



**New York State Department of  
Environmental Conservation**

**Site Number 7-09-009**

**Gladding Cordage Site  
Periodic Review Report**

June 2014



Bruce R. Nelson

Bruce Nelson, CPG  
Principal Geologist / Vice President

Jeremy Wyckoff

Jeremy Wyckoff  
Project Geologist

**Gladding Cordage Site Periodic  
Review Report**

**June 2014**

**Site Number 7-09-009**

Prepared for:  
**New York State Department of  
Environmental Conservation**

Prepared by:  
**Malcolm Pirnie, Inc.**  
855 Route 146  
Suite 210  
Clifton Park  
New York 12065  
Tel 518 250 7300  
Fax 518 250 7301

Our Ref.:  
**00266406.0000**

Date:  
**June 2014**

*Malcolm Pirnie, Inc. was acquired by  
ARCADIS in July 2009.*

<b>1 Executive Summary</b>	<b>1</b>
<b>2 Site Overview</b>	<b>2</b>
2.1 Location and Features	2
2.2 Site History and Remediation	2
<b>3 Remedy Performance, Effectiveness, and Protectiveness</b>	<b>5</b>
<b>4 Operation and Maintenance</b>	<b>6</b>
4.1 Treatment System Operations	6
4.2 System Components Inspections	7
4.3 General Building/Site Inspection	7
<b>5 Groundwater Monitoring Program</b>	<b>8</b>
5.1 Groundwater Monitoring Well Inspection	8
5.2 Water Level Survey	8
5.3 Groundwater Sampling	8
5.4 Groundwater Sampling Results	9
5.4.1 Shallow Groundwater Monitoring Zone	9
5.4.2 Intermediate Groundwater Monitoring Zone	9
5.4.3 Deep Groundwater Monitoring Zone	10
5.4.4 Recovery Wells and Effluent	10
<b>6 Overall PRR Conclusions and Recommendations</b>	<b>12</b>
6.1 Conclusions	12
<b>7. Summary and Certification</b>	<b>13</b>
<b>8. References</b>	<b>14</b>

## Tables

- Table 4-1 Treatment System Status and Flow Summary
- Table 5-1 Groundwater Monitoring Well Water Level Data
- Table 5-2 Recovery Well Water Level Data
- Table 5-3 Summary of Groundwater Analytical Results (VOCs)
- Table 5-4 Summary of Groundwater Treatment System VOCs (Influent RW-1)
- Table 5-5 Summary of Groundwater Treatment System VOCs (Influent RW-2)
- Table 5-6 Summary of Groundwater Treatment System VOCs (Effluent)

## Figures

- Figure 2-1 Gladding Cordage Site Location
- Figure 2-2 Site Features and Treatment System Layout
- Figure 2-3 Monitoring Well Locations
- Figure 5-1 Shallow Potentiometric Contour Surface Map (10/15/2013)
- Figure 5-2 Intermediate Potentiometric Contour Surface Map (10/15/2013)
- Figure 5-3 Deep Potentiometric Contour Surface Map (10/15/2013)
- Figure 5-4 Groundwater 1,1,1-Trichloroethane Concentrations

## Appendices

- A O&M Checklists
- B Site Photolog
- C Analytical Data Packages
- D NYSDEC Site Certification Forms

## 1 Executive Summary

The New York State Department of Environmental Conservation (NYSDEC) has issued a Work Assignment (# D007618-12) to Malcolm Pirnie, Inc. (now ARCADIS) for Operation, Maintenance, and Monitoring at the Gladding Cordage Site (NYSDEC site number 7-09-009) in New York State (the Site). This Periodic Review Report (PRR) documents the findings and observations associated with the monitoring program for the Site.

In May 1984, NYSDEC determined that Gladding Cordage Company was unlawfully storing and discharging hazardous wastes at the Site. Between 1984 and 1987, Gladding Cordage Company conducted a field investigation and identified that groundwater at the Site was contaminated with 1,1,1-trichloroethane (TCA); however, the Company did not agree to a state-approved remedial program and did not adequately define the nature and extent of the contamination. In addition to the contamination that was on-site, contamination was detected in the nearby municipal wells. The Gladding Cordage Company fell into bankruptcy and operations at the facility and remedial efforts by the responsible party ceased. The property was purchased by Continental Cordage, an affiliate of Gladding Braided Products, through an agreement with the State Attorney General.

