

2016 PERIODIC REVIEW REPORT (PRR) FORMER SCM – CORTLANDVILLE 839 NYS ROUTE 13 CORTLANDVILLE, NEW YORK 13045 SITE NO.: 712006

Prepared For:
New York State Department of Environmental Conservation
625 Broadway, BURE
Albany, New York 12233

Owner:
Cortland Commerce Center, LLC.
Attn: Mr. David Yaman
839 NYS Route 13
Cortland, New York 13045

Prepared By: GeoLogic NY, Inc. 37 Copeland Avenue P.O. Box 350 Homer, New York 13077

January 2017

GeoLogic Project No. 210087



TABLE OF CONTENTS

1	INTR	RODUCTION	1
	1.1	Summary of Site	1
2	SITE	OVERVIEW	1
	2.1	Site Location and Description	1
	2.2	Site History	2
	2.3	Nature and Extent of Contamination	2
	2.4	Chronology of Site Remediation Activities	2
	2.5	Cleanup and Site Closure Criteria	4
3	INST	TITUTIONAL AND ENGINEERING CONTROLS	4
	3.1	Summary of Institutional Controls (IC's)	4
	3.2	Summary of Engineering Controls (EC's)	4
		3.2.1 Summary of EC Operations During Reporting Period	5
4	MON	NITORING PLAN	6
	4.1	Monitoring Plan Components	6
	4.2	Summary of Monitoring Completed During Reporting Period	6
		4.2.1 Summary of Monthly Remediation System Sampling	6
		4.2.2 Summary of Annual Sampling Event	6
	4.3	Monitoring Deficiencies	7
5	DAT	A TRENDS AND REMEDIAL EFFECTIVENESS	7
	5.1	Data Summary	7
	5.2	Remediation System Data Trends	8
	5.3	Groundwater Quality Data Trends	8
	5.4	Performance and Effectiveness of the IC's/EC's	9
	5.5	Contaminant Mass Removal	10
6	REC	OMMENDATIONS	11
7	REF	ERENCES	11
8	CER	TIFICATION	12



APPENDICES:

APPENDIX A: Institutional and Engineering Controls Certification Forms and Permits

APPENDIX B: Drawings

Drawing 1: Site Location Plan

Drawing 2: Monitoring Well Locations Plan

Drawing 3: November 2016 Shallow Wells Groundwater Contours

Drawing 4: November 2016 Deep Wells Groundwater Contours

APPENDIX C: Tables

Table 1: Field Observations: 2016 Annual Groundwater Sampling Event

Table 2: Summary of Groundwater Analytical Results

Table 3: Monthly Analytical Results May 2001 – December 2016

Table 4: Comparison of TCE Concentrations in Groundwater

Table 5: Comparison of TCE Concentrations in SSD/SVE Exhaust

APPENDIX D: Charts

Charts 1 through 4: Remediation System TCE Concentrations

Charts 5 & 6: TCE Concentrations in Perimeter Shallow Wells

Charts 7 & 8: TCE Concentrations in Perimeter Deep Wells

Charts 9 &10: TCE Concentrations in Interior Shallow Wells

Charts 11 & 12: TCE Concentrations in Interior Deep Wells

Chart 13: TCE Concentrations in Monitoring Well MW-L16

Charts 14 & 15: 2012, 2013, 2014, 2015 & 2016 Recovery Well Pumping Rates and Groundwater Elevations

Chart 16: SSD/SVE Exhaust TCE Concentrations

APPENDIX E: Analytical Results from 2016 Annual Sampling Event, November and

December Monthly Sampling Events.

APPENDIX F: SSD/SVE Analytical Results from the 2016 Sampling Event.



2016 PERIODIC REVIEW REPORT FORMER SCM - CORTLANDVILLE 839 NYS ROUTE 13, CORTLANDVILLE, NEW YORK 13045 SITE NO.: 712006

1 INTRODUCTION

This report provides the basis for review and certification of the groundwater treatment system and the institutional and engineering controls (IC's/EC's) implemented at Site No. 712006. Signed Institutional and Engineering Controls Certification Forms are included in Appendix A.

The Site is currently owned by Cortland Commerce Center, LLC (CCC) and this report is prepared and submitted at the direction of CCC, consistent with the Site's remedial program as approved by the New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH). The reporting period addressed in this report is January 1, 2016 to December 31, 2016.

In June and November 2016, beaver activity blocked the pipe between the cascade and infiltration lagoons. The necessary permit was procured and the beaver and blockage were removed. A copy of the permit is included with the IC/EC Certification Forms in Appendix A.

1.1 Summary of Site

Former manufacturing activities at the Site resulted in contamination of soil and groundwater with chlorinated organic solvents, primarily trichloroethylene (TCE) and its decomposition products. In 1986, the contaminant plume was found to extend approximately 1.5 miles downgradient (north) of the Site. The potential contaminant sources identified included a 3,000-gallon aboveground storage tank (AST) that formerly contained TCE, a 20,000-gallon underground storage tank (UST) that formerly contained tramp oil and four areas of stained surface soil associated with past material handling practices. Additionally, a former tumbling area was identified within the building footprint (adjacent to monitoring well MW-L16).

Remedial measures implemented at the Site have included installing a soil vapor extraction (SVE) system and a groundwater pump and treat system. The SVE system was activated in 1990 and subsequently dismantled at an unknown date between 1996 and 1998. The groundwater remediation system is currently in operation. In June 1994, the Classification of the Site was changed from 2 to 4 (site properly closed – required continued management).

2 SITE OVERVIEW

2.1 Site Location and Description

The Site is located at 839 NYS Route 13, Town of Cortlandville, County of Cortland and State of New York (Appendix B, Drawing No. 1).



The Site is approximately 47.4 acres in size and is developed with a one-story building occupying approximately 415,000 square feet. The building is utilized for office space, warehouse storage and manufacturing. The remainder of the Site consists of employee parking areas, several small outbuildings, treated water infiltration lagoons and vacant undeveloped land.

The Site is bordered on the north by Lime Hollow Road and a predominately residential area. It is bordered on the east by NYS Route 13 and a predominately commercial area. It is bordered on the south by a cemetery and the JM Murray Center (formerly part of the Smith Corona complex). It is bordered on the west by a mixture of undeveloped land, agricultural land and some residential properties.

2.2 Site History

The Site was formerly owned and operated by Smith Corona Corporation (SCC), previously known as SCM Corporation (SCM). SCC utilized the Site for the purposes of manufacturing typewriters. Trichloroethylene was used on the Site by SCC during manufacturing processes.

In 1999, S. C. W. P., LLC (SCWP) purchased land and buildings from SCC and assumed operational responsibilities for the groundwater remediation system.

Cortland Commerce Center, LLC (CCC) purchased the Site in May of 2010 from SCWP and assumed operational responsibilities for the groundwater remediation system.

2.3 Nature and Extent of Contamination

The Site overlies the Otter Creek/Dry Creek aquifer. Town of Cortlandville municipal water wells are located approximately 2,300 feet west of the Site and the City of Cortland municipal water wells are located approximately 1.5 miles north-northeast of the Site.

In or around 1986 a plume of contaminated groundwater was detected during the investigation of an unrelated petroleum spill. This plume extended from the Site approximately 1.5 miles downgradient (generally north) toward the City of Cortland municipal well field. The contaminants in this plume were identified as (TCE) and related decomposition products.

In accordance with the 1989 Settlement Agreement, monitoring of off-site groundwater contamination has been conducted periodically by the NYSDEC, Cortland County Soil and Water Conservation District and the Cortland County Health Department.

2.4 Chronology of Site Remediation Activities

The remediation system, consisting of a recovery well, aeration tower, pipeline, rock cascade and an infiltration lagoon system, remains in place and has not been modified since its original construction.

A brief summary of the Site remediation activities undertaken over the past 25 years is presented below 1:

Page 3



- October 1986 March 1987: Use of TCE was discontinued. Various aboveground storage tanks (AST's) and underground storage tanks (UST's) containing TCE, tramp oil, fuel oil and muriatic acid were removed. Visibly contaminated soil encountered during the tank work was also removed. In addition, four areas of stained soil related to past material handling practices were excavated and disposed of off-site.
- January 1989: The Settlement Agreement for remediation of the Site was signed between the NYSDEC, other parties, and SCC on January 12, 1989.
- September December 1989: Approval of the remediation Phase I design was obtained from the NYSDEC on September 22, 1989. Phase I consisted of investigation, design, construction and installation of a groundwater recovery well. The groundwater recovery well came on-line on December 29, 1989. The water from the recovery well was utilized for non-contact cooling purposes and discharged into an existing sewer line until the Phase II system could be completed.
- May 1990: Approval of the remediation Phase II design was obtained from the NYSDEC on May 29, 1990. Phase II included installation of a (SVE) system and groundwater remediation system. The groundwater remediation system consisted of an air stripping column (aeration tower), distribution piping (water from recovery well to the air stripper and from the air stripper to the rock cascade and infiltration lagoons), a rock cascade and engineered infiltration lagoons.
- August 1990: The SVE system came on-line.
- October 1990: The groundwater remediation system came on-line.
- 1996-1998: At an unknown date, the SVE system was shutdown and decommissioned. GeoLogic has not located or reviewed documentation related to the shutdown of the SVE system.
- 1997-1998: At an unknown date, the well monitoring frequency was reduced to annual. GeoLogic has not located or reviewed documentation related to the modification of the sampling frequency.
- April 1999: SCWP purchased the SCC land and buildings and assumed operational responsibilities for the groundwater remediation system.
- May 2001: With the permission of the NYSDEC, the stripping tower blower was turned off. The influent TCE concentration had reduced to the point that the tower was able to reduce TCE levels adequately to meet discharge limits without forced airflow. Sampling frequency of the tower influent, tower discharge and outfall cascade was increased from quarterly to monthly.
- December 2008: a former tumbling area was identified within the building footprint and a groundwater monitoring well (MW-L16) was installed in this area.

Periodic Review Report - 2016 Former SCM - Cortlandville, Site No.: 712006

January 2017 Page 4



- May 2010: CCC purchased the SCWP land and buildings and assumed operational responsibilities for the groundwater remediation system.
- January 2012: A sub-slab depressurization/SVE system was energized in the former tumbling area located adjacent to monitoring well MW-L16.

2.5 Cleanup and Site Closure Criteria

The site-wide groundwater cleanup criteria for the Site are the New York State Class GA groundwater quality standards. Currently, the standard for TCE is $5 \mu g/L$.

All Site wells are required to be monitored a minimum of annually until all wells meet the clean-up criteria. When all wells meet the clean-up criteria, the remediation system may be shut down.

Groundwater monitoring will continue for a period of five years after the remedial system is shut down. If at any time during the post-remediation monitoring period any of the samples exceed the site-wide clean-up criteria, the system will be restarted. For the first two years, post-remediation monitoring will occur quarterly, then semi-annual for the next two years and finally once in the fifth year. If the remedial system must be restarted for any reason, the five year post shut-down monitoring program will be restarted once the site-wide cleanup criteria has been re-achieved.

3 INSTITUTIONAL AND ENGINEERING CONTROLS

Signed Institutional and Engineering Controls Certification Forms are included in Appendix A.

3.1 Summary of Institutional Controls (IC's)

No IC's are identified in the Settlement Agreement or Record of Decision.

3.2 Summary of Engineering Controls (EC's)

The EC's implemented at the Site are described below:

 A groundwater remediation system consisting of an air stripping column (aeration tower), distribution piping (water from recovery well to the aeration tower and from the aeration tower to the infiltration lagoons) and an engineered rock cascade and infiltration lagoons has been operating at the Site since 1990.

Periodic monitoring of system performance is performed. The system must continue to operate until groundwater quality meets the clean-up criteria for the Site. It should also be noted that although not required to be operated at present, the blowers (primary and back up) for the air stripper must remain in place and in good working order.



3.2.1 Summary of EC Operations During Reporting Period

Site Monitoring & Groundwater Treatment System

The groundwater remediation system has operated without major breakdown during this reporting period. The pumping rate was checked during monthly sampling events and the average flow rate for the year was 568 gallons per minute (gpm), which is less than the design standard of 700 to 1,000 gpm². Routine maintenance has been performed on system components on an asneeded basis. Charts 14 and 15, located in Appendix D, depict a comparison of recovery well groundwater elevations and pumping rates for 2012, 2013, 2014, 2015 and 2016.

Both the primary and back-up blowers were energized and determined to be operational on December 13, 2016.

During the annual sampling event, all wells (except MW-2D), were in good working order and able to be sampled. MW-2D remains blocked at a depth of 50 feet. It is likely that large gravel entered the well when it was originally damaged and that the gravel has become lodged in the well casing. Quarterly monitoring of well MW-10D continues to supplement the monitoring of conditions at the down gradient property boundary.

Sub-Slab Depressurization (SSD)/Soil Vapor Extraction (SVE) System

The sub-slab depressurization (SSD)/soil vapor extraction (SVE) system, installed in the vicinity of the former tumbling pit, has operated without major breakdown during this reporting period. The system consists of a single extraction point (well MW-L16) connected at a Gast Model R6P350A regenerative blower that extracts 218 cubic feet per minute (cfm) of vapor from under and around the former tumbling pit. Routine maintenance has been performed on system components on an as-needed basis.

A sample of the system emissions was obtained on November 15, 2016. The TCE concentration was reported at 2,200 $\mu g/m^3$. This is over an 87% decline from the initial concentration of 18,000 $\mu g/m^3$ detected in the sample collected on January 10, 2012. The analytical results demonstrate that the system has been and remains effective in removing residual contamination from under and around the former tumbling pit. Table 5 and Chart 16, located in Appendix C and Appendix D respectively; depict the TCE concentrations observed in the SSD/SVE exhaust samples collected since the system was energized in January 2012. The SSD/SVE analytical results are included in Appendix F.



4 MONITORING PLAN

4.1 Monitoring Plan Components

Monitoring at the Site consists of monthly sampling of the groundwater remediation system, quarterly monitoring of MW-10D and annual sampling of seventeen (17) groundwater monitoring wells (locations depicted on Drawing No. 2, Appendix B). Sampling event data trends and supporting charts are discussed in Section 5.

4.2 Summary of Monitoring Completed During Reporting Period

The following sampling events have taken place during this reporting period:

- Annual Sampling of Groundwater Monitoring Wells (11/14/2016 11/15/2016):
 - Interior Shallow Wells: MW-6, MW-7, MW-8, MW-11 and MW-12S;
 - Interior Deep Wells: MW-9 and MW-12D;
 - Perimeter Shallow Wells: MW-5S, MW-1S, MW-10S, MW-2S and MW-4S;
 - Perimeter Deep Wells: MW-4D, MW-5D, MW-1D and MW-10D;
 - Facility Well: MW-L16 (installed in 2008);
 - Quarterly Monitoring of MW-10D (February 2016, May 2016 and August 2016, plus November 2016 annual sampling).
- Monthly Groundwater Remediation System (36 total samples in 2016):
 - Treatment System Influent (12 samples in 2016);
 - Tower Discharge (12 samples in 2016);
 - Cascade Outfall (12 samples in 2016).

All groundwater samples were submitted for analysis to Life Science Laboratories, Inc., LSL Central Lab located at 5854 Butternut Drive, East Syracuse, New York. The groundwater samples were analyzed for specific Volatile Organic Compounds (VOC's) (1,1,1-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethene, Trichloroethene, Tetrachloroethene and Vinyl Chloride) utilizing EPA Method 8260B.

4.2.1 Summary of Monthly Remediation System Sampling

Each month samples are collected at the Tower Influent, Tower Discharge and Cascade Outfall. The pumping rate is also recorded during each monthly sampling event. Samples are submitted for laboratory analysis, results are reviewed and monitoring reports are submitted to the NYSDEC and NYSDOH after each monthly sampling event.

4.2.2 Summary of Annual Sampling Event

The depth to groundwater was measured in each of the seventeen (17) monitoring wells prior to collecting groundwater samples during the November 14 and November 15, 2016 annual sampling event. Based on recorded water levels,

Page 7



shallow and deep groundwater contour maps were prepared (Drawing No. 3 and No. 4, Appendix B). Generally, the groundwater flow under non-pumping conditions for the Site is to the north-northwest. The recovery well continues to depress the water table sufficiently to influence groundwater flow at the Site.

The field observations, including water levels, for the 2016 annual sampling event are summarized in Table 1, located in Appendix C.

Groundwater samples are submitted for laboratory analysis, results are reviewed and the results are detailed in the annual PRR for the Site. The laboratory reports for the 2016 Annual Sampling event and the monthly monitoring results (for November and December 2016) are included in Appendix E.

The results for the 2016 annual sampling event have been up-loaded to the NYSDEC EQuIS database.

4.3 Monitoring Deficiencies

During the annual sampling event (November 14 and November 15, 2016), the following deficiencies were noted:

 Monitoring well MW-2D was unable to be sampled due to blockage within the well at a depth of approximately 50 feet.

5 DATA TRENDS AND REMEDIAL EFFECTIVENESS

5.1 Data Summary

Data from the annual groundwater sampling event and monthly remediation system sampling events are summarized in the following tables and charts and are included in Appendix C and Appendix D.

- APPENDIX C: Tables
 - Table 1: Groundwater Sampling Field Observations;
 - Table 2: Summary of Groundwater Analytical Results;
 - Table 3: Monthly Analytical Results May 2001 December 2016;
 - Table 4: Comparison of TCE Concentrations in Groundwater.

APPENDIX D: Charts

- Charts 1 through 4: Remediation System TCE Concentrations;
- Charts 5 & 6: TCE Concentrations in Perimeter Shallow Wells:
- Charts 7 & 8: TCE Concentrations in Perimeter Deep Wells;
- Charts 9 & 10: TCE Concentrations in Interior Shallow Wells;
- Charts 11 &12: TCE Concentrations in Interior Deep Wells;
- Chart 13: TCE Concentrations in MW-L16;

Page 8



- Charts 14 & 15: 2012, 2013, 2014, 2015 & 2016 Recovery Well Pumping Rates & Groundwater Elevations;
- Chart 16: SSD/SVE Exhaust TCE Concentrations.

The monitoring wells are categorized into four (4) groups (Perimeter Shallow, Perimeter Deep, Interior Shallow and Interior Deep). Charts 5 through 12 depict the TCE concentrations for both the last 10 years and 20 years for each well group (Appendix D).

Monitoring well MW-L16 was installed in December 2008 and is located inside the facility adjacent to a former tumbling pit. The data from this well is included in Table 2, located in Appendix C. Chart 13 depicts the TCE concentrations detected in groundwater samples collected from MW-L16 (Appendix D).

5.2 Remediation System Data Trends

A total of twelve monthly sampling events have taken place during this reporting period. Sampling of the remediation system consists of collecting samples from three (3) locations: Cascade Outfall, Tower Discharge and Tower Influent. Charts 1 through 3, located in Appendix D, depict the TCE concentrations for each of the three sample locations. As indicated in Charts 1, 2 and 3 the TCE concentration at each of the sample locations exhibits a continued downward trend.

The average TCE concentrations for the 2016 samples are listed below:

Tower Influent: 5.19 μg/L
Tower Discharge: 2.23 μg/L
Cascade Outfall: 0.93 μg/L

5.3 Groundwater Quality Data Trends

Groundwater quality data trends are broken-down by the four groups of monitoring wells indicated below:

Perimeter Shallow Wells (MW-1S, MW-2S, MW-4S, MW-5S and MW-10S)

Three (3) of the five (5) perimeter shallow wells revealed TCE concentrations below the cleanup objective of 5 μ g/L. Wells MW-1S and MW-10S, did not meet the cleanup objective (TCE concentrations of 10.10 μ g/L and 6.42 μ g/L respectively). The 2016 results were lower than the 2015 results for four (4) of the five (5) perimeter shallow wells. Although an increase was observed at MW-1S, all perimeter shallow wells continue to indicate a long term downward trend. Charts 5 and 6, located in Appendix D, depict 10-Year and 20-Year TCE concentrations for the perimeter shallow wells.

• Perimeter Deep Wells (MW-1D, MW-2D, MW-4D, MW-5D and MW-10D)

Four (4) of the five (5) perimeter deep wells were sampled in 2016; MW-2D could not be sampled due to a blockage. Three (3) of the four (4) perimeter deep wells revealed TCE concentrations below the cleanup objective of 5 μ g/L.



Well MW-10D did not meet the cleanup objective (TCE concentration of 7.59 μ g/L). The 2016 results for all four (4) wells were lower than last year and continue to indicate a long term downward trend. Charts 7 and 8, located in Appendix D, depict 10-Year and 20-Year TCE concentrations for the perimeter deep wells.

Interior Shallow Wells (MW-6, MW-7, MW-8, MW-11 and MW-12S)

All five (5) interior shallow wells revealed TCE concentrations below the cleanup objective of 5 μ g/L. The 2016 results for all five (5) wells were lower than last year and continue to indicate a long term downward trend. Charts 9 and 10, located in Appendix D, depict 10-Year and 20-Year TCE concentrations for the interior shallow wells.

• Interior Deep Wells (MW-9 and MW-12D)

Both of the interior deep wells revealed TCE concentrations below the cleanup objective of 5 μ g/L. The 2016 results for both wells were lower than last year and continue to indicate a long term downward trend. Charts 11 and 12, located in Appendix D, depict 10-Year and 20-Year TCE Concentrations for the interior deep wells.

Table No. 4, located in Appendix C, compares the highest TCE concentration detected in each of the monitoring wells to the TCE concentration detected during the 2016 annual groundwater sampling event. The TCE concentrations have decreased in all of the wells at least 68%. TCE concentrations have decreased more than 85% in 11 of the 17 wells.

When comparing 2015 data to 2016 data, 16 of the 17 wells exhibited a declining TCE concentration. It is also noted that a TCE concentration above the cleanup objective, of 5 μ g/L, was only observed in 3 of the 17 wells in 2016.

Overall the TCE concentrations detected in the wells continue to indicate a decreasing trend over a 20-year span since the current groundwater treatment system was activated.

5.4 Performance and Effectiveness of the IC's/EC's

The groundwater remediation system continued to be effective in 2016 as demonstrated by the continued decreasing trend of TCE concentrations in the monitoring wells over time.

However, the observed decline in the system operating conditions continued in 2016. The average withdrawal rate for 2016 was 568 gpm, which is less than the original design standard of 700 to 1,000 gpm².

Recovery well groundwater elevations and pumping rates for 2012, 2013, 2014, 2015 and 2016 were charted to assess if lower groundwater elevations are associated with the decline in pumping rates (Charts 13 and 14, located in Appendix D). Although a correlation between seasonal variation of groundwater elevation and pumping rate is evident, it is unlikely to be the sole cause of the decline in pumping rates observed in 2016.



The groundwater recovery well came on-line on December 29, 1989 and has operated continuously for the last 27 years with only routine maintenance. It is GeoLogic's opinion that the age of the system is likely contributing to the decline in system operating conditions.

As stated in Section 5.3, contaminant concentrations have shown a declining trend over the past 20 years. This is particularly evident at the wells along Lime Hollow Road, the downgradient side of the Site (wells MW-1S & MW-1D, MW-2S & MW-2D, MW-4S & MW-4D, and MW-10S & MW-10D). In 1990, the highest yearly average concentration of TCE in these wells was observed at well cluster MW-10S & MW-10D, 76 μ g/L and 36 μ g/L respectively. Over the past three years (2014-2016), the highest yearly average concentration of TCE has been 12.40 μ g/L at MW-10S (2015) and 8.97 μ g/L at MW-10D (2015). This represents a greater than 83% decline at MW-10S and greater than 75% decline at MW-10D over the past 26 years.

Contaminant trends in the interior wells (MW-6, MW-7, MW-8, MW-9, MW-11, MW-12S and MW-12D) echo those along the downgradient boundary. The highest average TCE concentration in 1990 was 1,549 μ g/L at MW-11. Over the past three years (2014-2016), the highest average concentration has been 24.8 μ g/L at MW-12S. This represents a greater than 98% decline over the past 26 years.

Given that contaminant concentrations at the Site have declined by an average of greater than 88% over the past 26 years, the system continues to be effective at removing contamination from the subsurface.

5.5 Contaminant Mass Removal

Using the following:

- Average pumping rate = 568 gpm
- Average influent concentration of TCE = 5.19 µg/L
- Density of TCE = 1.465 g/mL

The system removal rates for 2016 are:

- Total volume of water pumped = 298,540,800 gallons in 2016.
- Total mass of TCE removed= 5.87 Kg or 12.93 lb.
- Total volume of TCE removed = 4.0 L or 1.1 gal.



6 RECOMMENDATIONS

It is recommended that the current monthly remediation system sampling, quarterly sampling of MW-10D and annual groundwater sampling be conducted for another year. In addition, an annual submission of a Periodic Review Report is thought to be adequate to document data trends at the Site

The next annual sampling event is scheduled for November 2017.

7 REFERENCES

- ¹ 2009 Periodic Review Report, February 2010, Buck Engineering, LLC.
- ² Remediation *System As-Built Report*, December 1991, O'Brien & Gere.
- ³ Focused Feasibility Study, May 1988, O'Brien & Gere.



8 CERTIFICATION

Signed Institutional and Engineering Controls Certification Forms are included in Appendix A.

We certify that to the best of our professional knowledge and belief, we meet the definition of *Environmental Professional* as defined in 312.10 of 40 CFR 312. We further certify this report to be factually presented to the best of our knowledge and belief.

Prepared by,

GeoLogic NY, Inc.

