



**McMahon
& Mann**
Consulting Engineers, P.C.

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MAR 16 2012

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March 13, 2012

File: 94-022

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

Re: 2011 PERIODIC REVIEW REPORT
Chem-Trol Site, Registry No. 9-15-015,
Blasdell, Erie County

Dear Mr. Sadowski:

McMahon & Mann Consulting Engineers, P.C. (MMCE), on behalf of SC Holdings, Inc. (SC Holdings), is submitting this Periodic Review Report (PRR) along with a completed Institutional and Engineering Controls (IE/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 January 19, 2012 to Mr. Mark Snyder. The letter provides guidance for preparing the PRR and IE/EC forms and requires that they be submitted to NYDEC no later than March 16, 2012.

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 and operations were moved to a new facility in Model City, New York.

Chem-Trol was acquired by SCA Services, Inc., in 1973 and SCA Services, Inc. was acquired by Waste Management, Inc. in 1984.

As a result of the 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, construction of a soil vapor extraction (SVE) system and a groundwater collection and treatment system. The groundwater collection and treatment system includes 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, MMCE evaluated the effectiveness of the passive 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 the 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.

The 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 soil vapor extraction 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 groundwater treatment system.

SC Holdings submitted a work plan to the 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. The 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, MMCE prepared a report on behalf of SC Holdings 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. The 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 the active operation of the SVE system permanently cease and that passive soil venting of the SVE system laterals continue. In addition, it was recommended that continued monitoring of the SVE system laterals be eliminated. The NYSDEC agreed with the recommendations in a letter to Mr. Mark Snyder dated May 29, 2011.

The passive SVE treatment system is no longer monitored but the lateral riser pipes are visually examined for damage during quarterly site visits.

Groundwater Collection and Treatment System

SC Holdings has the following actions performed by third party consultants in order to monitor the performance of the groundwater collection system as required in the ROD;



- Perform monthly operation and maintenance tasks on the system,
- Sample and analyze the groundwater collection and treatment system influent and effluent on a monthly basis,
- Measure and record water levels in groundwater extraction wells and groundwater monitoring wells on a quarterly basis,
- Obtain annual groundwater samples from groundwater monitoring wells and analyze for organic compounds,
- Prepare bedrock groundwater contours based on quarterly water level measurements collected during the year, and,
- Visually observe the condition of the SVE system lateral riser pipes.

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 2011 were below the mass loading discharge limits established by the NYSDEC. O-chlorotoluene exceeded the discharge limit in the November 2011 effluent sample but did not exceed the mass loading discharge limit. AECOM contacted Matrix to dismantle and acid wash the system (November 28, 2011). Analysis of the treatment system effluent sample showed no exceedances of the discharge limits.

The analytical test results for the effluent samples are included in the monthly O&M reports submitted by AECOM to the NYSDEC on a quarterly basis.

Monthly testing of the air stripper exhaust discharge samples ceased after April 2011. Monthly testing was eliminated based upon a letter from Al Zylinski, NYSDEC Division of Air Resources, to MMCE 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 2011. Quarterly groundwater level 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 off site flow and limit groundwater discharge to the South Branch of Smokes Creek.

VOC analytical test results of groundwater influent samples have historically shown o-chlorotoluene levels in higher concentrations than other organic compounds found in influent to the groundwater extraction system. Therefore, concentrations of o-chlorotoluene detected in influent groundwater samples to the groundwater collection and treatment system 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 2011 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 show the air stripper is effectively removing VOCs from the groundwater collected by the treatment system.

A summary of all organic compound analytical test detections for the annual 2011 groundwater-sampling event is included as Table 2, Detection Summary. The complete 2011 groundwater sample analytical laboratory report is included as Attachment B.

Soil Vapor Extraction System

The soil vapor extraction system continues to operate passively.

The SVE passive vent risers were observed for damage during each quarterly visit during 2011. No damage was observed during these visits.

IV. O&M PLAN COMPLIANCE

SC Holdings performed the following activities as part of the Operation & Maintenance (O&M) Plan requirements:

Groundwater Collection and Treatment System

Third party consultants performed the following activities in 2011 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 volatile organic compounds, and
- Prepared and submitted O&M reports on a quarterly basis to the NYSDEC.

The operation and maintenance reports submitted to the 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 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.

Soil Vapor Extraction System

Third party consultants performed the following activities in 2011 as part of quarterly visits to the site:

- Visually observed each SVE passive vent riser for damage.

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 the 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.

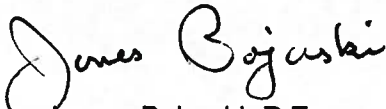
The data shows that the groundwater collection and treatment system continues to contain groundwater contaminants and creates a gradient toward the groundwater collection wells and away from the South Branch of Smokes Creek.

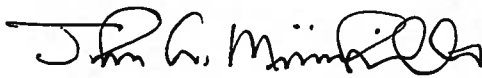
No changes to the activities currently being performed at the Chem-Trol site are recommended.

Please call MMCE (716-834-8932) or Mr. Mark R. Snyder (585-223-6922) if you have any questions or require any additional information after reviewing this report.

Sincerely yours,

McMAHON & MANN CONSULTING ENGINEERS, PC


James Bojarski, P.E.


John A. Minichiello, CPESC, CPSWQ

cc. Mark R. Snyder, P.E. (SC Holdings, Inc.) w/attachments
Enclosures:



Table 1 – Summary of Groundwater Elevation Measurements - 2011

Table 2 – 2011 Detection Summary

Figure 1 - Site Plan

Figure 2 - 1st Quarter Bedrock Groundwater Contours

Figure 3 - 2nd Quarter Bedrock Groundwater Contours

Figure 4 - 3rd Quarter Bedrock Groundwater Contours

Figure 5 - 4th Quarter Bedrock Groundwater Contours

Figure 6 – O-Chlorotoluene in Influent Groundwater

Attachment A – Completed IE/EC Forms

Attachment B – 2011 Annual Groundwater Analytical Test Report



TABLES

Table 1 – Summary of Groundwater Elevations - 2011

Table 2 – Detection Summary - 2011

Table 1
Chem-Trol Site
Summary of Groundwater Elevation Measurements - 2011

	1Q		2Q		3Q		4Q	
Well	3/28/2011		6/2/2011		9/15/2011		12/30/2011	
OW-1FR	609.23		609.79		606.00		610.07	
P97-5	608.96		609.45		606.01		609.69	
MW10S	609.85		610.16	dry	609.20	dry	610.50	
MW10R	609.28		609.77		606.16		609.89	
P97-4	609.08		609.61		605.98		610.00	
MW 13R	608.91		609.31		606.05		n/a (2)	
MW 8S	610.54		611.23		610.79		610.03	
MW 8R	609.32		609.85		606.29		610.68	
P97 - 3	609.26		609.87		605.88		610.14	
MW 9RD	609.35		612.11		611.88		612.08	
MW 9R	609.03		610.16		605.85		610.92	
MW 9S	612.71		610.82		609.41	dry	612.59	
P97 - 2	611.27		611.71		609.08		611.02	
P97 - 1	612.77		613.02		611.25		612.82	
MW 12R	614.33		614.25		610.95		613.27	
MW 12S	616.89		616.82		611.77	dry	615.66	
MW14R	613.44		613.53		612.74		618.55	
OW-2FR	609.36		610.16		605.87		610.35	
MW 4S	623.56		624.17		621.80	dry	623.48	
MW 4R	608.99		609.57		604.23		609.82	
P4S	621.45		621.38		620.59		621.27	
MW 3S	620.42		620.59		618.93		620.39	
P - 3R	619.36		619.35		619.33		618.65	
P - 3S	620.36		620.37		619.49		620.04	
OW - 3R	614.89		615.23		613.90		615.10	
P-5S	628.66		628.11		623.94	dry	626.85	dry
P-5R	618.69		619.05		616.11		618.44	
MW-5S	625.07		625.88		622.38		627.51	
P-2R	642.92		628.11		633.01		641.76	
P2-S	637.93		619.05		635.01		638.17	
MW-2S	638.50		625.88		635.44		638.48	
MW-6S	631.01		642.47		626.49		630.74	
MW 6R	621.06		638.08		619.03		620.72	
P-1S	637.62		638.42		634.48		637.67	
MW 1R	638.14		637.98		635.05		640.06	
MW 1S	640.10		640.11		635.58		640.13	
MW 7S	638.58		637.97		633.43		635.55	
MW 7R	637.68		631.25		634.68		637.53	

TABLE 2

Detection Summary

Client Sample ID: DUP

Lab Sample ID: 480-11588-1

No Detections

Client Sample ID: MW-13R

Lab Sample ID: 480-11588-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroethane	37		25		ug/L	5		8260B	Total/NA
o-Chlorotoluene - DL	820		50		ug/L	10		8260B	Total/NA

Client Sample ID: MW-15R

Lab Sample ID: 480-11588-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	7.5		5.0		ug/L	1		8260B	Total/NA
Cyclohexane	48		5.0		ug/L	1		8260B	Total/NA
Ethylbenzene	8.3		5.0		ug/L	1		8260B	Total/NA
Methylcyclohexane	27		5.0		ug/L	1		8260B	Total/NA
Xylenes, Total	45		15		ug/L	1		8260B	Total/NA

Client Sample ID: MW-3S

Lab Sample ID: 480-11588-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Chlorotoluene - DL	67000		4000		ug/L	800		8260B	Total/NA

Client Sample ID: MW-7R

Lab Sample ID: 480-11588-5

No Detections

Client Sample ID: MW-8R

Lab Sample ID: 480-11588-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Chlorotoluene	55		5.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-9R

Lab Sample ID: 480-11588-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	250		25		ug/L	5		8260B	Total/NA
1,1-Dichloroethane	140		25		ug/L	5		8260B	Total/NA
o-Chlorotoluene	150		25		ug/L	5		8260B	Total/NA
Carbon tetrachloride	31		25		ug/L	5		8260B	Total/NA
Chloroethane	35		25		ug/L	5		8260B	Total/NA

