromethane	ND		5.0		ug/L			10/08/14 13:07	1

Client Sample ID: MW-15R

Date Collected: 09/29/14 12:59
Date Received: 09/29/14 15:12

Lab Sample ID: 480-68237-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0		ug/L			10/08/14 13:07	1
Isopropylbenzene	ND		5.0		ug/L			10/08/14 13:07	1
Methyl acetate	ND		5.0		ug/L			10/08/14 13:07	1
Methyl tert-butyl ether	ND		5.0		ug/L			10/08/14 13:07	1
Methylcyclohexane	**16**		5.0		ug/L			10/08/14 13:07	1
Methylene Chloride	ND		5.0		ug/L			10/08/14 13:07	1
o-Chlorotoluene	ND		5.0		ug/L			10/08/14 13:07	1
Styrene	ND		5.0		ug/L			10/08/14 13:07	1
Tetrachloroethene	ND		5.0		ug/L			10/08/14 13:07	1
Toluene	ND		5.0		ug/L			10/08/14 13:07	1
trans-1,2-Dichloroethene	ND		5.0		ug/L			10/08/14 13:07	1
trans-1,3-Dichloropropene	ND		5.0		ug/L			10/08/14 13:07	1
Trichloroethene	ND		5.0		ug/L			10/08/14 13:07	1
Trichlorofluoromethane	ND		5.0		ug/L			10/08/14 13:07	1
Vinyl chloride	ND		5.0		ug/L			10/08/14 13:07	1
Xylenes, Total	ND		15		ug/L			10/08/14 13:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*50 - 150*		*10/08/14 13:07*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/08/14 13:07*	*1*

Client Sample ID: MW-3S

Date Collected: 09/29/14 13:22
Date Received: 09/29/14 15:12

Lab Sample ID: 480-68237-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		150		ug/L			10/08/14 13:39	2100
1,1,2,2-Tetrachloroethane	ND		210		ug/L			10/08/14 13:39	2100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		230		ug/L			10/08/14 13:39	2100
1,1,2-Trichloroethane	ND		250		ug/L			10/08/14 13:39	2100
1,1-Dichloroethane	ND		210		ug/L			10/08/14 13:39	2100
1,2,4-Trichlorobenzene	ND		210		ug/L			10/08/14 13:39	2100
1,2-Dibromo-3-Chloropropane	ND		400		ug/L			10/08/14 13:39	2100
1,2-Dibromoethane	ND		290		ug/L			10/08/14 13:39	2100
1,2-Dichlorobenzene	ND		270		ug/L			10/08/14 13:39	2100
1,2-Dichloroethane	ND		340		ug/L			10/08/14 13:39	2100
1,2-Dichloropropane	ND		250		ug/L			10/08/14 13:39	2100
1,3-Dichlorobenzene	ND		230		ug/L			10/08/14 13:39	2100
1,4-Dichlorobenzene	ND		340		ug/L			10/08/14 13:39	2100
2-Butanone (MEK)	ND		1700		ug/L			10/08/14 13:39	2100
2-Hexanone	ND		1500		ug/L			10/08/14 13:39	2100
4-Methyl-2-pentanone (MIBK)	ND		1400		ug/L			10/08/14 13:39	2100
Acetone	ND		1400		ug/L			10/08/14 13:39	2100
Benzene	ND		170		ug/L			10/08/14 13:39	2100
Bromodichloromethane	ND		190		ug/L			10/08/14 13:39	2100
Bromoform	ND		130		ug/L			10/08/14 13:39	2100
Bromomethane	ND		460		ug/L			10/08/14 13:39	2100
Carbon disulfide	ND		340		ug/L			10/08/14 13:39	2100
Carbon tetrachloride	ND		170		ug/L			10/08/14 13:39	2100

Client Sample ID: MW-3S

Lab Sample ID: 480-68237-4

Date Collected: 09/29/14 13:22

Matrix: Water

Date Received: 09/29/14 15:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		190		ug/L			10/08/14 13:39	2100
Chlorodibromomethane	ND		210		ug/L			10/08/14 13:39	2100
Chloroethane	ND		420		ug/L			10/08/14 13:39	2100
Chloroform	ND		230		ug/L			10/08/14 13:39	2100
Chloromethane	ND		400		ug/L			10/08/14 13:39	2100
cis-1,2-Dichloroethene	ND		290		ug/L			10/08/14 13:39	2100
cis-1,3-Dichloropropene	ND		290		ug/L			10/08/14 13:39	2100
Cyclohexane	ND		210		ug/L			10/08/14 13:39	2100
Dichlorofluoromethane	ND		2100		ug/L			10/08/14 13:39	2100
Ethylbenzene	ND		190		ug/L			10/08/14 13:39	2100
Isopropylbenzene	ND		150		ug/L			10/08/14 13:39	2100
Methyl acetate	ND		440		ug/L			10/08/14 13:39	2100
Methyl tert-butyl ether	ND		190		ug/L			10/08/14 13:39	2100
Methylcyclohexane	ND		150		ug/L			10/08/14 13:39	2100
Methylene Chloride	ND		320		ug/L			10/08/14 13:39	2100
o-Chlorotoluene	**69000**		210		ug/L			10/08/14 13:39	2100
Styrene	ND		210		ug/L			10/08/14 13:39	2100
Tetrachloroethene	ND		230		ug/L			10/08/14 13:39	2100
Toluene	ND		190		ug/L			10/08/14 13:39	2100
trans-1,2-Dichloroethene	ND		290		ug/L			10/08/14 13:39	2100
trans-1,3-Dichloropropene	ND		400		ug/L			10/08/14 13:39	2100
Trichloroethene	ND		270		ug/L			10/08/14 13:39	2100
Trichlorofluoromethane	ND		420		ug/L			10/08/14 13:39	2100
Vinyl chloride	ND		480		ug/L			10/08/14 13:39	2100
Xylenes, Total	ND		550		ug/L			10/08/14 13:39	2100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*50 - 150*		*10/08/14 13:39*	*2100*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/08/14 13:39*	*2100*

Client Sample ID: MW-7R

Lab Sample ID: 480-68237-5

Date Collected: 09/29/14 12:26

Matrix: Water

Date Received: 09/29/14 15:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			10/08/14 14:12	2
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			10/08/14 14:12	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/L			10/08/14 14:12	2
1,1,2-Trichloroethane	ND		5.0		ug/L			10/08/14 14:12	2
1,1-Dichloroethane	ND		5.0		ug/L			10/08/14 14:12	2
1,2,4-Trichlorobenzene	ND		5.0		ug/L			10/08/14 14:12	2
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/08/14 14:12	2
1,2-Dibromoethane	ND		5.0		ug/L			10/08/14 14:12	2
1,2-Dichlorobenzene	ND		5.0		ug/L			10/08/14 14:12	2
1,2-Dichloroethane	ND		5.0		ug/L			10/08/14 14:12	2
1,2-Dichloropropane	ND		5.0		ug/L			10/08/14 14:12	2
1,3-Dichlorobenzene	ND		5.0		ug/L			10/08/14 14:12	2
1,4-Dichlorobenzene	ND		5.0		ug/L			10/08/14 14:12	2
2-Butanone (MEK)	ND		25		ug/L			10/08/14 14:12	2

Client Sample ID: MW-7R
Date Collected: 09/29/14 12:26
Date Received: 09/29/14 15:12

Lab Sample ID: 480-68237-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		25		ug/L			10/08/14 14:12	2
4-Methyl-2-pentanone (MIBK)	ND		25		ug/L			10/08/14 14:12	2
Acetone	ND		25		ug/L			10/08/14 14:12	2
Benzene	ND		5.0		ug/L			10/08/14 14:12	2
Bromodichloromethane	ND		5.0		ug/L			10/08/14 14:12	2
Bromoform	ND		5.0		ug/L			10/08/14 14:12	2
Bromomethane	ND		5.0		ug/L			10/08/14 14:12	2
Carbon disulfide	ND		5.0		ug/L			10/08/14 14:12	2
Carbon tetrachloride	ND		5.0		ug/L			10/08/14 14:12	2
Chlorobenzene	ND		5.0		ug/L			10/08/14 14:12	2
Chlorodibromomethane	ND		5.0		ug/L			10/08/14 14:12	2
Chloroethane	ND		5.0		ug/L			10/08/14 14:12	2
Chloroform	ND		5.0		ug/L			10/08/14 14:12	2
Chloromethane	ND		5.0		ug/L			10/08/14 14:12	2
cis-1,2-Dichloroethene	ND		5.0		ug/L			10/08/14 14:12	2
cis-1,3-Dichloropropene	ND		5.0		ug/L			10/08/14 14:12	2
Cyclohexane	ND		5.0		ug/L			10/08/14 14:12	2
Dichlorofluoromethane	ND		5.0		ug/L			10/08/14 14:12	2
Ethylbenzene	ND		5.0		ug/L			10/08/14 14:12	2
Isopropylbenzene	ND		5.0		ug/L			10/08/14 14:12	2
Methyl acetate	ND		5.0		ug/L			10/08/14 14:12	2
Methyl tert-butyl ether	ND		5.0		ug/L			10/08/14 14:12	2
Methylcyclohexane	ND		5.0		ug/L			10/08/14 14:12	2
Methylene Chloride	ND		5.0		ug/L			10/08/14 14:12	2
o-Chlorotoluene	ND		5.0		ug/L			10/08/14 14:12	2
Styrene	ND		5.0		ug/L			10/08/14 14:12	2
Tetrachloroethene	ND		5.0		ug/L			10/08/14 14:12	2
Toluene	ND		5.0		ug/L			10/08/14 14:12	2
trans-1,2-Dichloroethene	ND		5.0		ug/L			10/08/14 14:12	2
trans-1,3-Dichloropropene	ND		5.0		ug/L			10/08/14 14:12	2
Trichloroethene	ND		5.0		ug/L			10/08/14 14:12	2
Trichlorofluoromethane	ND		5.0		ug/L			10/08/14 14:12	2
Vinyl chloride	ND		5.0		ug/L			10/08/14 14:12	2
Xylenes, Total	ND		15		ug/L			10/08/14 14:12	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*50 - 150*		*10/08/14 14:12*	*2*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/08/14 14:12*	*2*

Client Sample ID: MW-8R
Date Collected: 09/29/14 12:45
Date Received: 09/29/14 15:12

Lab Sample ID: 480-68237-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			10/08/14 14:45	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			10/08/14 14:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/L			10/08/14 14:45	1
1,1,2-Trichloroethane	ND		5.0		ug/L			10/08/14 14:45	1
1,1-Dichloroethane	ND		5.0		ug/L			10/08/14 14:45	1

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

TestAmerica Job ID: 480-68237-1

Client Sample ID: MW-8R
Date Collected: 09/29/14 12:45
Date Received: 09/29/14 15:12