NYSDEC proceeded with Interim Remedial Measures (IRMs) under the New York State Superfund (State Superfund Standby Program Work Assignment No. D002520-20.0) and also included the implementation of a remedial action under an approved Record of Decision (ROD) (NYSDEC 1993) to recover contaminated groundwater by a recovery well system.

Gladding Braided Products was purchased by a new owner in 2003. The current property owner is Gladding Braided Products, LLC.

Based on inspections completed during 2013, it appears that the groundwater recovery wells and treatment system are performing as designed. Groundwater monitoring wells are in acceptable condition and allow for the sampling and characterization of groundwater quality.

## 2 Site Overview

### 2.1 Location and Features

The Gladding Cordage Site is located at 110 County Road 13A, Otselic Valley Center, in Chenango County (Figure 2-1). The Site is approximately 7.5 acres and includes an active manufacturing facility along with a groundwater treatment system (Figure 2-2) and a monitoring well network (Figure 2-3). Remedial activities have included an Interim Remedial Measure (IRM) and construction of the groundwater treatment system, described below. The Site is currently classified as a Class 4 inactive hazardous waste site.

### 2.2 Site History and Remediation

The Site, while operating under the Gladding Cordage Company, manufactured braided line and rope using a variety of chemical solvents in the process. In May 1984, NYSDEC determined that Gladding Cordage Company was unlawfully storing and discharging hazardous wastes at the Site. Between 1984 and 1987, Gladding Cordage Company conducted a field investigation and identified that groundwater at the site was contaminated with 1,1,1-trichloroethane (TCA); however, the Company did not agree to a state-approved remedial program and did not adequately define the nature and extent of the contamination. The contamination was also detected in the nearby municipal wells. In 1987, Gladding Cordage Company installed a six inch diameter purge well with an air stripper to treat the water. These actions were taken without NYSDEC approval and were not effective. In April 1987, Gladding Cordage Company filed Chapter 11 petitions in the United States Bankruptcy Court and in July 1987, curtailed operations at the facility (NYSDEC 2013).

Due to the bankruptcy, a responsible party cleanup option became complex. Ownership of the Site following the bankruptcy was also complicated by the contamination issue. While Gladding Cordage Company (previous owner/responsible party) was under Chapter 11 Bankruptcy litigation, Continental Cordage Company (Continental), an affiliate of Gladding Braided Products, was interested in purchasing the property, but did not want to assume the liability for Gladding Cordage Company's environmental practices. The major elements of the purchase agreement included the following (NYSDEC 1987):

- Continental would purchase the property for \$160,000, and approximately \$80,000 would be payable to the State of New York when the title was transferred.
- Continental would apply for a SPDES permit to discharge sanitary waste only from the new disposal system. No process wastewater would be generated.
- Continental would excavate and properly dispose of the existing septic tanks and leach fields (suspected sources of contamination).
- All existing floor drains and discharge piping would be permanently plugged.

Future resale terms included New York State receiving a percentage of all proceeds after Continental receives its original \$160,000 (NYSDEC 1987).

These initial conditions represent the Institutional Controls (ICs) and Engineering Controls (ECs) that were initially placed on Site prior to use under the new ownership. Under Superfund (State Superfund Standby Program Work Assignment No. D002520-20.0), NYSDEC implemented an interim remedial measure (IRM) to remove and dispose of 115 drums of waste.

Since the responsible party was Gladding Cordage Company, rather than Continental/Gladding Braided Products, the remediation needed to be conducted under the New York State Superfund Program. A Remedial Investigation/Feasibility Study (RI/FS) was conducted between 1988 and 1989. The results indicated that a contaminated groundwater plume extended approximately 2,000 feet down valley from the site and was up to 500 feet wide. Soil contamination was limited to the Site and associated with past disposal practices. There were ingestion risks identified as part of the RI/FS, particularly associated with the groundwater, but installation of a new municipal water supply and the remedial actions (described below) eliminated most risk associated with ingestion (NYSDEC 1993).

The ROD (NYSDEC 1993) was approved shortly after the RI/FS was completed. The remedial actions were guided by the goals of the ROD and are described in Section 3. The remedial action objectives that were identified for the Site according to the ROD (NYSDEC 1993) are:

- Minimize the potential for human exposure to the site-related contaminants

- Minimize the potential for off-site migration of site-related contaminants
- Permanently contain, treat and/or dispose of contaminated media in a manner consistent with State and Federal regulations.

In 2003, Gladding Braided Products was purchased by a new owner. The 2014 Town of Otselic Tax Roll lists Gladding Braided Products LLC as the current property owner.