Client Sample ID: TB

Lab Sample ID: 480-11588-8

No Detections

FIGURES

Figure 1 – Site Plan

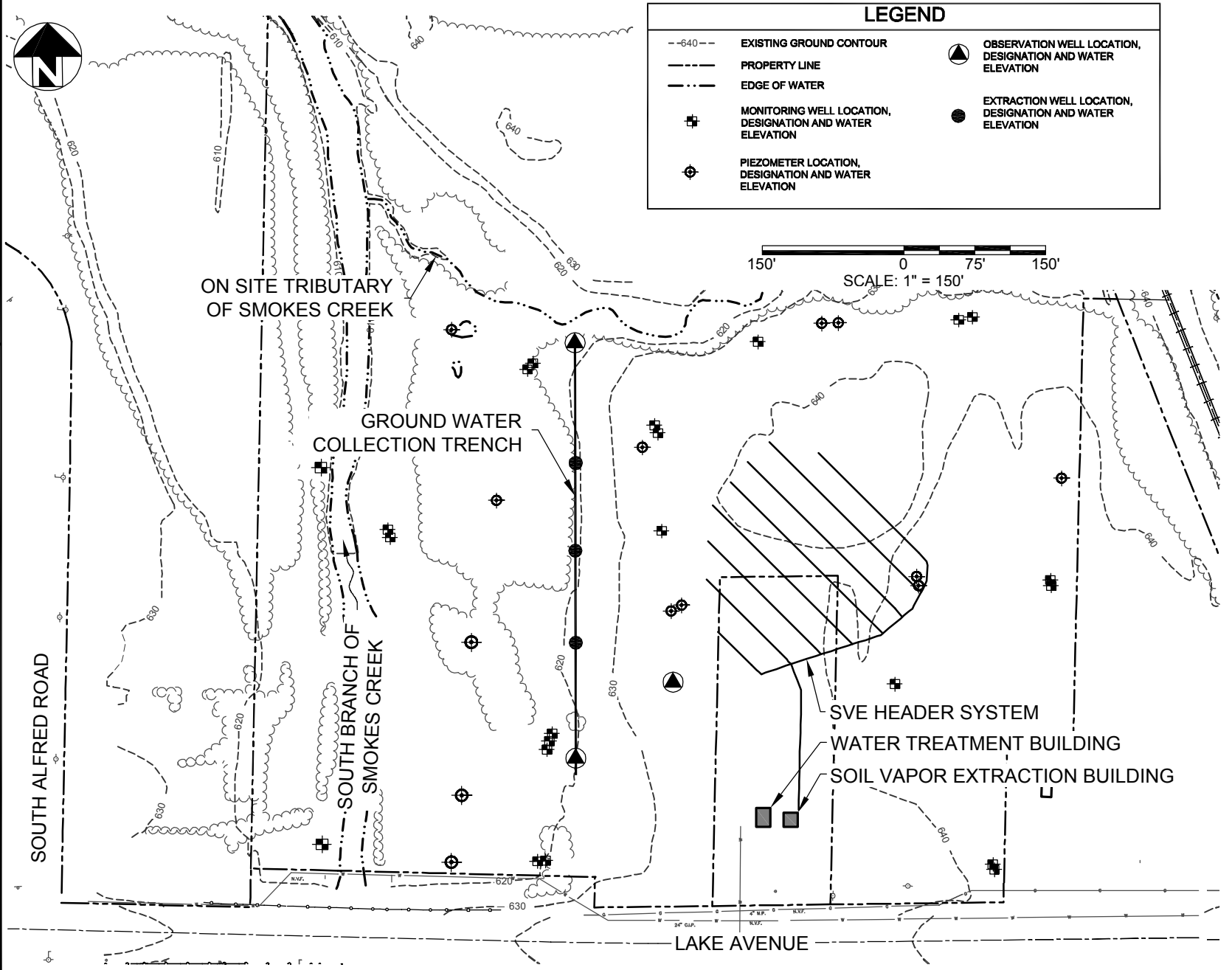
Figure 2 – 1st Quarter Bedrock Groundwater Contours

Figure 3 – 2nd Quarter Bedrock Groundwater Contours

Figure 4 – 3rd Quarter Bedrock Groundwater Contours

Figure 5 – 4th Quarter Bedrock Groundwater Contours

Figure 6 – O-Chlorotoluene in Influent Groundwater



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 FAX: (716) 834-8934

CHEM-TROL
 ERIE COUNTY
 NEW YORK

SITE PLAN
 DWG. NO. 94022-035
 FIGURE 1



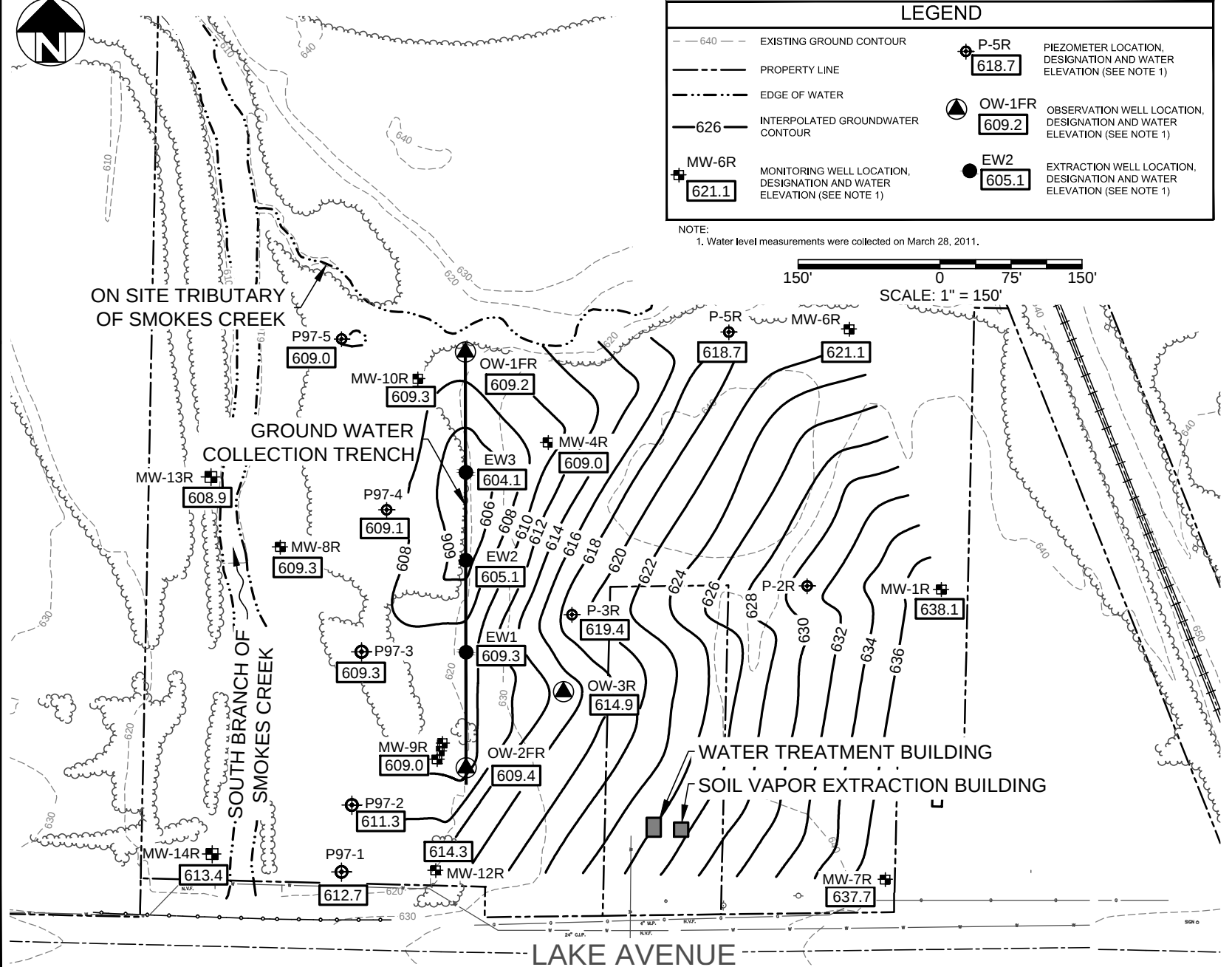
McMahon & Mann
Consulting Engineers, P.C.
2499 MAIN STREET, SUITE 432
BUFFALO, NY 14214
(716) 834-8932
FAX: (716) 834-8934

CHEM-TROL - 1st QUARTER
MARCH 28, 2011
ERIE COUNTY
NEW YORK

BEDROCK GROUNDWATER
CONTOURS

DWG. NO. 94022-048

FIGURE 2





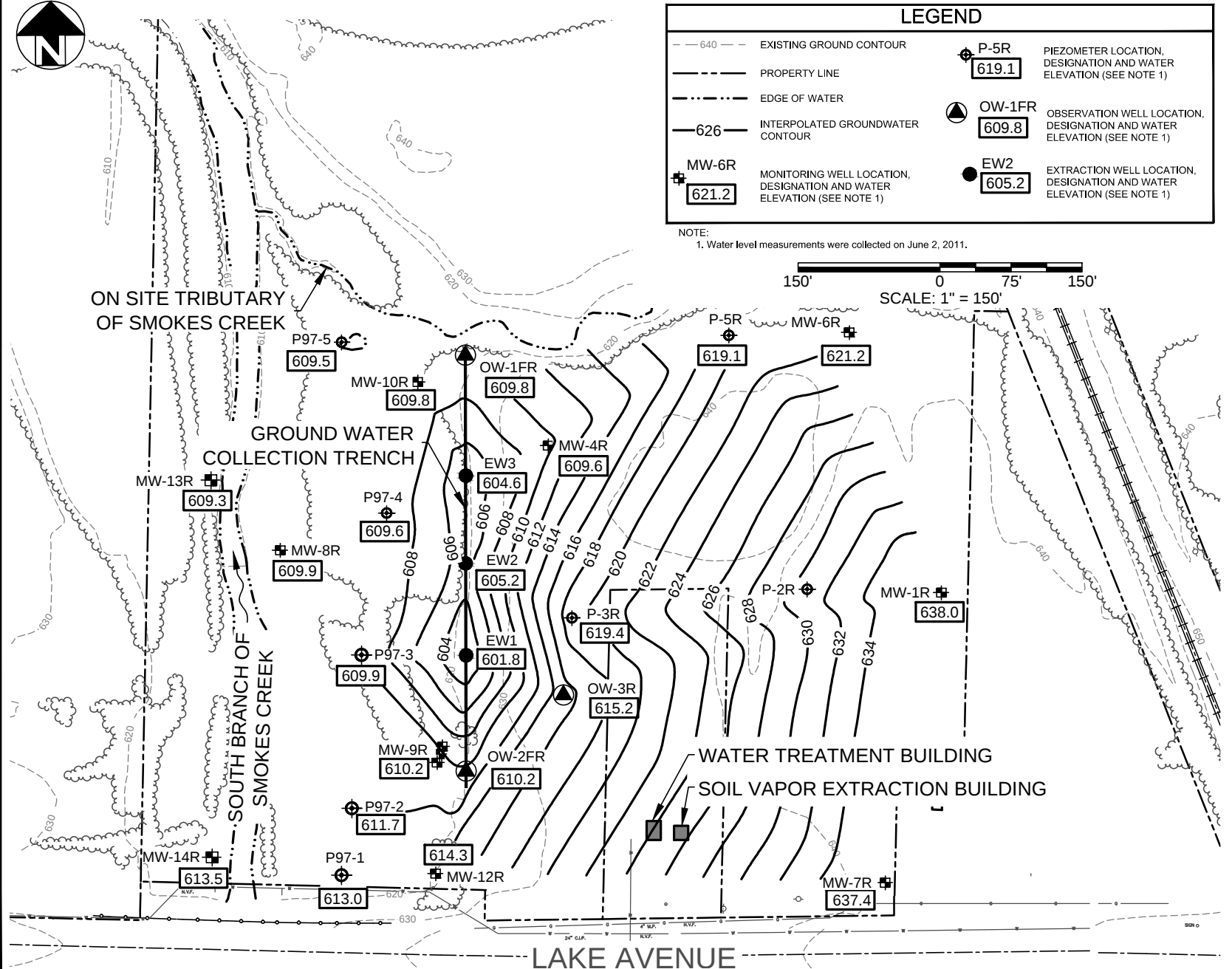
McMahon & Mann
Consulting Engineers, P.C.
2499 MAIN STREET, SUITE 432
BUFFALO, NY 14214
(716) 834-8932
FAX: (716) 834-8934