Senior Author Forrest Earl

President / Principal Hydrogeologist

Senior Reviewer

Kenneth J. Teter, P.E./K. Teter Consulting, LLC

NYS LN 081583

\\GEO-SVR1\public\PROJECTS\2010\210087-CCC\REPORT\2016 Annual PRR\Periodic Review Report for CCC 2016 Text.DOC

APPENDIX A

INSTITUTIONAL AND ENGINEERING CONTROLS CERTIFICATION FORMS
AND PERMITS



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.	712006		DOX 1
Site Name	SCM - Cortlandville		
		Zip Code: 13045	
Reporting P	eriod: January 01, 2016 t	o January 01, 2017	
			YES NO
	formation above correct?		
If NO, ir	nclude handwritten above	or on a separate sheet.	
	me or all of the site proper amendment during this R	y been sold, subdivided, merged, o eporting Period?	r undergone a
	re been any change of use YCRR 375-1.11(d))?	e at the site during this Reporting Pe	eriod
for or at	the property during this R		× -
that do		ns 2 thru 4, include documentation reviously submitted with this cert when the cert well and the cert	
			Box 2
			YES NO
6. Is the cu		vith the use(s) listed below?	X -
7. Are all I	Cs/ECs in place and funct	ioning as designed?	× -
IF		R QUESTION 6 OR 7 IS NO, sign an THE REST OF THIS FORM. Otherwi	
A Corrective	e Measures Work Plan mu	st be submitted along with this form	m to address these issues.
Signature of	Owner, Remedial Party or I	Designated Representative	Date
4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		Perilan south States sections,	

SITE NO. 712006

Description of Institutional Controls

Parcel

Owner

Institutional Control

95.00-10-01.100

David Yaman Realty Services

Site Management Plan

Decision Document (ROD), Site Management Plan (SMP).

Box 4

Description of Engineering Controls

<u>Parcel</u>

Engineering Control

95.00-10-01.100

Vapor Mitigation

Groundwater Treatment System Groundwater Containment

The ROD identified engineering controls required for OU1 (onsite). These controls include the continued operation and maintenance of the groundwater extraction & treatment system until groundwater quality meets the cleanup criteria of 5 ug/L for TCE for all wells.

The groundwater monitoring wells must be sampled at periodic intervals (currently annually). As outlined in 2001 correspondence, the groundwater extraction & treatment system may be operated without the blower component as long as effluent concentrations remain below 5 ug/L for TCE, and with monthly monitoring of the groundwater extraction & treatment system influent & effluent. The blower and a backup blower must remain in place and in working condition. The groundwater extraction system also acts as the onsite groundwater containment system, designed to eliminate contaminant migration offsite.

A Soil Vapor Extraction system was installed as part of the remedial program. The SVE was operational from August 1990 until operation was discontinued sometime after May 1994.

A sub-slab depressurization system (SSDS) is installed in portions of the main warehouse building in the area of the former Tumbling Pit. The SSDS is required to operate continuously.

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
	X □
	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. 712006

Box 6

(Owner or Remedial Party)

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.

Formet Earl at 37 Cope faw Ave Hower M. print name print blusiness address

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

am certifying as

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

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.

am certifying as a Professional Engineer for the

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

Stamp (Required for PE) Date

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

REG YEAR PERMIT #7 2016 1477

Division of Fish and Wildlife, Bureau of Wildlife, Region 7

1285 Fisher Ave., Cortland, NY 13045 P: (607) 753-3095 ext. 247

www.dec.ny.gov

NUISANCE BEAVER PERMIT

Permit to kill or harass destructive wildlife pursuant to Environmental Conservation Law 11-0521

ISSUE	O TO:			
David `	Yaman		Cortlar	nd Commerce Center
839 NY	/S Route 13			Home: (607) 756-5872
Cortlan	nd, NY 13045			
LOCAT	ION OF PRO	BLEM:		
County:	Cortland		Street/Loc:	839 NYS Route 13
Town:	Cortlandville	r.		
WMU:	7M		2 15	25 25 35 63 500
UTM E:		N:	TaxID: WaterCourse:	95.00-10-01.100
NATUR	E OF COMP	LAINT:		
Comm	ercial			
ACTION	NS AUTHORI	ZED:		
Kill by s	shooting			Kill by trapping
Disturb	/remove bear	ver dam		Set traps within 15 feet of beaver dam
Set trap	ps within 15 f	eet of beav	ver lodge	
Issue [Expirat	Date: 6/2 tion Date: 12	29/2016 /31/2016		d Pursuant to General
Failure to	o comply with t of New York S	he condition tate law. Th	AGREEMENT is of this permit may res his permit may be revoke	TO CONDITIONS ult in denial of future permits and may be considered a ged at any time.
			e enclosed conditions of	
Permitte	e:			Date:



CONDITIONS OF PERMIT

STANDARD CONDITIONS

- In executing this permit you and/or your agent(s) must obey all Federal, State and local laws, regulations, and ordinances governing such actions (e.g., off-set 330 trigger, firearms discharge, trap-setting, and trap-tagging requirements) and obtain any additional permits or authorizations as required.
- 2 This permit does not authorize you and/or your agent(s) to trespass. This permit is valid for the location owned by the person the permit is issued to or in their right-of-way only.
- 3 You and/or your agent(s) must possess on your person a copy of this permit while executing this permit.
- 4 Agents setting traps must have a NYS Trapping License, Trapper Education Certificate, or a Nuisance Wildlife Control Operator License. Agents discharging a firearm must have a NYS Hunting License, Hunter Education Certificate or certificate of safe firearms training. Landowners are exempt from these conditions on their own land.
- When removing a beaver dam, water levels above and below must be equalized by slow and partial breaching before the entire dam is removed.
- 6 All incidental captures of river otter in a closed area or outside of an open season must immediately be reported to the Regional Wildlife Office for further direction.
- This permit does not allow for the grading, filling, excavation, or permanent alteration of any NYS-regulated wetland or protected stream unless authorized.
- 8. This permit may be renewed or revoked at any time by the Department.
- 9 You and/or your agent(s) may keep/sell beaver pelts from the start of the legal trapping season until May 15. Outside of these dates beaver must be buried.

REMARKS

DEC encourages the trapping of beavers during the fall/winter beaver trapping season.



NEW YORK STATE DEPARTMENT	OF	ENVIRONMENTAL	CONSERVATION
---------------------------	----	----------------------	--------------

REG YEAR PERMIT# 2016

p.1

1477

Division of Fish and Wildlife, Bureau of Wildlife, Region 7 1285 Fisher Ave., Cortland, NY 13045 P: (607) 753-3095 ext. 247

www.dec.ny.gov

NUISANCE BEAVER PERMIT

Permit to kill or harass destructive wildlife pursuant to Environmental Conservation Law 11-0521

ISSUED TO:

David Yaman

N:

Cortland Commerce Center

839 NYS Route 13

Home: (607) 756-5872

Corlland, NY 13045

LOCATION OF PROBLEM:

County: Cortland

Street/Loc:

839 NYS Route 13

Town: Cortlandville

WMU: 7M

UTM E:

TaxID:

95.00-10-01.100

WaterCourse:

NATURE OF COMPLAINT:

Commercial

ACTIONS AUTHORIZED:

Kill by shooting

Kill by trapping

Disturb/remove beaver dam

Set traps within 15 feet of beaver dam

Set traps within 15 feet of beaver lodge

issue Date:

6/29/2016

Other Permits Issued Pursuant to General

AGREEMENT TO CONDITIONS

Issuing Agent:

Expiration Date: 12/31/2016 Permit GP-0-06-001: Article 15 Article 24 Tiffany Toukatly

Failure to comply with the conditions of this permit may result in denial of future permits and may be considered a violation of New York State law. This permit may be revoked at any time.

I have read and fully understand the endosed conditions of this permit

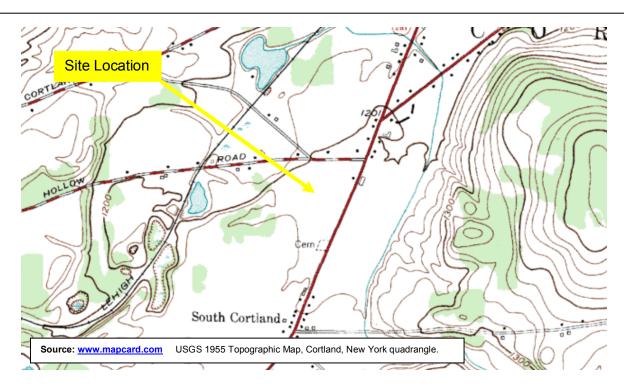
Permittee:

Date: 47/1/16

Department of Environmental Conservation

APPENDIX B

DRAWINGS





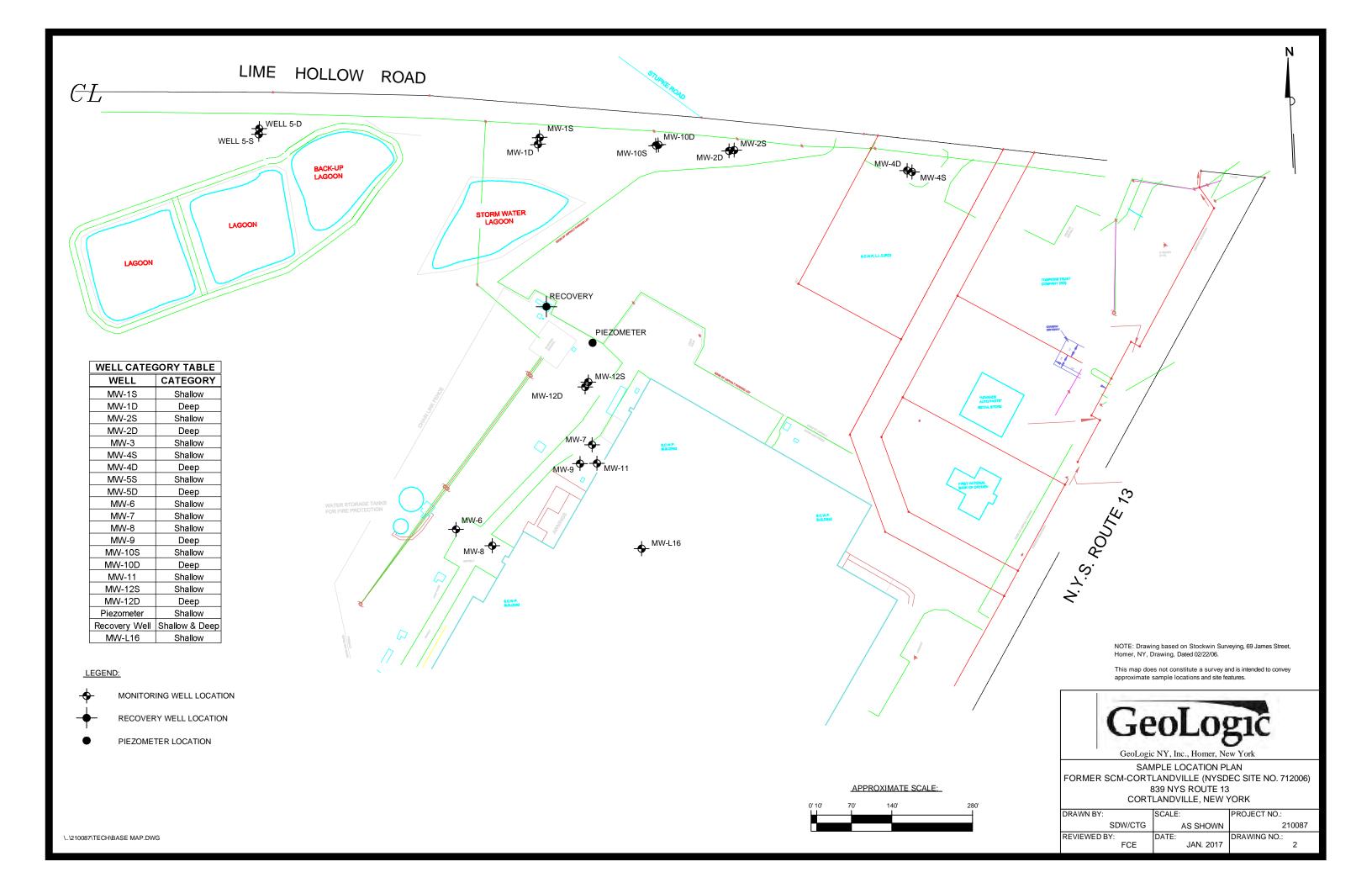


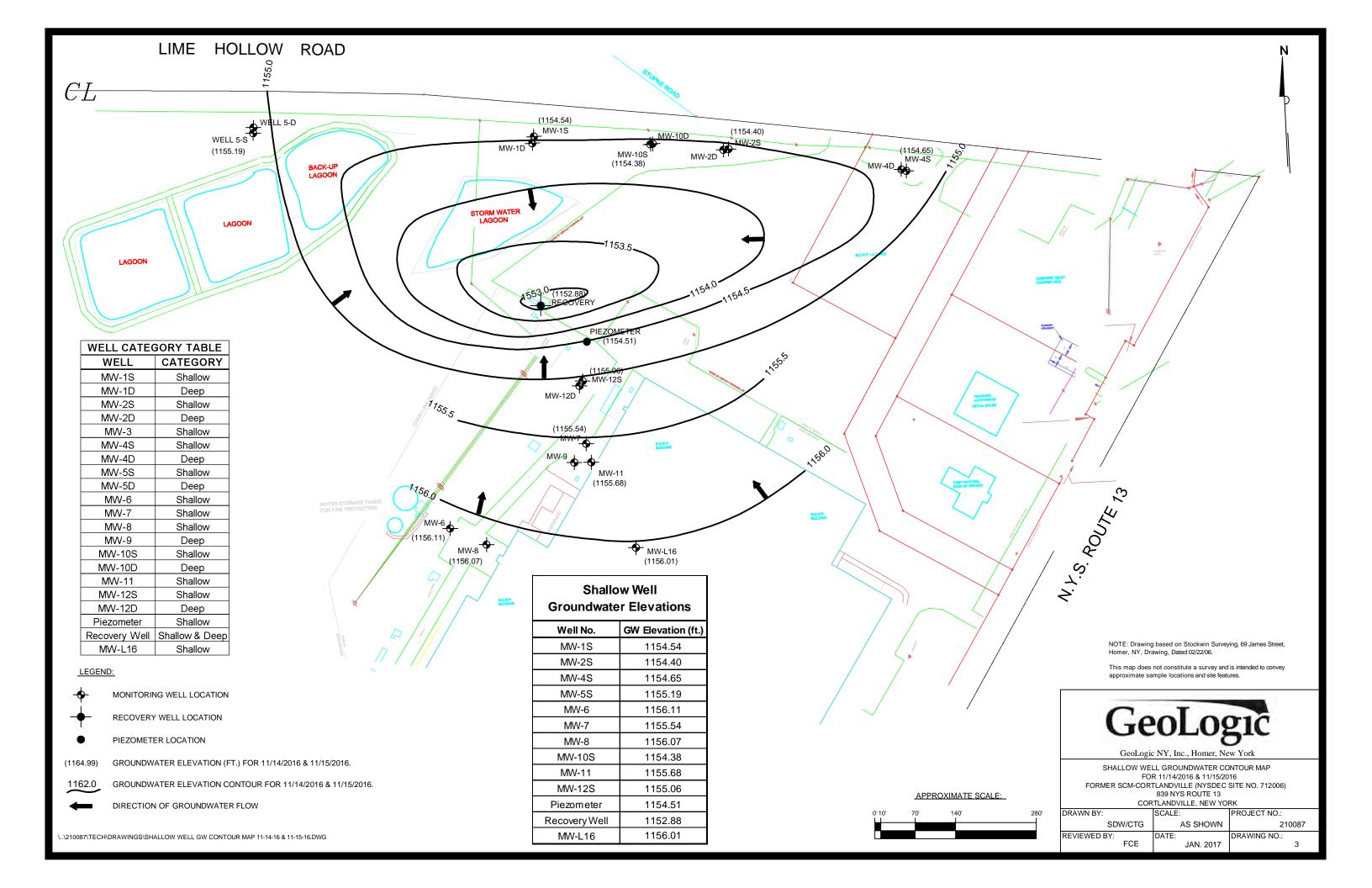
GeoLogic

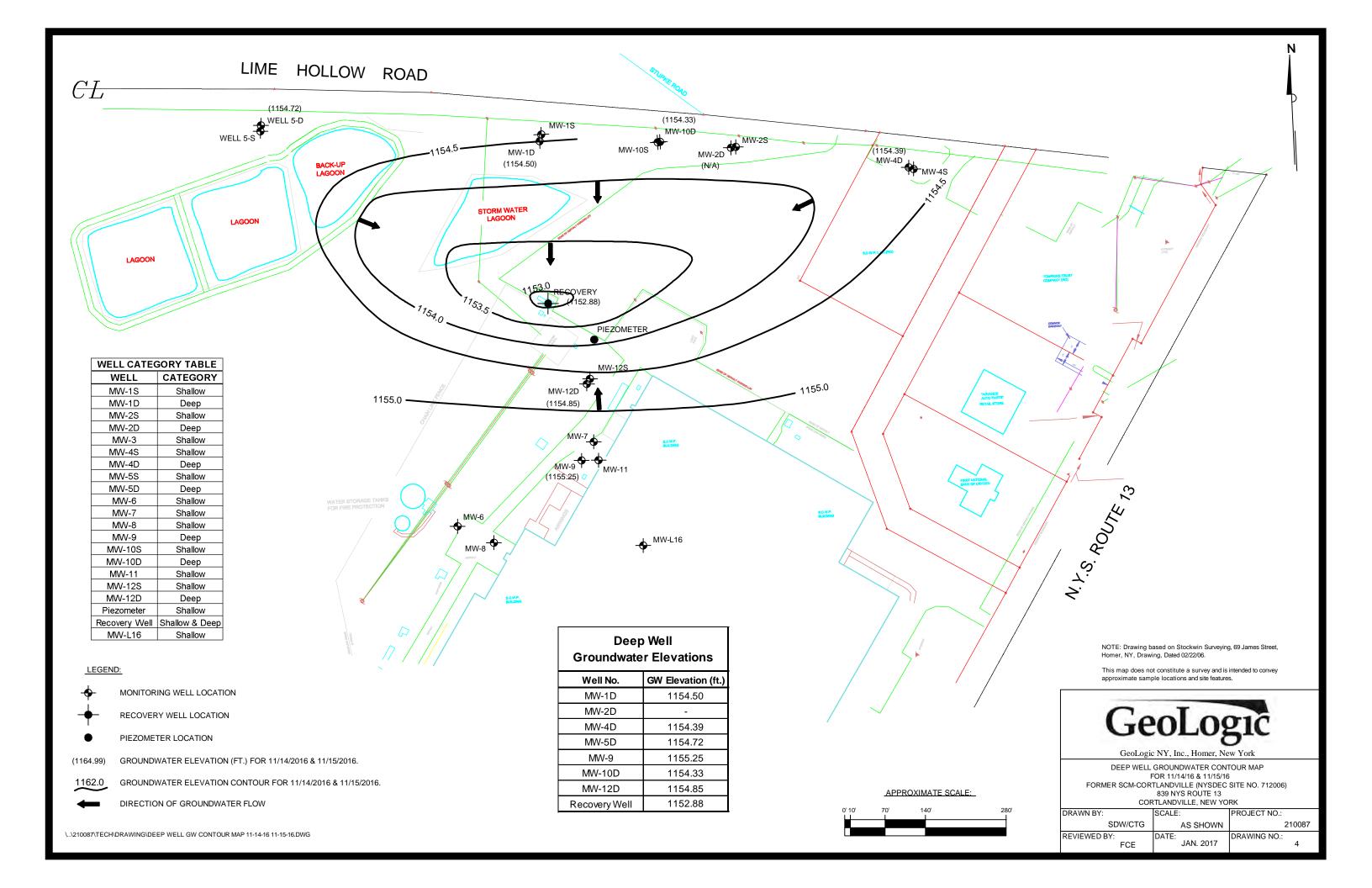
GeoLogic NY, Inc.

SITE LOCATION PLAN FORMER SCM-CORTLANDVILLE (SITE #: 712006) 839 NYS ROUTE 13 CORTLANDVILLE, NEW YORK

DRAWN BY:	SCALE:	PROJECT NO:
CTG	Not To Scale	210087
REVIEWED BY:	DATE:	DRAWING NO:
FCE	JAN. 2017	1







APPENDIX C
TABLES

TABLE 1. Field Observations: 2016 Annual Groundwater Sampling Event

Well#	CATEGORY	**TOP PVC ELEVATION	TOP PVC WATER LEVEL (FT)	GW ELEVATION	DEPTH OF WELL (FT)	VOLUME (GAL.) of WATER in WELL	APPROX. VOLUME PURGED (GAL.)	Notes
MW-1S	Shallow -Perimeter	1185.75	31.21	1154.54	39.50	1.3	4	Light brown, little sand.
MW-1D	Deep - Perimeter	1185.85	31.35	1154.50	70.50	6.3	23	Clear.
MW-2S	Shallow -Perimeter	1210.91	56.51	1154.40	70.20	2.2	7	Clear.
MW-2D	Deep - Perimeter	N/A	-	-	104.00	-	-	No sample, well damaged.
MW-4S	Shallow -Perimeter	1209.72	55.07	1154.65	73.79	3.0	10	Light brown.
MW-4D	Deep - Perimeter	1210.14	55.75	1154.39	104.23	7.8	25	Clear.
MW-5S	Shallow -Perimeter	1178.46	23.27	1155.19	40.00	2.7	8.25	Clear.
MW-5D	Deep - Perimeter	1178.86	24.14	1154.72	71.88	7.6	25	Clear.
MW-6	Shallow - Interior	1211.42	55.31	1156.11	56.50	0.2	1	Light brown.
MW-7	Shallow - Interior	1211.56	56.02	1155.54	58.75	0.4	1.5	Brown, turbid.
MW-8	Shallow - Interior	1212.76	56.69	1156.07	61.42	0.8	2.5	Light brown.
MW-9	Deep - Interior	1212.94	57.69	1155.25	100.46	6.8	23	Clear.
MW-10S	Shallow -Perimeter	1207.23	52.85	1154.38	62.00	1.5	4.75	Brown.
MW-10D	Deep - Perimeter	1207.52	53.19	1154.33	99.00	7.3	25	Clear.
MW-11	Shallow - Interior	1214.44	58.76	1155.68	59.50	0.1	0.5	Dark brown, turbid & sheen.
MW-12S	Shallow - Interior	1212.94	57.88	1155.06	62.00	0.7	2	Brown, turbid.
MW-12D	Deep - Interior	1212.80	57.95	1154.85	89.00	5.0	15	Clear.
MW-L16	Shallow	1212.99	56.98	1156.01	60.00	0.5	1.75	Brown, turbid.
Piezometer	Shallow	1212.59	58.08	1154.51		N/A	N/A	No sample, water level only.
Recovery Well	Shallow & Deep	1205.62	52.74	1152.88	94.00	N/A	N/A	No sample, water level only.

N/A = Not applicable.