Lab Sample ID: 480-68237-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		5.0		ug/L			10/08/14 14:45	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/08/14 14:45	1
1,2-Dibromoethane	ND		5.0		ug/L			10/08/14 14:45	1
1,2-Dichlorobenzene	ND		5.0		ug/L			10/08/14 14:45	1
1,2-Dichloroethane	ND		5.0		ug/L			10/08/14 14:45	1
1,2-Dichloropropane	ND		5.0		ug/L			10/08/14 14:45	1
1,3-Dichlorobenzene	ND		5.0		ug/L			10/08/14 14:45	1
1,4-Dichlorobenzene	ND		5.0		ug/L			10/08/14 14:45	1
2-Butanone (MEK)	ND		25		ug/L			10/08/14 14:45	1
2-Hexanone	ND		25		ug/L			10/08/14 14:45	1
4-Methyl-2-pentanone (MIBK)	ND		25		ug/L			10/08/14 14:45	1
Acetone	ND		25		ug/L			10/08/14 14:45	1
Benzene	ND		5.0		ug/L			10/08/14 14:45	1
Bromodichloromethane	ND		5.0		ug/L			10/08/14 14:45	1
Bromoform	ND		5.0		ug/L			10/08/14 14:45	1
Bromomethane	ND		5.0		ug/L			10/08/14 14:45	1
Carbon disulfide	ND		5.0		ug/L			10/08/14 14:45	1
Carbon tetrachloride	ND		5.0		ug/L			10/08/14 14:45	1
Chlorobenzene	ND		5.0		ug/L			10/08/14 14:45	1
Chlorodibromomethane	ND		5.0		ug/L			10/08/14 14:45	1
Chloroethane	ND		5.0		ug/L			10/08/14 14:45	1
Chloroform	ND		5.0		ug/L			10/08/14 14:45	1
Chloromethane	ND		5.0		ug/L			10/08/14 14:45	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			10/08/14 14:45	1
cis-1,3-Dichloropropene	ND		5.0		ug/L			10/08/14 14:45	1
Cyclohexane	ND		5.0		ug/L			10/08/14 14:45	1
Dichlorofluoromethane	ND		5.0		ug/L			10/08/14 14:45	1
Ethylbenzene	ND		5.0		ug/L			10/08/14 14:45	1
Isopropylbenzene	ND		5.0		ug/L			10/08/14 14:45	1
Methyl acetate	ND		5.0		ug/L			10/08/14 14:45	1
Methyl tert-butyl ether	ND		5.0		ug/L			10/08/14 14:45	1
Methylcyclohexane	ND		5.0		ug/L			10/08/14 14:45	1
Methylene Chloride	ND		5.0		ug/L			10/08/14 14:45	1
o-Chlorotoluene	**61**		5.0		ug/L			10/08/14 14:45	1
Styrene	ND		5.0		ug/L			10/08/14 14:45	1
Tetrachloroethene	ND		5.0		ug/L			10/08/14 14:45	1
Toluene	ND		5.0		ug/L			10/08/14 14:45	1
trans-1,2-Dichloroethene	ND		5.0		ug/L			10/08/14 14:45	1
trans-1,3-Dichloropropene	ND		5.0		ug/L			10/08/14 14:45	1
Trichloroethene	ND		5.0		ug/L			10/08/14 14:45	1
Trichlorofluoromethane	ND		5.0		ug/L			10/08/14 14:45	1
Vinyl chloride	ND		5.0		ug/L			10/08/14 14:45	1
Xylenes, Total	ND		15		ug/L			10/08/14 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*50 - 150*		*10/08/14 14:45*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/08/14 14:45*	*1*

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

TestAmerica Job ID: 480-68237-1

Client Sample ID: MW-9R
Date Collected: 09/29/14 12:38
Date Received: 09/29/14 15:12

Lab Sample ID: 480-68237-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**540**		5.0		ug/L			10/08/14 15:18	21
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			10/08/14 15:18	21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/L			10/08/14 15:18	21
1,1,2-Trichloroethane	ND		5.0		ug/L			10/08/14 15:18	21
1,1-Dichloroethane	**300**		5.0		ug/L			10/08/14 15:18	21
1,2,4-Trichlorobenzene	ND		5.0		ug/L			10/08/14 15:18	21
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/08/14 15:18	21
1,2-Dibromoethane	ND		5.0		ug/L			10/08/14 15:18	21
1,2-Dichlorobenzene	ND		5.0		ug/L			10/08/14 15:18	21
1,2-Dichloroethane	ND		5.0		ug/L			10/08/14 15:18	21
1,2-Dichloropropane	ND		5.0		ug/L			10/08/14 15:18	21
1,3-Dichlorobenzene	ND		5.0		ug/L			10/08/14 15:18	21
1,4-Dichlorobenzene	ND		5.0		ug/L			10/08/14 15:18	21
2-Butanone (MEK)	ND		25		ug/L			10/08/14 15:18	21
2-Hexanone	ND		25		ug/L			10/08/14 15:18	21
4-Methyl-2-pentanone (MIBK)	ND		25		ug/L			10/08/14 15:18	21
Acetone	ND		25		ug/L			10/08/14 15:18	21
Benzene	ND		5.0		ug/L			10/08/14 15:18	21
Bromodichloromethane	ND		5.0		ug/L			10/08/14 15:18	21
Bromoform	ND		5.0		ug/L			10/08/14 15:18	21
Bromomethane	ND		5.0		ug/L			10/08/14 15:18	21
Carbon disulfide	ND		5.0		ug/L			10/08/14 15:18	21
Carbon tetrachloride	ND		5.0		ug/L			10/08/14 15:18	21
Chlorobenzene	ND		5.0		ug/L			10/08/14 15:18	21
Chlorodibromomethane	ND		5.0		ug/L			10/08/14 15:18	21
Chloroethane	**19**		5.0		ug/L			10/08/14 15:18	21
Chloroform	ND		5.0		ug/L			10/08/14 15:18	21
Chloromethane	ND		5.0		ug/L			10/08/14 15:18	21
cis-1,2-Dichloroethene	ND		5.0		ug/L			10/08/14 15:18	21
cis-1,3-Dichloropropene	ND		5.0		ug/L			10/08/14 15:18	21
Cyclohexane	ND		5.0		ug/L			10/08/14 15:18	21
Dichlorofluoromethane	ND		21		ug/L			10/08/14 15:18	21
Ethylbenzene	ND		5.0		ug/L			10/08/14 15:18	21
Isopropylbenzene	ND		5.0		ug/L			10/08/14 15:18	21
Methyl acetate	ND		5.0		ug/L			10/08/14 15:18	21
Methyl tert-butyl ether	ND		5.0		ug/L			10/08/14 15:18	21
Methylcyclohexane	ND		5.0		ug/L			10/08/14 15:18	21
Methylene Chloride	ND		5.0		ug/L			10/08/14 15:18	21
o-Chlorotoluene	**860**		5.0		ug/L			10/08/14 15:18	21
Styrene	ND		5.0		ug/L			10/08/14 15:18	21
Tetrachloroethene	ND		5.0		ug/L			10/08/14 15:18	21
Toluene	ND		5.0		ug/L			10/08/14 15:18	21
trans-1,2-Dichloroethene	ND		5.0		ug/L			10/08/14 15:18	21
trans-1,3-Dichloropropene	ND		5.0		ug/L			10/08/14 15:18	21
Trichloroethene	**7.1**		5.0		ug/L			10/08/14 15:18	21
Trichlorofluoromethane	ND		5.0		ug/L			10/08/14 15:18	21
Vinyl chloride	ND		5.0		ug/L			10/08/14 15:18	21
Xylenes, Total	ND		15		ug/L			10/08/14 15:18	21

Client Sample ID: MW-9R

Lab Sample ID: 480-68237-7

Date Collected: 09/29/14 12:38

Matrix: Water

Date Received: 09/29/14 15:12

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*102*		*50 - 150*		*10/08/14 15:18*	*21*
Toluene-d8 (Surr)	*102*		*80 - 120*		*10/08/14 15:18*	*21*

Client Sample ID: TB

Lab Sample ID: 480-68237-8

Date Collected: 09/29/14 09:30

Matrix: Water

Date Received: 09/29/14 15:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			10/08/14 11:28	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			10/08/14 11:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/L			10/08/14 11:28	1
1,1,2-Trichloroethane	ND		5.0		ug/L			10/08/14 11:28	1
1,1-Dichloroethane	ND		5.0		ug/L			10/08/14 11:28	1
1,2,4-Trichlorobenzene	ND		5.0		ug/L			10/08/14 11:28	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/08/14 11:28	1
1,2-Dibromoethane	ND		5.0		ug/L			10/08/14 11:28	1
1,2-Dichlorobenzene	ND		5.0		ug/L			10/08/14 11:28	1
1,2-Dichloroethane	ND		5.0		ug/L			10/08/14 11:28	1
1,2-Dichloropropane	ND		5.0		ug/L			10/08/14 11:28	1
1,3-Dichlorobenzene	ND		5.0		ug/L			10/08/14 11:28	1
1,4-Dichlorobenzene	ND		5.0		ug/L			10/08/14 11:28	1
2-Butanone (MEK)	ND		25		ug/L			10/08/14 11:28	1
2-Hexanone	ND		25		ug/L			10/08/14 11:28	1
4-Methyl-2-pentanone (MIBK)	ND		25		ug/L			10/08/14 11:28	1
Acetone	ND		25		ug/L			10/08/14 11:28	1
Benzene	ND		5.0		ug/L			10/08/14 11:28	1
Bromodichloromethane	ND		5.0		ug/L			10/08/14 11:28	1
Bromoform	ND		5.0		ug/L			10/08/14 11:28	1
Bromomethane	ND		5.0		ug/L			10/08/14 11:28	1
Carbon disulfide	ND		5.0		ug/L			10/08/14 11:28	1
Carbon tetrachloride	ND		5.0		ug/L			10/08/14 11:28	1
Chlorobenzene	ND		5.0		ug/L			10/08/14 11:28	1
Chlorodibromomethane	ND		5.0		ug/L			10/08/14 11:28	1
Chloroethane	ND		5.0		ug/L			10/08/14 11:28	1
Chloroform	ND		5.0		ug/L			10/08/14 11:28	1
Chloromethane	ND		5.0		ug/L			10/08/14 11:28	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			10/08/14 11:28	1
cis-1,3-Dichloropropene	ND		5.0		ug/L			10/08/14 11:28	1
Cyclohexane	ND		5.0		ug/L			10/08/14 11:28	1
Dichlorofluoromethane	ND		5.0		ug/L			10/08/14 11:28	1
Ethylbenzene	ND		5.0		ug/L			10/08/14 11:28	1
Isopropylbenzene	ND		5.0		ug/L			10/08/14 11:28	1
Methyl acetate	ND		5.0		ug/L			10/08/14 11:28	1
Methyl tert-butyl ether	ND		5.0		ug/L			10/08/14 11:28	1
Methylcyclohexane	ND		5.0		ug/L			10/08/14 11:28	1
Methylene Chloride	ND		5.0		ug/L			10/08/14 11:28	1
o-Chlorotoluene	ND		5.0		ug/L			10/08/14 11:28	1
Styrene	ND		5.0		ug/L			10/08/14 11:28	1
Tetrachloroethene	ND		5.0		ug/L			10/08/14 11:28	1

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

TestAmerica Job ID: 480-68237-1

Client Sample ID: TB
Date Collected: 09/29/14 09:30
Date Received: 09/29/14 15:12