### 3 Remedy Performance, Effectiveness, and Protectiveness

The remediation goals selected for this Site, according to the ROD are as follows:

- Extraction of contaminated groundwater using a groundwater recovery well system with treatment of the contaminated groundwater by an air stripper. The treated water would be discharged to the Otselic River.
  - This method is also in place to aid in controlling the migration of contaminants off-site.
  - The performance of this groundwater treatment system will be evaluated yearly with the goal of removing a significant portion of the contaminant mass.
- Long-term monitoring will be carried out to gauge the effectiveness of the selected alternative and monitor groundwater quality.

The groundwater treatment system for the Site was installed and began operations in the summer of 1995. The system ran until approximately 1997, but was not in continuous operation during this interval due to problems with various aspects of the system. In 1997, the system was shut down completely and remained idle until discussions began in 2001-2002 timeframe to repair and restart the system (NYSDEC 2001, 2002). The system was repaired and restarted in 2004 (NYSDEC 2004) and reports indicate that the system has operated continuously from the 2004 restart until present with the exception of minor shutdowns for maintenance and system upgrades (NYSDEC 2013).

Based on the current Site Management, including inspections and groundwater monitoring, it appears that the Selected Remedies specified in the ROD have been performing as they were intended.

The following sections provide information on the Operations/Maintenance and Monitoring for the Site.

## 4 Operation and Maintenance

On August 23, 2007, NYSDEC provided a training session to Malcolm Pirnie personnel on the operation and maintenance (O&M) of the groundwater treatment plant at the Gladding Cordage Site. Since then, Malcolm Pirnie has maintained operation of the groundwater treatment plant. This includes the operation, maintenance, and influent/effluent sampling in accordance with the NYSDEC O&M manual (Operation and Maintenance Manual, Volume I, Gladding Cordage Site, Site 7-09-009, TAMS Consultants, Inc., 1996) (O&M Manual).

O&M inspections were conducted monthly during 2013 and include the following inspections:

- Treatment system operation
- System components (recovery well parameters, air stripper settings and pressures, heat exchanger)
- General building/Site conditions

The O&M checklists for the 2013 inspections are presented in Appendix A. Photos of each well and site features are presented in Appendix B.

### 4.1 Treatment System Operations

The treatment system operations were inspected to verify that the overall system was functioning properly, including the blower and sump pump. The inspection also included an assessment of alarms that were triggered and to verify that alarms did not indicate a larger issue. As an example, a power failure is a common trigger of an alarm that requires a system restart when power returns.

The most recent inspection during 2014 indicated systems were operating as they should and no alarms were noted. Appendix A presents the completed O&M checklists for 2013. As shown in Appendix A, the only alarms generated during 2013 were related to power interruptions. Following indication of the alarm condition, the system was restarted and normal operation resumed.

A summary of the flow rates and volumes for the treatment system is presented in Table 4-1.

#### **4.2 System Components Inspections**

As part of the O&M inspections, the various components of the treatment system are individually inspected to assess changes in operation. As part of this, the recovery wells, air stripper, and heat exchanger are inspected for various parameters associated with each component's operation.

Results from the 2013 inspections are presented in Appendix A. As shown in Appendix A, no major issues were identified.

#### **4.3 General Building/Site Inspection**

The Site area, including the state of the facility buildings, is inspected for general maintenance and up-keep of the grounds around the treatment system.

Results from the 2013 inspections are presented in Appendix A. The Site was observed to be well-kept and the grounds appeared to have been maintained.

## 5 Groundwater Monitoring Program

Groundwater sampling was conducted to provide information on groundwater quality, monitor potential contaminant migration in the groundwater at the site, and assess hydrogeologic site conditions, including groundwater flow direction. Groundwater monitoring well locations are shown on Figure 2-3.

Groundwater sampling is completed on a five-quarter basis. The most recent sampling event was performed on October 29, 2013.

The recovery wells (influent to the treatment plant) and post-treatment effluent are sampled monthly.

### 5.1 Groundwater Monitoring Well Inspection

During the Site visit, the integrity of each well was inspected to evaluate the integrity and suitability for groundwater monitoring and water levels. Each well was identified as being in acceptable condition during the 2013 visits and no repairs were required to any well.