Notes:

** Top of PVC elevations were determined from survey by Jim Stockwin, LS, 2006.

MW 40		Feb-9) Aug-90	Nov-90 F	eb-91 N	May-91 Aug-9	1 Nov-91	1 Feb-92	2 May-9	2 Aug-92	Nov-92	Feb-93 May-	93 Aug-93	Nov-93 Feb-9	4 Jun-94	Sep-94 Nov	/-94 Feb	-95 May-9	5 Nov-9	May-96	Nov-96	May-97	Nov-97	May-98 N	lov-98 A	lug-99	Jan-00 Nov-0	1 Nov-02	Jun-03	Nov-03	Nov-04 Dec-0	05 Sep-06	Nov-06	May-07 Nov-	07 Nov-08	Nov-09	Dec-10 Nov	-11 Nov-	2 Nov-13	Nov-14 N	ov-15 Nov-16
MW-1S	TCE TCE Yearly Ave.	<	1 47	41 32	25	17 1	19 12	2 9	9 1	3 15	2	11	26 3	13 13	7 19	13	9	11	8 1	1 5	8	10	11	15	8	7	5	6 8		6	11	6 7	4	3	2 5	4	4.20 5	.40 5.4	4.69	2.96	5.37 10.10
	Total VOC's Total VOC Yearly Ave	< e.	1 47	41 32	25	21 2	23 13	3 9	9 1	5 17	2	13	34 3	13 16	7 22	15	9	13	8 1	1 5	8	10	11	16	8	7	5	6 8 6 8		6	11 11	6 7	4	3	2 5	4	4.20 5	.40 5.	59 4.82 J	2.96	5.37 10.37 J
MW-1D	TCE	3:	2 <1	25	25	18 1	19 12	2 13	3 1	3 14	13	14	13 12	16 1	2 13	9	11	12 1	2 1:	3 7	10	7	8	7	7	8	3	3 1		2	3	5 NS	3	NS	4 5	4	2.70 4	.40 5.0	3.49	3.78	4.57 4.53
	TCE Yearly Ave. Total VOC's	3.	2 <1	21 25	25	24 2	19 24 12	9 2 13	3 1	4 16	13 15	16	16 115	14 17	3 13	10	11 13	14 1	4 1:	3 7	9 11	7	8	7	7	8	3	3 1 3 3		2	3	5	3		4 5	4			35 3.60 J		4.57 4.53
MW-2S	Total VOC Yearly Ave	Э.		21			2	1			15			16			12		14	1	9		8		7	8	3	3 3		2	3	5	3								
	TCE TCE Yearly Ave.		1 5	6 5	8	6	8 10	0 5 8	5	7 5	5 6	5	7 7	4 6	4 4	3	4	4	4 N/	4	NA 4	3	NA 3	4	NA 4	4	2	2 2		2	2	2 2	2	3	2 2	2	1.70 1	.80 1.	66 1.48	1.27	1.90 1.88
	Total VOC's Total VOC Yearly Ave	e	1 5	6 5	8	6	8 12	2 5 9	5	7 8	5 6	5	7 7	4 6	4 4	3	4	4	4 N/	A 4	NA 4	3	NA 3	4	NA 4	4	2	2 2		2	2	2 2	2	3	2 2	2	1.70 1	.80 1.	36 1.48	1.27	1.90 1.88
MW-2D	TCF	+	3 9	8	7	5	7 9	9 5	5	5 5	5	3	4 6	3	3 2	3	2	2	3 N/	A 2	NA	2	NA	1	NA	3	Damaged Damage	d Damaged		Damaged	Damaged Damag	ed NS	NS	NS I	NS NS	NS	NS	NS N	IS NS	NS	NS NS
	TCE Yearly Ave. Total VOC's			7	-	-	7 4	7	-		5	2	4 0	4	2 2	-	3	_	3 N/	3	2 NA		2 NA		1 NA	3	Damaged Damage	d Damaged		Damaged Damaged	Damaged Damag	ed									
	Total VOC Yearly Ave	э.	9	7		5	7 10	7	5	5 5	5	3	4 6	4	3 2	ь	3	- 2	3 N/	2	NA 2	- 2	NA 2		1 1		Damaged Damage			Damaged											
MW-3	TCE	<	1 <1	<1	<1	<1 <	<1 <	1 <1	1 <	:1 <1	<1	1	<1 <1	<1 <	1 4	<1	<1	<1 <	1 N/	19	NA	2	<1	8	NA	<1	<1 <			2		<1 NS	2	NS	<1 NS	NS	NS	NS N	IS NS	NS	NS NS
	TCE Yearly Ave. Total VOC's	<	1 <1	0 <1	<1	<1 <	<1 <	1 <1	1 <	:1 <1	2	1	<1 <1	0 <1 <	1 4	<1	1 <1	<1 <	1 N/	1 A 33	19 NA		1 <1	12	NA NA	<1 <1	<1 < <1 <	1 <1		3	1 .	2	5		<1						
MW-4S	Total VOC Yearly Ave			0			,	0			1			0			1)	33		1		12	<1	<1 <	1 <1		3	1	2	5								
	TCE Yearly Ave.	<		1	<1	1	2 .	1 <1	1	1 1	1	<1	1 <1	<1 N	A <1	<1	<1 0	<1	1 N/	1	NA 0		NA 0	<1	NA 0	<1 <1	<1 < <1 <			<1 <1	<1 4		<1 <1	<1	<1 <1	<1	<1	<1 0.	0.100	0.52	0.63 0.58
BAN47 475	Total VOC's Total VOC Yearly Ave	< e	1 <1	1	<1	1		1 <1	1	1 1	1	<1	1 <1	<1 N	A <1	<1	<1 0	<1	1 N/	<1	NA 0	<1	NA 0	<1	NA 0	<1 <1	<1 < <1 <	· ·		<1 <1		<1 <1 <1	<1 <1	<1	<1 <1	<1	<1	<1 0.	61 0.46 J	0.52	0.63 0.58
MW-4D	TCE	<	1 1	<1	1	<1	1	1 <1	1 <	:1 <1	<1	<1	<1 <1	<1 N	A <1	<1	<1	<1 <	1 N/	<1	NA	<1	NA	<1	NA	<1	<1 <	1 <1		<1	<1 .	<1 NS	<1	NS	<1 <1	<1	<1	<1 0.4	16 0.38 J	0.38 J	0.54 0.39
	TCE Yearly Ave. Total VOC's Total VOC Yearly Ave	<	1 1	1 <1	1	<1	1 :	1 <1	1 <	:1 <1	0 <1	<1	<1 <1	0 <1 N	A <1	<1	0 <1	<1 <	1 N/	\ <1	NA 0	<1	NA 0	<1	NA O	<1 <1	<1 < <1 <			<1 <1 <1		<1 <1	<1 <1		<1 <1	<1	<1	<1 0.	16 0.38 J	0.38 J	0.54 0.39 J
MW-5S	TOTAL VOC TEATIN AVE	s.		1			0 4	4 .4	4					- 0	14 14	-4	-1		4 1	,	NA.		0		0	×1		4 4		×1	2	4 0					-4 4	00 0	70 0.04	0.00	0.05
	TCE Yearly Ave. Total VOC's		2	2	<1	1	2 <	1 <1	1 <	(1 <1	<1 0	<1	<1 <1	0	(1 <1	<1	<1 0 <1	<1 <	1 N/	1 <1	0 NA	<1	NA 0 NA	<1	0 NA	<1	<1 < <1 <	1 1		1	2	1 2	1	1	<1 <1	<1	<1 1	.00 0.	72 0.91	0.83	0.85 0.62 0.85 0.62
MW-5D	Total VOC Yearly Ave	э.	3	2	\1		2	1		·1	0	×1	×1 ×1	0	1 1	<u> </u>	0	`	1 197)	0	7	0	\ \	0	<1	<1 <	1 2		1	2	1 2	1		<u> </u>		×1 1	.00 0.	2 0.91	0.63	0.65 0.62
WW-3D	TCE TCE Yearly Ave.		2 3	5	3	3	3	1 <1	1	1 2	1	<1	2 2	<1 <	:1 <1	<1	<1	<1	1 N/	2	NA 2	2	NA 2	<1	NA	<1	<1 <	1 1		1	2	1 NS	1	NS	<1 2	1	1.10 1	.30 1.	32 1.17	1.56	2.00 1.60
	Total VOC's Total VOC Yearly Ave	2	2 8	5	3	3	3	1 <1	1	1 2	1	<1	2 2	<1 <	:1 <1	<1	<1 0	<1	2 N/	2	NA 2	2	NA 2	<1	NA <1	<1 <1	<1 <	1 2		1	2	1	1		<1 2	1	1.10 1	.30 1.	32 1.17	1.56	2.00 1.60
MW-6	TOE	N/	A 43	35	38	62	8 N/	Δ 19	R 3	10 40	21	21	70 32	10 4	15 50	20	17	18 1	4	7 34	14	18	7	c1	10	5	11	4 14		16	20	15 NS		NS	10 6	5	35.00 8	60 2	29 6.54	5.68	8.74 2.31
	TCE Yearly Ave. Total VOC's	N/		35 35	38	62	8 N/	6	8 3	30 40	27	21	70 32	36 19	5 50	20	33	18 1	4	3 34	24	18	13 7	<1	5	5	11	4 14 4 15		16 16	20	15	8	110	10 6	5		.60 2.			8.74 2.31
MW-7	Total VOC Yearly Ave	Э.		26			27	7			27			36			33		10	3	24		13		5	5	11	4 15		16	20	15	8								
	TCE TCE Yearly Ave.	29	19	63 168	190	57 1	19 NA		1 5	7 130	130 82		67 25	18 8 58	85 60	49	49 61	45 2	3 N/	56 1	NA 56	25	NA 25	26	NA 26	24 24	24 1: 24 1:	2 4 2 4		9	5 .	19 NS 19	6	NS	8 3	2	6.40 7	.20 2.	14 3.08	2.00	4.32 4.23
	Total VOC's Total VOC Yearly Ave	29 e.	19	63 168	190	157 3	30 NA 94		5 16	250		175 1	36 25	19 13 89	153		82 114	84 2	5 N/	73	NA 73	35	NA 35	39	NA 39	31 31	30 2 30 2	3 5 3 5		13 13	5 3 5 3	30 30	8 8		8 3	2	6.40 7	.20 2.:	24 3.08	2.00	4.32 4.43 J
MW-8	TCE	7	10	48	31	110	8 3	3 31	1 3	31 48	16	12	14 18	10 6	61 11	10	12	9	8 :	3 98	6	8	2	10	3	2	2 <	1 2		3	5	3 NS	3	NS	3 5	2	41.00 2	.50 1.0	01 1.72	1.19	5.46 0.87
	TCE Yearly Ave. Total VOC's	7	10	97 48	31	110	8 3	8 3 31	1 3	1 48	32 16	12	14 18	14 10 6	61 11	10	24 12	9	8 :	98	52 6	8	5 2	10	7	2	2 <	1 2		3	5 5	3	3		3 5	2	41.00 2	.50 1.	01 1.72	1.19	5.46 0.87
MW-9	Total VOC Yearly Ave	Э.		103			38	8			32			14			24			7	52		5		7	2	2 <	1 2		3	5	3	3								
	TCE Yearly Ave.	1	5 5	10 9	4	11	3 4	4 3	3	3 4	4	4	33 8	1 12	2 24	5	9	5	5 <	1 18	2 10	1	<1 1	<1	5 3	7	5	4 5 4 5		7	17 17	6 NS	11 11	NS	5 <1	<1		<1 0.			1.72 0.69
	Total VOC's Total VOC Yearly Ave	9.	5 5	10 9	4	14	3 4	4 3 6	3	3 4	4	4	42 8	1 14	2 24	5	9	5	5 <	1 22	12	1	<1 1	<1	5 3	7	5	4 5 4 5		7	17 17	6	12 12		5 <1	<1	<1	<1 0.	36 0.54	0.78	1.72 0.69
MW-10S	TCE	7	3 110	59	63	27 3	32 50	0 44	4 17	0 40	32	26	25 37	27 2	28 31	24	15	16 1	6 2	3 17	18	13	13	15	19	16	17	9 19		10	10	10 NS	7	6	8 6	7	6.70 5	.80 6.	6.76	6.02	12.40 6.42
	TCE Yearly Ave. Total VOC's	7	3 110	76 59	110	33 4	43 14 62	2 57	7 22	28 46	72 37		32 37	29 31 3	31 31	27	16	17 1	8 2	5 18	18 20	13	13 13	17	19	16	17	9 19		10 10	10	10 11	7	6	8 6	7	6.70 5	.80 6.	33 7.10 J	6.63	13.76 6.74 J
MW-10D	Total VOC Yearly Ave	э.		76	-		0,	2			92		10	32		-	20	20	21	, ,	19	- 10	13	- 10	18	17	17	9 21		10	10	. NO	,				170	10 0		0.05	10.10
	TCE Yearly Ave.	2	33	36	33	54 3	40		0 1	0 41	30	32	19 32	25 2	21 21	22	23	30 2	24	10	13	12	15	10	15	13	11	8 7		8	5	5 NS	6		6 7	8		6.	19 6.85 67 5.90	5.40	18.40 7.59 8.97 5.95
MW-11	Total VOC's Total VOC Yearly Ave	2 e.	33	60 36	33	00 3	39 45		o 1	2 46	43 34		21 32	28 2	21	∠5	24	32 2	20	3 10	16	12	18 15	10	15	13	11	8 7		8	5	5	6		υ 7	8	4.70 5	.40 9.	75 7.02 J 77 6.02 J	5.62 J	19.70 7.80 J 9.43 6.05 J
IVIVV-11	TCE TCE Yearly Ave.	260		3400 1549	480	290 3	31 NA 267	A 50	0 42	29	<50 125	54 1	70 <50		2 <50	51	51	42 3	8 19	170	85 128			27	11 19	14 14		7 6		21		12 NS	18		8 6	6	38.00 15	.00 4.	3.60	5.01	5.80 2.93
	Total VOC's Total VOC Yearly Ave	260	44	3400 1549	480	5090 14	11 N/ 1428	440	0 63	375		344 11	70 1700	56 <50 106 804	1260	105	44 130 639	101 8	7 14			96	28 41 69	49	11	35	5 3	1 6		21 49 49	11 3	32	40		8 6	6	81.00 15	.00 5.:	28 4.14 J	5.79	7.00 3.47
MW-12S	TOF	19		120	270	190 10			6 -	50 150			50 180	100 11	0 170		88	100 N			60		11	80	22	11	59 1	0 44		62	46	27 NS	40		25 47	40	22.00 37	00 5	30 30 00	10 40	24.80 3.08
	TCE Yearly Ave. Total VOC's	19		203	270	330 13	145	5			97		83 180	145 109 1			114	100 N	62	2	71 73		47		52 23	11	59 1	0 44		62 67		27 NS 27 30	44 44 46		25 17		23.10 37				25.54 3.19 J
MW-12D	Total VOC Yearly Ave	e. 19	200	203	210	550 13	190	0		190	130	112	100	161	152	35	128	.51 N	56		83		50	102	63	11	59 1			67		30	46			12	20.10 37	3.	5 52.00	15.07	20.07 3.180
10.00-120	TCE TCE Yearly Ave.	2	1 17	23	17	12 1	12 13		0 4	15 10	9	13	11 15	8	7 16	9	5	7	6 (5 5	5	5	4	2	8	11	8 1	0		4	10	3 NS	6		4 3	2	1.70	<1 2.	36 1.51	2.71	2.50 2.05
	Total VOC's Total VOC Yearly Ave	2	1 17	23	17	14 1	12 13	3 11	1 5	52 12		13	13 15	8	7 16	9	5	7	6	5 5	5	5	4 5	2	8	12	8 1: 8 1:	2 7		4	10	3	6		4 3	2	1.70	<1 2.	36 1.51	2.71	2.50 2.05
MW-L16	TCF			- "					1												J		J		Ť		- '						Ľ		41	20	14.00 3	.50 1	95 1 60	1 11	2.97 3.00
	TCE Yearly Ave. Total VOC's		\vdash	+				1	1																	_									42		14.00 3				2.97 3.17 J
	Total VOC Yearly Ave	Э.														İ																			<u> </u>		11.00		1		



		May-96 Nov-96	May-97	Nov-97	Mav-98	Nov-98	Aug-99	Nov-00	Nov-01	Nov-02	Jun-03	Nov-03	Nov-04	Dec-05	Sep-06	Nov-06	May-07	Nov-07	Nov-08	Nov-09	Dec-10	Nov-11 Nov	12 Nov-13	Nov-14	Nov-15 Nov-1
		may or the or	may or		may oo		, .a.g 00			02	0000				000 00		may or				200 .0	1101 11 1101			
MW-BE1																									
	TCE						<1	NA	NA	NA	<1	NA	NA	NA											
	TCE Yearly Ave.						<1	NA	NA	NA	<1	NA	NA	NA											
	Total VOC's						<1	NA	NA		<1		NA	NA											
	Total VOC Yearly Ave.						<1	NA	NA	NA	<1	NA	NA	NA											
MW-BE2																									
	TCE						<1	NA	NA				NA	NA											
	TCE Yearly Ave.						<1	NA	NA				NA	NA											
	Total VOC's						<1	NA	NA		1.2		NA	NA								<u> </u>			
	Total VOC Yearly Ave.						<1	NA	NA	NA	1.2	NA	NA	NA											
DEC-23																									
	TCE														<1		<1								
	Total VOC's														<1		<1								
DEC-24																									
	TCE							-							NS		<1					+	-		
	Total VOC's														NS		<1					 			
DEC-25																									
	TCE														2.3		2.2								
	Total VOC's														2.3		2.2					 			
DEC-26																									
200 20	TCE							-							9.9		NS					+	-		
	Total VOC's														9.9		NS					 			
DEC-27																									
J_U	TCE														4.7		NS								
	Total VOC's														4.7		NS					 			
DEC-28																									
D_0 _0	TCE							-							3.5		NS					+	-		
	Total VOC's														3.5		NS					 			
DEC-29																									
5 2 3 3	TCE														2.4		NS					+	-		
	Total VOC's														2.4		NS					 			
DEC-30																						 			
	TCE														1.4		1.2					+		+	
	Total VOC's														1.4		1.2					1		1	
	Notes:			1 1										I	1	1	1.2			ı	1		II.	1	l
	NS = Not Sampled.																								
	1. Units are μg/L.																								

1. Units are μg/L.
2. Well L16 was constructed inside the building on 12/5/08.

3. All data prior to 2010 provided to GeoLogic NY, Inc. by Buck Engineering, LLC.

Table No. 3 Monthly Analytical Results May 2001- December 2016

Former SCM - Cortlandville

Site No. 712006

Sampling	Compound	Tower	Tower	Reg	Outfall at
Date		Influent	Discharge	Limit	Cascade
5/17/2001	Trichloroethene	19.0	7.6	5	3.5
5/17/2001	Total VOC's	19.0	7.6		3.5
6/4/2001	Trichloroethene	14.0	5.6	5	2.3
0/4/2001	Total VOC's	14.0	5.6		2.3
7/10/2001	Trichloroethene	9.7	3.5	5	1.8
7710/2001	Total VOC's	9.7	3.5		1.8
8/2/2001	Trichloroethene	13.0	5.4	5	3.0
0/2/2001	Total VOC's	13.0	5.4		3.0
9/7/2001	Trichloroethene	8.3	1.7	5	1.4
9/1/2001	Total VOC's	8.3	1.7		1.4
10/9/2001	Trichloroethene	8.0	ND<1	5	ND<1
10/9/2001	Total VOC's	8.0	ND<1		ND<1
11/13/2001	Trichloroethene	6.0	1.9	5	ND<1
11/13/2001	Total VOC's	6.0	1.9		ND<1
12/13/2001	Trichloroethene	5.7	2.6	5	1.2
12/13/2001	Total VOC's	5.7	2.6		1.2
1/9/2002	Trichloroethene	6.6	3.0	5	1.3
1/9/2002	Total VOC's	6.6	3.0		1.3
2/15/2002	Trichloroethene	9.4	2.6	5	1.6
2/15/2002	Total VOC's	10.6	2.6		1.6
3/8/2002	Trichloroethene	9.9	5.7	5	2.1
0/0/2002	Total VOC's	9.9	5.7		2.1
4/2/2002	Trichloroethene	11.0	4.4	5	2.2
47272002	Total VOC's	11.0	4.4		2.2
5/1/2002	Trichloroethene	13.0	6.7	5	3.4
0/1/2002	Total VOC's	14.1	6.7		3.4
6/24/2002	Trichloroethene	14.0	4.7	5	3.4
0/24/2002	Total VOC's	14.0	4.7		3.4
7/9/2002	Trichloroethene	4.3	1.6	5	ND<1
170/2002	Total VOC's	4.3	1.6		1.3
8/12/2002	Trichloroethene	16.0	5.9	5	3.1
0/12/2002	Total VOC's	16.0	5.9		3.1
9/9/2002	Trichloroethene	12.0	3.9	5	1.8
5.5/2002	Total VOC's	12.0	3.9		1.8
10/3/2002	Trichloroethene	11.0	4.1	5	1.3
. 5. 5. 2002	Total VOC's	11.0	4.1		1.3
11/14/2002	Trichloroethene	10.0	4.3	5	2.0
111/4/2002	Total VOC's	10.0	4.3		2.0
12/31/2002	Trichloroethene	12.0	5.1	5	2.0
1=3.1202	Total VOC's	12.0	5.1		2.0



Table No. 3 Monthly Analytical Results May 2001- December 2016

Former SCM - Cortlandville

Site No. 712006

Sampling	Compound	Tower	Tower	Reg	Outfall at
Date		Influent	Discharge	Limit	Cascade
4/42/2002	Trichloroethene	13.0	5.8	5	2.1
1/13/2003	Total VOC's	13.0	5.8		2.1
2/19/2003	Trichloroethene	14.0	5.1	5	2.1
2/19/2003	Total VOC's	14.0	5.1		2.1
2/42/2002	Trichloroethene	14.0	5.9	5	2.2
3/12/2003	Total VOC's	14.0	5.9		2.2
4/9/2003	Trichloroethene	18.0	8.0	5	3.1
4/8/2003	Total VOC's	18.0	8.0		3.1
5/2/2003	Trichloroethene	16.0	5.8	5	3.0
3/2/2003	Total VOC's	16.0	5.8		3.0
6/20/2003	Trichloroethene	18.0	7.2	5	3.4
0/20/2003	Total VOC's	18.0	7.2		3.4
7/1/2003	Trichloroethene	16.0	5.8	5	2.4
77172003	Total VOC's	16.0	5.8		2.4
8/14/2003	Trichloroethene	14.0	4.7	5	2.4
6/14/2003	Total VOC's	14.0	4.7		2.4
9/11/2003	Trichloroethene	9.6	3.5	5	1.8
9/11/2003	Total VOC's	9.6	3.5		1.8
10/2/2003	Trichloroethene	12.0	5.5	5	2.4
10/2/2003	Total VOC's	12.0	5.5		2.4
11/24/2003	Trichloroethene	10.0	1.1	5	1.4
11/24/2003	Total VOC's	10.0	1.1		1.4
12/3/2003	Trichloroethene	13.0	6.5	5	3.0
12/3/2003	Total VOC's	13.0	6.5		3.0
1/5/2004	Trichloroethene	12.0	6.4	5	3.0
1/3/2004	Total VOC's	12.0	6.4		3.0
2/2/2004	Trichloroethene	14.0	7.0	5	3.1
2/2/2004	Total VOC's	14.0	7.0		3.1
3/1/2004	Trichloroethene	13.0	4.8	5	2.0
3/1/2004	Total VOC's	13.0	4.8		2.0
4/2/2004	Trichloroethene	16.0	6.0	5	2.7
4/2/2004	Total VOC's	16.0	6.0		2.7
5/6/2004	Trichloroethene	14.0	5.3	5	2.5
5/ 5/ 2 00 T	Total VOC's	14.0	5.3		2.5
6/3/2004	Trichloroethene	12.0	4.9	5	2.5
	Total VOC's	12.0	4.9		2.5
7/1/2004	Trichloroethene	13.0	4.6	5	2.0
	Total VOC's	13.0	4.6	1	2.0
8/17/2004	Trichloroethene	12.0	4.7	5	1.9
	Total VOC's	12.0	4.7		1.9



Table No. 3 Monthly Analytical Results May 2001- December 2016 Former SCM - Cortlandville

......