Lab Sample ID: 480-68237-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		5.0		ug/L			10/08/14 11:28	1
trans-1,2-Dichloroethene	ND		5.0		ug/L			10/08/14 11:28	1
trans-1,3-Dichloropropene	ND		5.0		ug/L			10/08/14 11:28	1
Trichloroethene	ND		5.0		ug/L			10/08/14 11:28	1
Trichlorofluoromethane	ND		5.0		ug/L			10/08/14 11:28	1
Vinyl chloride	ND		5.0		ug/L			10/08/14 11:28	1
Xylenes, Total	ND		15		ug/L			10/08/14 11:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*50 - 150*		*10/08/14 11:28*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*10/08/14 11:28*	*1*

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

Lab Sample ID: MB 200-78372/5
Matrix: Water
Analysis Batch: 78372

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			10/08/14 10:22	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			10/08/14 10:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/L			10/08/14 10:22	1
1,1,2-Trichloroethane	ND		5.0		ug/L			10/08/14 10:22	1
1,1-Dichloroethane	ND		5.0		ug/L			10/08/14 10:22	1
1,2,4-Trichlorobenzene	ND		5.0		ug/L			10/08/14 10:22	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/08/14 10:22	1
1,2-Dibromoethane	ND		5.0		ug/L			10/08/14 10:22	1
1,2-Dichlorobenzene	ND		5.0		ug/L			10/08/14 10:22	1
1,2-Dichloroethane	ND		5.0		ug/L			10/08/14 10:22	1
1,2-Dichloropropane	ND		5.0		ug/L			10/08/14 10:22	1
1,3-Dichlorobenzene	ND		5.0		ug/L			10/08/14 10:22	1
1,4-Dichlorobenzene	ND		5.0		ug/L			10/08/14 10:22	1
2-Butanone (MEK)	ND		25		ug/L			10/08/14 10:22	1
2-Hexanone	ND		25		ug/L			10/08/14 10:22	1
4-Methyl-2-pentanone (MIBK)	ND		25		ug/L			10/08/14 10:22	1
Acetone	ND		25		ug/L			10/08/14 10:22	1
Benzene	ND		5.0		ug/L			10/08/14 10:22	1
Bromodichloromethane	ND		5.0		ug/L			10/08/14 10:22	1
Bromoform	ND		5.0		ug/L			10/08/14 10:22	1
Bromomethane	ND		5.0		ug/L			10/08/14 10:22	1
Carbon disulfide	ND		5.0		ug/L			10/08/14 10:22	1
Carbon tetrachloride	ND		5.0		ug/L			10/08/14 10:22	1
Chlorobenzene	ND		5.0		ug/L			10/08/14 10:22	1
Chlorodibromomethane	ND		5.0		ug/L			10/08/14 10:22	1
Chloroethane	ND		5.0		ug/L			10/08/14 10:22	1
Chloroform	ND		5.0		ug/L			10/08/14 10:22	1
Chloromethane	ND		5.0		ug/L			10/08/14 10:22	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			10/08/14 10:22	1
cis-1,3-Dichloropropene	ND		5.0		ug/L			10/08/14 10:22	1
Cyclohexane	ND		5.0		ug/L			10/08/14 10:22	1
Dichlorofluoromethane	ND		5.0		ug/L			10/08/14 10:22	1
Ethylbenzene	ND		5.0		ug/L			10/08/14 10:22	1
Isopropylbenzene	ND		5.0		ug/L			10/08/14 10:22	1
Methyl acetate	ND		5.0		ug/L			10/08/14 10:22	1
Methyl tert-butyl ether	ND		5.0		ug/L			10/08/14 10:22	1
Methylcyclohexane	ND		5.0		ug/L			10/08/14 10:22	1
Methylene Chloride	ND		5.0		ug/L			10/08/14 10:22	1
o-Chlorotoluene	ND		5.0		ug/L			10/08/14 10:22	1
Styrene	ND		5.0		ug/L			10/08/14 10:22	1
Tetrachloroethene	ND		5.0		ug/L			10/08/14 10:22	1
Toluene	ND		5.0		ug/L			10/08/14 10:22	1
trans-1,2-Dichloroethene	ND		5.0		ug/L			10/08/14 10:22	1
trans-1,3-Dichloropropene	ND		5.0		ug/L			10/08/14 10:22	1
Trichloroethene	ND		5.0		ug/L			10/08/14 10:22	1
Trichlorofluoromethane	ND		5.0		ug/L			10/08/14 10:22	1
Vinyl chloride	ND		5.0		ug/L			10/08/14 10:22	1
Xylenes, Total	ND		15		ug/L			10/08/14 10:22	1

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

Lab Sample ID: MB 200-78372/5
Matrix: Water
Analysis Batch: 78372

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*103*		*50 - 150*		*10/08/14 10:22*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*10/08/14 10:22*	*1*

Lab Sample ID: LCS 200-78372/3
Matrix: Water
Analysis Batch: 78372

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1-Dichloroethane			25.0	24.9		ug/L		100	80 - 120		
1,2-Dichlorobenzene			25.0	24.6		ug/L		98	80 - 125		
1,2-Dichloroethane			25.0	25.2		ug/L		101	70 - 120		
Benzene			25.0	24.8		ug/L		99	80 - 125		
Chlorobenzene			25.0	24.9		ug/L		100	80 - 120		
cis-1,2-Dichloroethene			25.0	24.7		ug/L		99	80 - 125		
Ethylbenzene			25.0	24.8		ug/L		99	80 - 125		
Methyl tert-butyl ether			25.0	24.9		ug/L		100	80 - 120		
Tetrachloroethene			25.0	24.9		ug/L		100	80 - 120		
Toluene			25.0	24.7		ug/L		99	80 - 120		
trans-1,2-Dichloroethene			25.0	25.1		ug/L		100	80 - 125		
Trichloroethene			25.0	24.3		ug/L		97	75 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	*102*		*50 - 150*
Toluene-d8 (Surr)	*102*		*80 - 120*

Certification Summary

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

TestAmerica Job ID: 480-68237-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-15

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-15
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-15
L-A-B	DoD ELAP		L2336	02-26-17
Maine	State Program	1	VT00008	04-17-15
Minnesota	NELAP	5	050-999-436	12-31-14 *
New Hampshire	NELAP	1	2006	12-18-14
New Jersey	NELAP	2	VT972	06-30-15
New York	NELAP	2	10391	03-31-15
Pennsylvania	NELAP	3	68-00489	04-30-15
Rhode Island	State Program	1	LAO00298	12-30-14
US Fish & Wildlife	Federal		LE-058448-0	02-28-15
USDA	Federal		P330-11-00093	10-28-16
Vermont	State Program	1	VT-4000	12-31-14
Virginia	NELAP	3	460209	12-14-14

* Certification renewal pending - certification considered valid.

Method Summary

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

TestAmerica Job ID: 480-68237-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUR

Protocol References:

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

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

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

TestAmerica Job ID: 480-68237-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-68237-1	DUP	Water	09/29/14 12:52	09/29/14 15:12
480-68237-2	MW-13R	Water	09/29/14 12:52	09/29/14 15:12
480-68237-3	MW-15R	Water	09/29/14 12:59	09/29/14 15:12
480-68237-4	MW-3S	Water	09/29/14 13:22	09/29/14 15:12
480-68237-5	MW-7R	Water	09/29/14 12:26	09/29/14 15:12
480-68237-6	MW-8R	Water	09/29/14 12:45	09/29/14 15:12
480-68237-7	MW-9R	Water	09/29/14 12:38	09/29/14 15:12
480-68237-8	TB	Water	09/29/14 09:30	09/29/14 15:12

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: JW, PN	Lab PM: VanDette, Ryan T	Carrier Tracking No(s):	COC No: 480-49245-4273.1
Client Contact: Mr. Mark Snyder	Phone: 585-455-0867	E-Mail: ryan.vandette@testamericainc.com		Page: Page 1 of 1
Company: Waste Management				Job #:

Analysis Requested

Address: 425 Perinton Parkway	Due Date Requested:
City: Fairport	TAT Requested (days):
State, Zip: NY, 14450	
Phone: 603-9295446(Tel) 603-929-3115(Fax)	PO #: Purchase Order not requir
Email: msnyder@wm.com	WO #:
Project Name: ChemTrol Site/NY22 Event Desc: ChemTrol Annual Groundwater	Project #: 48002447
Site: New Hampshire	SSOW#:

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
DUP	09-29-14	1252	G	Water			3		
MW-13R		1252		Water			3		
MW-15R		1259		Water			3		
MW-3S		1322		Water			3		
MW-7R		1226		Water			3		
MW-8R		1245		Water			3		
MW-9R		1238		Water			3		
TB		0930		Water			3		

480-68237 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	9-29-14/1512	TAL/Buf	[signature]	9/29/14 1512	TA Buf
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 2.6 IR

FIELD OBSERVATIONS

Facility: Chemtrol

Sample Point ID: MW-35

Field Personnel: TW, PN

Sample Matrix: GW

MONITORTING WELL INSPECTION

Date/Time 9-29-14 / 1045

Cond of seal: (X) Good ( ) Cracked ____ %
( ) None ( ) Buried

Prot. Casing/riser height: —

Cond of prot. Casing/riser: ( ) Unlocked (X) Good
( ) Loose ( ) Flush Mount
( ) Damaged ____

If prot.casing; depth to riser below: —

Gas Meter (Calibration/ Reading): % Gas: — / —

% LEL: — / —

Vol. Organic Meter (Calibration/Reading):

Volatiles (ppm) — / —

PURGE INFORMATION

Date / Time Initiated: 9-29-14 / 1047

Date / Time Completed: 9-29-14 / 1048

Surf. Meas. Pt: ( ) Prot. Casing (X) Riser

Riser Diameter, Inches: 2.0

Initial Water Level, Feet: 18.49

Elevation, G/W MSL: ____

Well Total Depth, Feet: 20.40

Method of Well Purge: Bailer

One (1) Riser Volume, Gal: 0.31

Dedicated: (Y) / N

Total Volume Purged, Gal: Dry @ ~0.30

Purged To Dryness (Y) / N

Purge Observations:

Start Black tint slt odor Finish clear slt odor

PURGE DATA (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (SU)	Conductivity (µmhos/cm)	Turb. (NTU)	Other	Other

FIELD OBSERVATIONS

SAMPLING INFORMATION:

POINT ID MW-35

Date/Time 9-29-14 / 1322

Water Level @ Sampling, Feet: 18.54

Method of Sampling: Bailer

Dedicated: (Y)/N

Multi-phased/ layered: ( ) Yes (X) No

If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conductivity (µmhos/cm)	Turb. (NTU)	Other (orp)	Other ( )
1322	12.5	7.23	1386	15.05	-79	

INSTRUMENT CALIBRATION/CHECK DATA:

Meter ID#	Cal Std 7.0 SU	Cal Std 4.0 SU	Cal Std 10.0 SU	Check Std 7.0 SU (± 10%)	Cal.Std 1,413 µmhos/cm	Check.Std 1,413 µmhos/cm (± 10%)	Cal.Std 10 NTU	Check Std 10 NT (± 1
Solution ID#								

GENERAL INFORMATION:

Weather conditions @ time of sampling: Sunny ~69°F SW @ 5mph

Sample Characteristics: Clear, w/ Sl. odor

COMMENTS AND OBSERVATIONS:

I certify that sampling procedures were in accordance with all applicable EPA, State and Site-Specific protocals.