### 5.2 Water Level Survey

Water levels were measured to the nearest hundredth of a foot. Table 5-1 summarizes the groundwater elevations measured during the October 2013 sampling event for the monitoring wells. Table 5-2 summarizes the groundwater elevations measured at the recovery wells during the October 2013 visit. The groundwater elevations were compiled and a potentiometric surface map was created for the shallow (Figure 5-1), intermediate (Figure 5-2), and deep (Figure 5-3) sampling intervals during the October 2013 monitoring event.

### 5.3 Groundwater Sampling

Groundwater samples were collected from 21 groundwater monitoring wells (TW-3S, TW-3I, TW-3D, TW-4I, TW-5S, TW-5I, TW-5D, TW-6S, TW-6I, TW-6D, TW-7S, TW-7I, TW-7D, TW-9I, TW-9D, TW-12I, TW-12D, TW-14S, TW-14I, TW-14D, and TW-15) using passive diffusion bags (PDBs). PDBs were deployed on October 15, 2013 and samples collected on October 29, 2013.

Groundwater samples were sent to Con-test Analytical Laboratory in East Longmeadow, Massachusetts by chain-of-custody procedures and analyzed for Volatile Organic Compounds (VOCs) by USEPA Method 624. Analytical data packages are provided in Appendix C.

#### **5.4 Groundwater Sampling Results**

Groundwater sample results from the 2013 Site visit are summarized in Table 5-3 with available historical analytical results. Figure 5-4 presents the 1,1,1-TCA distribution at the various monitoring depth intervals. The following subsections present a breakdown of the observations by sample interval at the Site.

##### **5.4.1 Shallow Groundwater Monitoring Zone**

As shown in Table 5-3, VOCs were detected at concentrations greater than the corresponding NYSDEC Class GA Standards in three of the five groundwater samples collected from the shallow groundwater monitoring network. The 1,1,1-TCA results from groundwater samples collected at TW-5S (7.9 µg/L), TW-7S (12 µg/L) and TW-14S (10 µg/L) exceeded the NYSDEC Class GA Standard of 5 µg/L.

VOCs were not detected at concentrations greater than the applicable NYSDEC Class GA Standards in any other groundwater samples collected from the shallow monitoring zone during the fourth quarter 2013 sampling event.

Overall, the surface concentrations of 1,1,1-TCA have been relatively consistent since the earliest results in 2007. Wells that are usually above the NYSDEC Class GA Standard historically still show concentrations above the NYSDEC Standard in the most recent sampling event.

##### **5.4.2 Intermediate Groundwater Monitoring Zone**

Table 5-3 shows that the concentrations of 1,1,1-TCA in groundwater samples collected from intermediate groundwater monitoring wells TW-14I (59 µg/L), TW-3I (6.1 µg/L), TW-4I (23 µg/L), and TW-15 (9.4 µg/L) were greater than the applicable NYSDEC Class GA Standard of 5 µg/L. Also, the concentration of benzene from TW-5I (1.9 µg/L) exceeded the NYSDEC Class GA Standard (1 µg/L).

The sample TW-X was collected from monitoring well TW-15 and submitted as a field duplicate. As shown in Table 5-3, the concentrations of 1,1,1-TCA are slightly higher

in the TW-15 (9.1 µg/L) sample than in the duplicate (5.1 µg/L), however the concentrations in both samples generally correlate well.

No other VOCs were detected in groundwater samples from intermediate monitoring wells at concentrations greater than the applicable NYSDEC Class GA Standards for the October 2013 sampling event.

Monitoring well results with 1,1,1-TCA concentrations greater than 50 µg/L in 2007 have shown a decline since 2009. This may indicate that control over the source contamination at the facility and the treatment system is resulting in decreasing concentrations for 1,1,1-TCA in the intermediate zone near the TW-15, TW-5I, and TW-14I locations. These intermediate wells are located near RW-2, indicating that this well is proving effective in decreasing concentrations in areas adjacent to the well.

#### 5.4.3 Deep Groundwater Monitoring Zone

As shown in Table 5-3, the concentrations of 1,1,1-TCA exceeded the corresponding NYSDEC Class GA Standard of 5 µg/L in the groundwater samples collected from deep monitoring wells TW-5D (39 µg/L), TW-7D (5.9 µg/L), TW-14D (56 µg/L). These concentrations are consistent with previous samples from these wells with the exception of monitoring well TW-7D. Monitoring well TW-7D exceeded the NYSDEC Class GA Standard of 5 µg/L for the first time in two years. It should be noted however, that the concentration of 1,1,1-TCA did not increase significantly.