CHEM-TROL - 2nd QUARTER
JUNE 2, 2011
ERIE COUNTY
NEW YORK

BEDROCK GROUNDWATER
CONTOURS

DWG. NO. 94022-049

FIGURE 3





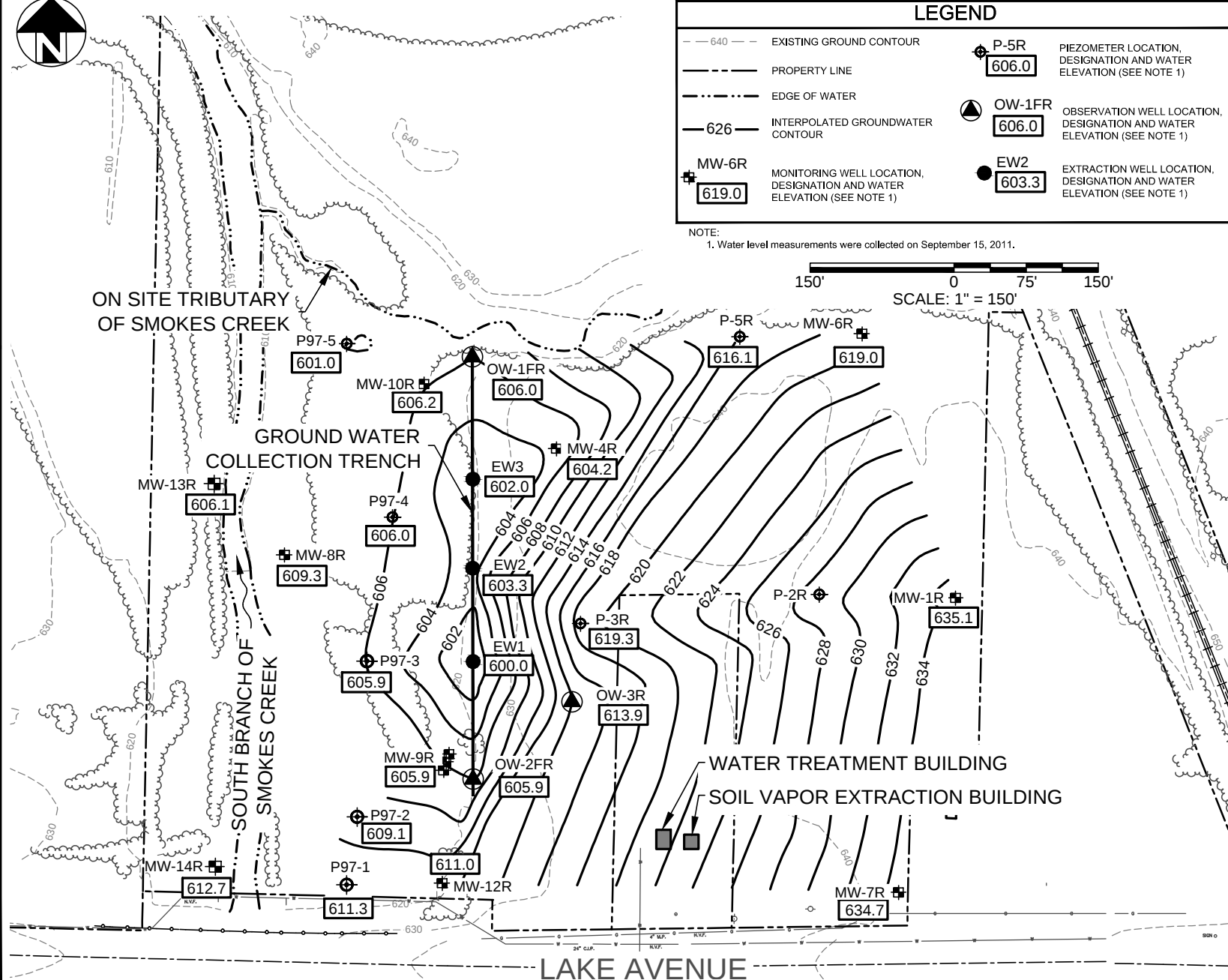
McMahon & Mann
Consulting Engineers, P.C.
2499 MAIN STREET, SUITE 432
BUFFALO, NY 14214
(716) 834-8932
FAX: (716) 834-8934

CHEM-TROL - 3rd QUARTER
SEPTEMBER 15, 2011
ERIE COUNTY
NEW YORK

BEDROCK GROUNDWATER
CONTOURS

DWG. NO. 94022-050

FIGURE 4





McMahon & Mann
Consulting Engineers, P.C.
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BUFFALO, NY 14214
(716) 834-8932
FAX: (716) 834-8934

CHEM-TROL - 4th QUARTER
DECEMBER 30, 2011
ERIE COUNTY
NEW YORK

BEDROCK GROUNDWATER
CONTOURS

DWG. NO. 94022-051

FIGURE 5

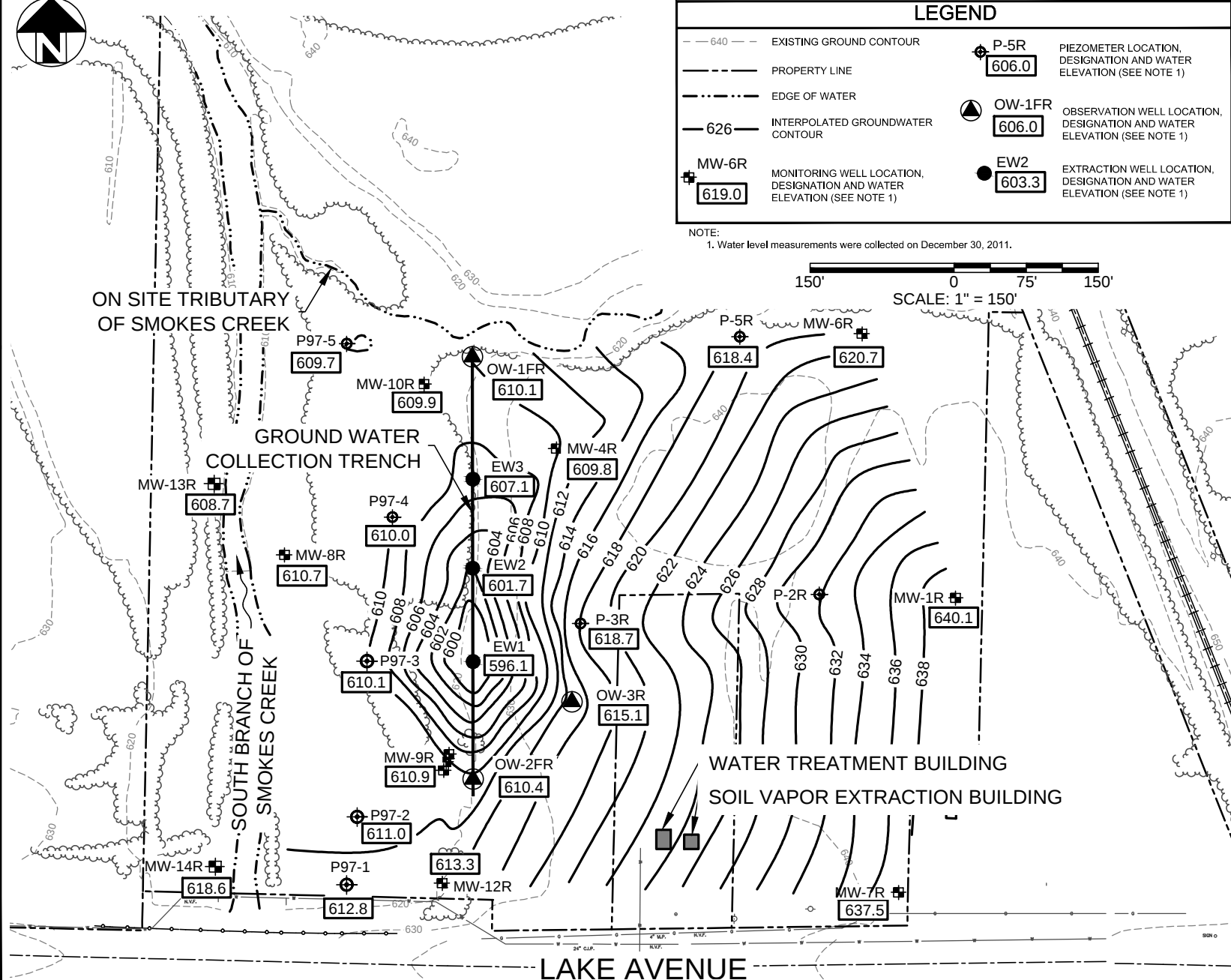
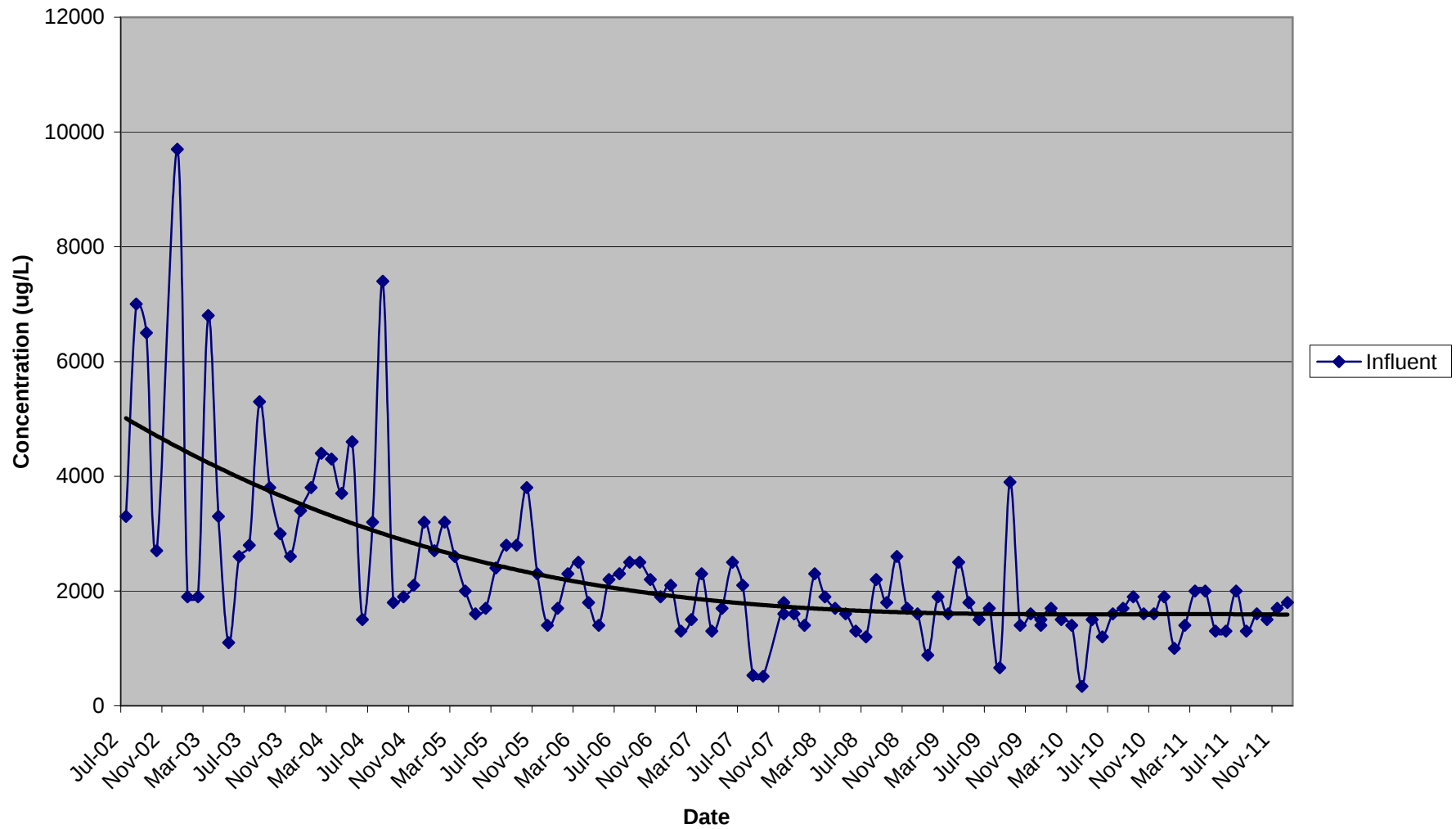


FIGURE 6

Chem-Trol Groundwater Treatment System
Influent o-Chlorotoluene Concentration
2002-2011



ATTACHMENT A
Completed IE/EC Forms



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, 2011 to February 15, 2012

- | | 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

Description of Institutional Controls

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

Description of Engineering Controls

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

Engineering Control Details for Site No. 915015**Parcel: 151.02-1-14.1**

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 as of 2/10).