Date: 09/29/14 By: [signature] Company: TAL

FIELD OBSERVATIONS

Facility: Chemtrol

Sample Point ID: MW-7R

Field Personnel: TW, PW

Sample Matrix: GW

MONITORTING WELL INSPECTION

Date/Time 9-29-14 / 10:23

Cond of seal: (X) Good ( ) Cracked ( ) None ( ) Buried %

Prot. Casing/riser height: –

Cond of prot. Casing/riser: ( ) Unlocked (X) Good ( ) Loose ( ) Flush Mount ( ) Damaged

If prot.casing; depth to riser below: –

Gas Meter (Calibration/ Reading): % Gas: – / –

% LEL: – / –

Vol. Organic Meter (Calibration/Reading):

Volatiles (ppm) – / –

PURGE INFORMATION

Date / Time Initiated: 9-29-14 / 1025

Date / Time Completed: 9-29-14 / 1105

Surf. Meas. Pt: ( ) Prot. Casing (X) Riser

Riser Diameter, Inches: 4.0

Initial Water Level, Feet: 8.60

Elevation. G/W MSL:

Well Total Depth, Feet: 37.95

Method of Well Purge: Purge Bailer

One (1) Riser Volume, Gal: 19.1

Dedicated: Y / (N)

Total Volume Purged, Gal: 57.4

Purged To Dryness Y / (N)

Purge Observations:

Start Clear Finish Sl. Tu-bid

PURGE DATA (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (SU)	Conductivity (µmhos/cm)	Turb. (NTU)	Other	Other

FIELD OBSERVATIONS

SAMPLING INFORMATION:

POINT ID MW-7R

Date/Time 9-29-14 / 1226 (9-29-14 RW 9-24-14)

Water Level @ Sampling, Feet: 8.53

Method of Sampling: Bailer

Dedicated: (Y) / N

Multi-phased/ layered: ( ) Yes (X) No

If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conductivity (µmhos/cm)	Turb. (NTU)	Other (orp)	Other ( )
1226	13.9	6.65	2097	7.29	-202	

INSTRUMENT CALIBRATION/CHECK DATA:

Meter ID#	Cal Std 7.0 SU	Cal Std 4.0 SU	Cal Std 10.0 SU	Check Std 7.0 SU (± 10%)	Cal.Std 1,413 µmhos/cm	Check.Std 1,413 µmhos/cm (± 10%)	Cal.Std 10 NTU	Check Std 10 NTU (± 10%
Solution ID#								

GENERAL INFORMATION:

Weather conditions @ time of sampling: Sunny ~69° SW @ 8mph

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

I certify that sampling procedures were in accordance with all applicable EPA, State and Site-Specific protocals.

Date: 09/29/14 By: Thomas Wiles Company: TAL

FIELD OBSERVATIONS

Facility: Chemtrol | Sample Point ID: MW-8R

Field Personnel: TW, PN | Sample Matrix: G/W

MONITORTING WELL INSPECTION:

Date/Time 9-29-14 1115 | Cond of seal: (G) Good ( ) Cracked ( ) None ( ) Buried | %

Prot. Casing/riser height: — | Cond of prot. Casing/riser: (U) Unlocked (G) Good ( ) Loose ( ) Flush Mount ( ) Damaged

If prot.casing; depth to riser below: —

Gas Meter (Calibration/ Reading): % Gas: 1 | % LEL: 1

Vol. Organic Meter (Calibration/Reading): | Volatiles (ppm) 1

PURGE INFORMATION:

Date / Time Initiated: 9-29-14 / 1119 | Date / Time Completed: 9-29-14 / 1140

Surf. Meas. Pt: ( ) Prot. Casing (R) Riser | Riser Diameter, Inches: 4"

Initial Water Level, Feet: 10.51 | Elevation. G/W MSL:

Well Total Depth, Feet: 22.10 | Method of Well Purge: BAILER

One (1) Riser Volume, Gal: 7.5 | Dedicated: (Y) / N

Total Volume Purged, Gal: ~ 22.5 | Purged To Dryness Y / (N)

Purge Observations: | Start clear Finish clear

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (SU)	Conductivity (µmhos/cm)	Turb. (NTU)	Other	Other

FIELD OBSERVATIONS

SAMPLING INFORMATION:

POINT ID MW-8R

Date/Time 9-29-14 / 1245 Water Level @ Sampling, Feet: 10.56

Method of Sampling: Bailer Dedicated: (Y) N

Multi-phased/ layered: ( ) Yes (X) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conductivity (µmhos/cm)	Turb. (NTU)	Other (ORP)	Other ( )
1245	15.4	7.10	1161	4.33	-100	

INSTRUMENT CALIBRATION/CHECK DATA:

Meter ID#	Cal Std 7.0 SU	Cal Std 4.0 SU	Cal Std 10.0 SU	Check Std 7.0 SU (± 10%)	Cal.Std 1,413 µmhos/cm	Check.Std 1,413 µmhos/cm (± 10%)	Cal.Std 10 NTU	Check Std 10 NTU (± 10%
Solution ID#								

GENERAL INFORMATION:

Weather conditions @ time of sampling: Sunny ~ 69°F SW @ 6mph

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

I certify that sampling procedures were in accordance with all applicable EPA, State and Site-Specific protocals.

Date: 09/29/14 By: [signature] Company: TRC

FIELD OBSERVATIONS

Facility: Chemtrol

Sample Point ID: MW-9R

Field Personnel: JW, PN

Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 9-29-14 / 1055

Cond of seal: (X) Good ( ) Cracked ( ) None ( ) Buried %

Prot. Casing/riser height: —

Cond of prot. Casing/riser: ( ) Unlocked ( ) Good ( ) Loose ( ) Flush Mount (X) Damaged hinge broken

If prot.casing; depth to riser below: —

Gas Meter (Calibration/ Reading): % Gas: — / — % LEL: — / —

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm) — / —

PURGE INFORMATION:

Date / Time Initiated: 9-29-14 / 1057

Date / Time Completed: 9-29-14 / 1145

Surf. Meas. Pt: ( ) Prot. Casing (X) Riser

Riser Diameter, Inches: 4.0

Initial Water Level, Feet: 12.51

Elevation. G/W MSL:

Well Total Depth, Feet: 29.45

Method of Well Purge: Bailer

One (1) Riser Volume, Gal: 11.05

Dedicated: (Y) / N

Total Volume Purged, Gal: ~33.17

Purged To Dryness Y / (N)

Purge Observations:

Start turbid/gray tint Finish Clear

PURGE DATA (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (SU)	Conductivity (µmhos/cm)	Turb. (NTU)	Other	Other

FIELD OBSERVATIONS

SAMPLING INFORMATION:

POINT ID MW-9R

Date/Time 9-29-14 / 1238 Water Level @ Sampling, Feet: 12.52

Method of Sampling: Bailer Dedicated: (Y) / N

Multi-phased/ layered: ( ) Yes (X) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conductivity (µmhos/cm)	Turb. (NTU)	Other (orp)	Other ( )
1238	12.3	6.84	1737	4.20	-168	

INSTRUMENT CALIBRATION/CHECK DATA:

Meter ID#	Cal Std 7.0 SU	Cal Std 4.0 SU	Cal Std 10.0 SU	Check Std 7.0 SU (± 10%)	Cal.Std 1,413 µmhos/cm	Check.Std 1,413 µmhos/cm (± 10%)	Cal.Std 10 NTU	Check Std 10 NTU (± 1
Solution ID#								

GENERAL INFORMATION:

Weather conditions @ time of sampling: Sunny ~69°F, SW@ 6mph

Sample Characteristics: clear

COMMENTS AND OBSERVATIONS:

I certify that sampling procedures were in accordance with all applicable EPA, State and Site-Specific protocals.

Date: 09/29/14 By: [signature] Company: TAL

FIELD OBSERVATIONS

Facility: Chemtrol

Sample Point ID: MW-13R

Field Personnel: TW, PN

Sample Matrix:

MONITORTING WELL INSPECTION:

Date/Time 9-29-14 / 1152

Cond of seal: (X) Good ( ) Cracked ( ) None ( ) Buried %

Prot. Casing/riser height: -

Cond of prot. Casing/riser: ( ) Unlocked (X) Good ( ) Loose ( ) Flush Mount ( ) Damaged

If prot.casing; depth to riser below: -

Gas Meter (Calibration/ Reading): % Gas: - / - % LEL: - / -

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm) - / -

PURGE INFORMATION:

Date / Time Initiated: 9-29-14 / 1154

Date / Time Completed: 9-29-14 / 1220

Surf. Meas. Pt: ( ) Prot. Casing (X) Riser

Riser Diameter, Inches: 4.0

Initial Water Level, Feet: 8.63

Elevation. G/W MSL:

Well Total Depth, Feet: 22.25

Method of Well Purge: BAILER

One (1) Riser Volume, Gal: 8.9

Dedicated: (Y) / N

Total Volume Purged, Gal: 26.5

Purged To Dryness Y / (N)

Purge Observations:

Start Clear Finish Clear

PURGE DATA (if applicable):

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (SU)	Conductivity (µmhos/cm)	Turb. (NTU)	Other	Other

FIELD OBSERVATIONS

SAMPLING INFORMATION:

POINT ID MW-13R

Date/Time 9-29-14 1252

Water Level @ Sampling, Feet: 8.69

Method of Sampling: Bailer

Dedicated: (Y) / N

Multi-phased/ layered: ( ) Yes (X) No

If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conductivity (µmhos/cm)	Turb. (NTU)	Other (ORP)	Other ( )
1252	14.2	6.95	131	2.26	-126	

INSTRUMENT CALIBRATION/CHECK DATA:

Meter ID#	Cal Std 7.0 SU	Cal Std 4.0 SU	Cal Std 10.0 SU	Check Std 7.0 SU (± 10%)	Cal.Std 1,413 µmhos/cm	Check.Std 1,413 µmhos/cm (± 10%)	Cal.Std 10 NTU	Check Std 10 NTU (± 10%
Solution ID#								

GENERAL INFORMATION:

Weather conditions @ time of sampling: Sunny ~69°F SW @ 6mph

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Dup taken

I certify that sampling procedures were in accordance with all applicable EPA, State and Site-Specific protocals.