Site No. 712006

Sampling	Compound	Tower	Tower	Reg	Outfall at
Date		Influent	Discharge	Limit	Cascade
9/7/2004	Trichloroethene	11.0	3.9	5	1.5
	Total VOC's	11.0	3.9		1.5
10/18/2004	Trichloroethene	12.0	2.2	5	2.1
	Total VOC's	12.0	2.2		2.1
11/18/2004	Trichloroethene	13.0	4.6	5	2.2
	Total VOC's	13.0	4.6		2.2
12/8/2004	Trichloroethene	11.0	2.8	5	1.3
	Total VOC's	11.0	2.8		1.3
1/11/2005	Trichloroethene	13.0	6.5	5	2.7
	Total VOC's	13.0	6.5		2.7
2/8/2005	Trichloroethene	9.0	5.0	5	2.0
	Total VOC's	9.0	5.0		2.0
3/3/2005	Trichloroethene	13.0	3.3	5	1.6
	Total VOC's	13.0	3.3		1.6
4/4/2005	Trichloroethene	15.0	6.2	5	2.2
	Total VOC's	15.0	6.2		2.2
5/5/2005	Trichloroethene	11.0	4.5	5	1.9
	Total VOC's	11.0	4.5		1.9
6/8/2005	Trichloroethene	5.6	2.4	5	1.0
	Total VOC's	5.6	2.4		1.0
7/11/2005	Trichloroethene	12.0	4.3	5	2.0
	Total VOC's	12.0	4.3		2.0
8/1/2005	Trichloroethene	9.9	3.5	5	1.7
	Total VOC's	9.9	3.5		1.7
9/6/2005	Trichloroethene	7.2	2.8	5	1.1
	Total VOC's	7.2	2.8		1.1
10/14/2005	Trichloroethene	6.0	2.3	5	ND<1
	Total VOC's	6.0	2.3		ND<1
11/18/2005	Trichloroethene	7.1	3.2	5	1.2
	Total VOC's	7.1	3.2		1.2
12/5/2005	Trichloroethene	7.4	3.1	5	1.2
	Total VOC's	7.4	3.1		1.2
1/3/2006	Trichloroethene	8.9	4.0	5	1.5
2/2/2006	Total VOC's	8.9	4.0	1	1.5
	Trichloroethene	9.5	4.0	5	1.7
	Total VOC's	9.5	4.0	1	1.7
3/20/2006	Trichloroethene	9.2	1.6	5	1.1
	Total VOC's	9.2	1.6		1.1
4/19/2006	Trichloroethene	10.0	4.0	5	1.6
	Total VOC's	10.0	4.0		1.6
5/4/2006	Trichloroethene	10.0	3.9	5	1.7
	Total VOC's	10.0	3.9		1.7



Former SCM - Cortlandville

Sampling	Compound	Tower	Tower	Reg	Outfall at
Date		Influent	Discharge	Limit	Cascade
6/2/2006	Trichloroethene	9.6	3.6	5	1.7
0/2/2000	Total VOC's	9.6	3.6		1.7
7/6/2006	Trichloroethene	10.0	4.0	5	1.8
77072000	Total VOC's	10.0	4.0		1.8
8/4/2006	Trichloroethene	10.0	4.2	5	1.7
6/4/2000	Total VOC's	10.0	4.2		1.7
9/5/2006	Trichloroethene	11.0	4.4	5	1.8
9/3/2000	Total VOC's	11.0	4.4		1.8
10/5/2006	Trichloroethene	11.0	4.4	5	1.8
10/3/2000	Total VOC's	11.0	4.4		1.8
11/20/2006	Trichloroethene	10.0	4.2	5	1.9
11/20/2006	Total VOC's	10.0	4.2		1.9
12/6/2006	Trichloroethene	11.0	2.9	5	1.2
12/6/2006	Total VOC's	11.0	2.9		1.2
1/9/2007	Trichloroethene	10.0	4.4	5	1.8
1/8/2007	Total VOC's	10.0	4.4		1.8
2/6/2007	Trichloroethene	12.0	3.1	5	ND<1
2/6/2007	Total VOC's	12.0	3.1		ND<1
2/24/2007	Trichloroethene	11.0	4.6	5	1.8
3/21/2007	Total VOC's	11.0	4.6		1.8
4/5/2007	Trichloroethene	10.0	4.8	5	1.6
4/5/2007	Total VOC's	10.0	4.8		1.6
E/19/2007	Trichloroethene	11.0	4.5	5	2.0
5/18/2007	Total VOC's	11.0	4.5		2.0
6/13/2007	Trichloroethene	12.0	4.3	5	2.0
0/13/2007	Total VOC's	12.0	4.3		2.0
7/0/2007	Trichloroethene	10.0	4.1	5	1.4
7/9/2007	Total VOC's	10.0	4.1		1.4
9/9/2007	Trichloroethene	9.2	3.4	5	1.4
8/8/2007	Total VOC's	9.2	3.4		1.4
0/7/2007	Trichloroethene	6.2	2.4	5	1.0
9/7/2007	Total VOC's	6.2	2.4		1.0
40/4/2007	Trichloroethene	5.9	2.2	5	1.2
10/4/2007	Total VOC's	5.9	2.2		1.2
11/26/2007	Trichloroethene	6.3	2.9	5	1.2
11/26/2007	Total VOC's	6.3	2.9		1.2
10/00/0007	Trichloroethene	10.0	4.8	5	1.9
12/26/2007	Total VOC's	10.0	4.8		3.0



Former SCM - Cortlandville

Sampling	Compound	Tower	Tower	Reg	Outfall at
Date		Influent	Discharge	Limit	Cascade
1/11/2008	Trichloroethene	11.0	5.0	5	2.0
1/11/2006	Total VOC's	11.0	5.0		2.0
2/15/2008	Trichloroethene	8.9	3.5	5	1.3
2/15/2006	Total VOC's	8.9	3.5		1.3
3/24/2008	Trichloroethene	11.0	4.4	5	1.9
3/24/2006	Total VOC's	11.0	4.4		1.9
4/16/2008	Trichloroethene	9.6	3.9	5	1.7
4/10/2000	Total VOC's	9.6	3.9		1.7
5/21/2008	Trichloroethene	10.0	4.8	5	2.0
0/2 1/2000	Total VOC's	10.0	4.8		2.0
6/26/2008	Trichloroethene	8.5	3.4	5	1.7
0/20/2000	Total VOC's	8.5	3.4		1.7
7/22/2008	Trichloroethene	8.1	3.5	5	1.6
	Total VOC's	8.1	3.5		1.6
8/21/2008	Trichloroethene	6.0	3.0	5	1.3
	Total VOC's	6.0	3.0		1.3
9/18/2008	Trichloroethene	5.9	2.7	5	1.0
	Total VOC's	5.9	2.7		1.0
10/23/2008	Trichloroethene	3.5	2.2	5	<1
	Total VOC's	3.5	2.2		<1
11/26/2008	Trichloroethene	4.0	2.2	5	1.0
	Total VOC's	4.0	2.2		1.0
12/16/2008	Trichloroethene	4.2	2.2	5	1.1
	Total VOC's	4.2	2.2		1.1
1/20/2009	Trichloroethene	6.2	3.5	5	1.5
	Total VOC's	6.2	3.5		1.5
2/23/2009	Trichloroethene	5.0	2.1	5	<1
	Total VOC's	5.0	2.1		<1
3/17/2009	Trichloroethene	5.7	3.6	5	1.5
	Total VOC's	5.7	3.6		1.5
4/16/2009	Trichloroethene	6.0	3.5	5	1.8
	Total VOC's	6.0	3.5		1.8
5/19/2009	Trichloroethene	6.4	3.5	5	1.6
	Total VOC's	6.4	3.5		1.6
6/18/2009	Trichloroethene	6.2	2.8	5	1.6
	Total VOC's	6.2	2.8		1.6
7/14/2009	Trichloroethene	4.3	2.7	5	1.4
	Total VOC's	4.3	2.7		1.4
8/31/2009	Trichloroethene	3.7	1.9	5	1.0
	Total VOC's	3.7	1.9		1.0



Former SCM - Cortlandville

Sampling	Compound	Tower	Tower	Reg	Outfall at
Date		Influent	Discharge	Limit	Cascade
9/24/2009	Trichloroethene	3.7	2.0	5	1.0
	Total VOC's	3.7	2.0		1.0
10/20/2009	Trichloroethene	3.9	2.0	5	1.0
	Total VOC's	3.9	2.0		1.0
11/30/2009	Trichloroethene	3.2	2.2	5	1.0
	Total VOC's	3.2	2.2		1.0
12/29/2009	Trichloroethene	5.1	1.7	5	<1
	Total VOC's	5.1	1.7		<1
1/28/2010	Trichloroethene	5.9	2.7	5	1.3
	Total VOC's	5.9	2.7		1.3
2/24/2010	Trichloroethene	6.9	2.9	5	1.4
	Total VOC's	6.9	2.9		1.4
3/30/2010	Trichloroethene	8.0	3.7	5	1.7
	Total VOC's	8.0	3.7		1.7
4/29/2010	Trichloroethene	8.6	3.5	5	1.7
	Total VOC's	8.6	3.5		1.7
5/27/2010	Trichloroethene	8.5	3.1	5	1.8
	Total VOC's	8.5	3.1		1.8
6/30/2010	Trichloroethene	8.0	3.1	5	1.6
	Total VOC's	8.0	3.1		1.6
7/29/2010	Trichloroethene	6.8	2.5	5	1.2
	Total VOC's	6.8	2.5		1.2
8/31/2010	Trichloroethene	4.6	2.0	5	1.1
	Total VOC's	4.6	2.0		1.1
9/29/2010	Trichloroethene	4.9	1.9	5	1.0
	Total VOC's	4.9	1.9		1.0
10/28/2010	Trichloroethene	5.4	2.2	5	1.0
	Total VOC's	5.4	2.2		1.0
11/29/2010	Trichloroethene	6.4	2.5	5	1.2
	Total VOC's	6.4	2.5		1.2
12/31/2010	Trichloroethene	9.9	3.7	5	1.3
	Total VOC's	9.9	3.7		1.3
1/24/2011	Trichloroethene	9.6	5.1	5	2.3
	Total VOC's	9.6	5.1		2.3
2/25/2011	Trichloroethene	8.0	5.3	5	2.0
	Total VOC's	8.0	5.3		2.0
3/31/2011	Trichloroethene	11.0	4.4	5	2.0
	Total VOC's	11.0	4.4		2.0
4/28/2011	Trichloroethene	11.0	4.1	5	1.9
	Total VOC's	11.0	4.1		1.9



Former SCM - Cortlandville

Sampling	Compound	Tower	Tower	Reg	Outfall at
Date		Influent	Discharge	Limit	Cascade
5/31/2011	Trichloroethene	14.0	4.5	5	2.3
	Total VOC's	14.0	4.5		2.3
6/29/2011	Trichloroethene	12.0	4.5	5	2.2
	Total VOC's	12.0	4.5		2.2
7/29/2011	Trichloroethene	9.9	3.4	5	1.8
	Total VOC's	9.9	3.4		1.8
8/19/2011	Trichloroethene	9.8	3.5	5	1.8
	Total VOC's	9.8	3.5		1.8
9/27/2011	Trichloroethene	8.9	3.2	5	1.5
	Total VOC's	8.9	3.2		1.5
10/26/2011	Trichloroethene	9.7	3.9	5	1.7
	Total VOC's	9.7	3.9		1.7
11/22/2011	Trichloroethene	8.8	3.8	5	1.5
	Total VOC's	8.8	3.8		1.5
12/27/2011	Trichloroethene	10.4	4.3	5	1.7
	Total VOC's	10.7	4.5		1.7
1/27/2012	Trichloroethene	10.3	4.1	5	1.6
	Total VOC's	10.5	4.3		1.6
2/24/2012	Trichloroethene	12.0	5.0	5	2.1
	Total VOC's	12.3	5.2		2.1
3/27/2012	Trichloroethene	11.9	4.7	5	2.0
	Total VOC's	11.9	4.7		2.6
4/23/2012	Trichloroethene	10.2	4.2	5	1.9
	Total VOC's	10.4	4.3		1.9
5/31/2012	Trichloroethene	9.6	3.6	5	1.8
	Total VOC's	9.7	3.7		1.8
6/25/2012	Trichloroethene	8.3	3.4	5	1.4
	Total VOC's	8.4	3.5		1.4
7/26/2012	Trichloroethene	7.7	2.7	5	1.5
	Total VOC's	7.8	2.7		1.5
8/29/2012	Trichloroethene	5.5	2.0	5	0.9
	Total VOC's	5.5	2.0		0.9
9/25/2012	Trichloroethene	5.0	1.9	5	0.8
	Total VOC's	5.0	1.9		0.8
10/29/02012	Trichloroethene	3.8	1.6	5	0.6
	Total VOC's	3.8	1.6	<u> </u>	0.6
11/21/2012	Trichloroethene	4.3	1.9	5	0.7
	Total VOC's	4.3	1.9		0.7
12/18/2012	Trichloroethene	4.04	1.71	5	0.74
	Total VOC's	4.04	1.71		0.74



Former SCM - Cortlandville

Sampling	Compound	Tower	Tower	Reg	Outfall at
Date		Influent	Discharge	Limit	Cascade
1/24/2013	Trichloroethene	6.25	1.68	5	1.08
	Total VOC's	6.25	1.68		1.08
2/26/2013	Trichloroethene	6.97	2.83	5	1.17
	Total VOC's	7.10	2.83		1.17
3/21/2013	Trichloroethene	7.91	3.85	5	1.33
	Total VOC's	8.09 J	3.97 J		1.33
4/29/2013	Trichloroethene	7.57	3.08	5	1.36
	Total VOC's	7.73 J	3.18 J		1.36
5/21/2013	Trichloroethene	10.0	3.53	5	1.60
	Total VOC's	10.22 J	3.67 J		1.60
6/26/2013	Trichloroethene	7.42	2.56	5	1.27
	Total VOC's	7.56 J	2.56		1.27
7/29/2013	Trichloroethene	8.50	3.20	5	1.57
	Total VOC's	8.50	3.30 J		1.57
8/27/2013	Trichloroethene	10.60	3.78	5	1.65
	Total VOC's	10.75 J	3.78		1.65
9/25/2013	Trichloroethene	9.47	3.95	5	1.51
	Total VOC's	9.62 J	3.95		1.51
10/25/2013	Trichloroethene	9.23	4.18	5	1.62
	Total VOC's	9.41 J	4.31 J		1.62
11/26/2013	Trichloroethene	8.84	3.89	5	1.51
	Total VOC's	8.84	3.89		1.51
12/26/2013	Trichloroethene	10.00	4.71	5	1.77
	Total VOC's	10.14 J	4.71		1.77
1/29/2014	Trichloroethene	10.50	4.26	5	2.00
	Total VOC's	10.64 J	4.26		2.00
2/24/2014	Trichloroethene	10.90	1.94	5	1.35
	Total VOC's	11.1 J	1.94		1.35
3/28/2014	Trichloroethene	10.60	4.57	5	1.60
	Total VOC's	10.78 J	4.69 J		1.60
4/25/2014	Trichloroethene	11.20	4.34	5	1.62
	Total VOC's	11.35 J	4.34		1.62
5/29/2014	Trichloroethene	9.76	3.51	5	1.44
	Total VOC's	9.76	3.51		1.44
6/24/2014	Trichloroethene	10.40	3.50	5	1.64
	Total VOC's	10.52 J	3.50		1.64
7/23/2014	Trichloroethene	8.78	2.91	5	1.48
	Total VOC's	8.92 J	2.91		1.48
8/27/2014	Trichloroethene	8.10	2.77	5	1.31
	Total VOC's	8.22 J	2.77		1.31



Former SCM - Cortlandville

Sampling	Compound	Tower	Tower	Reg	Outfall at
Date		Influent	Discharge	Limit	Cascade
9/23/2014	Trichloroethene	6.99	2.76	5	1.11
	Total VOC's	6.99	2.76		1.11
10/28/2014	Trichloroethene	6.05	2.20	5	0.86
	Total VOC's	6.05	2.20		0.86
11/20/2014	Trichloroethene	5.93	2.78	5	0.94
	Total VOC's	6.48	2.78		0.94
12/23/2014	Trichloroethene	4.97	1.97	5	0.84
	Total VOC's	4.97	1.97		0.84
1/27/2015	Trichloroethene	6.06	2.18	5	1.18
	Total VOC's	6.06	2.18		1.18
2/18/2015	Trichloroethene	6.05	2.98	5	1.24
	Total VOC's	6.17 J	2.98		1.24
3/27/2015	Trichloroethene	6.20	2.91	5	1.17
	Total VOC's	6.34 J	3.01		1.17
4/23/2015	Trichloroethene	7.85	3.43	5	1.39
	Total VOC's	7.97 J	3.43		1.39
5/28/2015	Trichloroethene	8.03	2.88	5	1.34
	Total VOC's	8.16 J	2.88		1.34
6/23/2015	Trichloroethene	8.57	2.68	5	1.47
	Total VOC's	9.19	2.68		1.47
7/21/2015	Trichloroethene	9.85	3.27	5	1.49
	Total VOC's	9.85	3.27		1.49
8/19/2015	Trichloroethene	8.63	2.72	5	1.37
	Total VOC's	8.83 J	2.84 J		1.37
9/28/2015	Trichloroethene	6.58	2.35	5	1.03
	Total VOC's	6.58	2.35		1.03
10/26/2015	Trichloroethene	6.26	2.41	5	0.93
	Total VOC's	6.26	2.41		0.93
11/25/2015	Trichloroethene	4.68	1.87	5	0.81
	Total VOC's	4.68	1.87		0.81
12/17/2015	Trichloroethene	4.99	2.22	5	0.83
	Total VOC's	4.99	2.22		0.83
1/21/2016	Trichloroethene	4.89	2.77	5	0.95
	Total VOC's	4.89	2.77		0.95
2/29/2016	Trichloroethene	6.79	3.26	5	1.12
	Total VOC's	6.79	3.26		1.12
3/30/2016	Trichloroethene	6.50	2.83	5	1.20
	Total VOC's	6.61 J	2.83		1.20
4/27/2016	Trichloroethene	8.04	3.48	5	1.43
	Total VOC's	8.04	3.48		1.43



Former SCM - Cortlandville

Site No. 712006

Sampling	Compound	Tower	Tower	Reg	Outfall at
Date		Influent	Discharge	Limit	Cascade
5/26/2016	Trichloroethene	8.38	2.90	5	1.35
	Total VOC's	8.38	2.90		1.35
6/28/2016	Trichloroethene	6.21	2.16	5	1.06
	Total VOC's	6.21	2.16		1.06
7/28/2016	Trichloroethene	4.70	1.67	5	0.74
	Total VOC's	4.70	1.67		0.74
8/29/2016	Trichloroethene	3.71	1.43	5	0.60
	Total VOC's	3.71	1.43		0.60
9/26/2016	Trichloroethene	3.27	1.48	5	0.57
	Total VOC's	3.27	1.48		0.57
10/27/2016	Trichloroethene	2.69	1.30	5	0.54
	Total VOC's	2.69	1.30		0.54
11/16/2016	Trichloroethene	3.36	1.46	5	0.65
	Total VOC's	3.36	1.46		0.65
12/19/2016	Trichloroethene	3.70	2.07	5	0.78
	Total VOC's	3.70	2.07		0.78

Note:

All results in $\mu g/L$.



Table 4: Comparison of TCE Concentrations in Groundwater

Well #	Highest TCE Concentration ¹	Date Highest TCE Observed ²	Nov. 2016 TCE Concentration ³	Highest TCE vs. Nov. 2016 % Change ⁴						
Perimeter Shallow Wells										
MW-1S	47	Aug-1990	10.10	-78.5%						
MW-2S	10	Nov-1991	1.88	-81.2%						
MW-4S	2	Nov-1990 & Aug- 1991	0.58	-71.0%						
MW-5S	3	Nov-1990	0.62	-79.3%						
MW-10S	170	May-1992	6.42	-96.2%						
Perimeter Deep Wells										
MW-1D	32	Feb-1990	4.53	-85.8%						
MW-2D	9	Aug-1990 & Nov- 1991	NS	NA						
MW-4D	2	Nov-1990 & Aug- 1991	0.39	-80.5%						
MW-5D	5	Nov-1990	1.60	-68.0%						
MW-10D	60	Nov-1990	7.59	-87.4%						
	Int	erior Shallow Wells	s							
MW-6	62	May-1991	2.31	-96.3%						
MW-7	290	Feb-1990	4.23	-98.5%						
MW-8	110	May-1991	0.87	-99.2%						
MW-11	3400	Nov-1990	2.93	-99.9%						
MW-12S	280	Aug-1990	3.08	-98.9%						
	Ir	nterior Deep Wells								
MW-9	33	May-1993	0.69	-97.9%						
MW-12D	45	May-1992	2.05	-95.4%						
		Facility Well								
MW-L16	41	Nov-2008	3.00	-92.7%						

Notes:

All concentrations in parts per billion (ppb).

Highlighted cell indicated decrease in TCE Concentration.

ND = Not detected at the reporting limit.

NS = Not sampled, well damaged.



¹ Highest TCE concentration observed, per Table 2.

² Date the highest TCE concentration was observed, per Table 2.

³ TCE concentration detected in November 2016, per Table 2.

⁴ Percent change in TCE concentration between highest concentration and November 2016.

Table 5: Comparison of TCE Concentrations in SSD/SVE Exhaust Samples

TCE Concentrations in SSD/SVE Exhaust Samples								
Sampling Date TCE TCE Concentration Concentration¹ % Change vs. Jan. 2012								
1/10/2012	18,000	NA						
5/31/2012	3,500	-80.6%						
11/27/2012	3,200	-82.2%						
11/26/2013	10,000	-44.4%						
11/17/2014	2,700	-85.0%						
11/1/2015	780	-95.7%						
11/15/2016	2,200	-87.8%						

Notes:

All TCE concentrations in micrograms per cubic meter ($\mu g/m^3$).

NA = Not Applicable.

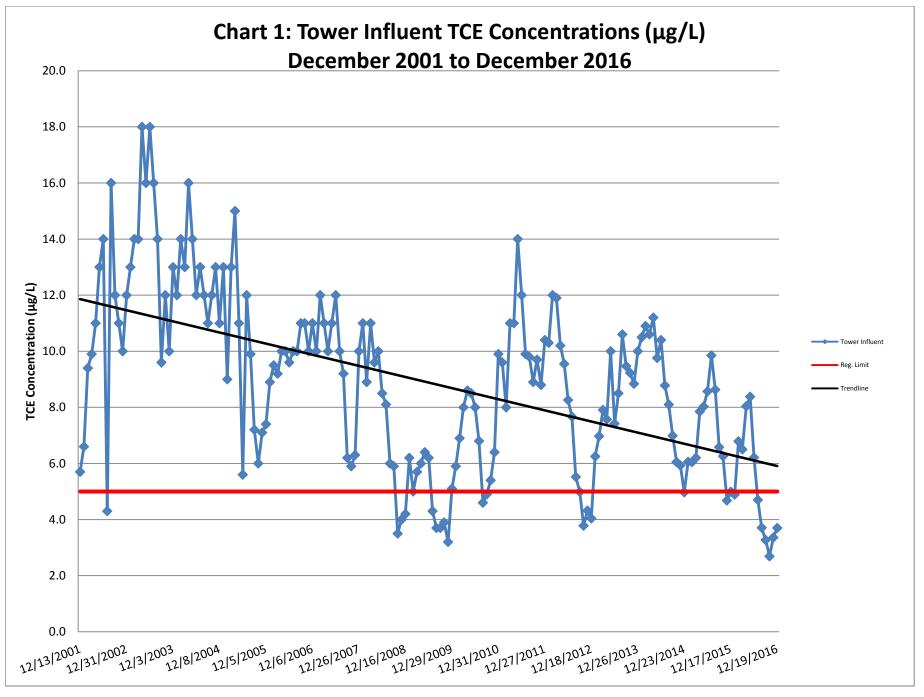
SSD/SVE system energized in January 2012.



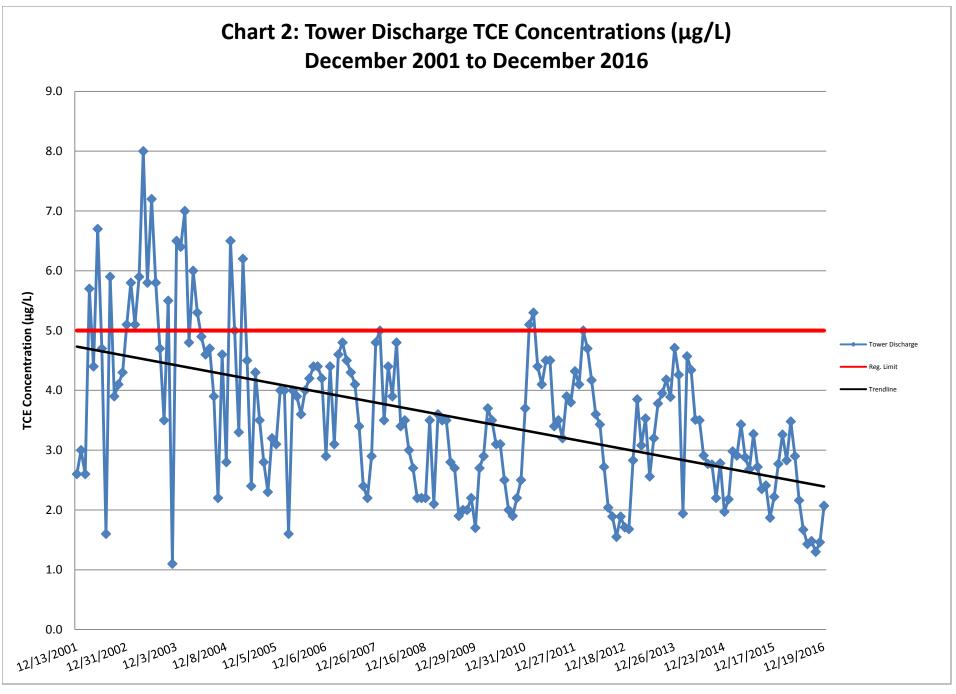
¹ TCE concentration detected in SSD/SVE exhaust samples.

 $^{^{\}rm 2}\,\text{Percent}$ change in TCE concentration vs. January 2012.