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.

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.

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 complete.

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

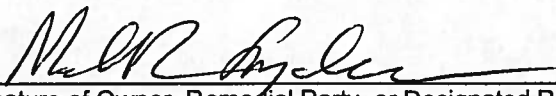
SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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 Mark R. Snyder at 425 Perinton Parkway, Fairport NY 14450
print name print business address

am certifying as Owner (Owner or Remedial Party)

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



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

March 12, 2012
Date

IC/EC CERTIFICATIONS

Box 7

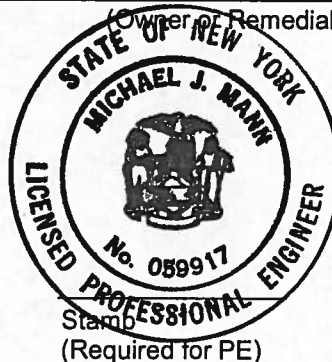
Professional Engineer Signature

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 MICHAEL J. MANN at 2495 MAIN ST. SUITE 432 BUFFALO NY 14214
print name print business address

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

Michael J. Mann
Signature of Professional Engineer, for the Owner or
Remedial Party, Rendering Certification



3/13/12
Date

ATTACHMENT B

2011 Annual Groundwater Analytical Test Report

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-11588-1

Client Project/Site: ChemTrol Site

Sampling Event: Semiannual Groundwater

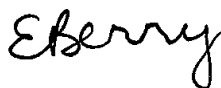
For:

Waste Management

425 Perinton Parkway

Fairport, New York 14450

Attn: Mr. Mark Snyder



Authorized for release by:

11/02/2011 03:12:19 PM

Eve Berry

Project Administrator

eve.berry@testamericainc.com

Designee for

Ryan VanDette

Project Manager I

ryan.vandette@testamericainc.com

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC and 2009 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.

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Definitions/Glossary

Client: Waste Management
Project/Site: ChemTrol Site

TestAmerica Job ID: 480-11588-1

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
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Waste Management
Project/Site: ChemTrol Site

TestAmerica Job ID: 480-11588-1

Job ID: 480-11588-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-11588-1

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

Method(s) 8260B: The following samples were diluted due to the abundance of target analytes: MW-13R (480-11588-2), MW-3S (480-11588-4), MW-9R (480-11588-7). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Detection Summary

Client: Waste Management
Project/Site: ChemTrol Site

TestAmerica Job ID: 480-11588-1

Client Sample ID: DUP

Lab Sample ID: 480-11588-1

No Detections

Client Sample ID: MW-13R

Lab Sample ID: 480-11588-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroethane	37		25		ug/L	5		8260B	Total/NA
o-Chlorotoluene - DL	820		50		ug/L	10		8260B	Total/NA

Client Sample ID: MW-15R

Lab Sample ID: 480-11588-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	7.5		5.0		ug/L	1		8260B	Total/NA
Cyclohexane	48		5.0		ug/L	1		8260B	Total/NA
Ethylbenzene	8.3		5.0		ug/L	1		8260B	Total/NA
Methylcyclohexane	27		5.0		ug/L	1		8260B	Total/NA
Xylenes, Total	45		15		ug/L	1		8260B	Total/NA

Client Sample ID: MW-3S

Lab Sample ID: 480-11588-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Chlorotoluene - DL	67000		4000		ug/L	800		8260B	Total/NA

Client Sample ID: MW-7R

Lab Sample ID: 480-11588-5

No Detections

Client Sample ID: MW-8R

Lab Sample ID: 480-11588-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Chlorotoluene	55		5.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-9R

Lab Sample ID: 480-11588-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	250		25		ug/L	5		8260B	Total/NA
1,1-Dichloroethane	140		25		ug/L	5		8260B	Total/NA
o-Chlorotoluene	150		25		ug/L	5		8260B	Total/NA
Carbon tetrachloride	31		25		ug/L	5		8260B	Total/NA
Chloroethane	35		25		ug/L	5		8260B	Total/NA

Client Sample ID: TB

Lab Sample ID: 480-11588-8

No Detections

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site

TestAmerica Job ID: 480-11588-1

Client Sample ID: DUP

Date Collected: 10/20/11 13:50

Date Received: 10/20/11 16:30

Lab Sample ID: 480-11588-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			10/29/11 03:01	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			10/29/11 03:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/L			10/29/11 03:01	1
1,1,2-Trichloroethane	ND		5.0		ug/L			10/29/11 03:01	1
1,1-Dichloroethane	ND		5.0		ug/L			10/29/11 03:01	1
1,2,4-Trichlorobenzene	ND		5.0		ug/L			10/29/11 03:01	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/29/11 03:01	1
1,2-Dibromoethane	ND		5.0		ug/L			10/29/11 03:01	1
1,2-Dichlorobenzene	ND		5.0		ug/L			10/29/11 03:01	1
1,2-Dichloroethane	ND		5.0		ug/L			10/29/11 03:01	1
1,2-Dichloropropane	ND		5.0		ug/L			10/29/11 03:01	1
1,3-Dichlorobenzene	ND		5.0		ug/L			10/29/11 03:01	1
1,4-Dichlorobenzene	ND		5.0		ug/L			10/29/11 03:01	1
2-Butanone (MEK)	ND		25		ug/L			10/29/11 03:01	1
o-Chlorotoluene	ND		5.0		ug/L			10/29/11 03:01	1
2-Hexanone	ND		25		ug/L			10/29/11 03:01	1
4-Methyl-2-pentanone (MIBK)	ND		25		ug/L			10/29/11 03:01	1
Acetone	ND		25		ug/L			10/29/11 03:01	1
Benzene	ND		5.0		ug/L			10/29/11 03:01	1
Bromoform	ND		5.0		ug/L			10/29/11 03:01	1
Bromomethane	ND		5.0		ug/L			10/29/11 03:01	1
Carbon disulfide	ND		5.0		ug/L			10/29/11 03:01	1
Carbon tetrachloride	ND		5.0		ug/L			10/29/11 03:01	1
Chlorobenzene	ND		5.0		ug/L			10/29/11 03:01	1
Chlorodibromomethane	ND		5.0		ug/L			10/29/11 03:01	1
Chloroethane	ND		5.0		ug/L			10/29/11 03:01	1
Chloroform	ND		5.0		ug/L			10/29/11 03:01	1
Chloromethane	ND		5.0		ug/L			10/29/11 03:01	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			10/29/11 03:01	1
cis-1,3-Dichloropropene	ND		5.0		ug/L			10/29/11 03:01	1
Cyclohexane	ND		5.0		ug/L			10/29/11 03:01	1
Bromodichloromethane	ND		5.0		ug/L			10/29/11 03:01	1
Dichlorofluoromethane	ND		5.0		ug/L			10/29/11 03:01	1
Ethylbenzene	ND		5.0		ug/L			10/29/11 03:01	1
Isopropylbenzene	ND		5.0		ug/L			10/29/11 03:01	1
Methyl acetate	ND		5.0		ug/L			10/29/11 03:01	1
Methyl tert-butyl ether	ND		5.0		ug/L			10/29/11 03:01	1
Methylcyclohexane	ND		5.0		ug/L			10/29/11 03:01	1
Methylene Chloride	ND		5.0		ug/L			10/29/11 03:01	1
Styrene	ND		5.0		ug/L			10/29/11 03:01	1
Tetrachloroethene	ND		5.0		ug/L			10/29/11 03:01	1
Toluene	ND		5.0		ug/L			10/29/11 03:01	1
trans-1,2-Dichloroethene	ND		5.0		ug/L			10/29/11 03:01	1
trans-1,3-Dichloropropene	ND		5.0		ug/L			10/29/11 03:01	1
Trichloroethene	ND		5.0		ug/L			10/29/11 03:01	1
Trichlorofluoromethane	ND		5.0		ug/L			10/29/11 03:01	1
Vinyl chloride	ND		5.0		ug/L			10/29/11 03:01	1
Xylenes, Total	ND		15		ug/L			10/29/11 03:01	1

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site

TestAmerica Job ID: 480-11588-1

Client Sample ID: DUP

Date Collected: 10/20/11 13:50

Date Received: 10/20/11 16:30

Lab Sample ID: 480-11588-1

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		66 - 137		10/29/11 03:01	1
Toluene-d8 (Surr)	104		71 - 126		10/29/11 03:01	1
4-Bromofluorobenzene (Surr)	94		73 - 120		10/29/11 03:01	1

Client Sample ID: MW-13R

Date Collected: 10/20/11 13:16

Date Received: 10/20/11 16:30

Lab Sample ID: 480-11588-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		25		ug/L			10/29/11 03:25	5
1,1,2,2-Tetrachloroethane	ND		25		ug/L			10/29/11 03:25	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25		ug/L			10/29/11 03:25	5
1,1,2-Trichloroethane	ND		25		ug/L			10/29/11 03:25	5
1,1-Dichloroethane	ND		25		ug/L			10/29/11 03:25	5
1,2,4-Trichlorobenzene	ND		25		ug/L			10/29/11 03:25	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			10/29/11 03:25	5
1,2-Dibromoethane	ND		25		ug/L			10/29/11 03:25	5
1,2-Dichlorobenzene	ND		25		ug/L			10/29/11 03:25	5
1,2-Dichloroethane	ND		25		ug/L			10/29/11 03:25	5
1,2-Dichloropropane	ND		25		ug/L			10/29/11 03:25	5
1,3-Dichlorobenzene	ND		25		ug/L			10/29/11 03:25	5
1,4-Dichlorobenzene	ND		25		ug/L			10/29/11 03:25	5
2-Butanone (MEK)	ND		130		ug/L			10/29/11 03:25	5
2-Hexanone	ND		130		ug/L			10/29/11 03:25	5
4-Methyl-2-pentanone (MIBK)	ND		130		ug/L			10/29/11 03:25	5
Acetone	ND		130		ug/L			10/29/11 03:25	5
Benzene	ND		25		ug/L			10/29/11 03:25	5
Bromoform	ND		25		ug/L			10/29/11 03:25	5
Bromomethane	ND		25		ug/L			10/29/11 03:25	5
Carbon disulfide	ND		25		ug/L			10/29/11 03:25	5
Carbon tetrachloride	ND		25		ug/L			10/29/11 03:25	5
Chlorobenzene	ND		25		ug/L			10/29/11 03:25	5
Chlorodibromomethane	ND		25		ug/L			10/29/11 03:25	5
Chloroethane	37		25		ug/L			10/29/11 03:25	5
Chloroform	ND		25		ug/L			10/29/11 03:25	5
Chloromethane	ND		25		ug/L			10/29/11 03:25	5
cis-1,2-Dichloroethene	ND		25		ug/L			10/29/11 03:25	5
cis-1,3-Dichloropropene	ND		25		ug/L			10/29/11 03:25	5
Cyclohexane	ND		25		ug/L			10/29/11 03:25	5
Bromodichloromethane	ND		25		ug/L			10/29/11 03:25	5
Dichlorofluoromethane	ND		25		ug/L			10/29/11 03:25	5
Ethylbenzene	ND		25		ug/L			10/29/11 03:25	5
Isopropylbenzene	ND		25		ug/L			10/29/11 03:25	5
Methyl acetate	ND		25		ug/L			10/29/11 03:25	5
Methyl tert-butyl ether	ND		25		ug/L			10/29/11 03:25	5
Methylcyclohexane	ND		25		ug/L			10/29/11 03:25	5
Methylene Chloride	ND		25		ug/L			10/29/11 03:25	5
Styrene	ND		25		ug/L			10/29/11 03:25	5
Tetrachloroethene	ND		25		ug/L			10/29/11 03:25	5