Date: 09/29/14 By: [signature] Company: TAL

FIELD OBSERVATIONS

Facility: Chemtrol Sample Point ID: MW-15R

Field Personnel: TW, PW Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 9-29-14 / 1207 Cond of seal: (X) Good ( ) Cracked ( ) None ( ) Buried %

Prot. Casing/riser height: — Cond of prot. Casing/riser: (X) Unlocked ( ) Good ( ) Loose ( ) Flush Mount ( ) Damaged

If prot.casing; depth to riser below: —

Gas Meter (Calibration/ Reading): % Gas: — / — % LEL: — / —

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm) — / —

PURGE INFORMATION:

Date / Time Initiated: 9-29-14 / 1209 Date / Time Completed: 9-29-14 / 1214

Surf. Meas. Pt: ( ) Prot. Casing (X) Riser Riser Diameter, Inches: 2.0

Initial Water Level, Feet: 6.11 Elevation. G/W MSL:

Well Total Depth, Feet: 26.25 Method of Well Purge: Bailer

One (1) Riser Volume, Gal: 3.2 Dedicated: (Y) / N

Total Volume Purged, Gal: ~3.5 to dry Purged To Dryness (Y) / N

Purge Observations: Start clear Finish clear

PURGE DATA (if applicable):

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (SU)	Conductivity (µmhos/cm)	Turb. (NTU)	Other	Other

FIELD OBSERVATIONS

SAMPLING INFORMATION:

POINT ID MW-15R

Date/Time 9-29-14 / 1259 Water Level @ Sampling, Feet: 22.2

Method of Sampling: Bailer Dedicated: (Y) N

Multi-phased/ layered: ( ) Yes (X) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conductivity (µmhos/cm)	Turb. (NTU)	Other (orp)	Other ( )
1259	12.5	7.04	7532	7.82	-159	

INSTRUMENT CALIBRATION/CHECK DATA:

Meter ID#	Cal Std 7.0 SU	Cal Std 4.0 SU	Cal Std 10.0 SU	Check Std 7.0 SU (± 10%)	Cal.Std 1,413 µmhos/cm	Check.Std 1,413 µmhos/cm (± 10%)	Cal.Std 10 NTU	Check St 10 N (± 1
Solution ID#								

GENERAL INFORMATION:

Weather conditions @ time of sampling: Sunny ~69°F, SW @ 6mph

Sample Characteristics: clear

COMMENTS AND OBSERVATIONS:

I certify that sampling procedures were in accordance with all applicable EPA, State and Site-Specific protocals.

Date: 09/29/14 By: Thomas Mills Company: TAC

FIELD OBSERVATIONS

Facility: Chemtrol

Sample Point ID: Dup

Field Personnel: TW, PN

Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 9-29-14 / 1152

Cond of seal: (X) Good ( ) Cracked ____ %
( ) None ( ) Buried

Prot. Casing/riser height: —

Cond of prot. Casing/riser: ( ) Unlocked (X) Good
( ) Loose ( ) Flush Mount
( ) Damaged ____

If prot.casing; depth to riser below: —

Gas Meter (Calibration/ Reading): % Gas: — / —

% LEL: — / —

Vol. Organic Meter (Calibration/Reading):

Volatiles (ppm) — / —

PURGE INFORMATION:

Date / Time Initiated: 9-29-14 / 1154

Date / Time Completed: 9-29-14 / 1220

Surf. Meas. Pt: ( ) Prot. Casing (X) Riser

Riser Diameter, Inches: 4.0

Initial Water Level, Feet: 8.63

Elevation. G/W MSL: ____

Well Total Depth, Feet: 22.25

Method of Well Purge: Bailer

One (1) Riser Volume, Gal: 8.9

Dedicated: (Y) / N

Total Volume Purged, Gal: 26.5

Purged To Dryness Y / (N)

Purge Observations: ____

Start clear Finish clear

PURGE DATA (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (SU)	Conductivity (µmhos/cm)	Turb. (NTU)	Other	Other

FIELD OBSERVATIONS

SAMPLING INFORMATION:

POINT ID Dup

Date/Time 9-29-14 / 1252 Water Level @ Sampling, Feet: 8.69

Method of Sampling: Bailer Dedicated: (Y) / N

Multi-phased/ layered: ( ) Yes (X) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conductivity (µmhos/cm)	Turb. (NTU)	Other (ORP)	Other ( )
1252	14.2	6.95	1311	2.26	-126	

INSTRUMENT CALIBRATION/CHECK DATA:

Meter ID#	Cal Std 7.0 SU	Cal Std 4.0 SU	Cal Std 10.0 SU	Check Std 7.0 SU (± 10%)	Cal.Std 1,413 µmhos/cm	Check.Std 1,413 µmhos/cm (± 10%)	Cal.Std 10 NTU	Check Std 10 NT (± 1
Solution ID#								

GENERAL INFORMATION:

Weather conditions @ time of sampling: Sunny ~69° SW @ 6mph

Sample Characteristics: clear

COMMENTS AND OBSERVATIONS:

Dup taken @ MW-13R

I certify that sampling procedures were in accordance with all applicable EPA, State and Site-Specific protocals.

Date: 09/29/14 By: [signature] Company: TAL

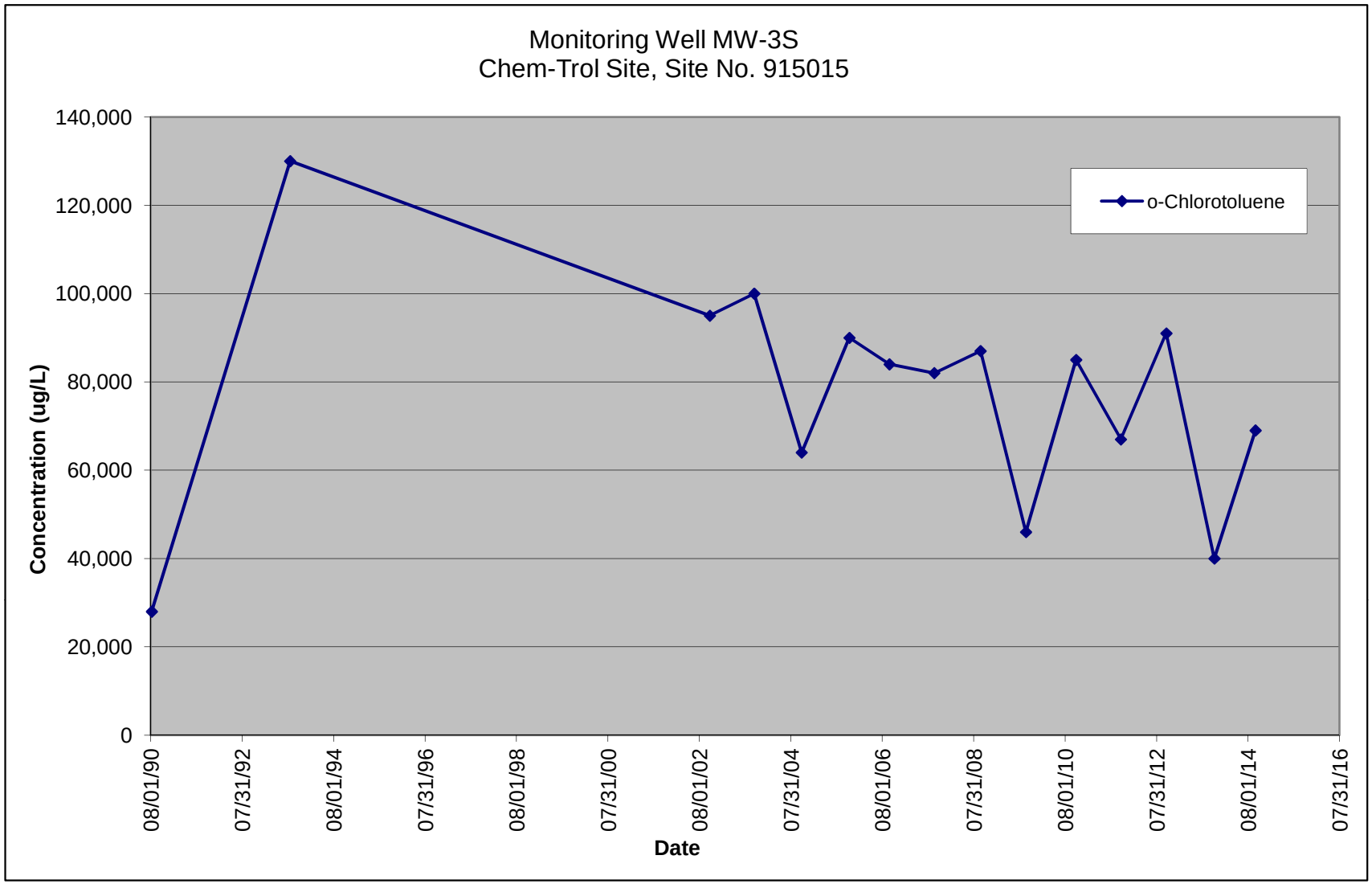
ATTACHMENT C

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

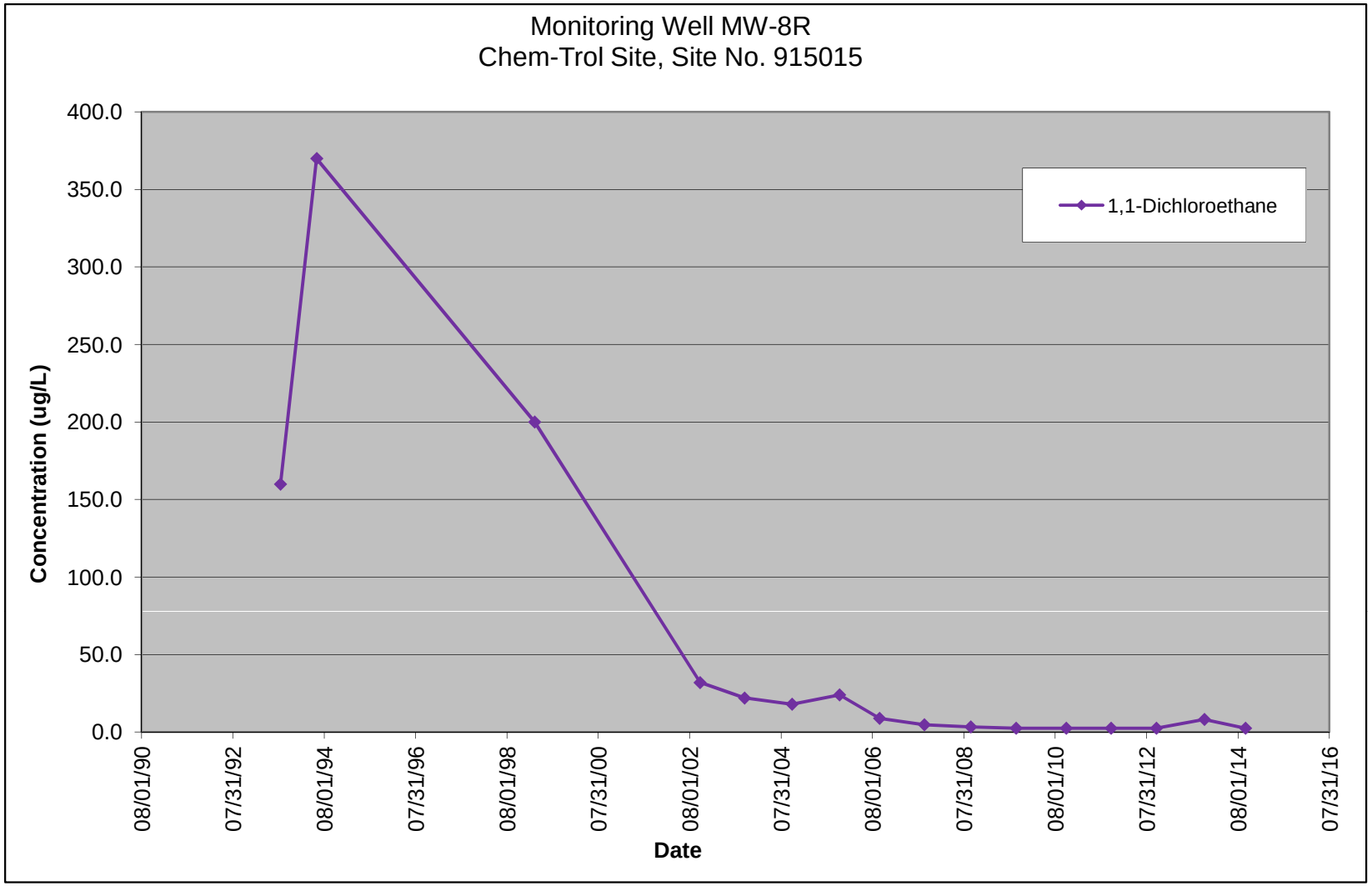

Monitoring Well MW-3S
Chem-Trol Site, Site No. 915015
140,000
120,000
100,000
80,000
60,000
40,000
20,000
0
Concentration (ug/L)
o-Chlorotoluene
08/01/90
07/31/92
08/01/94
07/31/96
08/01/98
07/31/00
08/01/02
07/31/04
08/01/06
07/31/08
08/01/10
07/31/12
08/01/14
07/31/16
Date