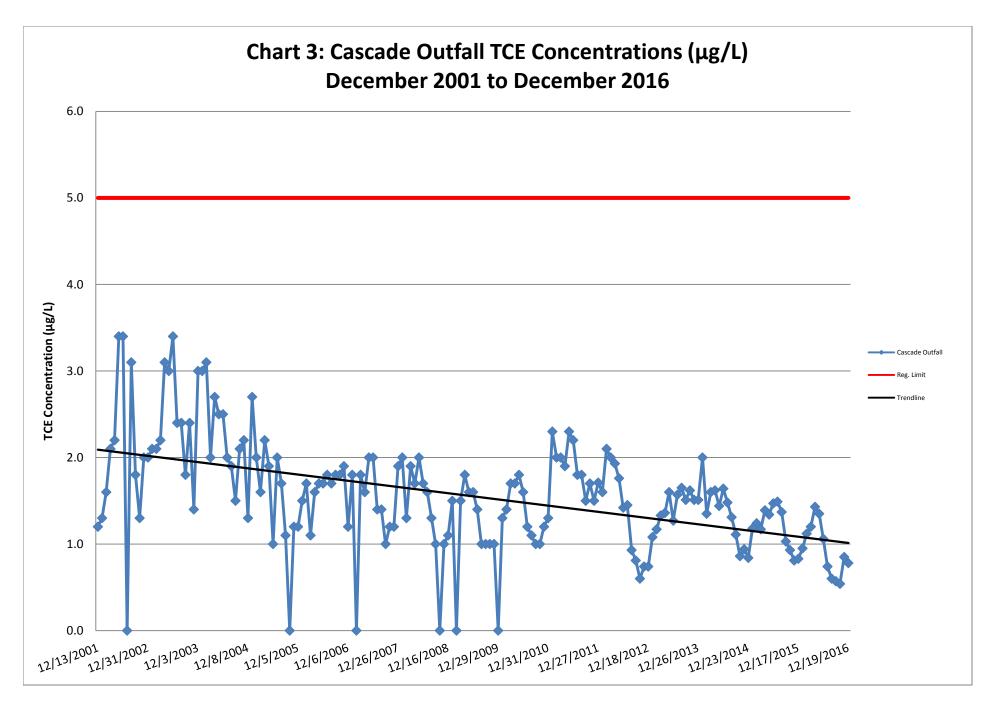
APPENDIX D
CHARTS



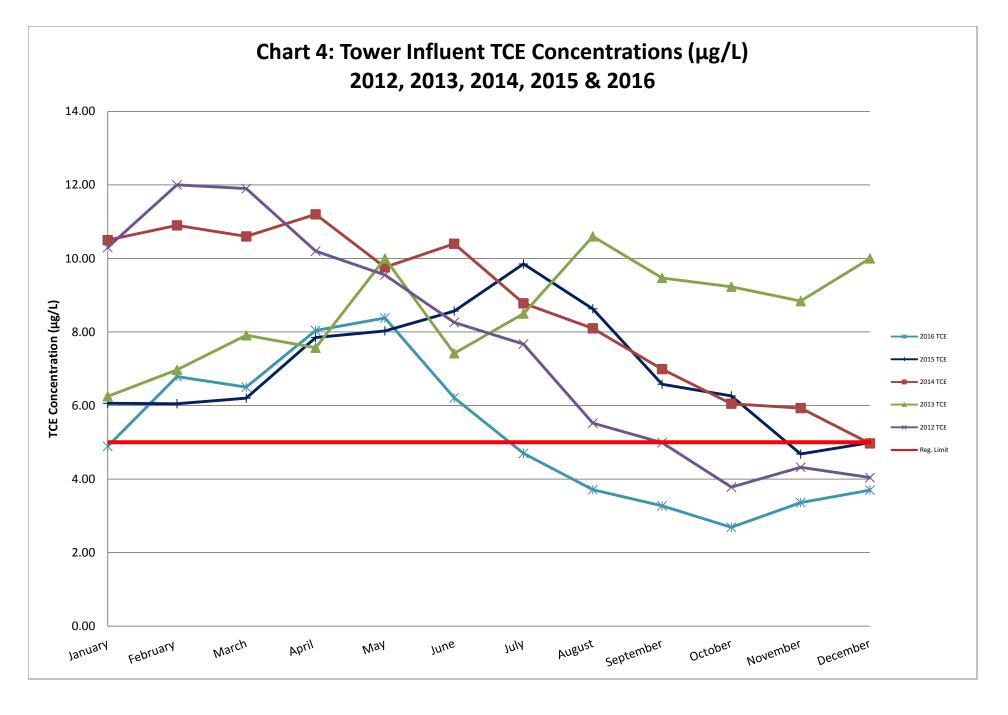




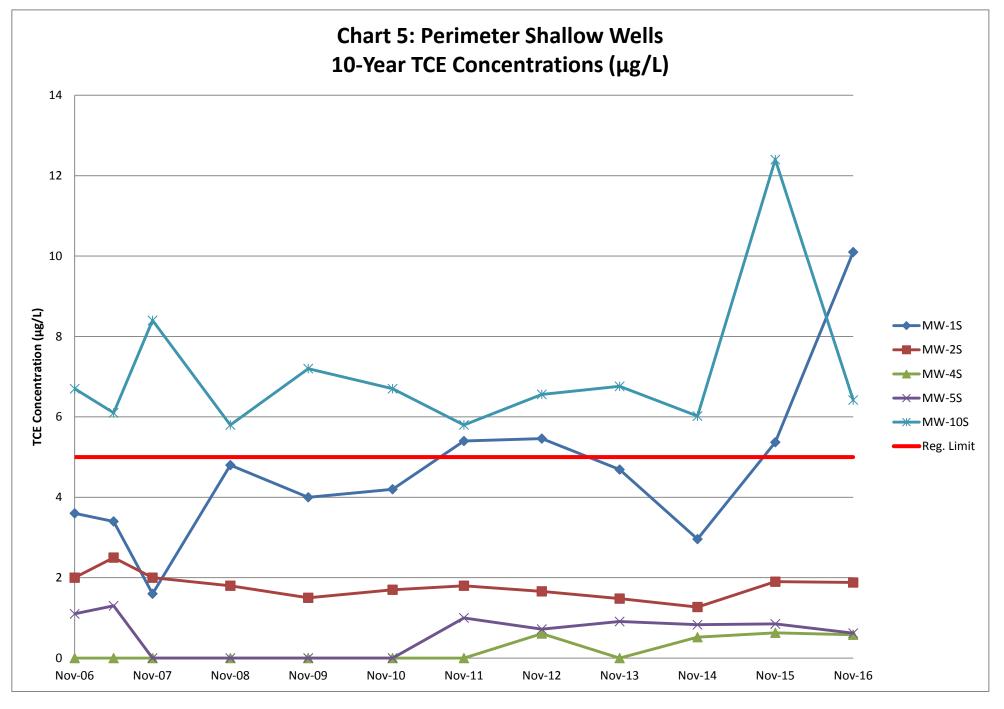




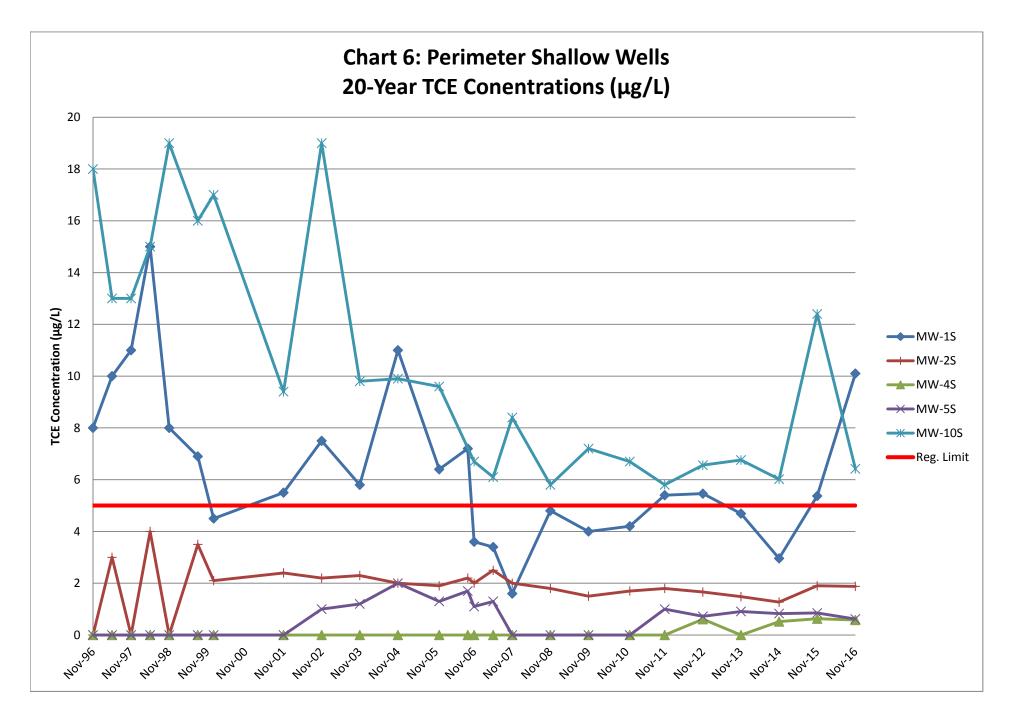




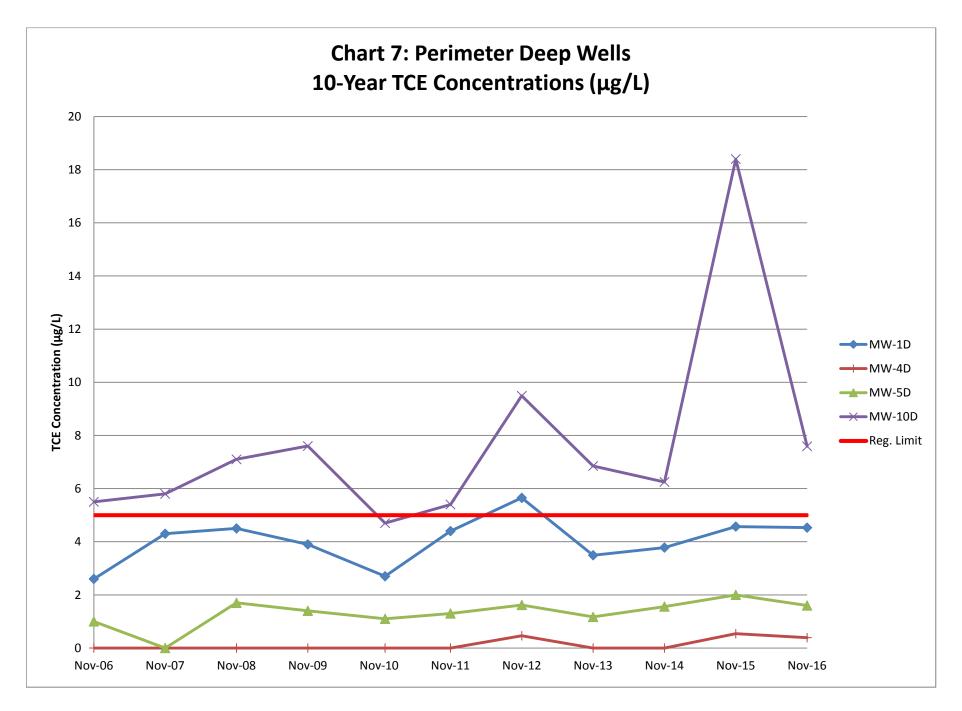






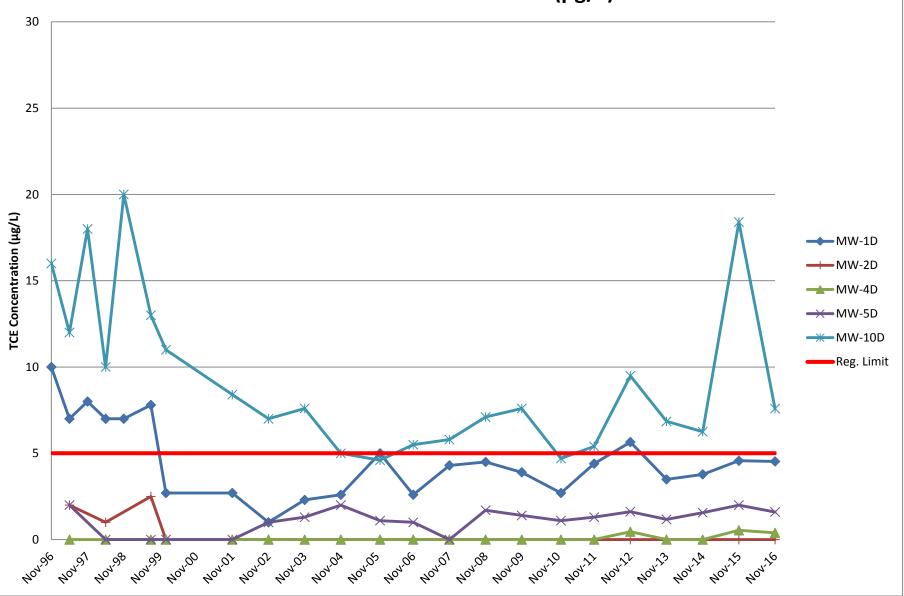




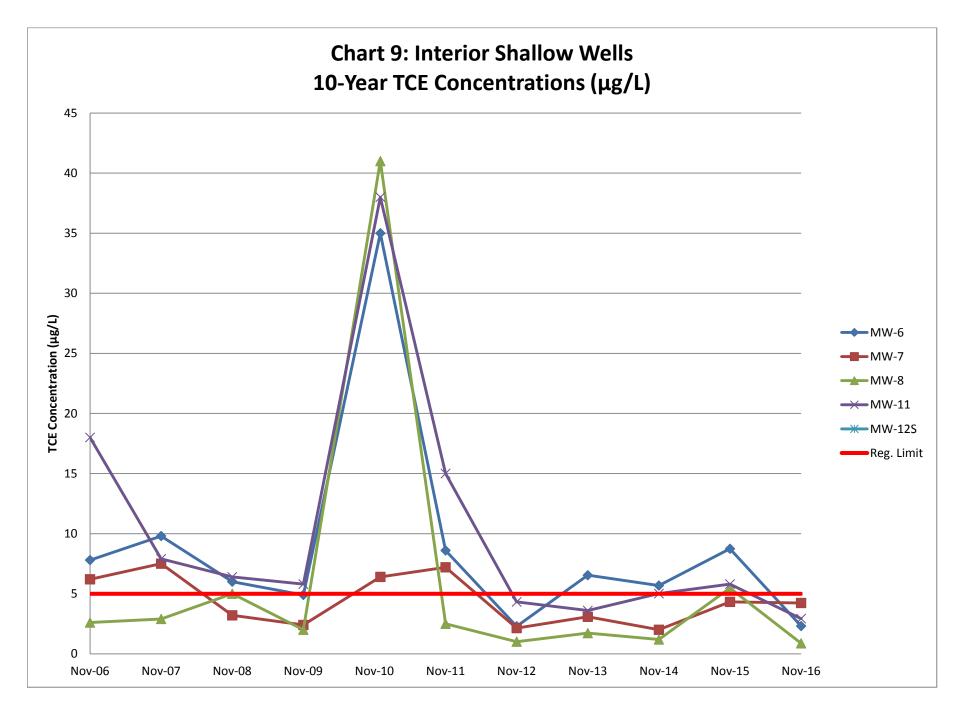




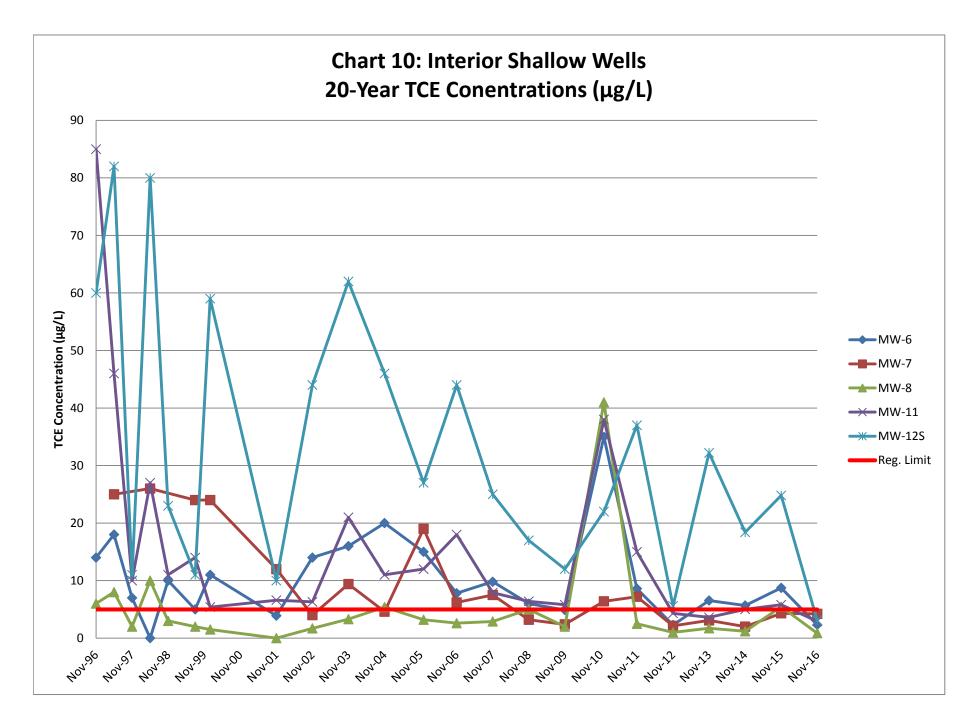




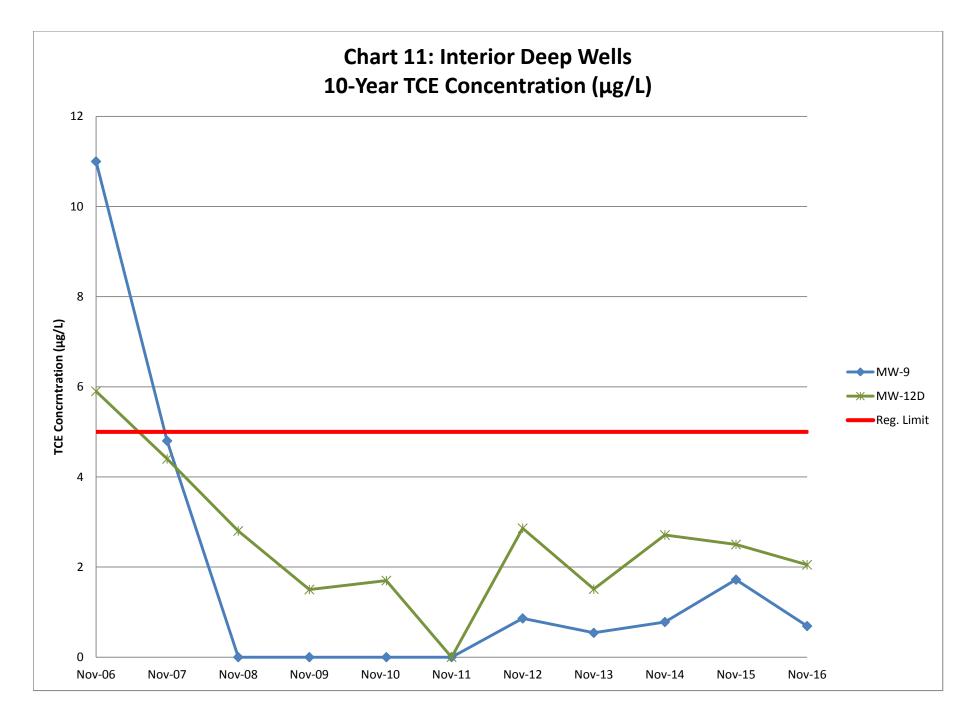




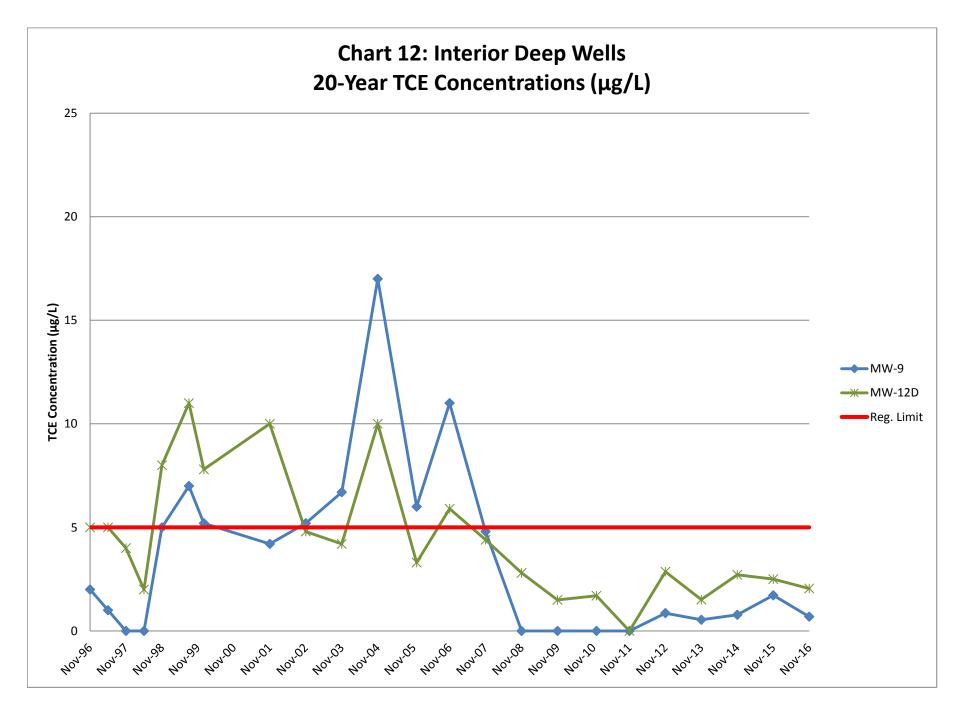




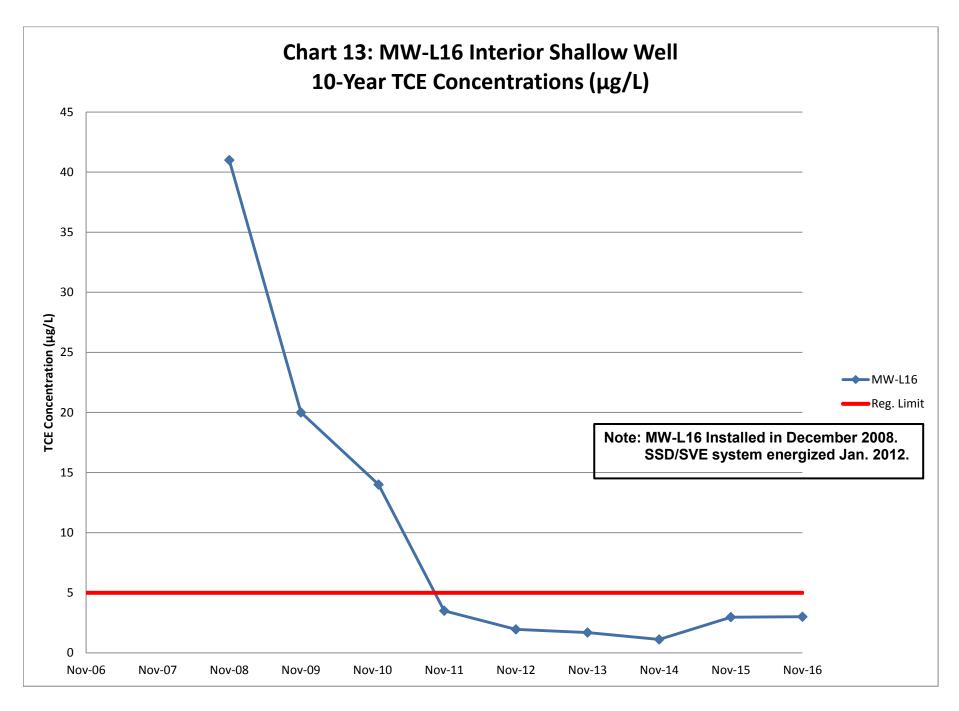




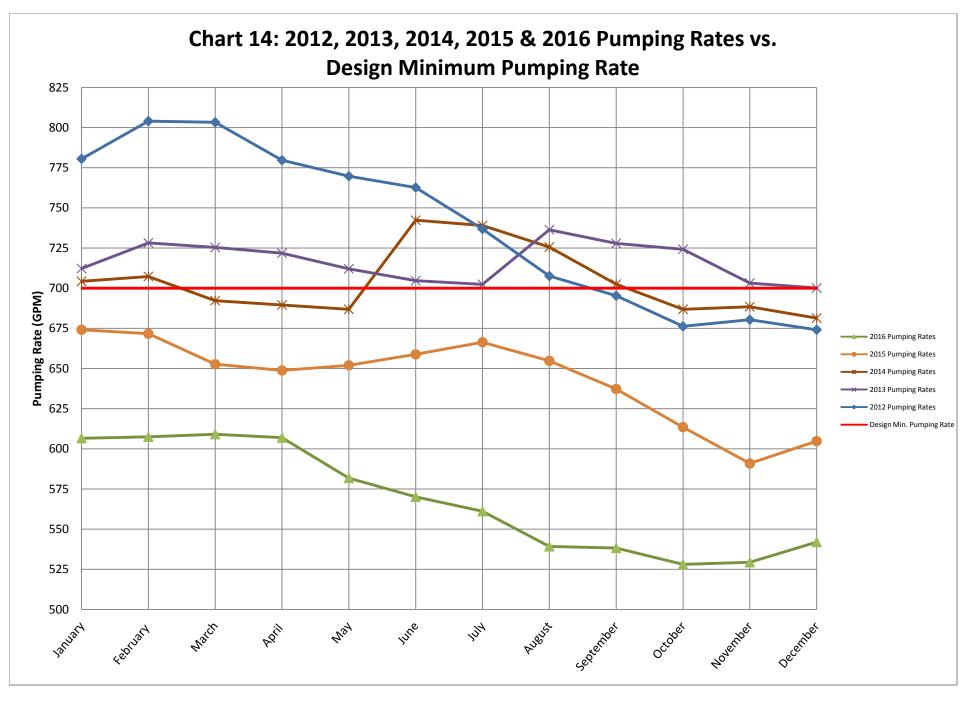




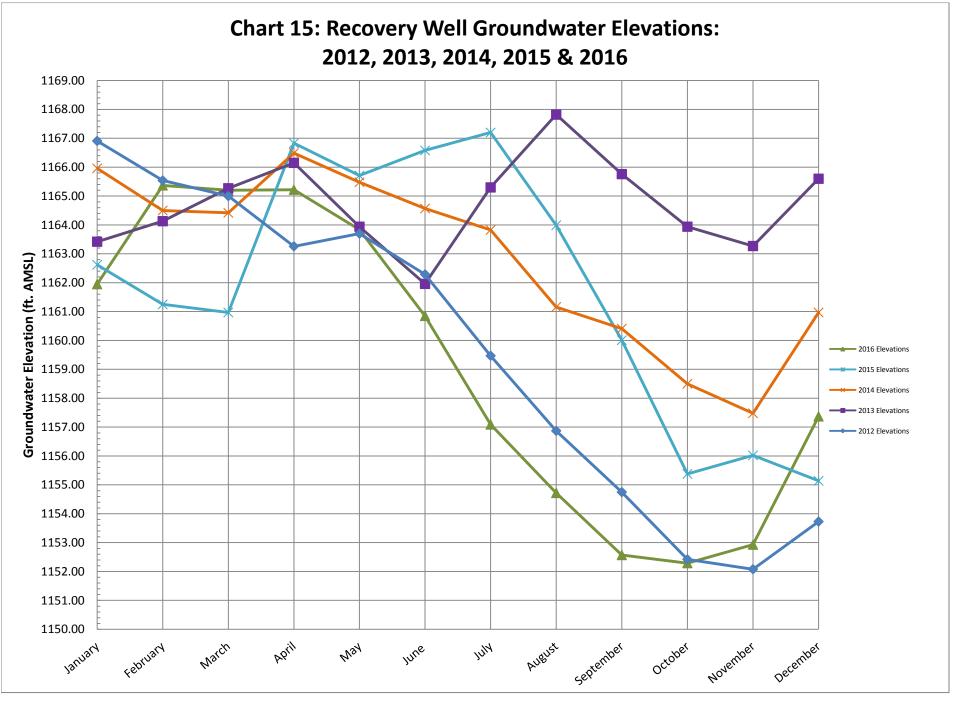




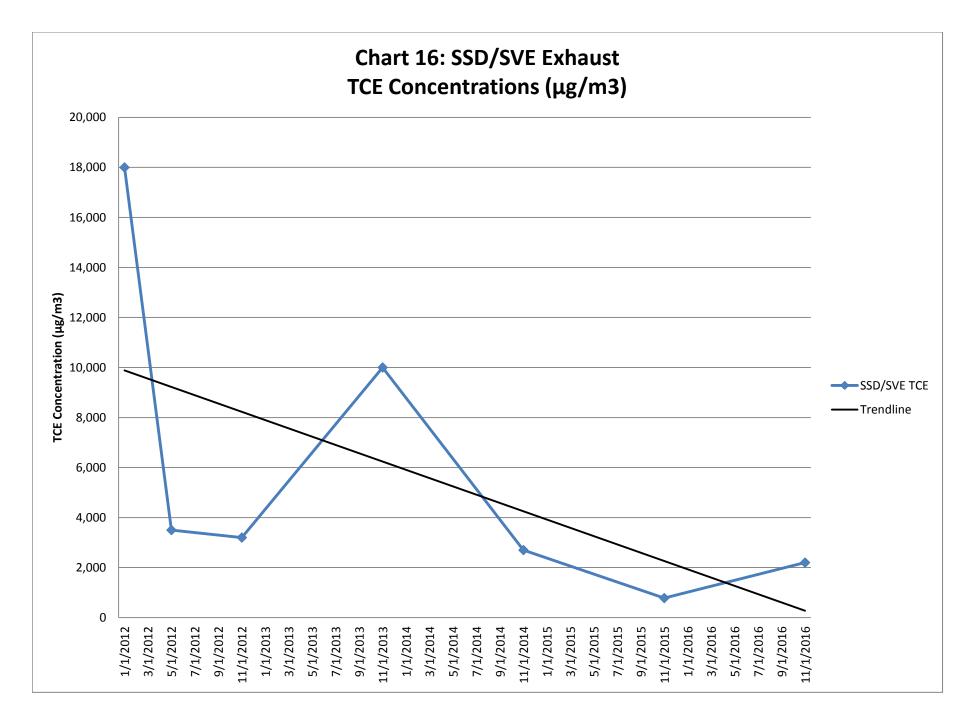














APPENDIX E

ANALYTICAL RESULTS FROM 2016 ANNUAL SAMPLING EVENT, NOVEMBER AND DECEMBER MONTHLY SAMPLING EVENTS



Tuesday, December 06, 2016

Mr. Christopher Gabriel GeoLogic NY, Inc. 37 Copeland Ave. Homer, NY 13077

TEL: 607 749-5000

Project: 210087 ANNUAL

RE: Analytical Results

Dear Mr. Christopher Gabriel:

Life Science Laboratories, Inc. received 19 sample(s) on 11/16/2016 for the analyses presented in the following report. Sample results relate only to the samples as received by the laboratory.