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site

TestAmerica Job ID: 480-11588-1

Client Sample ID: MW-13R

Date Collected: 10/20/11 13:16

Date Received: 10/20/11 16:30

Lab Sample ID: 480-11588-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		25		ug/L			10/29/11 03:25	5
trans-1,2-Dichloroethene	ND		25		ug/L			10/29/11 03:25	5
trans-1,3-Dichloropropene	ND		25		ug/L			10/29/11 03:25	5
Trichloroethene	ND		25		ug/L			10/29/11 03:25	5
Trichlorofluoromethane	ND		25		ug/L			10/29/11 03:25	5
Vinyl chloride	ND		25		ug/L			10/29/11 03:25	5
Xylenes, Total	ND		75		ug/L			10/29/11 03:25	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		66 - 137					10/29/11 03:25	5
Toluene-d8 (Surr)	102		71 - 126					10/29/11 03:25	5
4-Bromofluorobenzene (Surr)	94		73 - 120					10/29/11 03:25	5

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Chlorotoluene	820		50		ug/L			10/29/11 13:17	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		66 - 137					10/29/11 13:17	10
Toluene-d8 (Surr)	103		71 - 126					10/29/11 13:17	10
4-Bromofluorobenzene (Surr)	95		73 - 120					10/29/11 13:17	10

Client Sample ID: MW-15R

Date Collected: 10/20/11 13:10

Date Received: 10/20/11 16:30

Lab Sample ID: 480-11588-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			10/29/11 03:47	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			10/29/11 03:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/L			10/29/11 03:47	1
1,1,2-Trichloroethane	ND		5.0		ug/L			10/29/11 03:47	1
1,1-Dichloroethane	ND		5.0		ug/L			10/29/11 03:47	1
1,2,4-Trichlorobenzene	ND		5.0		ug/L			10/29/11 03:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/29/11 03:47	1
1,2-Dibromoethane	ND		5.0		ug/L			10/29/11 03:47	1
1,2-Dichlorobenzene	ND		5.0		ug/L			10/29/11 03:47	1
1,2-Dichloroethane	ND		5.0		ug/L			10/29/11 03:47	1
1,2-Dichloropropane	ND		5.0		ug/L			10/29/11 03:47	1
1,3-Dichlorobenzene	ND		5.0		ug/L			10/29/11 03:47	1
1,4-Dichlorobenzene	ND		5.0		ug/L			10/29/11 03:47	1
2-Butanone (MEK)	ND		25		ug/L			10/29/11 03:47	1
o-Chlorotoluene	ND		5.0		ug/L			10/29/11 03:47	1
2-Hexanone	ND		25		ug/L			10/29/11 03:47	1
4-Methyl-2-pentanone (MIBK)	ND		25		ug/L			10/29/11 03:47	1
Acetone	ND		25		ug/L			10/29/11 03:47	1
Benzene	7.5		5.0		ug/L			10/29/11 03:47	1
Bromoform	ND		5.0		ug/L			10/29/11 03:47	1
Bromomethane	ND		5.0		ug/L			10/29/11 03:47	1
Carbon disulfide	ND		5.0		ug/L			10/29/11 03:47	1

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site

TestAmerica Job ID: 480-11588-1

Client Sample ID: MW-15R

Date Collected: 10/20/11 13:10

Date Received: 10/20/11 16:30

Lab Sample ID: 480-11588-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		5.0		ug/L			10/29/11 03:47	1
Chlorobenzene	ND		5.0		ug/L			10/29/11 03:47	1
Chlorodibromomethane	ND		5.0		ug/L			10/29/11 03:47	1
Chloroethane	ND		5.0		ug/L			10/29/11 03:47	1
Chloroform	ND		5.0		ug/L			10/29/11 03:47	1
Chloromethane	ND		5.0		ug/L			10/29/11 03:47	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			10/29/11 03:47	1
cis-1,3-Dichloropropene	ND		5.0		ug/L			10/29/11 03:47	1
Cyclohexane	48		5.0		ug/L			10/29/11 03:47	1
Bromodichloromethane	ND		5.0		ug/L			10/29/11 03:47	1
Dichlorofluoromethane	ND		5.0		ug/L			10/29/11 03:47	1
Ethylbenzene	8.3		5.0		ug/L			10/29/11 03:47	1
Isopropylbenzene	ND		5.0		ug/L			10/29/11 03:47	1
Methyl acetate	ND		5.0		ug/L			10/29/11 03:47	1
Methyl tert-butyl ether	ND		5.0		ug/L			10/29/11 03:47	1
Methylcyclohexane	27		5.0		ug/L			10/29/11 03:47	1
Methylene Chloride	ND		5.0		ug/L			10/29/11 03:47	1
Styrene	ND		5.0		ug/L			10/29/11 03:47	1
Tetrachloroethene	ND		5.0		ug/L			10/29/11 03:47	1
Toluene	ND		5.0		ug/L			10/29/11 03:47	1
trans-1,2-Dichloroethene	ND		5.0		ug/L			10/29/11 03:47	1
trans-1,3-Dichloropropene	ND		5.0		ug/L			10/29/11 03:47	1
Trichloroethene	ND		5.0		ug/L			10/29/11 03:47	1
Trichlorofluoromethane	ND		5.0		ug/L			10/29/11 03:47	1
Vinyl chloride	ND		5.0		ug/L			10/29/11 03:47	1
Xylenes, Total	45		15		ug/L			10/29/11 03:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		66 - 137					10/29/11 03:47	1
Toluene-d8 (Surr)	104		71 - 126					10/29/11 03:47	1
4-Bromofluorobenzene (Surr)	98		73 - 120					10/29/11 03:47	1

Client Sample ID: MW-3S

Date Collected: 10/20/11 14:05

Date Received: 10/20/11 16:30

Lab Sample ID: 480-11588-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2500		ug/L			10/29/11 04:11	500
1,1,2,2-Tetrachloroethane	ND		2500		ug/L			10/29/11 04:11	500
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2500		ug/L			10/29/11 04:11	500
1,1,2-Trichloroethane	ND		2500		ug/L			10/29/11 04:11	500
1,1-Dichloroethane	ND		2500		ug/L			10/29/11 04:11	500
1,2,4-Trichlorobenzene	ND		2500		ug/L			10/29/11 04:11	500
1,2-Dibromo-3-Chloropropane	ND		2500		ug/L			10/29/11 04:11	500
1,2-Dibromoethane	ND		2500		ug/L			10/29/11 04:11	500
1,2-Dichlorobenzene	ND		2500		ug/L			10/29/11 04:11	500
1,2-Dichloroethane	ND		2500		ug/L			10/29/11 04:11	500
1,2-Dichloropropane	ND		2500		ug/L			10/29/11 04:11	500
1,3-Dichlorobenzene	ND		2500		ug/L			10/29/11 04:11	500

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site

TestAmerica Job ID: 480-11588-1

Client Sample ID: MW-3S

Lab Sample ID: 480-11588-4

Date Collected: 10/20/11 14:05

Matrix: Water

Date Received: 10/20/11 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		2500		ug/L			10/29/11 04:11	500
2-Butanone (MEK)	ND		13000		ug/L			10/29/11 04:11	500
2-Hexanone	ND		13000		ug/L			10/29/11 04:11	500
4-Methyl-2-pentanone (MIBK)	ND		13000		ug/L			10/29/11 04:11	500
Acetone	ND		13000		ug/L			10/29/11 04:11	500
Benzene	ND		2500		ug/L			10/29/11 04:11	500
Bromoform	ND		2500		ug/L			10/29/11 04:11	500
Bromomethane	ND		2500		ug/L			10/29/11 04:11	500
Carbon disulfide	ND		2500		ug/L			10/29/11 04:11	500
Carbon tetrachloride	ND		2500		ug/L			10/29/11 04:11	500
Chlorobenzene	ND		2500		ug/L			10/29/11 04:11	500
Chlorodibromomethane	ND		2500		ug/L			10/29/11 04:11	500
Chloroethane	ND		2500		ug/L			10/29/11 04:11	500
Chloroform	ND		2500		ug/L			10/29/11 04:11	500
Chloromethane	ND		2500		ug/L			10/29/11 04:11	500
cis-1,2-Dichloroethene	ND		2500		ug/L			10/29/11 04:11	500
cis-1,3-Dichloropropene	ND		2500		ug/L			10/29/11 04:11	500
Cyclohexane	ND		2500		ug/L			10/29/11 04:11	500
Bromodichloromethane	ND		2500		ug/L			10/29/11 04:11	500
Dichlorofluoromethane	ND		2500		ug/L			10/29/11 04:11	500
Ethylbenzene	ND		2500		ug/L			10/29/11 04:11	500
Isopropylbenzene	ND		2500		ug/L			10/29/11 04:11	500
Methyl acetate	ND		2500		ug/L			10/29/11 04:11	500
Methyl tert-butyl ether	ND		2500		ug/L			10/29/11 04:11	500
Methylcyclohexane	ND		2500		ug/L			10/29/11 04:11	500
Methylene Chloride	ND		2500		ug/L			10/29/11 04:11	500
Styrene	ND		2500		ug/L			10/29/11 04:11	500
Tetrachloroethene	ND		2500		ug/L			10/29/11 04:11	500
Toluene	ND		2500		ug/L			10/29/11 04:11	500
trans-1,2-Dichloroethene	ND		2500		ug/L			10/29/11 04:11	500
trans-1,3-Dichloropropene	ND		2500		ug/L			10/29/11 04:11	500
Trichloroethene	ND		2500		ug/L			10/29/11 04:11	500
Trichlorofluoromethane	ND		2500		ug/L			10/29/11 04:11	500
Vinyl chloride	ND		2500		ug/L			10/29/11 04:11	500
Xylenes, Total	ND		7500		ug/L			10/29/11 04:11	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		66 - 137		10/29/11 04:11	500
Toluene-d8 (Surr)	102		71 - 126		10/29/11 04:11	500
4-Bromofluorobenzene (Surr)	94		73 - 120		10/29/11 04:11	500

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Chlorotoluene	67000		4000		ug/L			10/29/11 13:40	800

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		66 - 137		10/29/11 13:40	800
Toluene-d8 (Surr)	104		71 - 126		10/29/11 13:40	800
4-Bromofluorobenzene (Surr)	95		73 - 120		10/29/11 13:40	800