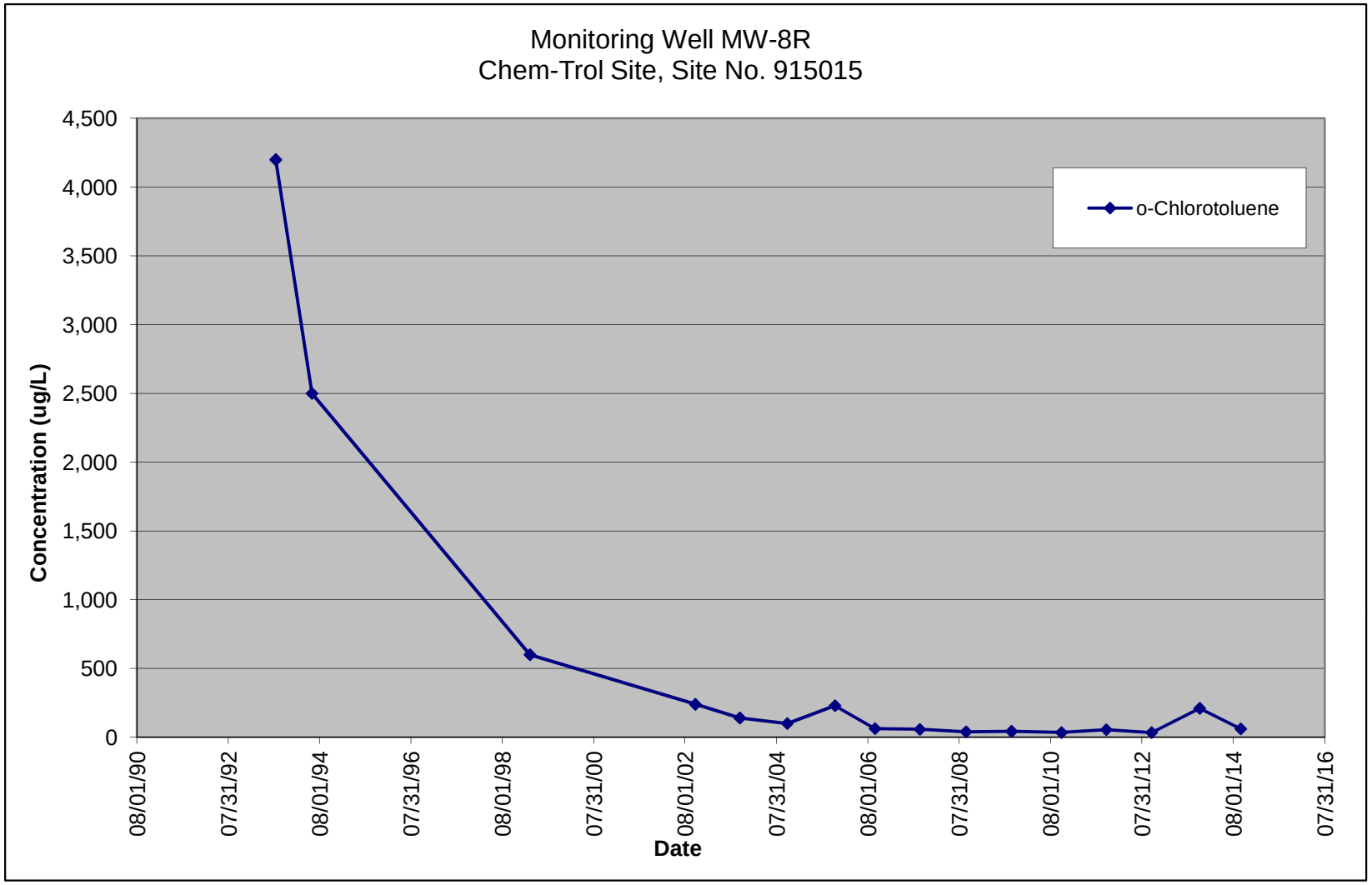
CHEM-TROL SITE

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

Value is equal to 1/2 the detection limit.


Monitoring Well MW-8R
Chem-Trol Site, Site No. 915015
400.0
350.0
300.0
250.0
200.0
150.0
100.0
50.0
0.0
Concentration (ug/L)
1,1-Dichloroethane
08/01/90
07/31/92
08/01/94
07/31/96
08/01/98
07/31/00
08/01/02
07/31/04
08/01/06
07/31/08
08/01/10
07/31/12
08/01/14
07/31/16
Date


Monitoring Well MW-8R
Chem-Trol Site, Site No. 915015
Concentration (ug/L)
4,500
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
0
08/01/90
07/31/92
08/01/94
07/31/96
08/01/98
07/31/00
08/01/02
07/31/04
08/01/06
07/31/08
08/01/10
07/31/12
08/01/14
07/31/16
Date
o-Chlorotoluene