Order No.: K1611165

Very truly yours,

Life Science Laboratories, Inc.

David J Prichard Project Manager

Analytical Results

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1900

8260W

Sample Size 10 mL

%Moisture:

TestCode:

StateCertNo: 10248

CLIENT GeoLogic NY, Inc. Project:

210087 Annual

W Order: K1611165 Matrix: WATER

Inst. ID: MS04 73

ColumnID: Rtx-VMS

Revision: 12/02/16 15:45 Lab ID:

K1611165-001A

Client Sample ID: MW-1S

Collection Date: Date Received:

11/14/16 12:15 11/16/16 17:05

PrenDate:

BatchNo:

R30519

FileID: 1-SAMP-R2106.D

Col Type:

Analyte	Result Qu	al PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					OC/50300	
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/18/16 10:25
1,1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/18/16 10:25
cis-1,2-Dichloroethene	0.27 J	0.50	0.10	μg/L	1	11/18/16 10:25
Tetrachloroethene	ND	0.50	0.10	μg/L	1	11/18/16 10:25
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 10:25
Trichloroethene	10.1	0.50	0.10	μg/L	1	11/18/16 10:25
Vinyl chloride	ND	1.00	0.33	μg/L	1	11/18/16 10:25
Surr: 1,2-Dichloroethane-d4	107	75-130	0.16	%REC	1	11/18/16 10:25
Surr: Toluene-d8	102	75-125	0.10	%REC	1	11/18/16 10:25
Surr: 4-Bromofluorobenzene	104	75-125	0.10	%REC	1	11/18/16 10:25

Qualifiers:

Value may exceed the Acceptable Level

Value exceeds the instrument calibration range

Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

Spike Recovery outside accepted recovery limits

Print Date: 12/02/16 15:50 796772 Project Supervisor: David J Prichard



Analytical Results

East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248 K1611165-002A

CLIENT GeoLogic NY, Inc. Project:

210087 Annual

W Order: K1611165 Matrix: WATER

Col Type:

Inst. ID: MS04 73 ColumnID: Rtx-VMS

Surr: 4-Bromofluorobenzene

Revision: 12/02/16 15:45

%Moisture:

TestCode:

Sample Size 10 mL

103

8260W

Client Sample ID: MW-1D 11/14/16 12:20

11/16/16 17:05

Date Received: PrepDate:

0.10

Collection Date:

Lab ID:

BatchNo: R30519

FileID: 1-SAMP-R2107.D

%REC

1

11/18/16 10:58

Analyte	Result Qu	ıal PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUN	SW8260	SW8260C/5030C				
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/18/16 10:58
1,1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/18/16 10:58
cis-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 10:58
Tetrachloroethene	ND	0.50	0.10	μg/L	1	11/18/16 10:58
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 10:58
Trichloroethene	4.53	0.50	0.10	μg/L	1	11/18/16 10:58
Vinyl chloride	ND	1.00	0.33	μg/L	1	11/18/16 10:58
Surr: 1,2-Dichloroethane-d4	104	75-130	0.16	%REC	1	11/18/16 10:58
Surr: Toluene-d8	101	75-125	0.10	%REC	1	11/18/16 10:58

75-125

Qualifiers:

Value may exceed the Acceptable Level

Value exceeds the instrument calibration range

Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

Spike Recovery outside accepted recovery limits

Print Date: 12/02/16 15:50

796773

Analytical Results

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248

CLIENT Project:

GeoLogic NY, Inc.

210087 Annual

W Order: K1611165

Matrix: Inst. ID: WATER

MS04 73

ColumnID: Rtx-VMS

12/02/16 15:45

Sample Size 10 mL %Moisture:

TestCode: 8260W Lab ID:

K1611165-003A

Client Sample ID: MW-2S

Collection Date: Date Received:

11/14/16 13:30 11/16/16 17:05

PrenDate:

BatchNo:

FileID:

R30519

1-SAMP-R2108.D

Revision: Col Type:

Analyte	Result Qı	ıal PQL	MDL	Units	DF	Date Analyzed	
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260C/5030C		
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/18/16 11:31	
1,1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/18/16 11:3 1	
cis-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 11:31	
Tetrachloroethene	ND	0.50	0.10	μg/L	1	11/18/16 11:31	
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 11:31	
Trichloroethene	1.88	0.50	0.10	μg/L	1	11/18/16 11:31	
Vinyl chloride	ND	1.00	0.33	μg/L	1	11/18/16 11:31	
Surr: 1,2-Dichloroethane-d4	106	75-130	0.16	%REC	1	11/18/16 11:31	
Surr: Toluene-d8	102	75-125	0.10	%REC	1	11/18/16 11:31	
Surr: 4-Bromofluorobenzene	101	75-125	0.10	%REC	1	11/18/16 11:31	

Qualifiers:

Value may exceed the Acceptable Level

Value exceeds the instrument calibration range

Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

Print Date: 12/02/16 15:50

796774



Analytical Results

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248

CLIENT

GeoLogic NY, Inc.

Project:

210087 Annual

W Order:

K1611165

Matrix:

WATER

Inst. ID:

MS04 73

ColumnID: Rtx-VMS 12/02/16 15:45

Sample Size 10 mL %Moisture:

TestCode: 8260W Lab ID:

K1611165-004A

Client Sample ID: MW-4S

Collection Date: Date Received:

11/14/16 15:55 11/16/16 17:05

PrepDate:

BatchNo: FileID:

R30519

1-SAMP-R2109.D

Revision: Col Type:

Analyte	Result Qı	ıal PQL	MDL	Units	DF	Date Analyzed		
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260C/5030C			
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/18/16 12:04		
1,1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/18/16 12:04		
cis-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 12:04		
Tetrachloroethene	ND	0.50	0.10	μg/L	1	11/18/16 12:04		
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 12:04		
Trichloroethene	0.58	0.50	0.10	μg/L	1	11/18/16 12:04		
Vinyl chloride	ND	1.00	0.33	μg/L	1	11/18/16 12:04		
Surr: 1,2-Dichloroethane-d4	108	75-130	0.16	%REC	1	11/18/16 12:04		
Surr: Toluene-d8	103	75-125	0.10	%REC	1	11/18/16 12:04		
Surr: 4-Bromofluorobenzene	102	75-125	0.10	%REC	1	11/18/16 12:04		

Qualifiers:

Value may exceed the Acceptable Level

Value exceeds the instrument calibration range

Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

Spike Recovery outside accepted recovery limits

Print Date: 12/02/16 15:50

796775



Analytical Results

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248

CLIENT Project:

GeoLogic NY, Inc.

210087 Annual

W Order: Matrix:

K1611165 WATER

Inst. ID:

MS04 73

ColumnID: Rtx-VMS

12/02/16 15:45

Sample Size 10 mL

%Moisture: TestCode: 8260W Lab ID:

K1611165-005A

Client Sample ID: MW-4D

Collection Date: Date Received:

11/14/16 16:15 11/16/16 17:05

PrepDate:

BatchNo:

R30519

FileID: 1-SAMP-R2110.D

Revision: Col Type:

Analyte	Result Qu	al PQL	MDL	Units	DF	Date Analyzed		
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260C/5030C			
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/18/16 12:51		
1,1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/18/16 12:51		
cis-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 12:51		
Tetrachloroethene	ND	0.50	0.10	μg/L	1	11/18/16 12:51		
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 12:51		
Trichloroethene	0.39 J	0.50	0.10	μg/L	1	11/18/16 12:51		
Vinyl chloride	ND	1.00	0.33	μg/L	1	11/18/16 12:51		
Surr: 1,2-Dichloroethane-d4	108	75-130	0.16	%REC	1	11/18/16 12:51		
Surr: Toluene-d8	102	75-125	0.10	%REC	1	11/18/16 12:51		
Surr: 4-Bromofluorobenzene	103	75-125	0.10	%REC	1	11/18/16 12:51		

Qualifiers:

Value may exceed the Acceptable Level

Value exceeds the instrument calibration range

Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

Spike Recovery outside accepted recovery limits

Print Date: 12/02/16 15:50 796776 Project Supervisor: David J Prichard



Analytical Results

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248

CLIENT Project:

GeoLogic NY, Inc.

210087 Annual

W Order: Matrix:

K1611165 WATER

Inst. ID:

MS04 73

ColumnID: Rtx-VMS

12/02/16 15:45

Sample Size 10 mL

%Moisture: TestCode:

8260W

K1611165-006A Lab ID:

Client Sample ID: MW-5S

Collection Date:

11/14/16 11:20 11/16/16 17:05

PrepDate:

Date Received:

BatchNo: FileID:

R30519

1-SAMP-R2111.D

Revision: Col Type:

Analyte	Result Qu	ıal PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUN	SW8260C/5030C					
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/18/16 13:38
1,1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/18/16 13:38
cis-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 13:38
Tetrachloroethene	ND	0.50	0.10	μg/L	1	11/18/16 13:38
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 13:38
Trichloroethene	0.62	0.50	0.10	μg/L	1	11/18/16 13:38
Vinyl chloride	ND	1.00	0.33	μg/L	1	11/18/16 13:38
Surr: 1,2-Dichloroethane-d4	105	75-130	0.16	%REC	1	11/18/16 13:38
Surr: Toluene-d8	102	75-125	0.10	%REC	1	11/18/16 13:38
Surr: 4-Bromofluorobenzene	103	75-125	0.10	%REC	1	11/18/16 13:38

Qualifiers:

Value may exceed the Acceptable Level

Value exceeds the instrument calibration range

Analyte detected below the PQL

Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

Print Date: 12/02/16 15:50 796777 Project Supervisor: David J Prichard



Analytical Results

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248 K1611165-007A

CLIENT Project:

GeoLogic NY, Inc.

210087 Annual

W Order: Matrix:

K1611165 WATER

Inst. ID:

MS04 73

ColumnID: Rtx-VMS

12/02/16 15:45

Sample Size 10 mL

%Moisture: TestCode:

8260W

PrepDate:

Collection Date:

Date Received:

Lab ID:

BatchNo: FileID:

R30519

Client Sample ID: MW-5D

1-SAMP-R2112.D

11/14/16 11:30

11/16/16 17:05

Revision: Col Type:

Analyte	Result Qu	ıal PQL	MDL	Units	DF	Date Analyzed		
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260C/5030C			
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/18/16 14:33		
1,1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/18/16 14:33		
cis-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 14:33		
Tetrachloroethene	ND	0.50	0.10	μg/L	1	11/18/16 14:33		
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 14:33		
Trichloroethene	1.60	0.50	0.10	μg/L	1	11/18/16 14:33		
Vinyl chloride	ND	1.00	0.33	μg/L	1	11/18/16 14:33		
Surr: 1,2-Dichloroethane-d4	106	75-130	0.16	%REC	1	11/18/16 14:33		
Surr: Toluene-d8	101	75-125	0.10	%REC	1	11/18/16 14:33		
Surr: 4-Bromofluorobenzene	102	75-125	0.10	%REC	1	11/18/16 14:33		

Qualifiers:

Value may exceed the Acceptable Level

Value exceeds the instrument calibration range

Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Analyte detected in the associated Method Blank

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

Spike Recovery outside accepted recovery limits

Print Date: 12/02/16 15:50

796778



Analytical Results

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1900

Sample Size 10 mL

%Moisture:

TestCode:

StateCertNo: 10248

CLIENT Project:

GeoLogic NY, Inc.

210087 Annual

W Order: Matrix:

K1611165 WATER

Inst. ID:

MS04 73

ColumnID: Rtx-VMS

12/02/16 15:45

8260W

Lab ID:

K1611165-008A

Client Sample ID: MW-6

Collection Date: Date Received:

11/15/16 12:35 11/16/16 17:05

PrepDate:

BatchNo:

R30519

FileID: 1-SAMP-R2113.D

Revision: Col Type:

Analyte	Result Qı	ıal PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUN	SW8260C/5030C					
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/18/16 15:06
1,1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/18/16 15:06
cis-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 15:06
Tetrachloroethene	ND	0.50	0.10	μg/L	1	11/18/16 15:06
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 15:06
Trichloroethene	2.31	0.50	0.10	μg/L	1	11/18/16 15:06
Vinyl chloride	ND	1.00	0.33	μg/L	1	11/18/16 15:06
Surr: 1,2-Dichloroethane-d4	105	75-130	0.16	%REC	1	11/18/16 15:06
Surr: Toluene-d8	102	75-125	0.10	%REC	1	11/18/16 15:06
Surr: 4-Bromofluorobenzene	103	75-125	0.10	%REC	1	11/18/16 15:06

Qualifiers:

Value may exceed the Acceptable Level

Value exceeds the instrument calibration range

Analyte detected below the POL

P Prim./Conf. column %D or RPD exceeds limit

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

Spike Recovery outside accepted recovery limits

Print Date: 12/02/16 15:50

796779



Analytical Results

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248

CLIENT

GeoLogic NY, Inc.

Lab ID:

K1611165-009A

Project:

Client Sample ID: MW-7

W Order:

210087 Annual

Collection Date:

11/15/16 11:05

Matrix:

K1611165 WATER

Date Received:

Inst. ID:

PrepDate:

11/16/16 17:05

ColumnID: Rtx-VMS

MS04 73

Sample Size 10 mL

BatchNo:

R30519

Revision:

12/02/16 15:45

%Moisture: TestCode: 8260W

FileID:

1-SAMP-R2114.D

Col Type:

Analyte	Result Qu	al PQL	MDL	Units	DF	Date Analyzed		
VOLATILE ORGANIC COMPOUNI	OS BY GC/MS	and the second s		SW8260C/5030C				
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/18/16 15:39		
1,1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/18/16 15:39		
cis-1,2-Dichloroethene	0.20 J	0.50	0.10	μg/L	1	11/18/16 15:39		
Tetrachloroethene	ND	0.50	0.10	µg/L	1	11/18/16 15:39		
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 15:39		
Trichloroethene	4,23	0.50	0.10	μg/L	1	11/18/16 15:39		
Vinyl chloride	ND	1.00	0.33	μg/L	1	11/18/16 15:39		
Surr: 1,2-Dichloroethane-d4	104	75-130	0.16	%REC	1	11/18/16 15:39		
Surr: Toluene-d8	102	75-125	0.10	%REC	1	11/18/16 15:39		
Surr: 4-Bromofluorobenzene	105	75-125	0.10	%REC	1	11/18/16 15:39		

Qualifiers:

Value may exceed the Acceptable Level

Value exceeds the instrument calibration range

Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Analyte detected in the associated Method Blank

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

Spike Recovery outside accepted recovery limits

Print Date: 12/02/16 15:50

796780



5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1900

Analytical Results

StateCertNo: 10248

CLIENT

GeoLogic NY, Inc.

Project:

210087 Annual

W Order: Matrix:

K1611165 WATER

Inst. ID:

Revision:

Col Type:

ColumnID: Rtx-VMS

MS04 73

12/02/16 15:45

Sample Size 10 mL %Moisture:

TestCode: 8260W Lab ID:

K1611165-010A

Client Sample ID: MW-8

Collection Date: Date Received:

11/15/16 14:15 11/16/16 17:05

PrepDate:

BatchNo:

R30519

FileID:

1-SAMP-R2115.D

Analyte	Result Qu	ıal PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUN	DS BY GC/MS			SW826	OC/5030C	
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/18/16 16:12
1,1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/18/16 16:12
cis-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 16:12
Tetrachloroethene	ND	0.50	0.10	μg/L	1	11/18/16 16:12
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 16:12
Trichloroethene	0.87	0.50	0.10	μg/L	1	11/18/16 16:12
Vinyl chloride	ND	1.00	0.33	μg/L	1	11/18/16 16:12
Surr: 1,2-Dichloroethane-d4	104	75-130	0.16	%REC	1	11/18/16 16:12
Surr: Toluene-d8	101	75-125	0.10	%REC	1	11/18/16 16:12
Surr: 4-Bromofluorobenzene	103	75-125	0.10	%REC	1	11/18/16 16:12

Qualifiers:

Value may exceed the Acceptable Level

Value exceeds the instrument calibration range

Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

Spike Recovery outside accepted recovery limits

Print Date: 12/02/16 15:50

796781

Analytical Results

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248

CLIENT

GeoLogic NY, Inc.

Lab ID:

K1611165-011A

Project:

210087 Annual

Client Sample ID: MW-9

W Order:

K1611165

Matrix:

WATER

Collection Date: Date Received:

11/15/16 11:25 11/16/16 17:05

Inst. ID:

MS04 73

Sample Size 10 mL

8260W

PrepDate:

R30519

Revision:

ColumnID: Rtx-VMS 12/02/16 15:45 %Moisture: TestCode:

BatchNo: FileID:

1-SAMP-R2116.D

Col Type:

Analyte	Result Qı	ıal PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUN	IDS BY GC/MS		Water Section of English Section	SW8260	OC/5030C	
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/18/16 16:45
1,1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/18/16 16:45
cis-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 16:45
Tetrachloroethene	ND	0.50	0.10	μg/L	1	11/18/16 16:45
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 16:45
Trichloroethene	0.69	0.50	0.10	μg/L	1	11/18/16 16:45
Vinyl chloride	ND	1.00	0.33	μg/L	1	11/18/16 16:45
Surr: 1,2-Dichloroethane-d4	105	75-130	0.16	%REC	1	11/18/16 16:45
Surr: Toluene-d8	101	75-125	0.10	%REC	1	11/18/16 16:45
Surr: 4-Bromofluorobenzene	103	75-125	0.10	%REC	1	11/18/16 16:45

Qualifiers:

Value may exceed the Acceptable Level

Value exceeds the instrument calibration range

Analyte detected below the POL

P Prim./Conf. column %D or RPD exceeds limit

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

Spike Recovery outside accepted recovery limits

Print Date: 12/02/16 15:50

796782



Analytical Results

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248 K1611165-012A

CLIENT Project:

GeoLogic NY, Inc.

210087 Annual

W Order: K1611165 Matrix: WATER

Inst. ID: MS04_73

ColumnID: Rtx-VMS

Revision: 12/02/16 15:45

Sample Size 10 mL

%Moisture: TestCode: 8260W PrepDate:

Collection Date:

Date Received:

Lab ID:

BatchNo: FileID:

R30519

Client Sample ID: MW-10S

1-SAMP-R2117.D

11/14/16 14:25

11/16/16 17:05

Col Type:

Analyte	Result Qu	al PQL	MDL	Units	DF	Date Analyzed	
VOLATILE ORGANIC COMPOUN	DS BY GC/MS			SW8260C/5030C			
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/18/16 17:18	
1,1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/18/16 17:18	
cis-1,2-Dichloroethene	0.32 J	0.50	0.10	μg/L	1	11/18/16 17:18	
Tetrachloroethene	ND	0.50	0.10	μg/L	1	11/18/16 17:18	
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 17:18	
Trichloroethene	6.42	0.50	0.10	μg/L	1	11/18/16 17:18	
Vinyl chloride	ND	1.00	0.33	μg/L	1	11/18/16 17:18	
Surr: 1,2-Dichloroethane-d4	105	75-130	0.16	%REC	1	11/18/16 17:18	
Surr: Toluene-d8	103	75-125	0.10	%REC	1	11/18/16 17:18	
Surr: 4-Bromofluorobenzene	105	75-125	0.10	%REC	1	11/18/16 17:18	

Qualifiers:

Value may exceed the Acceptable Level

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

Print Date: 12/02/16 15:50

796783



East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248

CLIENT GeoLogic NY, Inc. Project: 210087 Annual

W Order: K1611165

Matrix: WATER Inst. ID: MS04 73

ColumnID: Rtx-VMS

Revision: 12/02/16 15:45

Sample Size 10 mL

TestCode: 8260W

%Moisture:

K1611165-013A Lab ID:

Client Sample ID: MW-10D

Collection Date: Date Received:

11/14/16 14:40 11/16/16 17:05

PrepDate:

BatchNo:

R30519

FileID: 1-SAMP-R2118.D

Col Type:

Analyte	Result Qu	al PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUN	DS BY GC/MS			SW826	OC/50300	
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/18/16 17:50
1,1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/18/16 17:50
cis-1,2-Dichloroethene	0.21 J	0.50	0.10	μg/L	1	11/18/16 17:50
Tetrachloroethene	ND	0.50	0.10	μg/L	1	11/18/16 17:50
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 17:50
Trichloroethene	7.59	0.50	0.10	μg/L	1	11/18/16 17:50
Vinyl chloride	ND	1.00	0.33	μg/L	1	11/18/16 17:50
Surr: 1,2-Dichloroethane-d4	106	75-130	0.16	%REC	1	11/18/16 17:50
Surr: Toluene-d8	102	75-125	0.10	%REC	1	11/18/16 17:50
Surr: 4-Bromofluorobenzene	103	75-125	0.10	%REC	1	11/18/16 17:50

Qualifiers:

Value may exceed the Acceptable Level

Value exceeds the instrument calibration range

Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

Spike Recovery outside accepted recovery limits

Print Date: 12/02/16 15:50

796784



Analytical Results

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248

CLIENT Project:

GeoLogic NY, Inc.