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site

TestAmerica Job ID: 480-11588-1

Client Sample ID: MW-7R

Lab Sample ID: 480-11588-5

Date Collected: 10/20/11 13:50

Matrix: Water

Date Received: 10/20/11 16:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			10/29/11 04:33	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			10/29/11 04:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/L			10/29/11 04:33	1
1,1,2-Trichloroethane	ND		5.0		ug/L			10/29/11 04:33	1
1,1-Dichloroethane	ND		5.0		ug/L			10/29/11 04:33	1
1,2,4-Trichlorobenzene	ND		5.0		ug/L			10/29/11 04:33	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/29/11 04:33	1
1,2-Dibromoethane	ND		5.0		ug/L			10/29/11 04:33	1
1,2-Dichlorobenzene	ND		5.0		ug/L			10/29/11 04:33	1
1,2-Dichloroethane	ND		5.0		ug/L			10/29/11 04:33	1
1,2-Dichloropropane	ND		5.0		ug/L			10/29/11 04:33	1
1,3-Dichlorobenzene	ND		5.0		ug/L			10/29/11 04:33	1
1,4-Dichlorobenzene	ND		5.0		ug/L			10/29/11 04:33	1
2-Butanone (MEK)	ND		25		ug/L			10/29/11 04:33	1
o-Chlorotoluene	ND		5.0		ug/L			10/29/11 04:33	1
2-Hexanone	ND		25		ug/L			10/29/11 04:33	1
4-Methyl-2-pentanone (MIBK)	ND		25		ug/L			10/29/11 04:33	1
Acetone	ND		25		ug/L			10/29/11 04:33	1
Benzene	ND		5.0		ug/L			10/29/11 04:33	1
Bromoform	ND		5.0		ug/L			10/29/11 04:33	1
Bromomethane	ND		5.0		ug/L			10/29/11 04:33	1
Carbon disulfide	ND		5.0		ug/L			10/29/11 04:33	1
Carbon tetrachloride	ND		5.0		ug/L			10/29/11 04:33	1
Chlorobenzene	ND		5.0		ug/L			10/29/11 04:33	1
Chlorodibromomethane	ND		5.0		ug/L			10/29/11 04:33	1
Chloroethane	ND		5.0		ug/L			10/29/11 04:33	1
Chloroform	ND		5.0		ug/L			10/29/11 04:33	1
Chloromethane	ND		5.0		ug/L			10/29/11 04:33	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			10/29/11 04:33	1
cis-1,3-Dichloropropene	ND		5.0		ug/L			10/29/11 04:33	1
Cyclohexane	ND		5.0		ug/L			10/29/11 04:33	1
Bromodichloromethane	ND		5.0		ug/L			10/29/11 04:33	1
Dichlorofluoromethane	ND		5.0		ug/L			10/29/11 04:33	1
Ethylbenzene	ND		5.0		ug/L			10/29/11 04:33	1
Isopropylbenzene	ND		5.0		ug/L			10/29/11 04:33	1
Methyl acetate	ND		5.0		ug/L			10/29/11 04:33	1
Methyl tert-butyl ether	ND		5.0		ug/L			10/29/11 04:33	1
Methylcyclohexane	ND		5.0		ug/L			10/29/11 04:33	1
Methylene Chloride	ND		5.0		ug/L			10/29/11 04:33	1
Styrene	ND		5.0		ug/L			10/29/11 04:33	1
Tetrachloroethene	ND		5.0		ug/L			10/29/11 04:33	1
Toluene	ND		5.0		ug/L			10/29/11 04:33	1
trans-1,2-Dichloroethene	ND		5.0		ug/L			10/29/11 04:33	1
trans-1,3-Dichloropropene	ND		5.0		ug/L			10/29/11 04:33	1
Trichloroethene	ND		5.0		ug/L			10/29/11 04:33	1
Trichlorofluoromethane	ND		5.0		ug/L			10/29/11 04:33	1
Vinyl chloride	ND		5.0		ug/L			10/29/11 04:33	1
Xylenes, Total	ND		15		ug/L			10/29/11 04:33	1

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site

TestAmerica Job ID: 480-11588-1

Client Sample ID: MW-7R

Date Collected: 10/20/11 13:50

Date Received: 10/20/11 16:30

Lab Sample ID: 480-11588-5

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		66 - 137		10/29/11 04:33	1
Toluene-d8 (Surr)	104		71 - 126		10/29/11 04:33	1
4-Bromofluorobenzene (Surr)	93		73 - 120		10/29/11 04:33	1

Client Sample ID: MW-8R

Date Collected: 10/20/11 13:30

Date Received: 10/20/11 16:30

Lab Sample ID: 480-11588-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			10/29/11 04:57	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			10/29/11 04:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/L			10/29/11 04:57	1
1,1,2-Trichloroethane	ND		5.0		ug/L			10/29/11 04:57	1
1,1-Dichloroethane	ND		5.0		ug/L			10/29/11 04:57	1
1,2,4-Trichlorobenzene	ND		5.0		ug/L			10/29/11 04:57	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/29/11 04:57	1
1,2-Dibromoethane	ND		5.0		ug/L			10/29/11 04:57	1
1,2-Dichlorobenzene	ND		5.0		ug/L			10/29/11 04:57	1
1,2-Dichloroethane	ND		5.0		ug/L			10/29/11 04:57	1
1,2-Dichloropropane	ND		5.0		ug/L			10/29/11 04:57	1
1,3-Dichlorobenzene	ND		5.0		ug/L			10/29/11 04:57	1
1,4-Dichlorobenzene	ND		5.0		ug/L			10/29/11 04:57	1
2-Butanone (MEK)	ND		25		ug/L			10/29/11 04:57	1
o-Chlorotoluene	55		5.0		ug/L			10/29/11 04:57	1
2-Hexanone	ND		25		ug/L			10/29/11 04:57	1
4-Methyl-2-pentanone (MIBK)	ND		25		ug/L			10/29/11 04:57	1
Acetone	ND		25		ug/L			10/29/11 04:57	1
Benzene	ND		5.0		ug/L			10/29/11 04:57	1
Bromoform	ND		5.0		ug/L			10/29/11 04:57	1
Bromomethane	ND		5.0		ug/L			10/29/11 04:57	1
Carbon disulfide	ND		5.0		ug/L			10/29/11 04:57	1
Carbon tetrachloride	ND		5.0		ug/L			10/29/11 04:57	1
Chlorobenzene	ND		5.0		ug/L			10/29/11 04:57	1
Chlorodibromomethane	ND		5.0		ug/L			10/29/11 04:57	1
Chloroethane	ND		5.0		ug/L			10/29/11 04:57	1
Chloroform	ND		5.0		ug/L			10/29/11 04:57	1
Chloromethane	ND		5.0		ug/L			10/29/11 04:57	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			10/29/11 04:57	1
cis-1,3-Dichloropropene	ND		5.0		ug/L			10/29/11 04:57	1
Cyclohexane	ND		5.0		ug/L			10/29/11 04:57	1
Bromodichloromethane	ND		5.0		ug/L			10/29/11 04:57	1
Dichlorofluoromethane	ND		5.0		ug/L			10/29/11 04:57	1
Ethylbenzene	ND		5.0		ug/L			10/29/11 04:57	1
Isopropylbenzene	ND		5.0		ug/L			10/29/11 04:57	1
Methyl acetate	ND		5.0		ug/L			10/29/11 04:57	1
Methyl tert-butyl ether	ND		5.0		ug/L			10/29/11 04:57	1
Methylcyclohexane	ND		5.0		ug/L			10/29/11 04:57	1
Methylene Chloride	ND		5.0		ug/L			10/29/11 04:57	1
Styrene	ND		5.0		ug/L			10/29/11 04:57	1

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site

TestAmerica Job ID: 480-11588-1

Client Sample ID: MW-8R

Date Collected: 10/20/11 13:30

Date Received: 10/20/11 16:30

Lab Sample ID: 480-11588-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		5.0		ug/L			10/29/11 04:57	1
Toluene	ND		5.0		ug/L			10/29/11 04:57	1
trans-1,2-Dichloroethene	ND		5.0		ug/L			10/29/11 04:57	1
trans-1,3-Dichloropropene	ND		5.0		ug/L			10/29/11 04:57	1
Trichloroethene	ND		5.0		ug/L			10/29/11 04:57	1
Trichlorofluoromethane	ND		5.0		ug/L			10/29/11 04:57	1
Vinyl chloride	ND		5.0		ug/L			10/29/11 04:57	1
Xylenes, Total	ND		15		ug/L			10/29/11 04:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		66 - 137					10/29/11 04:57	1
Toluene-d8 (Surr)	104		71 - 126					10/29/11 04:57	1
4-Bromofluorobenzene (Surr)	94		73 - 120					10/29/11 04:57	1

Client Sample ID: MW-9R

Date Collected: 10/20/11 13:40

Date Received: 10/20/11 16:30

Lab Sample ID: 480-11588-7

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	250		25		ug/L			10/29/11 05:20	5
1,1,2,2-Tetrachloroethane	ND		25		ug/L			10/29/11 05:20	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25		ug/L			10/29/11 05:20	5
1,1,2-Trichloroethane	ND		25		ug/L			10/29/11 05:20	5
1,1-Dichloroethane	140		25		ug/L			10/29/11 05:20	5
1,2,4-Trichlorobenzene	ND		25		ug/L			10/29/11 05:20	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			10/29/11 05:20	5
1,2-Dibromoethane	ND		25		ug/L			10/29/11 05:20	5
1,2-Dichlorobenzene	ND		25		ug/L			10/29/11 05:20	5
1,2-Dichloroethane	ND		25		ug/L			10/29/11 05:20	5
1,2-Dichloropropane	ND		25		ug/L			10/29/11 05:20	5
1,3-Dichlorobenzene	ND		25		ug/L			10/29/11 05:20	5
1,4-Dichlorobenzene	ND		25		ug/L			10/29/11 05:20	5
2-Butanone (MEK)	ND		130		ug/L			10/29/11 05:20	5
o-Chlorotoluene	150		25		ug/L			10/29/11 05:20	5
2-Hexanone	ND		130		ug/L			10/29/11 05:20	5
4-Methyl-2-pentanone (MIBK)	ND		130		ug/L			10/29/11 05:20	5
Acetone	ND		130		ug/L			10/29/11 05:20	5
Benzene	ND		25		ug/L			10/29/11 05:20	5
Bromoform	ND		25		ug/L			10/29/11 05:20	5
Bromomethane	ND		25		ug/L			10/29/11 05:20	5
Carbon disulfide	ND		25		ug/L			10/29/11 05:20	5
Carbon tetrachloride	31		25		ug/L			10/29/11 05:20	5
Chlorobenzene	ND		25		ug/L			10/29/11 05:20	5
Chlorodibromomethane	ND		25		ug/L			10/29/11 05:20	5
Chloroethane	35		25		ug/L			10/29/11 05:20	5
Chloroform	ND		25		ug/L			10/29/11 05:20	5
Chloromethane	ND		25		ug/L			10/29/11 05:20	5
cis-1,2-Dichloroethene	ND		25		ug/L			10/29/11 05:20	5
cis-1,3-Dichloropropene	ND		25		ug/L			10/29/11 05:20	5