No other VOCs were detected in groundwater samples collected from the deep monitoring wells at concentrations greater than the applicable NYSDEC Class GA Standards.

The deep monitoring zone has had fluctuating concentrations since 2007, typically less than 50 µg/L, with the exception of the October 2013 sample from TW-14D.

#### 5.4.4 Recovery Wells and Effluent

Tables 5-4 and 5-5 present the 2013 VOC results for RW-1 and RW-2, respectively. The most commonly detected VOC was 1,1,1-TCA in these two recovery wells and for 2013, the average concentrations were 44 µg/L and 40 µg/L for RW-1 and RW-2, respectively.

Table 5-6 present the effluent 2013 VOC results. All VOC constituents, including 1,1,1-TCA were non-detect for these samples.

## **6 Overall PRR Conclusions and Recommendations**

### **6.1 Conclusions**

Based on inspections completed during 2013, it appears that the groundwater recovery wells and treatment system are performing as designed. Groundwater monitoring wells are in acceptable condition and allow for the sampling and characterization of groundwater quality.

Treatment system analytical results from 2013 indicate that the recovery wells are extracting groundwater with a concentration of 1,1,1-TCA of approximately 40 µg/L (on average). The treatment system consistently discharges effluent that does not have any detection of this chemical constituent. The monitoring well results indicate that the 1,1,1-TCA concentrations are at concentrations consistent with past results, with some areas showing indications of decreasing concentrations.

A Site Management Plan (SMP) is in development to document the required inspections and requirements for this Site to provide to current and future owners of the property.

## 7. Summary and Certification

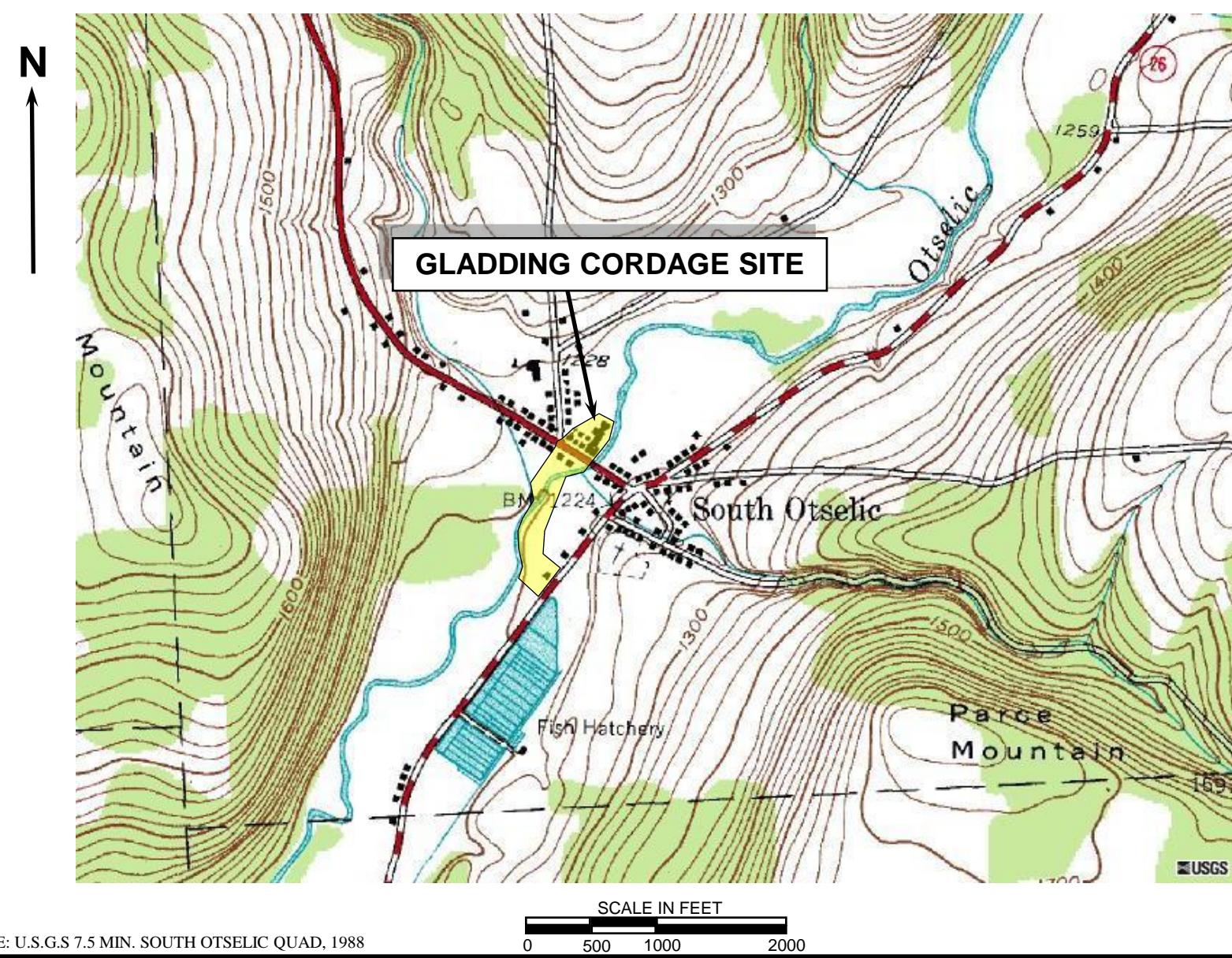
O&M activities were conducted monthly during 2013, with groundwater monitoring samples collected during the October 29, 2013 visit. The treatment system is functioning as designed and the overall facility condition, along with the state of monitoring and recovery wells, is acceptable. Chemical concentrations fluctuate, but in general are either consistent with past results or have decreased slightly over time.