210087 Annual

W Order: Matrix:

K1611165 WATER

Inst. ID:

MS04 73

ColumnID: Rtx-VMS 12/02/16 15:45

Sample Size 10 mL

%Moisture:

TestCode: 8260W

K1611165-014A Lab ID:

Client Sample ID: MW-11

Collection Date: Date Received:

11/15/16 10:45 11/16/16 17:05

PrepDate:

BatchNo: FileID:

R30519

1-SAMP-R2119.D

Revision: Col Type:

Analyte	Result Qu	ıal PQL	MDL	Units	DF	Date Analyzed	
VOLATILE ORGANIC COMPOUN	IDS BY GC/MS			SW8260C/5030C			
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/18/16 18:23	
1,1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/18/16 18:23	
cis-1,2-Dichloroethene	0.54	0.50	0.10	μg/L	1	11/18/16 18:23	
Tetrachloroethene	ND	0.50	0.10	μg/L	1	11/18/16 18:23	
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 18:23	
Trichloroethene	2.93	0.50	0.10	μg/L	1	11/18/16 18:23	
Vinyl chloride	ND	1.00	0.33	μg/L	1	11/18/16 18:23	
Surr: 1,2-Dichloroethane-d4	104	75-130	0.16	%REC	1	11/18/16 18:23	
Surr: Toluene-d8	101	75-125	0.10	%REC	1	11/18/16 18:23	
Surr: 4-Bromofluorobenzene	102	75-125	0.10	%REC	1	11/18/16 18:23	

Qualifiers:

Value may exceed the Acceptable Level

Value exceeds the instrument calibration range

Analyte detected below the PQL

Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

Print Date: 12/02/16 15:50 796785 Project Supervisor: David J Prichard



East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248

CLIENT GeoLogic NY, Inc. **Project:** 210087 Annual

W Order: K1611165 WATER Matrix:

Inst. ID: MS04 73

ColumnID: Rtx-VMS **Revision:**

12/02/16 15:45

Sample Size 10 mL

%Moisture: TestCode: 8260W

K1611165-015A Lab ID:

Client Sample ID: MW-12S **Collection Date:** 11/15/16 9:20 11/16/16 17:05 **Date Received:**

PrepDate:

BatchNo: FileID:

R30519

1-SAMP-R2120.D

Col Type:

Analyte	Result Qu	al PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUN	DS BY GC/MS	gang gang ang gang gang dan dan gang pagan ti pinan dah mbaya dag ad		SW8260	C/5030C	
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/18/16 18:56
1,1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/18/16 18:56
cis-1,2-Dichloroethene	0.11 J	0.50	0.10	μg/L	1	11/18/16 18:56
Tetrachloroethene	ND	0.50	0.10	μg/L	1	11/18/16 18:56
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 18:56
Trichloroethene	3.08	0.50	0.10	μg/L	1	11/18/16 18:56
Vinyl chloride	ND	1.00	0.33	μg/L	1	11/18/16 18:56
Surr: 1,2-Dichloroethane-d4	107	75-130	0.16	%REC	1	11/18/16 18:56
Surr: Toluene-d8	102	75-125	0.10	%REC	1	11/18/16 18:56
Surr: 4-Bromofluorobenzene	106	75-125	0.10	%REC	1	11/18/16 18:56

Qualifiers:

Value may exceed the Acceptable Level

Value exceeds the instrument calibration range

Analyte detected below the PQL

Prim./Conf. column %D or RPD exceeds limit

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

Spike Recovery outside accepted recovery limits

Print Date: 12/02/16 15:50 796786 Project Supervisor: David J Prichard



Analytical Results

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248

CLIENT GeoLogic NY, Inc.

Project:

210087 Annual

W Order:

K1611165

Matrix:

WATER

Inst. ID:

MS04 73

ColumnID: Rtx-VMS

12/02/16 15:45

Sample Size 10 mL %Moisture:

TestCode: 8260W

K1611165-016A Lab ID:

Client Sample ID: MW-12D

Collection Date: Date Received:

11/15/16 9:30 11/16/16 17:05

PrepDate:

BatchNo: FileID:

R30519

1-SAMP-R2121.D

Revision: Col Type:

Analyte	Result Qu	ıal PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUN	DS BY GC/MS			SW8260	C/5030C	
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/18/16 19:29
1,1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/18/16 19:29
cis-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 19:29
Tetrachloroethene	ND	0.50	0.10	μg/L	1	11/18/16 19:29
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 19:29
Trichloroethene	2.05	0.50	0.10	μg/L	1	11/18/16 19:29
Vinyl chloride	ND	1.00	0.33	μg/L	1	11/18/16 19:29
Surr: 1,2-Dichloroethane-d4	105	75-130	0.16	%REC	1	11/18/16 19:29
Surr: Toluene-d8	102	75-125	0.10	%REC	1	11/18/16 19:29
Surr: 4-Bromofluorobenzene	103	75-125	0.10	%REC	1	11/18/16 19:29

Qualifiers:

Value may exceed the Acceptable Level

Value exceeds the instrument calibration range

Analyte detected below the PQL

Prim./Conf. column %D or RPD exceeds limit

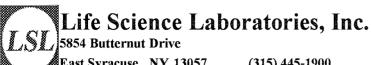
Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

Spike Recovery outside accepted recovery limits

Print Date: 12/02/16 15:50 796787 Project Supervisor: David J Prichard



East Syracuse, NY 13057

(315) 445-1900

8260W

StateCertNo: 10248 K1611165-017A

CLIENT Project:

GeoLogic NY, Inc. 210087 Annual

W Order:

K1611165

Matrix:

WATER

Inst. ID:

ColumnID: Rtx-VMS

Revision: 12/02/16 15:45

MS04 73 Sample Size 10 mL %Moisture:

TestCode:

Client Sample ID: MW-L16 **Collection Date:** 11/15/16 13:35

Date Received:

11/16/16 17:05

PrepDate:

BatchNo: FileID:

Lab ID:

R30519

1-SAMP-R2122.D

Col Type:

Analyte	Result Qua	al PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS	S BY GC/MS			SW8260	OC/5030C	>
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/18/16 20:02
1,1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/18/16 20:02
cis-1,2-Dichloroethene	0.17 J	0.50	0.10	μg/L	1	11/18/16 20:02
Tetrachloroethene	ND	0.50	0.10	μg/L	1	11/18/16 20:02
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 20:02
Trichloroethene	3.00	0.50	0.10	μg/L	1	11/18/16 20:02
Vinyl chloride	ND	1.00	0.33	μg/L	1	11/18/16 20:02
Surr: 1,2-Dichloroethane-d4	107	75-130	0.16	%REC	1	11/18/16 20:02
Surr: Toluene-d8	104	75-125	0.10	%REC	1	11/18/16 20:02
Surr: 4-Bromofluorobenzene	107	75-125	0.10	%REC	1	11/18/16 20:02

Qualifiers:

Value may exceed the Acceptable Level

Value exceeds the instrument calibration range

Analyte detected below the PQL

Prim./Conf. column %D or RPD exceeds limit

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

Spike Recovery outside accepted recovery limits

Print Date: 12/02/16 15:50 Project Supervisor: David J Prichard 796788



Analytical Results

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248 K1611165-018A

CLIENT GeoLogic NY, Inc. 210087 Annual **Project:**

ColumnID: Rtx-VMS

K1611165

WATER Q MS04 73

12/02/16 15:45

Sample Size 10 mL

TestCode:

%Moisture:

8260W

PrepDate:

11/16/16 17:05

09/13/16 0:00

Collection Date:

Date Received:

BatchNo:

R30519

Client Sample ID: Trip Blank

FileID:

Lab ID:

1-SAMP-R2127.D

Revision: Col Type:

W Order:

Matrix: Inst. ID:

Analyte	Result Qu	ıal PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUND	S BY GC/MS			SW8260	C/50300	
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/18/16 22:46
1,1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/18/16 22:46
cis-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 22:46
Tetrachloroethene	ND	0.50	0.10	μg/L	1	11/18/16 22:46
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 22:46
Trichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 22:46
Vinyl chloride	ND	1.00	0.33	μg/L	1	11/18/16 22:46
Surr: 1,2-Dichloroethane-d4	104	75-130	0.16	%REC	1	11/18/16 22:46
Surr: Toluene-d8	101	75-125	0.10	%REC	1	11/18/16 22:46
Surr: 4-Bromofluorobenzene	105	75-125	0.10	%REC	1	11/18/16 22:46

Qualifiers:

Value may exceed the Acceptable Level

Value exceeds the instrument calibration range

Analyte detected below the PQL

Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

Spike Recovery outside accepted recovery limits

Print Date: 12/02/16 15:50 796793 Project Supervisor: David J Prichard



(315) 445-1900

StateCertNo: 10248

CLIENT

GeoLogic NY, Inc.

K1611165-019A

Project:

210087 Annual

W Order:

K1611165

Client Sample ID: Equipment Blank

Matrix:

Collection Date: Date Received:

11/15/16 14:30 11/16/16 17:05

Inst. ID:

EQUIPMENT BLANK

Sample Size 10 mL

PrepDate:

ColumnID: Rtx-VMS

MS04_73

%Moisture:

BatchNo:

R30519

Revision:

12/02/16 15:45

TestCode: 8260W

FileID:

Lab ID:

1-SAMP-R2128.D

Col Type:

Analyte	Result Qu	al PQL	MDL	Units	DF	Date Analyzed	
VOLATILE ORGANIC COMPOUND	S BY GC/MS			SW8260C/5030C			
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/18/16 23:19	
1,1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/18/16 23:19	
cis-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 23:19	
Tetrachloroethene	ND	0.50	0.10	μg/L	1	11/18/16 23:19	
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 23:19	
Trichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 23:19	
Vinyl chloride	ND	1.00	0.33	μg/L	1	11/18/16 23:19	
Surr: 1,2-Dichloroethane-d4	106	75-130	0.16	%REC	1	11/18/16 23:19	
Surr: Toluene-d8	103	75-125	0.10	%REC	1	11/18/16 23:19	
Surr: 4-Bromofluorobenzene	101	75-125	0.10	%REC	1	11/18/16 23:19	

Qualifiers:

Value may exceed the Acceptable Level

Value exceeds the instrument calibration range

Analyte detected below the PQL

Prim./Conf. column %D or RPD exceeds limit

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

Spike Recovery outside accepted recovery limits

Print Date: 12/02/16 15:50 Project Supervisor: David J Prichard 796794

Geologic NY, Inc. KIGI1165 CHAIN OF CUSTODY RECORD

CLIENT: GeoLogic

Trichloroethene Tetrachloroethene Vinyl Chloride

SAMPLER NAME:

PROJECT: 210087 2016 Annual Sampling 1of 2 C. T. Gabriel

SAMPLE LOCATION	DATE	TIME	S	AMPLE TYP	PE	NO. of SAMPLES	1	ALYSIS DUIRED
			WATER	SOIL	AIR	1		2020
001 MW-1S	11-14	12:15	х			2	See Below	
GOZ MW-1D	11-14	12:20	x			2	See	Below
ംദ്ര MW-2S	11-14	13:30	х			2	See	Below
GGY MW-4S	11-14	15:55	х			2	See	Below
∞6≤ MW-4D	11-14	16:15	Х			2	See	Below
006 MW-5S	11-14	11:20	Х			2	See	Below
667 MW-5D	11-14	11:30	Х			2		Below
GOS MW-6	11-15	12:35	Х			2	See	Below
609 MW-7	11-15	11:05	Х			2		Below
010 MW-8	11-15	14:15	Х			2	See	Below
Relinquished by:		Date	Time		Received by	y:	Date	Time
CT. Garal of Geologic,	WILL.	11-15-2016	1500	Geologic Sample Frig 11				1500
Relinquished by:		Date	Time		Received by	y:	Date	Time
Globage Sample Frig	i			Bell	Doralla	m	11-16-16	1455
Relinquished by: 13. A Ochaldza		Date	Time	Rec	ceived for La		Date / !- ! ! - ! ! !	Time 17:05
Method of Shipment:	AB PICK-U	JP		TEMP	3	CON	Σcε	
COMMENTS:		-/-						
Sample Analysis (1 µg/L report	ing limit)	Ę						
EPA 8260B for								
1,1,1-Trichloroethane								
1,1-Dichloroethene								
1,2-Dichloroethene								

GeoLogic NY, Inc. CHAIN OF CUSTODY RECORD K 1611 165

CLIENT: GeoLogic SAMPLER NAME:

PROJECT: 210087 2016 Annual Sampling 2of 2 C. T. Gabriel

SAMPLE LOCATION	DATE	TIME	S	SAMPLE TYPE NO. of SAMPLES				
			WATER	SOIL	AIR			
0 11 MW-9	11-15	11:25	X			2	See	Below
612 MW-10S	11-14	14:25	х			2	See	Below
613 MW-10D	11-14	14:40	х			2	See	Below
ory MW-11	11-15	10:45	х			2	See	Below
ত। / MW-12S	11-15	9:20	х			2	See	Below
016 MW-12D	11-15	9:30	х			2	See	Below
617 MW-L16	11-15	13:35	х			2	See	Below
Gเช Trip Blank	9-13	none	х			2	See	Below
ઠાવ Equipment Blank	11-15	14:30	Х			2	See	Below
					-		-	
Relinquished by:		Date	Time		Received b	y:	Date	Time
C.T. Gabriel of Geologic	My Suc.	11-15-2216	1500	Geologic Sample Frig 11-			11-15-216	1500
Relinquished by:		Date	Time				Date	Time
Globage Sumple Frig				Bell	Dorall	KN	11-16-76	1455
Relinquished by:		Date	Time	Red	ceived for La	ab by:	Date	Time
Bell Ochallan		1016-Î6						
Wethod of Shipment:	AB PICK-U	JP \		TEMP	3	O Com		
					No. of Street, or other parts of the			
COMMENTS:								
Sample Analysis (1 µg/L report	ting limit)							
EPA 8260B for								
1,1,1-Trichloroethane								
,1-Dichloroethene								
1,2-Dichloroethene								
Trichloroethene								

Tetrachloroethene Vinyl Chloride

Sample Receipt Checklist

Client Name: GEOLOGIC		Date and Time Received: 11/16/2016 5:05:0				
Work Order Number: K1611165		Received by: gis				
Checklist completed by:	11-16-R Date	Reviewed by:	Celelic Date			
Delivery !	Method: <u>Courier</u>					
Shipping container/cooler in good condition?	Yes 🗸	No Not Present				
Custody seals intact on shipping container/cooler?	Yes	No Not Present	<u> </u>			
Custody seals intact on sample bottles?	Yes	No Not Applicable	2			
Chain of custody present?	Yes 🗸	No 🗔				
Chain of custody signed when relinquished and received?	Yes 🗹	No 🗔				
Chain of custody agrees with sample labels?	Yes 🔽	No 🗔				
Samples in proper container/bottle?	Yes 🗸	No 🗀				
Sample containers intact?	Yes 🗸	No 🗔				
Sufficient sample volume for indicated test?	Yes 🗸	No 🗔				
All samples received within holding time?	Yes 🔽	No 🗍				
Container/Temp Blank temperature in compliance?	Yes 🔽	No 🗌				
Water - VOA vials have zero headspace?	Yes 🗸	No No VOA vials subm	itted			
Water - pH acceptable upon receipt?	Yes 🗌	No ☐ Not Applicable ☑	2			
Comments:						
Corrective Action:						



Tuesday, December 06, 2016

Mr. Christopher Gabriel GeoLogic NY, Inc. 37 Copeland Ave. Homer, NY 13077

TEL: 607 749-5000

Project: 210087

RE: Analytical Results

Order No.: K1611164

Dear Mr. Christopher Gabriel:

Life Science Laboratories, Inc. received 4 sample(s) on 11/16/2016 for the analyses presented in the following report. Sample results relate only to the samples as received by the laboratory.

Very truly yours,

Life Science Laboratories, Inc.

David J Prichard Project Manager



East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248 K1611164-001A

11/16/16 9:00

11/16/16 17:05

CLIENT GeoLogic NY, Inc.

210087

K1611164

W Order: Matrix: WATER

Inst. ID: MS04 73

ColumnID: Rtx-VMS

12/02/16 15:45

Sample Size 10 mL

%Moisture: TestCode: 8260W

PrepDate: BatchNo:

Collection Date:

Date Received:

Lab ID:

R30519

Client Sample ID: Cascade

FileID:

1-SAMP-R2123.D

Revision: Col Type:

Project:

Analyte	Result Qu	ıal PQL	MDL	Units	DF	Date Analyzed		
VOLATILE ORGANIC COMPOUN	DS BY GC/MS			SW826	SW8260C/5030C			
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/18/16 20:34		
1,1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/18/16 20:34		
cis-1,2-Dichloroethene	ND	0,50	0.10	μg/L	1	11/18/16 20:34		
Tetrachloroethene	ND	0.50	0.10	μg/L	1	11/18/16 20:34		
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 20:34		
Trichloroethene	0.65	0.50	0.10	μg/L	1	11/18/16 20:34		
Vinyl chloride	ND	1.00	0.33	μg/L	1	11/18/16 20:34		
Surr: 1,2-Dichloroethane-d4	109	75-130	0.16	%REC	1	11/18/16 20:34		
Surr: Toluene-d8	96	75-125	0.10	%REC	1	11/18/16 20:34		
Surr: 4-Bromofluorobenzene	104	75-125	0.10	%REC	1	11/18/16 20:34		

Qualifiers:

Value may exceed the Acceptable Level

Value exceeds the instrument calibration range

Analyte detected below the PQL

Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

Print Date: 12/02/16 15:49

796789

5854 Butternut Drive

Life Science Laboratories, Inc.

Analytical Results

East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248 K1611164-002A

GeoLogic NY, Inc. Lab ID:

Project: 210087

K1611164

Matrix: WATER Inst. ID: MS04 73

ColumnID: Rtx-VMS

12/02/16 15:45

Sample Size 10 mL

%Moisture: TestCode:

Date Received:

BatchNo: 8260W FileID:

Client Sample ID: Tower Discharge 11/16/16 9:15

11/16/16 17:05

PrepDate:

Collection Date:

R30519

1-SAMP-R2124.D

Revision: Col Type:

CLIENT

W Order:

Analyte	Result Qu	ıal PQL	MDL	Units	DF	Date Analyzed		
VOLATILE ORGANIC COMPOUN	DS BY GC/MS	and the second s		SW8260	SW8260C/5030C			
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/18/16 21:07		
1,1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/18/16 21:07		
cis-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 21:07		
Tetrachloroethene	ND	0.50	0.10	μg/L	1	11/18/16 21:07		
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 21:07		
Trichloroethene	1.46	0.50	0.10	μg/L	1	11/18/16 21:07		
Vinyl chloride	ND	1.00	0.33	μg/L	1	11/18/16 21:07		
Surr: 1,2-Dichloroethane-d4	109	75-130	0.16	%REC	1	11/18/16 21:07		
Surr: Toluene-d8	98	75-125	0.10	%REC	1	11/18/16 21:07		
Surr: 4-Bromofluorobenzene	104	75-125	0.10	%REC	1	11/18/16 21:07		

Qualifiers:

Value may exceed the Acceptable Level

Value exceeds the instrument calibration range

Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

Spike Recovery outside accepted recovery limits

Print Date: 12/02/16 15:49 796790 Project Supervisor: David J Prichard

Analytical Results

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248

CLIENT GeoLogic NY, Inc.

Project: 210087

W Order: K1611164 Matrix: WATER

Inst. ID: MS04 73

ColumnID: Rtx-VMS

Sample Size 10 mL %Moisture:

Revision: 12/02/16 15:45 TestCode: 8260W

K1611164-003A Lab ID: Client Sample ID: Tower Influent

Collection Date: 11/16/16 9:25 **Date Received:** 11/16/16 17:05

PrepDate:

BatchNo: R30519

FileID: 1-SAMP-R2125.D

Col Type:

Analyte	Result Qu	al POI	MDL	Units	DF	Date Analyzed		
Analyte	Kesuit Qi	iai FQL	MIDI	Units	υr	Date Analyzeu		
VOLATILE ORGANIC COMPOUNI	DS BY GC/MS			SW826	SW8260C/5030C			
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/18/16 21:40		
1,1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/18/16 21:40		
cis-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 21:40		
Tetrachloroethene	ND	0.50	0.10	μg/L	1	11/18/16 21:40		
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 21:40		
Trichloroethene	3.36	0.50	0.10	μg/L	1	11/18/16 21:40		
Vinyl chloride	ND	1.00	0.33	μg/L	1	11/18/16 21:40		
Surr: 1,2-Dichloroethane-d4	109	75-130	0.16	%REC	1	11/18/16 21:40		
Surr: Toluene-d8	96	75-125	0.10	%REC	1	11/18/16 21:40		
Surr: 4-Bromofluorobenzene	101	75-125	0.10	%REC	1	11/18/16 21:40		

Qualifiers:

Value may exceed the Acceptable Level

Value exceeds the instrument calibration range

Analyte detected below the POL

P Prim./Conf. column %D or RPD exceeds limit

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

Spike Recovery outside accepted recovery limits

Print Date: 12/02/16 15:49

796791



Col Type:

Life Science Laboratories, Inc.

Analytical Results

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248

CLIENT GeoLogic NY, Inc.

Project: 210087

W Order: K1611164 Matrix: WATER Q

MS04 73 Inst. ID:

ColumnID: Rtx-VMS

12/02/16 15:45 **Revision:**

Sample Size 10 mL %Moisture:

TestCode: 8260W K1611164-004A

Lab ID: Client Sample ID: Trip Blank

Collection Date: Date Received:

09/13/16 0:00 11/16/16 17:05

PrepDate:

BatchNo:

R30519

FileID:

1-SAMP-R2126.D

Analyte	Result Qı	ıal PQL	MDL	Units	DF	Date Analyzed		
VOLATILE ORGANIC COMPOUNI	DS BY GC/MS			SW8260	SW8260C/5030C			
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/18/16 22:13		
1,1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/18/16 22:13		
cis-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 22:13		
Tetrachloroethene	ND	0.50	0.10	μg/L	1	11/18/16 22:13		
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 22:13		
Trichloroethene	ND	0.50	0.10	μg/L	1	11/18/16 22:13		
Vinyl chloride	ND	1.00	0.33	μg/L	1	11/18/16 22:13		
Surr: 1,2-Dichloroethane-d4	108	75-130	0.16	%REC	1	11/18/16 22:13		
Surr: Toluene-d8	95	75-125	0.10	%REC	1	11/18/16 22:13		
Surr: 4-Bromofluorobenzene	104	75-125	0.10	%REC	1	11/18/16 22:13		

Qualifiers:

Value may exceed the Acceptable Level

Value exceeds the instrument calibration range

Analyte detected below the PQL

Prim./Conf. column %D or RPD exceeds limit

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

Spike Recovery outside accepted recovery limits

Print Date: 12/02/16 15:49 796792 Project Supervisor: David J Prichard

Geologic NY, Inc. CHAIN OF CUSTODY RECORD

K1611164

CLIENT: GeoLogic

SAMPLERS NAME(S):

PROJECT: 210087

C. T. Gabriel

	SAMPLE LOCATION	DATE	TIME	S.A	MPLE TYP	E	NO. of		LYSIS JIRED
	SAMPLE LOCATION	DAIL		WATER	SOIL	AIR			
	Cascade	11-16	9:00	Х			2	See I	Below
	Tower Discharge	11-16	9:15	Х			2		<i>,,</i>
, -	Tower Influent	11-16	9:25	х			2		,,
1	Trip Blank	9-13		x			2		,,
-									
-									
-	William Control of the Control of th								<u> </u>
-									<u></u>
r									,
ŀ	Relinquished by:		Date	Time		Received b	- <u>-</u> py:	Date Tin	
	C.T. Gasord & Geolog	LAY Juc.	11-16-726	10:45	berlugit.	Sample 1	Frig	11-16-2016	10:45
-	Relinquished by:		Date	Time		Received b	oy:	Date	Time
	Geologic Sample Frig				Bell	Dorald.	HD.	11-16-16	1955
╠	Relinquished by:		Date	Time		eceived for L		Date	Time
	Bell Doraldson		wish	1		455.5	4	11-16-16	17105
	Method of Shipment:	AB PICK	-UP		TE	MP	300	ONICE	
			/					-	
-	COMMENTS:		f			<u></u>			
	Sample Analysis (1 µg/L repor	rting limit)							
	EPA 8260B for								
	1,1,1-Trichloroethane								
	1,1-Dichloroethene								
	1,2-Dichloroethene								
	Trichloroethene								
	Tetrachloroethene								
	Vinyl Chloride								

Sample Receipt Checklist

Client Name: GEOLOGIC		Date and Time Receiv	ed: 11/16/2016 5:05:00 PM
Work Order Number: K1611164		Received by:	gis
Checklist completed by:	1\~16~16 Date	Reviewed by:	Date Date
Deliv	very Method: Courier		
Shipping container/cooler in good condition?	Yes 🗸	No Not Pres	ent [
Custody seals intact on shipping container/cooler?	Yes	No Not Pres	ent 🗹
Custody seals intact on sample bottles?	Yes	No 🗌 Not Appl	icable 🗹
Chain of custody present?	Yes 🗹	No 🗌	
Chain of custody signed when relinquished and received?	Yes 🗹	No 🗌	
Chain of custody agrees with sample labels?	Yes 🗹	No 🗔	
Samples in proper container/bottle?	Yes 🗸	No 🗔	
Sample containers intact?	Yes 🔽	No 🗌	
Sufficient sample volume for indicated test?	Yes 🗸	No 🗔	
All samples received within holding time?	Yes 🗹	No 🗌	
Container/Temp Blank temperature in compliance?	Yes 🗹	No 🗌	
Water - VOA vials have zero headspace?	Yes 🗸	No 🗌 No VOA vi	als submitted
Water - pH acceptable upon receipt?	Yes 🗌	No Not Appl	icable 🗹

Corrective Action:

Comments:



Thursday, December 29, 2016

Mr. Christopher Gabriel GeoLogic NY, Inc. 37 Copeland Ave. Homer, NY 13077

TEL: 607 749-5000

Project: 210087

RE: Analytical Results

Order No.: K1612259

Dear Mr. Christopher Gabriel:

Life Science Laboratories, Inc. received 4 sample(s) on 12/20/2016 for the analyses presented in the following report. Sample results relate only to the samples as received by the laboratory.

Very truly yours,

Life Science Laboratories, Inc.

David J Prichard Project Manager



East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248

CLIENT Project:

GeoLogic NY, Inc.