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site

TestAmerica Job ID: 480-11588-1

Client Sample ID: MW-9R

Date Collected: 10/20/11 13:40

Date Received: 10/20/11 16:30

Lab Sample ID: 480-11588-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		25		ug/L			10/29/11 05:20	5
Bromodichloromethane	ND		25		ug/L			10/29/11 05:20	5
Dichlorofluoromethane	ND		25		ug/L			10/29/11 05:20	5
Ethylbenzene	ND		25		ug/L			10/29/11 05:20	5
Isopropylbenzene	ND		25		ug/L			10/29/11 05:20	5
Methyl acetate	ND		25		ug/L			10/29/11 05:20	5
Methyl tert-butyl ether	ND		25		ug/L			10/29/11 05:20	5
Methylcyclohexane	ND		25		ug/L			10/29/11 05:20	5
Methylene Chloride	ND		25		ug/L			10/29/11 05:20	5
Styrene	ND		25		ug/L			10/29/11 05:20	5
Tetrachloroethene	ND		25		ug/L			10/29/11 05:20	5
Toluene	ND		25		ug/L			10/29/11 05:20	5
trans-1,2-Dichloroethene	ND		25		ug/L			10/29/11 05:20	5
trans-1,3-Dichloropropene	ND		25		ug/L			10/29/11 05:20	5
Trichloroethene	ND		25		ug/L			10/29/11 05:20	5
Trichlorofluoromethane	ND		25		ug/L			10/29/11 05:20	5
Vinyl chloride	ND		25		ug/L			10/29/11 05:20	5
Xylenes, Total	ND		75		ug/L			10/29/11 05:20	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		66 - 137		10/29/11 05:20	5
Toluene-d8 (Surr)	104		71 - 126		10/29/11 05:20	5
4-Bromofluorobenzene (Surr)	95		73 - 120		10/29/11 05:20	5

Client Sample ID: TB

Date Collected: 10/20/11 08:00

Date Received: 10/20/11 16:30

Lab Sample ID: 480-11588-8

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			10/29/11 05:43	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			10/29/11 05:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/L			10/29/11 05:43	1
1,1,2-Trichloroethane	ND		5.0		ug/L			10/29/11 05:43	1
1,1-Dichloroethane	ND		5.0		ug/L			10/29/11 05:43	1
1,2,4-Trichlorobenzene	ND		5.0		ug/L			10/29/11 05:43	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/29/11 05:43	1
1,2-Dibromoethane	ND		5.0		ug/L			10/29/11 05:43	1
1,2-Dichlorobenzene	ND		5.0		ug/L			10/29/11 05:43	1
1,2-Dichloroethane	ND		5.0		ug/L			10/29/11 05:43	1
1,2-Dichloropropane	ND		5.0		ug/L			10/29/11 05:43	1
1,3-Dichlorobenzene	ND		5.0		ug/L			10/29/11 05:43	1
1,4-Dichlorobenzene	ND		5.0		ug/L			10/29/11 05:43	1
2-Butanone (MEK)	ND		25		ug/L			10/29/11 05:43	1
o-Chlorotoluene	ND		5.0		ug/L			10/29/11 05:43	1
2-Hexanone	ND		25		ug/L			10/29/11 05:43	1
4-Methyl-2-pentanone (MIBK)	ND		25		ug/L			10/29/11 05:43	1
Acetone	ND		25		ug/L			10/29/11 05:43	1
Benzene	ND		5.0		ug/L			10/29/11 05:43	1
Bromoform	ND		5.0		ug/L			10/29/11 05:43	1

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site

TestAmerica Job ID: 480-11588-1

Client Sample ID: TB

Lab Sample ID: 480-11588-8

Date Collected: 10/20/11 08:00

Matrix: Water

Date Received: 10/20/11 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		5.0		ug/L			10/29/11 05:43	1
Carbon disulfide	ND		5.0		ug/L			10/29/11 05:43	1
Carbon tetrachloride	ND		5.0		ug/L			10/29/11 05:43	1
Chlorobenzene	ND		5.0		ug/L			10/29/11 05:43	1
Chlorodibromomethane	ND		5.0		ug/L			10/29/11 05:43	1
Chloroethane	ND		5.0		ug/L			10/29/11 05:43	1
Chloroform	ND		5.0		ug/L			10/29/11 05:43	1
Chloromethane	ND		5.0		ug/L			10/29/11 05:43	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			10/29/11 05:43	1
cis-1,3-Dichloropropene	ND		5.0		ug/L			10/29/11 05:43	1
Cyclohexane	ND		5.0		ug/L			10/29/11 05:43	1
Bromodichloromethane	ND		5.0		ug/L			10/29/11 05:43	1
Dichlorofluoromethane	ND		5.0		ug/L			10/29/11 05:43	1
Ethylbenzene	ND		5.0		ug/L			10/29/11 05:43	1
Isopropylbenzene	ND		5.0		ug/L			10/29/11 05:43	1
Methyl acetate	ND		5.0		ug/L			10/29/11 05:43	1
Methyl tert-butyl ether	ND		5.0		ug/L			10/29/11 05:43	1
Methylcyclohexane	ND		5.0		ug/L			10/29/11 05:43	1
Methylene Chloride	ND		5.0		ug/L			10/29/11 05:43	1
Styrene	ND		5.0		ug/L			10/29/11 05:43	1
Tetrachloroethene	ND		5.0		ug/L			10/29/11 05:43	1
Toluene	ND		5.0		ug/L			10/29/11 05:43	1
trans-1,2-Dichloroethene	ND		5.0		ug/L			10/29/11 05:43	1
trans-1,3-Dichloropropene	ND		5.0		ug/L			10/29/11 05:43	1
Trichloroethene	ND		5.0		ug/L			10/29/11 05:43	1
Trichlorofluoromethane	ND		5.0		ug/L			10/29/11 05:43	1
Vinyl chloride	ND		5.0		ug/L			10/29/11 05:43	1
Xylenes, Total	ND		15		ug/L			10/29/11 05:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		66 - 137					10/29/11 05:43	1
Toluene-d8 (Surr)	101		71 - 126					10/29/11 05:43	1
4-Bromofluorobenzene (Surr)	91		73 - 120					10/29/11 05:43	1

QC Sample Results

Client: Waste Management
Project/Site: ChemTrol Site

TestAmerica Job ID: 480-11588-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-37964/5

Matrix: Water

Analysis Batch: 37964

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			10/28/11 23:11	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			10/28/11 23:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/L			10/28/11 23:11	1
1,1,2-Trichloroethane	ND		5.0		ug/L			10/28/11 23:11	1
1,1-Dichloroethane	ND		5.0		ug/L			10/28/11 23:11	1
1,2,4-Trichlorobenzene	ND		5.0		ug/L			10/28/11 23:11	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/28/11 23:11	1
1,2-Dibromoethane	ND		5.0		ug/L			10/28/11 23:11	1
1,2-Dichlorobenzene	ND		5.0		ug/L			10/28/11 23:11	1
1,2-Dichloroethane	ND		5.0		ug/L			10/28/11 23:11	1
1,2-Dichloropropane	ND		5.0		ug/L			10/28/11 23:11	1
1,3-Dichlorobenzene	ND		5.0		ug/L			10/28/11 23:11	1
1,4-Dichlorobenzene	ND		5.0		ug/L			10/28/11 23:11	1
2-Butanone (MEK)	ND		25		ug/L			10/28/11 23:11	1
o-Chlorotoluene	ND		5.0		ug/L			10/28/11 23:11	1
2-Hexanone	ND		25		ug/L			10/28/11 23:11	1
4-Methyl-2-pentanone (MIBK)	ND		25		ug/L			10/28/11 23:11	1
Acetone	ND		25		ug/L			10/28/11 23:11	1
Benzene	ND		5.0		ug/L			10/28/11 23:11	1
Bromoform	ND		5.0		ug/L			10/28/11 23:11	1
Bromomethane	ND		5.0		ug/L			10/28/11 23:11	1
Carbon disulfide	ND		5.0		ug/L			10/28/11 23:11	1
Carbon tetrachloride	ND		5.0		ug/L			10/28/11 23:11	1
Chlorobenzene	ND		5.0		ug/L			10/28/11 23:11	1
Chlorodibromomethane	ND		5.0		ug/L			10/28/11 23:11	1
Chloroethane	ND		5.0		ug/L			10/28/11 23:11	1
Chloroform	ND		5.0		ug/L			10/28/11 23:11	1
Chloromethane	ND		5.0		ug/L			10/28/11 23:11	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			10/28/11 23:11	1
cis-1,3-Dichloropropene	ND		5.0		ug/L			10/28/11 23:11	1
Cyclohexane	ND		5.0		ug/L			10/28/11 23:11	1
Bromodichloromethane	ND		5.0		ug/L			10/28/11 23:11	1
Dichlorofluoromethane	ND		5.0		ug/L			10/28/11 23:11	1
Ethylbenzene	ND		5.0		ug/L			10/28/11 23:11	1
Isopropylbenzene	ND		5.0		ug/L			10/28/11 23:11	1
Methyl acetate	ND		5.0		ug/L			10/28/11 23:11	1
Methyl tert-butyl ether	ND		5.0		ug/L			10/28/11 23:11	1
Methylcyclohexane	ND		5.0		ug/L			10/28/11 23:11	1
Methylene Chloride	ND		5.0		ug/L			10/28/11 23:11	1
Styrene	ND		5.0		ug/L			10/28/11 23:11	1
Tetrachloroethene	ND		5.0		ug/L			10/28/11 23:11	1
Toluene	ND		5.0		ug/L			10/28/11 23:11	1
trans-1,2-Dichloroethene	ND		5.0		ug/L			10/28/11 23:11	1
trans-1,3-Dichloropropene	ND		5.0		ug/L			10/28/11 23:11	1
Trichloroethene	ND		5.0		ug/L			10/28/11 23:11	1
Trichlorofluoromethane	ND		5.0		ug/L			10/28/11 23:11	1
Vinyl chloride	ND		5.0		ug/L			10/28/11 23:11	1
Xylenes, Total	ND		15		ug/L			10/28/11 23:11	1

QC Sample Results

Client: Waste Management
Project/Site: ChemTrol Site

TestAmerica Job ID: 480-11588-1

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

Lab Sample ID: MB 480-37964/5

Matrix: Water

Analysis Batch: 37964

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		66 - 137		10/28/11 23:11	1
Toluene-d8 (Surr)	104		71 - 126		10/28/11 23:11	1
4-Bromofluorobenzene (Surr)	94		73 - 120		10/28/11 23:11	1

Lab Sample ID: LCS 480-37964/4

Matrix: Water

Analysis Batch: 37964

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	21.9		ug/L		88	71 - 129
1,2-Dichlorobenzene	25.0	23.3		ug/L		93	77 - 120
1,2-Dichloroethane	25.0	22.6		ug/L		90	75 - 127
Benzene	25.0	23.0		ug/L		92	71 - 124
Chlorobenzene	25.0	23.3		ug/L		93	72 - 120
cis-1,2-Dichloroethene	25.0	22.7		ug/L		91	74 - 124
Ethylbenzene	25.0	23.1		ug/L		92	77 - 123
Methyl tert-butyl ether	25.0	20.9		ug/L		84	64 - 127
Tetrachloroethene	25.0	23.1		ug/L		92	74 - 122
Toluene	25.0	23.1		ug/L		92	70 - 122
trans-1,2-Dichloroethene	25.0	22.2		ug/L		89	73 - 127
Trichloroethene	25.0	22.7		ug/L		91	74 - 123

Surrogate	LCS % Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		66 - 137
Toluene-d8 (Surr)	104		71 - 126
4-Bromofluorobenzene (Surr)	100		73 - 120