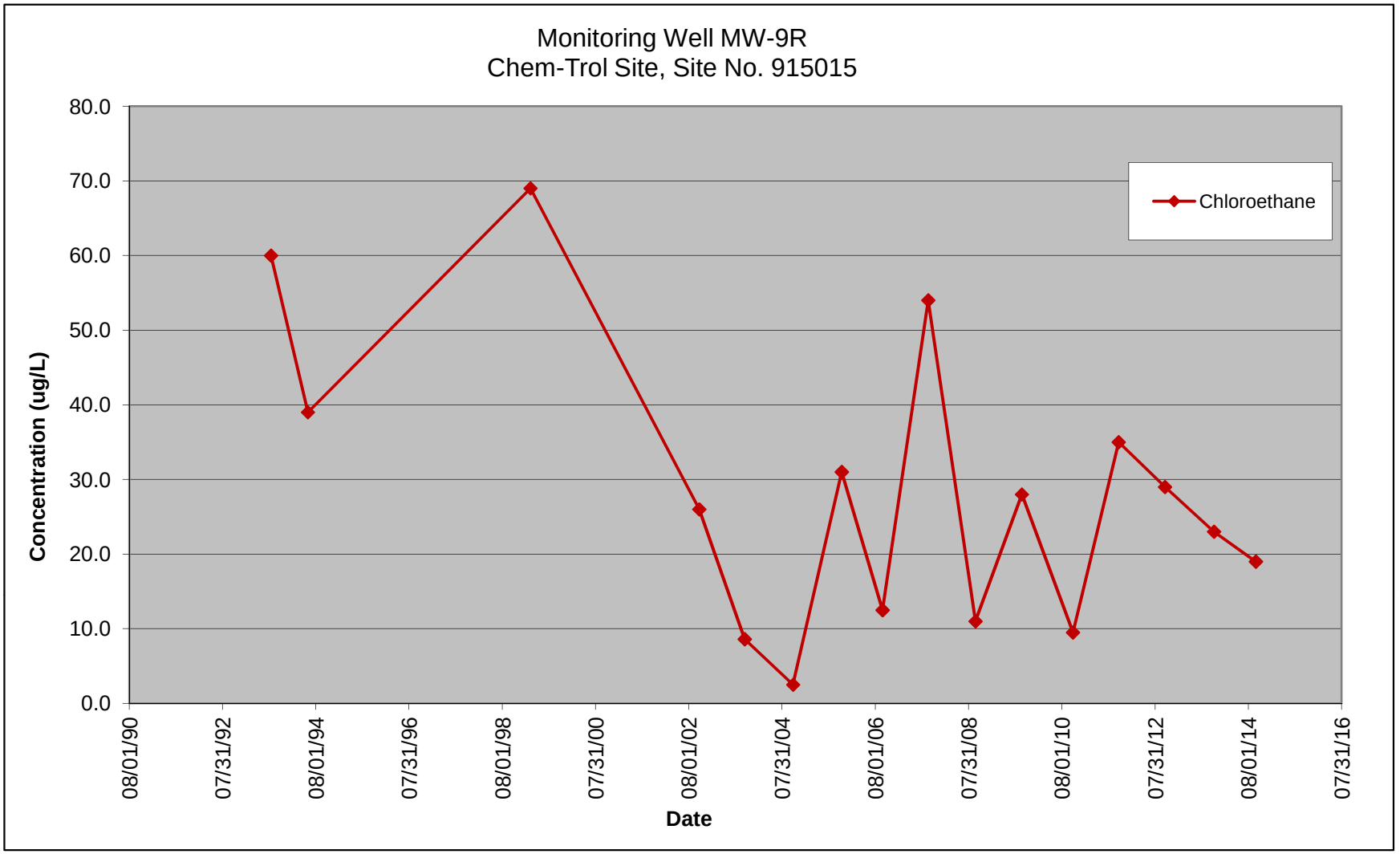
CHEM-TROL SITE

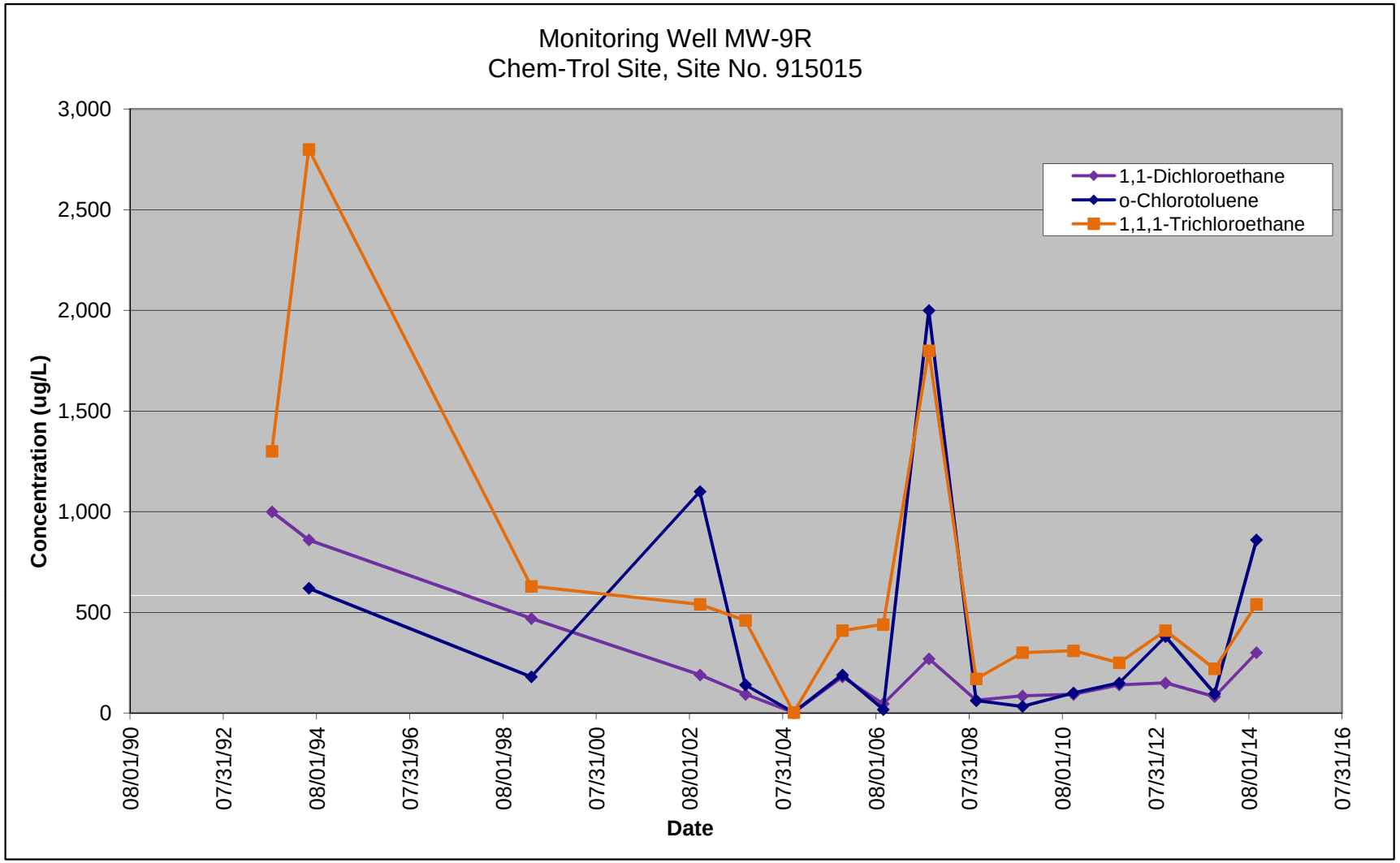
Groundwater Analytical Data for Well MW-9R (ug/L)

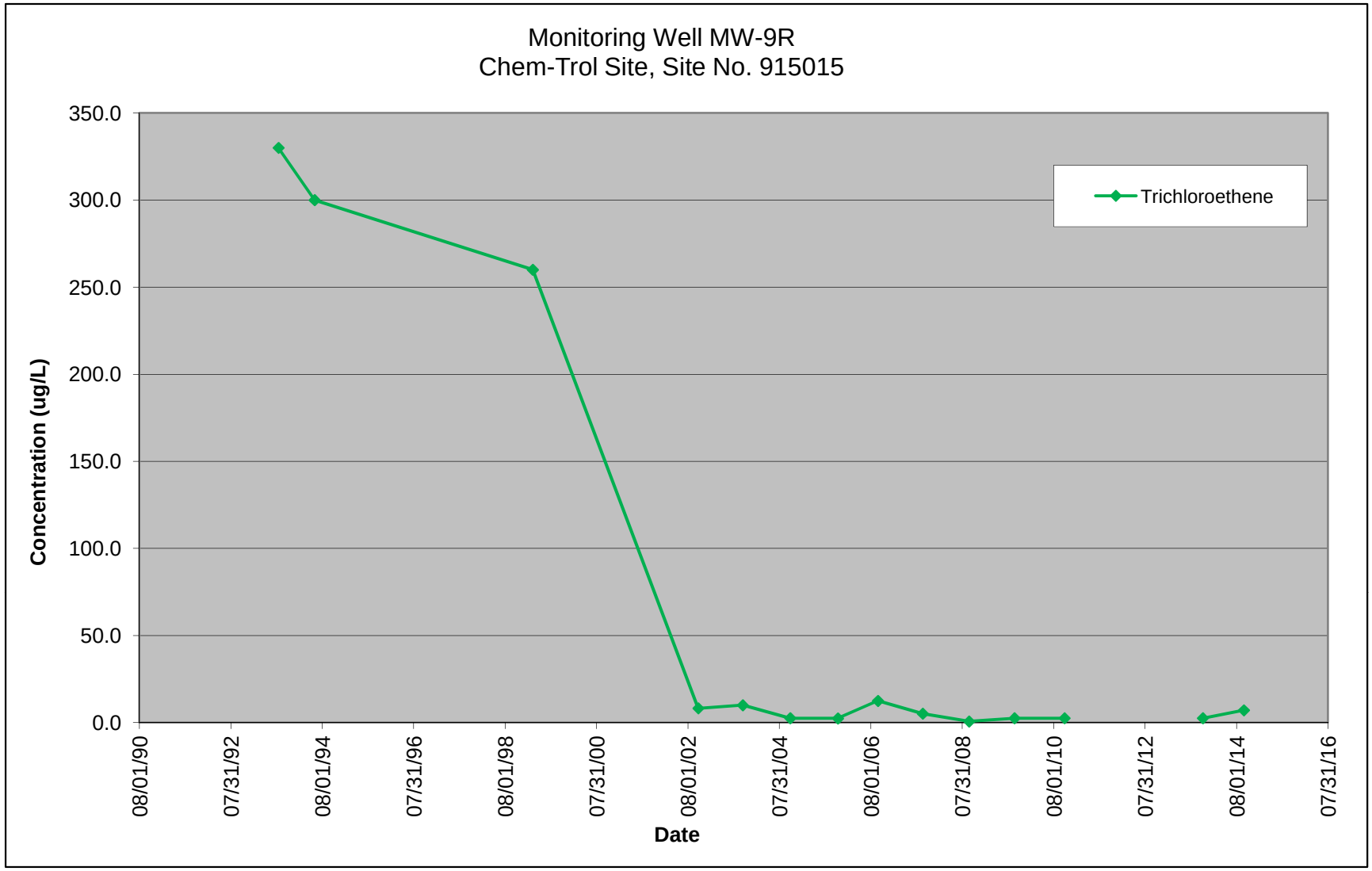
Date	Chloroethane	1,1-Dichloroethane	o-Chlorotoluene	1,1,1-Trichloroethane	Trichloroethene
08/16/93	60.0	1,000		1,300	330.0
06/01/94	39.0	860.0	620.0	2,800	300.0
03/10/99	69.0	470.0	180.0	630.0	260.0
10/22/02	26.0	190.0	1,100	540.0	8.2
10/13/03	8.6	93.0	140.0	460.0	10.0
10/26/04	2.5	2.5	2.5	2.5	2.5
11/11/05	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

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

Value is equal to 1/2 the detection limit.


Monitoring Well MW-9R
Chem-Trol Site, Site No. 915015
Concentration (ug/L)
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
08/01/90
07/31/92
08/01/94
07/31/96
08/01/98
07/31/00
08/01/02
07/31/04
08/01/06
07/31/08
08/01/10
07/31/12
08/01/14
07/31/16
Date
Chloroethane


Monitoring Well MW-9R
Chem-Trol Site, Site No. 915015
Concentration (ug/L)
3,000
2,500
2,000
1,500
1,000
500
0
08/01/90
07/31/92
08/01/94
07/31/96
08/01/98
07/31/00
08/01/02
07/31/04
08/01/06
07/31/08
08/01/10
07/31/12
08/01/14
07/31/16
Date
1,1-Dichloroethane
o-Chlorotoluene
1,1,1-Trichloroethane


Monitoring Well MW-9R
Chem-Trol Site, Site No. 915015
Concentration (ug/L)
350.0
300.0
250.0
200.0
150.0
100.0
50.0
0.0
08/01/90
07/31/92
08/01/94
07/31/96
08/01/98
07/31/00
08/01/02
07/31/04
08/01/06
07/31/08
08/01/10
07/31/12
08/01/14
07/31/16
Date
Trichloroethene

CHEM-TROL SITE

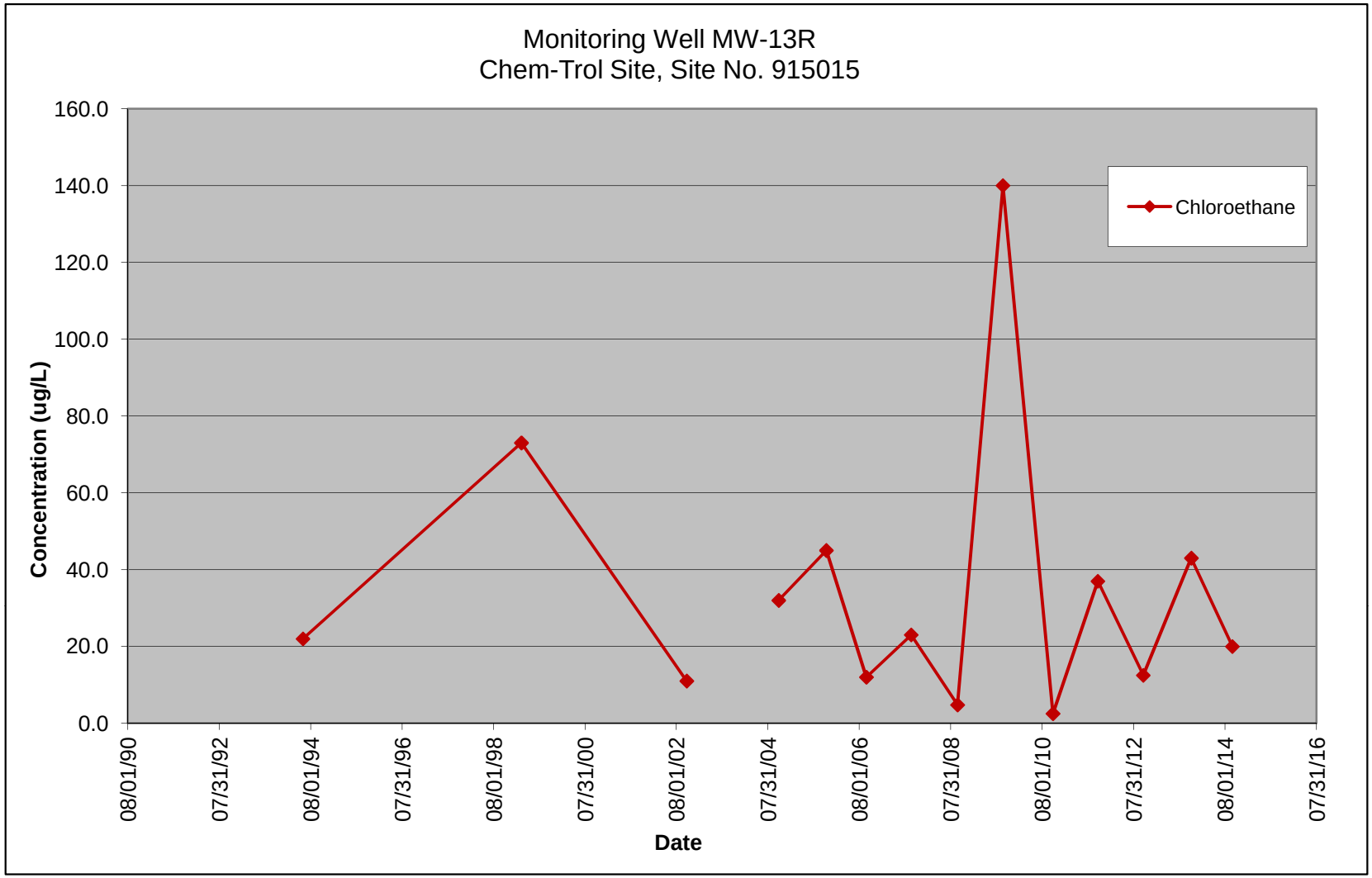
Groundwater Analytical Data for Well MW-13R (ug/L)