210087

W Order: Matrix:

K1612259 WATER

Inst. ID:

MS04 73

ColumnID: Rtx-VMS

12/29/16 13:20

Sample Size 10 mL

%Moisture: TestCode:

8260W

K1612259-001A Lab ID:

Client Sample ID: Cascade

Collection Date: Date Received:

12/19/16 14:30 12/20/16 16:50

PrenDate:

BatchNo: FileID:

R30641

1-SAMP-R2234.D

Revision: Col Type:

Analyte	Result Qu	al PQL	MDL	Units	DF	Date Analyzed		
VOLATILE ORGANIC COMPOUN	DS BY GC/MS			SW8260	SW8260C/5030C			
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	12/22/16 17:55		
1,1-Dichloroethene	ND	0.50	0.16	μg/L	1	12/22/16 17:55		
cis-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	12/22/16 17:55		
Tetrachloroethene	ND	0.50	0.10	μg/L	1	12/22/16 17:55		
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	12/22/16 17:55		
Trichloroethene	0.78	0.50	0.10	μg/L	1	12/22/16 17:55		
Vinyl chloride	ND	1.00	0.33	μg/L	1	12/22/16 17:55		
Surr: 1,2-Dichloroethane-d4	107	75-130	0.16	%REC	1	12/22/16 17:55		
Surr: Toluene-d8	100	75-125	0.10	%REC	1	12/22/16 17:55		
Surr: 4-Bromofluorobenzene	100	75-125	0.10	%REC	1	12/22/16 17:55		

Qualifiers:

Value may exceed the Acceptable Level

Value exceeds the instrument calibration range

Analyte detected below the PQL

Prim./Conf. column %D or RPD exceeds limit

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

Print Date: 12/29/16 13:21 807447 Project Supervisor: David J Prichard



East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248

CLIENT GeoLogic NY, Inc.

Project: 210087

W Order: K1612259 Matrix: WATER

MS04 73 Inst. ID:

ColumnID: Rtx-VMS

Revision: 12/29/16 13:20 Sample Size 10 mL

%Moisture:

TestCode: 8260W

K1612259-002A Lab ID:

Client Sample ID: Tower Discharge

Collection Date: Date Received:

12/19/16 14:45 12/20/16 16:50

PrenDate:

BatchNo: FileID:

R30641

1-SAMP-R2235.D

Col Type:

Analyte	Result Qu	ıal PQL	MDL	Units	DF	Date Analyzed	
VOLATILE ORGANIC COMPOUN	DS BY GC/MS			SW8260	SW8260C/5030C		
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	12/22/16 18:28	
1,1-Dichloroethene	ND	0.50	0.16	μg/L	1	12/22/16 18:28	
cis-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	12/22/16 18:28	
Tetrachloroethene	ND	0.50	0.10	μg/L	1	12/22/16 18:28	
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	12/22/16 18:28	
Trichloroethene	2.07	0.50	0.10	μg/L	1	12/22/16 18:28	
Vinyl chloride	ND	1.00	0.33	μg/L	1	12/22/16 18:28	
Surr: 1,2-Dichloroethane-d4	104	75-130	0.16	%REC	1	12/22/16 18:28	
Surr: Toluene-d8	100	75-125	0.10	%REC	1	12/22/16 18:28	
Surr: 4-Bromofluorobenzene	102	75-125	0.10	%REC	1	12/22/16 18:28	

Qualifiers:

Value may exceed the Acceptable Level

Value exceeds the instrument calibration range

Analyte detected below the PQL

Prim./Conf. column %D or RPD exceeds limit

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

Spike Recovery outside accepted recovery limits

Print Date: 12/29/16 13:21 807448 Project Supervisor: David J Prichard



East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248
K1612259-003A

12/19/16 14:55

12/20/16 16:50

CLIENT Project:

GeoLogic NY, Inc.

210087

W Order: K1612259

Matrix:

WATER

Inst. ID:

MS04_73

ColumnID: Rtx-VMS

Rtx-VMS

73 Sample Size 10 mL %Moisture:

Revision: 12/29/16 13:20

TestCode: 8260W

PrepDate:

Lab ID:

BatchNo:

R30641

Client Sample ID: Tower Influent

FileID:

Collection Date:

Date Received:

1-SAMP-R2236.D

Col Type:

Analyte	Result Qu	ıal PQL	MDL	Units	DF	Date Analyzed		
VOLATILE ORGANIC COMPOUN	DS BY GC/MS			SW826	SW8260C/5030C			
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	12/22/16 19:00		
1,1-Dichloroethene	ND	0.50	0.16	μg/L	1	12/22/16 19:00		
cis-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	12/22/16 19:00		
Tetrachloroethene	ND	0.50	0.10	μg/L	1	12/22/16 19:00		
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	12/22/16 19:00		
Trichloroethene	3.70	0.50	0.10	μg/L	1	12/22/16 19:00		
Vinyl chloride	ND	1.00	0.33	μg/L	1	12/22/16 19:00		
Surr: 1,2-Dichloroethane-d4	105	75-130	0.16	%REC	1	12/22/16 19:00		
Surr: Toluene-d8	100	75-125	0.10	%REC	1	12/22/16 19:00		
Surr: 4-Bromofluorobenzene	102	75-125	0.10	%REC	1	12/22/16 19:00		

Qualifiers:

Value may exceed the Acceptable Level

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

Print Date: 12/29/16 13:21 807449 Project Supervisor: David J Prichard



Analytical Results

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248

CLIENT GeoLogic NY, Inc.

Project: 210087 W Order: K1612259

WATER Q Matrix: Inst. ID: MS04 73

ColumnID: Rtx-VMS **Revision:**

12/29/16 13:20

Sample Size 10 mL

%Moisture: TestCode: 8260W

K1612259-004A Lab ID:

Client Sample ID: Trip Blank 09/13/16 0:00 **Collection Date:** 12/20/16 16:50 Date Received:

PrepDate:

BatchNo: R30641

FileID: 1-SAMP-R2237.D

Col Type:

Analyte	Result Qu	ıal PQL	MDL	Units	DF	Date Analyzed		
VOLATILE ORGANIC COMPOUN	IDS BY GC/MS	ATTO TO STATE OF THE PARTY OF T	Garmen is a resistance of the second	SW8260	SW8260C/5030C			
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	12/22/16 19:33		
1,1-Dichloroethene	ND	0.50	0.16	μg/L	1	12/22/16 19:33		
cis-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	12/22/16 19:33		
Tetrachloroethene	ND	0.50	0.10	μg/L	1	12/22/16 19:33		
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	12/22/16 19:33		
Trichloroethene	ND	0.50	0.10	μg/L	1	12/22/16 19:33		
Vinyl chloride	ND	1.00	0.33	μg/L	1	12/22/16 19:33		
Surr: 1,2-Dichloroethane-d4	106	75-130	0.16	%REC	1	12/22/16 19:33		
Surr: Toluene-d8	100	75-125	0.10	%REC	1	12/22/16 19:33		
Surr: 4-Bromofluorobenzene	101	75-125	0.10	%REC	1	12/22/16 19:33		

Qualifiers:

- Value may exceed the Acceptable Level
- Value exceeds the instrument calibration range
- Analyte detected below the PQL
- Prim./Conf. column %D or RPD exceeds limit
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- Spike Recovery outside accepted recovery limits

Print Date: 12/29/16 13:26 807450 Project Supervisor: David J Prichard

Geologic NY, Inc. CHAIN OF CUSTODY RECORD

CLIENT: GeoLogic

SAMPLERS NAME(S):

PROJECT: 210087

C. T. Gabriel

	SAMPLE LOCATION	DATE	TIME	SA	AMPLE TYP	E	NO. of SAMPLES	1	ALYSIS UIRED
				WATER	SOIL	AIR			
1	Cascade	12-19	14:30	Х			2	See	Below
	Tower Discharge	12-19	14:45	Х			2		ıı .
,	Tower Influent	12-19	14:55	Х			2		ıı .
(Trip Blank	9-13		Х			2		"
		- Camara Constitution and Constitution a							
	Relinquished by:	L	Date	Time		Received b	y:	Date	Time
(2	estre Coc Ger	Cogic	12-19-266	1545	Golg.	c Savuy	de Frig	12-19-246	1545
	Relinquished by:		Date	Time		Received b	y:	Date	Time
	Galoge Shoute 1	7.3		!	Bell	Ocrah	Inn.	12-20-16	9:20
	Relinquished by:		Date	Time	Re	ceived for La	ab by:	Date	Time
	Bell Dorallum		12-2016		(3)	5-	_	12-20-16	16:50
Me	thod of Shipment:	AB PICK-	JP	X	1	ЕМР	0.4	0C	
							Complet	Received	
1	MMENTS:							i Ice	
1	mple Analysis (1 µg/L report	ting limit)							di si
	A 8260B for								
	,1-Trichloroethane -Dichloroethene								
	2-Dichloroethene								
	chloroethene								
1	trachloroethene								
	yl Chloride								

Sample Receipt Checklist

Client Name: GEOLOGIC			Date and Time R	12/20/2016 4:50:00 PM	
Work Order Number: K1612259			Received by:	gis	
Checklist completed by:	3)	/2-20-16 Date	Reviewed by:	Initials	2/23/14 Date
	Delivery	Method: Courier			
Shipping container/cooler in good of	condition?	Yes 🗸	No No	t Present	
Custody seals intact on shipping co	ontainer/cooler?	Yes	No No	t Present	
Custody seals intact on sample bo	ttles?	Yes	No No	t Applicable 🛭	2
Chain of custody present?		Yes 🗸	No 🗔		
Chain of custody signed when relin	quished and received?	Yes 🗸	No 🗔		
Chain of custody agrees with samp	ole labels?	Yes 🗸	No 🗌		
Samples in proper container/bottle	?	Yes 🔽	No 🗌		
Sample containers intact?		Yes 🗸	No 🗔		
Sufficient sample volume for indica	ited test?	Yes 🔽	No 🗌		
All samples received within holding	time?	Yes 🔽	No 🗌		
Container/Temp Blank temperature	in compliance?	Yes 🗸	No 🗔		
Water - VOA vials have zero heads	space?	Yes 🗹	No 🗌 No V	OA vials subm	nitted
Water - pH acceptable upon receip	t?	Yes 🗌	No No	t Applicable 🛚	
Comments:					
Corrective Action:					

	APPENDIX F		
SSD/SVE ANALYTICAL RES	SULTS FROM THE	2016 SAMPLING	EVENT

43 Midler Park Drive * Syraouse, NY 13206
Phone (315) 431-9730 * Emergency 24/7 (315) 416-2752
NYSDOH ELAP Certificate No. 11830

Analytical Report

Chris Gabriel GeoLogic NY, Inc.

37 Copeland Ave. Homer, NY 13077

TEL: 607-749-5000 FAX 607-749-5063

RE: 210087

Dear Chris Gabriel:

Tuesday, November 22, 2016 Order No.: C1611047

Centek Laboratories, LLC received 1 sample(s) on 11/16/2016 for the analyses presented in the following report.

I certify that this data package is in compliance with the terms and conditions of the Contract, both technically and for completeness. Release of the data contained in this hardcopy data package and/or in the computer readable data submitted has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Centek Laboratories performs all analyses according to EPA, NIOSH or OSHA-approved analytical methods. Centek Laboratories is dedicated to providing quality analyses and exceptional customer service. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the case narrative. All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

We do our best to make our reporting format clear and understandable and hope you are thoroughly satisfied with our services. Please contact your client service representative at (315) 431-9730 or myself, if you would like any additional information regarding this report.

Thank you for using Centek Laboratories. This report can not be reproduced except in its entirety, without prior written authorization.

Sincerely,

William Dobbin

Lead Technical Director

Disclaimer: The test results and procedures utilized, and laboratory interpretations of the data obtained by Centek as contained in this report are believed by Centek to be accurate and reliable

Page 1 of 10

for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and all liability for actual and consequential damages of Centek for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages. ELAP does not offer certification for the following parameters by this method at present time, they are: 4-ethyltoluene, ethyl acetate, propylene, tetrahydrofuran, 4-PCH, sulfur derived and silcon series compounds.

Centek Laboratories, LLC Terms and Conditions

Sample Submission

All samples sent to Centek Laboratories should be accompanied by our Request for Analysis Form or Chain of Custody Form. A Chain of Custody will be provided with each order shipped for all sampling events, or if needed, one is available at our website www.CentekLabs.com. Samples received after 3:00pm are considered to be a part of the next day's business.

Sample Media

Samples can be collected in an canister or a Tedlar bag. Depending on your analytical needs, Centek Laboratories may receive a bulk, liquid, soil or other matrix sample for headspace analysis.

Blanks

Every sample is run with a surrogate or tracer compound at a pre-established concentration. The surrogate compound run with each sample is used as a standard to measure the performance of each run of the instrument. If required, a Minican can be provided containing nitrogen to be run as a trip blank with your samples.

Sampling Equipment

Centek Laboratories will be happy to provide the canisters to carry-out your sampling event at no charge. The necessary accessories, such as regulators, tubing or personal sampling belts, are also provided to meet your sampling needs. The customer is responsible for all shipping charges to the client's destination and return shipping to the laboratory. Client assumes all responsibility for lost, stolen and any damages of equipment.

Turn Around time (TAT)

Centek Laboratories will provide results to its clients in one business-week by 6:00pm EST after receipt of samples. For example, if samples are received on a Monday they are due on the following Monday by 6:00pm EST. Results are faxed or emailed to the requested location indicated on the Chain of Custody. Non-routine analysis may require more than the one business-week turnaround time. Please confirm non-routine sample turnaround times.

Reporting

Results are emailed or faxed at no additional charge. A hard copy of the result report is mailed within 24 hours of the faxing or emailing of your results. Cat "B" like packages are within 3-4 weeks from time of analysis. Standard Electronic Disk Deliverables (EDD) is also available at no additional charge.

Payment Terms

Payment for all purchases shall be due within 30 days from date of invoice. The client agrees to pay a finance charge of 1.5% per month on the overdue balance and cost of collection, including attorney fees, if collection proceedings are necessary. You must have a completed credit

application on file to extend credit. Purchase orders or checks information must be submitted for us to release results

Rush Turnaround Samples

Expedited turn around times is available. Please confirm rush turnaround times with Client Services before submitting samples.

Applicable Surcharges for Rush Turnaround Samples: Same day TAT = 200%

Next business day TAT by Noon = 150%

Next business day TAT by 6:00pm = 100%

Second business day TAT by 6:00pm = 75%

Third business day TAT by 6:00pm = 50%

Fourth business day TAT by 6:00pm = 35%

Fifth business day = Standard

Statement of Confidentiality

Centek Laboratories, LLC is aware of the importance of the confidentiality of results to many of our clients. Your name and data will be held in the strictest of confidence. We will not accept business that may constitute a conflict of interest. We commonly sign Confidential Nondisclosure Agreements with clients prior to beginning work. All research, results and reports will be kept strictly confidential. Secrecy Agreements and Disclosure Statements will be signed for the client if so specified. Results will be provided only to the addressee specified on the Chain of Custody Form submitted with the samples unless law requires release. Written permission is required from the addressee to release results to any other party.

Limitation on Liability

Centek Laboratories, LLC warrants the test results to be accurate to the methodology and sample type for each sample submitted to Centek Laboratories, LLC. In no event shall Centek Laboratories, LLC be liable for direct, indirect, special, punitive, incidental, exemplary or consequential damages, or any damages whatsoever, even if Centek Laboratories, LLC has been previously advised of the possibility of such damages whether in an action under contract, negligence, or any other theory, arising out of or in connection with the use, inability to use or performance of the information, services, products and materials available from the laboratory or this site. These limitations shall apply notwithstanding any failure of essential purpose of any limited remedy. Because some jurisdictions do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of liability for consequential or incidental damages, the above limitations may not apply to you. This is a comprehensive limitation of liability that applies to all damages of any kind, including (without limitation) compensatory, direct, indirect or consequential damages, loss of data, income or profit and or loss of or damage to property and claims of third parties.



Date: 29-Nov-16

CLIENT:

GeoLogic NY, Inc.

Project:

210087

Lab Order:

C1611047

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Centek Laboratories, LLC SOP TS-80

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the corrective action report(s). All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

NYSDEC ASP samples:

Canisters should be evacuated to a reading of less than or equal to 50 millitorr prior to shipment to sampling personnel. The vacuum in the canister will be field checked prior to sampling, and must read 28" of Hg (±2", vacuum, absolute) before a sample can be collected. After the sample has been collected, the pressure of the canister will be read and recorded again, and must be 5" of Hg (±1", vacuum, absolute) for the sample to be valid. Once received at the laboratory, the canister vacuum should be confirmed to be 5" of Hg,±1". Please record and report the pressure/vacuum of received canisters on the sample receipt paperwork. A pressure/vacuum reading should also be taken just prior to the withdrawal of sample from the canister, and recorded on the sample preparation log sheet. All regulators are calibrated to meet these requirements before they leave the laboratory. However, due to environmental conditions and use of the equipment Centek can not guarantee that this criteria can always be achieved.

	<u> </u>	entek La	205 - Uni	ain of Cus	toay	Site Name:		Detection Limit	Report Level		
Contak Laboratorias	_s 14	13 Midler Par	rk Drive			Project: 210087		Sppbv	Level I		
The same has	- Sı	yracuse, NY	13206			PO#: 210087		1ug/M3	Level II		
174	-	15-431-9730		Vapor intrusio	n & IAQ	Quote# Q- QD)	30 6184	1ug/M3 +TCE .25	Cat "B" Like		
	w	ww.CentekL				Canister Order #: 4	70107				
TAT		Rush TAT	Due	Company:	In FRI OF	OIC NY, Inc.	Company:	ስ አ ላፕ			
Turnaround Time: 5 Business Days		Surcharge %	Date:	-		1 C 1/1, 166.	Check Here If San	ne; 💢			
A Business Days	A	0% 25%		Report to: Address:	0. Pox 350)	Invoice to: Address:				
4 Business Days 3 Business Days	Ħ	50%		City State 7i	P HOATER,	NY 13077	City, State, Zip				
2 Business Days		75%	***************************************	3.77 3.45,3	p 20 44 14 144	, , , , , , ,	0.111 0.0101 0.0				
*Next Day by 5pm		100%		Email: 6color	ILNY C GG	Enloyie, NET Email:					
*Next Day by Noon		150%			· · · · · · · · · · · · · · · · · · ·						
*Same Day		200%		Phone: 607.			Phone:				
*For Same and Next Day TA	II Piease N	- 	Committee	Canister	Regulator	Analysis Request	Field Vacuum	Labs Vacuum**	Comments		
Sample ID			Sampled	Number	Number	<u> </u>	Start / Stop	RecV/Analysis			
SSO/SUE		11-15-201	16	1427	11.1. Gras	TO-15 Analysis	7-30 1-4	-1 1-1			
						for the following	1	1			
						Parameters Only;	1	-	<u> </u>		
	:					1111-Trichlosethere	1	1			
						1,1- Dichloriethere		1			
						1,2-Dichlorethena (i	is Bracs)1	-			
					_	Trichloraethene	1	1			
						Tetrachloroethene	1	1			
			<u>.</u>			Viayl Chloride		ı			
				<u> </u>		<u>'</u>		1			
								1			
							1	1			
				-			1	1			
							1	11	-		
			·					1			
<u> </u>					-		ı	1			
		<u>.</u>			<u> </u>		<u> </u>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
			-wa	<u> </u>	ļ	<u></u>	1	1416	<u> </u>		
Chain of Custody	Pi	rint Name			Signature	/	Date/Time	Courier: CIRCLE ON			
Sampled by:	C.T. 6.	above of 1	Geologic A	VY Jaco	82	7.	11-15-2016/11.15	FodEx UPS Plo	kup/Dropoff		
Relinquished by:				new zet of beatings	<i>6881</i>	man	11-16-216-11-10	**For LAB USE ONLY			
Received at Lab by:	<u></u> 3	an S.	ea/			dit-	11-16-16	Work Order#	611047 3		

By signing Centek Labs Chain of Custody, you are accepting Centek Labs Terms and Conditions listed on the reverse side.



Sample Receipt Checklist

Client Name GEOLOGIC		Da	ate and	Time Receive	11/16/2016		
Work Order Numbe C1611047		1	Re	eceived (by JDS		
Checklist completed by Signature	2 Of f	<u></u>	// -/ C	-/6 eviewed	by ا	D	nli6/16
Matrix:	Carrier name	Drep Of	f				
Shipping container/cooler in good condition?		Yes 🗹) No	o 🗀	Not Presen		
Custody seals intact on shippping container/coo	oler?	Yes 🗀) No	. 🗆	Not Presen	Y	
Custody seals intact on sample bottles?	•	Yes 🗀] N o	o 🗀	Not Presen	Y	
Chain of custody present?		Yes 🔽] N o	о <u>Ш</u>			
Chain of custody signed when relinquished and	received?	Yes 🔽) No	o 🗀			
Chain of custody agrees with sample labels?		Yes 🔽] No	o []			
Samples in proper container/bottle?		Yes 🔽) No	o []			
Sample containers intact?		Yes 🗹) No	. 🗆			
Sufficient sample volume for indicated test?		Yes 🔽] No)			
All samples received within holding time?		Yes 🔽) No	. 🗆			
Container/Temp Blank temperature in complian	ce?	Yes 🔽) No	. 🗆			
Water - VOA vials have zero headspace?	No VOA viels subr	nitted 🔽)	Yes [□ No [
Water - pH acceptable upon receipt?		Yes) No	✓			
	Adjusted?	to Walter to the street of the contract to the street of t	Checked	d t			
Any No and/or NA (not applicable) response mu	st be detailed in the c	omments	section be				
Client contacted	Date contacted:		····-	— — Ре	rson contacted	**********	TH Y1070 Min. 4
Contacted by:	Regarding:	H = 7.8797 H574A\$54A.&					
Comments:							The state of the s
				'		····· • • • • • • • • • • • • • • • • •	W (A)
Corrective Action			1007-1007-100-100-100-100-100-100-100-10	2017 Paradonal and a second		82-9- <u></u>	
	•						
properties to the common to the common the control of the common to the control of the control o	×						
							BULL ALLESAN

Date: 29-Nov-16



CLIENT:

GeoLogic NY, Inc.

Project:

210087

Lab Order:

C1611047

Work Order Sample Summary

Lab Sample ID Client Sample ID

Tag Number

Collection Date

Date Received

C1611047-001A SSD/SVE

1427

11/15/2016

11/16/2016

Centek Laboratories, LLC

Page 8 of 10

Lab Order:

C1611047

Client:

GeoLogic NY, Inc.

Project:

210087

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
C1611047-001A	SSD/SVE	11/15/2016	Air	Sppb by Method TO15		"'	11/17/2016
				5ppb by Method TO15			11/17/2016

Centek Laboratories, LLC

CLIENT: GeoLogic NY, Inc.

Client Sample ID: SSD/SVE Lab Order: C1611047 Tag Number: 1427

Collection Date: 11/15/2016 **Project:** 210087

Matrix: AIR Lab ID: C1611047-001A

Analyses	Result	**Limit Q	ual Units	DF	Date Analyzed
FIELD PARAMETERS		FLD			Analyst:
Lab Vacuum In	-1		"Hg		11/16/2016
Lab Vacuum Out	-30		"Hg		11/16/2016
5PPB BY METHOD TO15		TO-15	i		Analyst: WD
1,1,1-Trichloroethane	< 5.0	5.0	ppbV	1	11/17/2016 8:40:00 PM
1,1-Dichloroethene	< 5.0	5.0	ppbV	1	11/17/2016 8:40:00 PM
cis-1,2-Dichloroethene	19	5.0	ppbV	1	11/17/2016 8:40:00 PM
Tetrachloroethylene	< 5.0	5.0	ppbV	1	11/17/2016 8:40:00 PM
trans-1,2-Dichloroethene	< 5.0	5.0	ppbV	1	11/17/2016 8:40:00 PM
Trichloroethene	410	25	ppbV	5	11/17/2016 9:14:00 PM
Vinyl chloride	< 5.0	5.0	ppbV	1	11/17/2016 8:40:00 PM
Surr: Bromofluorobenzene	78.0	73.7-124	%REC	1	11/17/2016 8:40:00 PM

Qualifiers: Quantitation Limit

> В Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

Spike Recovery outside accepted recovery limits

Results reported are not blank corrected

Date: 22-Nov-16

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

Not Detected at the Limit of Detection

Page 1 of 1

Centek Laboratories, LLC

CLIENT: GeoLogic NY, Inc.

C1611047

Project: 210087

Lab Order:

Lab ID: C1611047-001A

Date: 22-Nov-16

Client Sample ID: SSD/SVE

Tag Number: 1427

Collection Date: 11/15/2016

Matrix: AIR

Analyses	Result	**Limit Q	ual Units	DF	Date Analyzed
5PPB BY METHOD TO15		TO-15		Analyst: WD	
1,1,1-Trichloroethane	< 27	27	ug/m3	1	11/17/2016 8:40:00 PM
1,1-Dichloroethene	< 20	20	ug/m3	1	11/17/2016 8:40:00 PM
cis-1,2-Dichloroethene	74	20	ug/m3	1	11/17/2016 8:40:00 PM
Tetrachloroethylene	< 34	34	ug/m3	1	11/17/2016 8:40:00 PM
trans-1,2-Dichloroethene	< 20	20	ug/m3	1	11/17/2016 8:40:00 PM
Trichloroethene	2200	130	ug/m3	5	11/17/2016 9:14:00 PM
Vinyl chloride	< 13	13	ug/m3	1	11/17/2016 8:40:00 PM

Qualifiers: **

** Quantitation Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

Page 1 of 1