Lab Sample ID: MB 480-38008/5

Matrix: Water

Analysis Batch: 38008

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			10/29/11 12:40	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			10/29/11 12:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/L			10/29/11 12:40	1
1,1,2-Trichloroethane	ND		5.0		ug/L			10/29/11 12:40	1
1,1-Dichloroethane	ND		5.0		ug/L			10/29/11 12:40	1
1,2,4-Trichlorobenzene	ND		5.0		ug/L			10/29/11 12:40	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/29/11 12:40	1
1,2-Dibromoethane	ND		5.0		ug/L			10/29/11 12:40	1
1,2-Dichlorobenzene	ND		5.0		ug/L			10/29/11 12:40	1
1,2-Dichloroethane	ND		5.0		ug/L			10/29/11 12:40	1
1,2-Dichloropropane	ND		5.0		ug/L			10/29/11 12:40	1
1,3-Dichlorobenzene	ND		5.0		ug/L			10/29/11 12:40	1
1,4-Dichlorobenzene	ND		5.0		ug/L			10/29/11 12:40	1
2-Butanone (MEK)	ND		25		ug/L			10/29/11 12:40	1
o-Chlorotoluene	ND		5.0		ug/L			10/29/11 12:40	1
2-Hexanone	ND		25		ug/L			10/29/11 12:40	1
4-Methyl-2-pentanone (MIBK)	ND		25		ug/L			10/29/11 12:40	1

QC Sample Results

Client: Waste Management
Project/Site: ChemTrol Site

TestAmerica Job ID: 480-11588-1

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

Lab Sample ID: MB 480-38008/5

Matrix: Water

Analysis Batch: 38008

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25		ug/L			10/29/11 12:40	1
Benzene	ND		5.0		ug/L			10/29/11 12:40	1
Bromoform	ND		5.0		ug/L			10/29/11 12:40	1
Bromomethane	ND		5.0		ug/L			10/29/11 12:40	1
Carbon disulfide	ND		5.0		ug/L			10/29/11 12:40	1
Carbon tetrachloride	ND		5.0		ug/L			10/29/11 12:40	1
Chlorobenzene	ND		5.0		ug/L			10/29/11 12:40	1
Chlorodibromomethane	ND		5.0		ug/L			10/29/11 12:40	1
Chloroethane	ND		5.0		ug/L			10/29/11 12:40	1
Chloroform	ND		5.0		ug/L			10/29/11 12:40	1
Chloromethane	ND		5.0		ug/L			10/29/11 12:40	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			10/29/11 12:40	1
cis-1,3-Dichloropropene	ND		5.0		ug/L			10/29/11 12:40	1
Cyclohexane	ND		5.0		ug/L			10/29/11 12:40	1
Bromodichloromethane	ND		5.0		ug/L			10/29/11 12:40	1
Dichlorofluoromethane	ND		5.0		ug/L			10/29/11 12:40	1
Ethylbenzene	ND		5.0		ug/L			10/29/11 12:40	1
Isopropylbenzene	ND		5.0		ug/L			10/29/11 12:40	1
Methyl acetate	ND		5.0		ug/L			10/29/11 12:40	1
Methyl tert-butyl ether	ND		5.0		ug/L			10/29/11 12:40	1
Methylcyclohexane	ND		5.0		ug/L			10/29/11 12:40	1
Methylene Chloride	ND		5.0		ug/L			10/29/11 12:40	1
Styrene	ND		5.0		ug/L			10/29/11 12:40	1
Tetrachloroethene	ND		5.0		ug/L			10/29/11 12:40	1
Toluene	ND		5.0		ug/L			10/29/11 12:40	1
trans-1,2-Dichloroethene	ND		5.0		ug/L			10/29/11 12:40	1
trans-1,3-Dichloropropene	ND		5.0		ug/L			10/29/11 12:40	1
Trichloroethene	ND		5.0		ug/L			10/29/11 12:40	1
Trichlorofluoromethane	ND		5.0		ug/L			10/29/11 12:40	1
Vinyl chloride	ND		5.0		ug/L			10/29/11 12:40	1
Xylenes, Total	ND		15		ug/L			10/29/11 12:40	1

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		66 - 137		10/29/11 12:40	1
Toluene-d8 (Surr)	102		71 - 126		10/29/11 12:40	1
4-Bromofluorobenzene (Surr)	94		73 - 120		10/29/11 12:40	1

Lab Sample ID: LCS 480-38008/4

Matrix: Water

Analysis Batch: 38008

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	21.7		ug/L		87	71 - 129
1,2-Dichlorobenzene	25.0	23.0		ug/L		92	77 - 120
1,2-Dichloroethane	25.0	22.2		ug/L		89	75 - 127
Benzene	25.0	22.9		ug/L		92	71 - 124
Chlorobenzene	25.0	23.1		ug/L		92	72 - 120
cis-1,2-Dichloroethene	25.0	22.6		ug/L		90	74 - 124
Ethylbenzene	25.0	23.0		ug/L		92	77 - 123

QC Sample Results

Client: Waste Management
Project/Site: ChemTrol Site

TestAmerica Job ID: 480-11588-1

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

Lab Sample ID: LCS 480-38008/4

Matrix: Water

Analysis Batch: 38008

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	% Rec. Limits
Methyl tert-butyl ether	25.0	20.3		ug/L		81	64 - 127
Tetrachloroethene	25.0	22.9		ug/L		92	74 - 122
Toluene	25.0	22.8		ug/L		91	70 - 122
trans-1,2-Dichloroethene	25.0	21.9		ug/L		88	73 - 127
Trichloroethene	25.0	22.3		ug/L		89	74 - 123

Surrogate	LCS % Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		66 - 137
Toluene-d8 (Surr)	106		71 - 126
4-Bromofluorobenzene (Surr)	101		73 - 120

Certification Summary

Client: Waste Management
Project/Site: ChemTrol Site

TestAmerica Job ID: 480-11588-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas	State Program	6	88-0686
TestAmerica Buffalo	California	NELAC	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAC	4	E87672
TestAmerica Buffalo	Georgia	Georgia EPD	4	N/A
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Illinois	NELAC	5	100325 / 200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAC	7	E-10187
TestAmerica Buffalo	Kentucky	Kentucky UST	4	30
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Louisiana	NELAC	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY0044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAC	1	2337
TestAmerica Buffalo	New Hampshire	NELAC	1	68-00281
TestAmerica Buffalo	New Jersey	NELAC	2	NY455
TestAmerica Buffalo	New York	NELAC	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAC	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAC	6	T104704412-08-TX
TestAmerica Buffalo	USDA	USDA		P330-08-00242
TestAmerica Buffalo	Virginia	NELAC Secondary AB	3	460185
TestAmerica Buffalo	Virginia	State Program	3	278
TestAmerica Buffalo	Washington	State Program	10	C1677
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: Waste Management
Project/Site: ChemTrol Site

TestAmerica Job ID: 480-11588-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL BUF

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Waste Management
Project/Site: ChemTrol Site

TestAmerica Job ID: 480-11588-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-11588-1	DUP	Water	10/20/11 13:50	10/20/11 16:30
480-11588-2	MW-13R	Water	10/20/11 13:16	10/20/11 16:30
480-11588-3	MW-15R	Water	10/20/11 13:10	10/20/11 16:30
480-11588-4	MW-3S	Water	10/20/11 14:05	10/20/11 16:30
480-11588-5	MW-7R	Water	10/20/11 13:50	10/20/11 16:30
480-11588-6	MW-8R	Water	10/20/11 13:30	10/20/11 16:30
480-11588-7	MW-9R	Water	10/20/11 13:40	10/20/11 16:30
480-11588-8	TB	Water	10/20/11 08:00	10/20/11 16:30

Chain of Custody Record

Client Information Client Contact: John Stadler, Chris Krystofik Phone: 716-691-2600 Fax: 716-691-7981		Lab #1: VanDette, Ryan Lab #2: Mark Snyder		Carrier Tracking No(s): 480-17517-4273.1	
Company: Waste Management Address: 425 Perfection Parkway City: Fairport State, Zip: NY, 14450 Phone: 585-223-6922(Tel) 716-286-7554(Fax) Email: msnyder@wvm.com		Due Date Requested: TAT Requested (days): PO #: Purchase Order not required WO #: Project #: 480102447 SSOR #: Project Name: ChemTrol Site/NY22 Event Desc: Semiannual Groundwater Site: New Hampshire		Analysis Requested Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Acetic Acid H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: Preservation Codes: M - Hexamine N - None O - Ascorbic P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Diacetylhydrazide U - Acetone V - MCAA W - pH 4.5 Z - Other (specify)	
Sample Identification Sample ID: DUP Matrix: Water Sample Type (C-Comp, G-Grab): G Sample Time: 1350 Sample Date: 10/20/11 Preservation Code: A		Field Filtered Sample (Yes or No): Yes 6200B (MOD) Local Method: A		Total Number of Containers: 3 Special Instructions/Notes: Taken at MW-7R	
Sample ID: MW-13R Matrix: Water Sample Type (C-Comp, G-Grab): G Sample Time: 1316 Sample Date: 10/20/11 Preservation Code: A		Field Filtered Sample (Yes or No): Yes 6200B (MOD) Local Method: A		Total Number of Containers: 3 Special Instructions/Notes: Taken at MW-7R	
Sample ID: MW-15R Matrix: Water Sample Type (C-Comp, G-Grab): G Sample Time: 1316 Sample Date: 10/20/11 Preservation Code: A		Field Filtered Sample (Yes or No): Yes 6200B (MOD) Local Method: A		Total Number of Containers: 3 Special Instructions/Notes: Taken at MW-7R	
Sample ID: MW-3S Matrix: Water Sample Type (C-Comp, G-Grab): G Sample Time: 1405 Sample Date: 10/20/11 Preservation Code: A		Field Filtered Sample (Yes or No): Yes 6200B (MOD) Local Method: A		Total Number of Containers: 3 Special Instructions/Notes: Taken at MW-7R	
Sample ID: MW-7R Matrix: Water Sample Type (C-Comp, G-Grab): G Sample Time: 1350 Sample Date: 10/20/11 Preservation Code: A		Field Filtered Sample (Yes or No): Yes 6200B (MOD) Local Method: A		Total Number of Containers: 3 Special Instructions/Notes: Taken at MW-7R	
Sample ID: MW-8R Matrix: Water Sample Type (C-Comp, G-Grab): G Sample Time: 1330 Sample Date: 10/20/11 Preservation Code: A		Field Filtered Sample (Yes or No): Yes 6200B (MOD) Local Method: A		Total Number of Containers: 3 Special Instructions/Notes: Taken at MW-7R	
Sample ID: MW-9R Matrix: Water Sample Type (C-Comp, G-Grab): G Sample Time: 1340 Sample Date: 10/20/11 Preservation Code: A		Field Filtered Sample (Yes or No): Yes 6200B (MOD) Local Method: A		Total Number of Containers: 3 Special Instructions/Notes: Taken at MW-7R	
Sample ID: TB Matrix: Water Sample Type (C-Comp, G-Grab): G Sample Time: 0800 Sample Date: 10/20/11 Preservation Code: A		Field Filtered Sample (Yes or No): Yes 6200B (MOD) Local Method: A		Total Number of Containers: 2 Special Instructions/Notes: Taken at MW-7R	
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological					
Deliverable Requested: I, II, III, IV, Other (specify)					
Empty Kit Returned by: John Stadler Requested by: TAL Date/Time: 10-20-11/1630 Returned by: TAL Date/Time: 10-20-11/1630 Retransmitted by: TAL Date/Time: 10-20-11/1630					
Custody Seal Intact: Yes Custody Seal No: 5.4					