Date	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane	o-Chlorotoluene
05/31/94	22.0	6.0	280.0	1,700
03/11/99	73.0	240.0	220.0	
10/22/02	11.0	190.0	79.0	4,200
10/13/03		110.0		4,500
10/26/04	32.0	39.0	8.2	1,900
11/11/05	45.0	270.0	76.0	4,900
09/27/06	12.0	8.6	2.5	680.0
09/20/07	23.0	5.6	20.0	440.0
09/24/08	4.8	10.0	10.0	250.0
09/22/09	140.0	17.0	2.5	600.0
10/27/10	2.5	2.5	2.5	210.0
10/20/11	37.0			820.0
10/17/12	12.5	12.5		410.0
11/05/13	43.0	67.0	17.0	2,500
09/29/14	20.0	24.0	2.5	2000.0

Data not included due to high detection limits for ND values: (1) 2003 - 200 ug/L except for Total Xylenes, which was 600 ug/L.

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

Value is equal to 1/2 the detection limit.


Monitoring Well MW-13R
Chem-Trol Site, Site No. 915015
160.0
140.0
120.0
100.0
80.0
60.0
40.0
20.0
0.0
Concentration (ug/L)
Chloroethane
08/01/90
07/31/92
08/01/94
07/31/96
08/01/98
07/31/00
08/01/02
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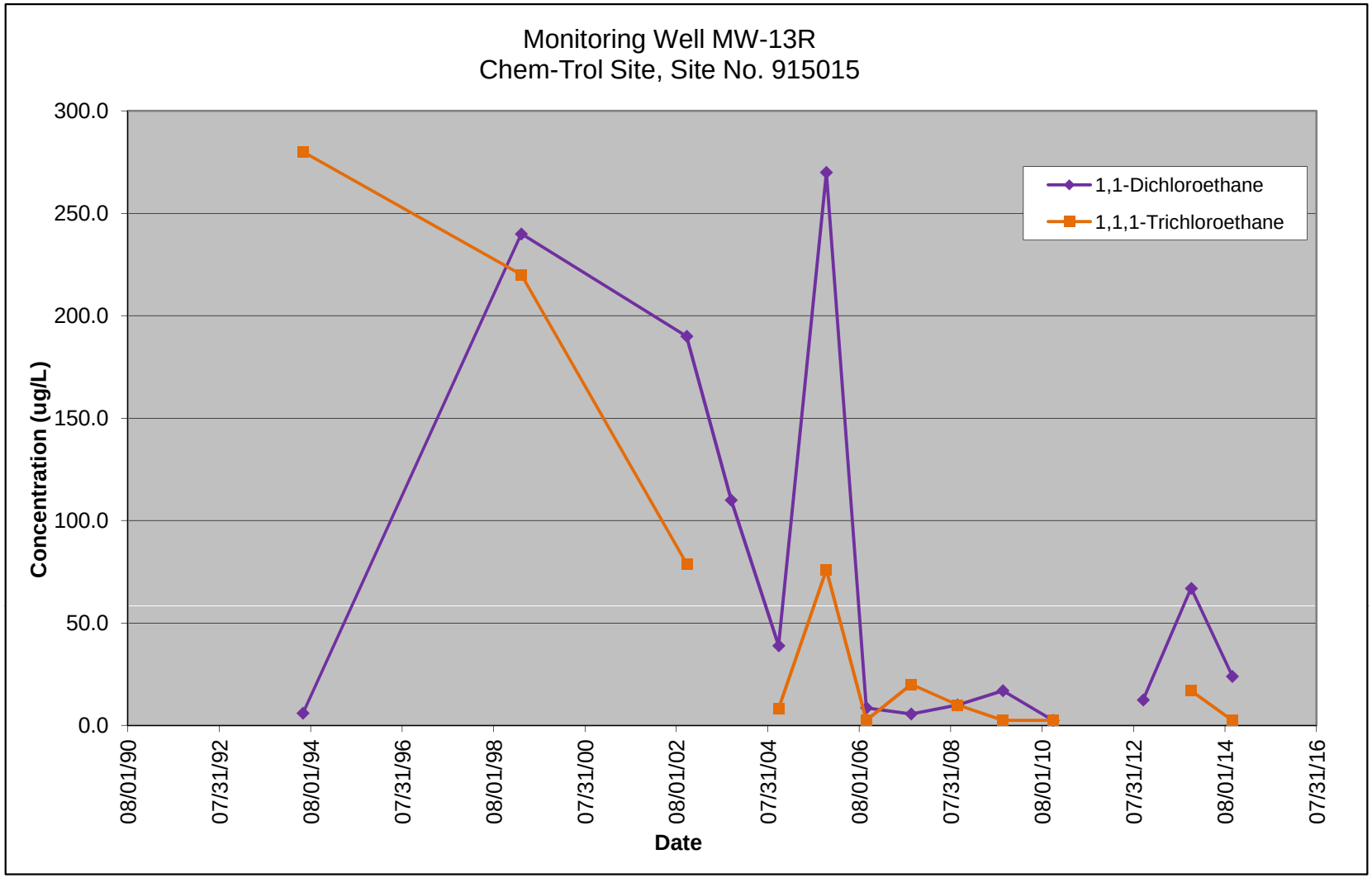
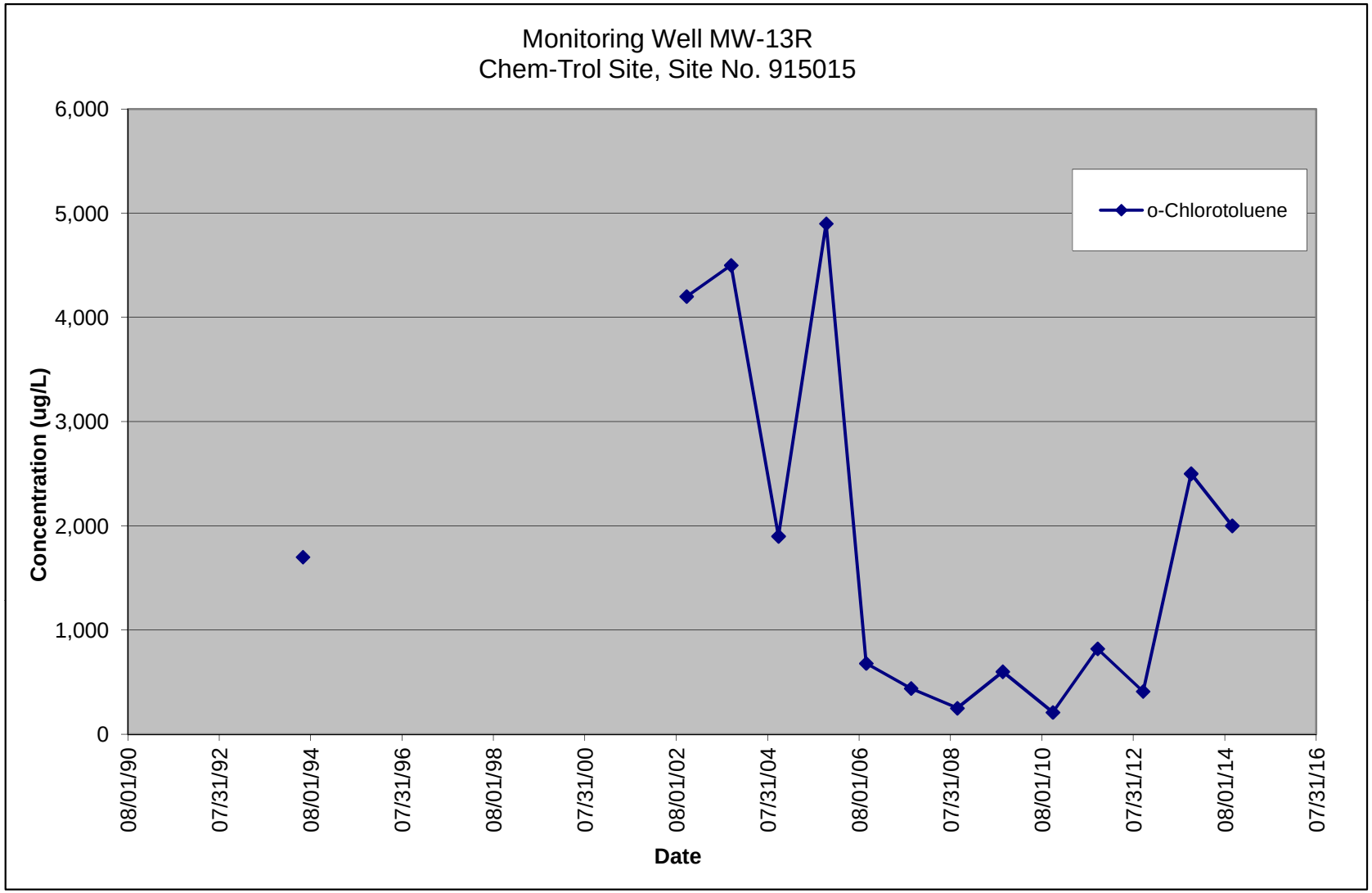
08/01/10
07/31/12
08/01/14
07/31/16
Date


Monitoring Well MW-13R
Chem-Trol Site, Site No. 915015
300.0
250.0
200.0
150.0
100.0
50.0
0.0
Concentration (ug/L)
1,1-Dichloroethane
1,1,1-Trichloroethane
08/01/90
07/31/92
08/01/94
07/31/96
08/01/98
07/31/00
08/01/02
07/31/04
08/01/06
07/31/08
08/01/10
07/31/12
08/01/14
07/31/16
Date


Monitoring Well MW-13R
Chem-Trol Site, Site No. 915015
6,000
5,000
4,000
3,000
2,000
1,000
0
Concentration (ug/L)
o-Chlorotoluene
08/01/90
07/31/92
08/01/94
07/31/96
08/01/98
07/31/00
08/01/02
07/31/04
08/01/06
07/31/08
08/01/10
07/31/12
08/01/14
07/31/16
Date