Based on the remediation objectives specified in the ROD, the treatment system is performing as intended and minimizing the potential for off-site migration of, and exposure to, contaminated groundwater.

The completed NYSDEC certification, including the completed owner certification materials, is provided as Appendix D.

## 8. References

- New York State Department of Environmental Conservation (NYSDEC). 1987. Proposed Settlement Agreement – Purchase of Gladding Cordage Company Real Property. Memorandum from Joseph L. Slack (NYSDEC) to Michael O'Toole, Jr., P.E. (NYSDEC). December 7.
- NYSDEC. 1993. Record of Decision, Gladding Cordage Site, South Otselic, Chenango County. Site Number 7-09-009. March.
- NYSDEC. 2001. Decision Document for Gladding Corporation, Site 7-09-009, Chenango County, State Superfund Site. Memorandum from John R. Strang (NYSDEC) to Gerald J. Rider, Jr. (NYSDEC). April 3.
- NYSDEC. 2002. Restarting the Treatment System at Gladding Corporation Site, Site Number 7-09-009. Memorandum from Matthew Dunham (NYSDEC) to Gerald J. Rider, Jr. (NYSDEC). January 13.
- NYSDEC. 2004. SPDES Permit Equivalent at Gladding Cordage, Site Number 709009. Memorandum from Matthew Dunham (NYSDEC) to Angus Eaton (NYSDEC). June 28.
- NYSDEC. 2013. Environmental Site Remediation Database Search Details: Gladding Corporation. Site Code: 709009. Accessed: December 9. Database available online at: <http://www.dec.ny.gov/chemical/8437.html>.
- TAMS Consultants, Inc. 1996. Operation and Maintenance Manual: Gladding Cordage Site 7-09-009. Volume I. Work Assignment No. D002520-25.0. Prepared for NYSDEC. March 15.







0 150 300 600 900 1,200 Feet



### Legend

- Monitoring Well
- Recovery Well
- Approximate Site Boundary

NYSDEC STANDBY CONTRACT NO. D004443-5  
GLADDING CORDAGE SITE 7-09-009  
SOUTH OTSELIC, NEW YORK

### SITE MANAGEMENT PLAN

### MONITORING WELL LOCATIONS

LEGEND:

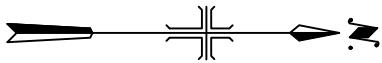
- TW-1 APPROXIMATE MONITORING WELL LOCATION
- RW-2 APPROXIMATE RECOVERY WELL LOCATION
- 1203.69 GROUNDWATER ELEVATION (FT. A.M.S.L.)
- POTENSIOMETRIC CONTOUR
- ROADWAY/DRIVEWAY
- BUILDING
- EDGE OF RIVER
- GROUNDWATER FLOW DIRECTION



NYSDEC STANDBY CONTRACT NO. D007618-9  
NYSDEC SITE NO. 7-09-009  
GLADDING CORDAGE SITE  
SOUTH OTSELIC, NEW YORK

SHALLOW POTENSIOMETRIC  
CONTOUR SURFACE MAP (10/15/13)  
SCALE: AS SHOWN

50 0 50 100  
SCALE: 1" = 100'



APRIL 2014  
FIGURE 5-1

LEGEND:

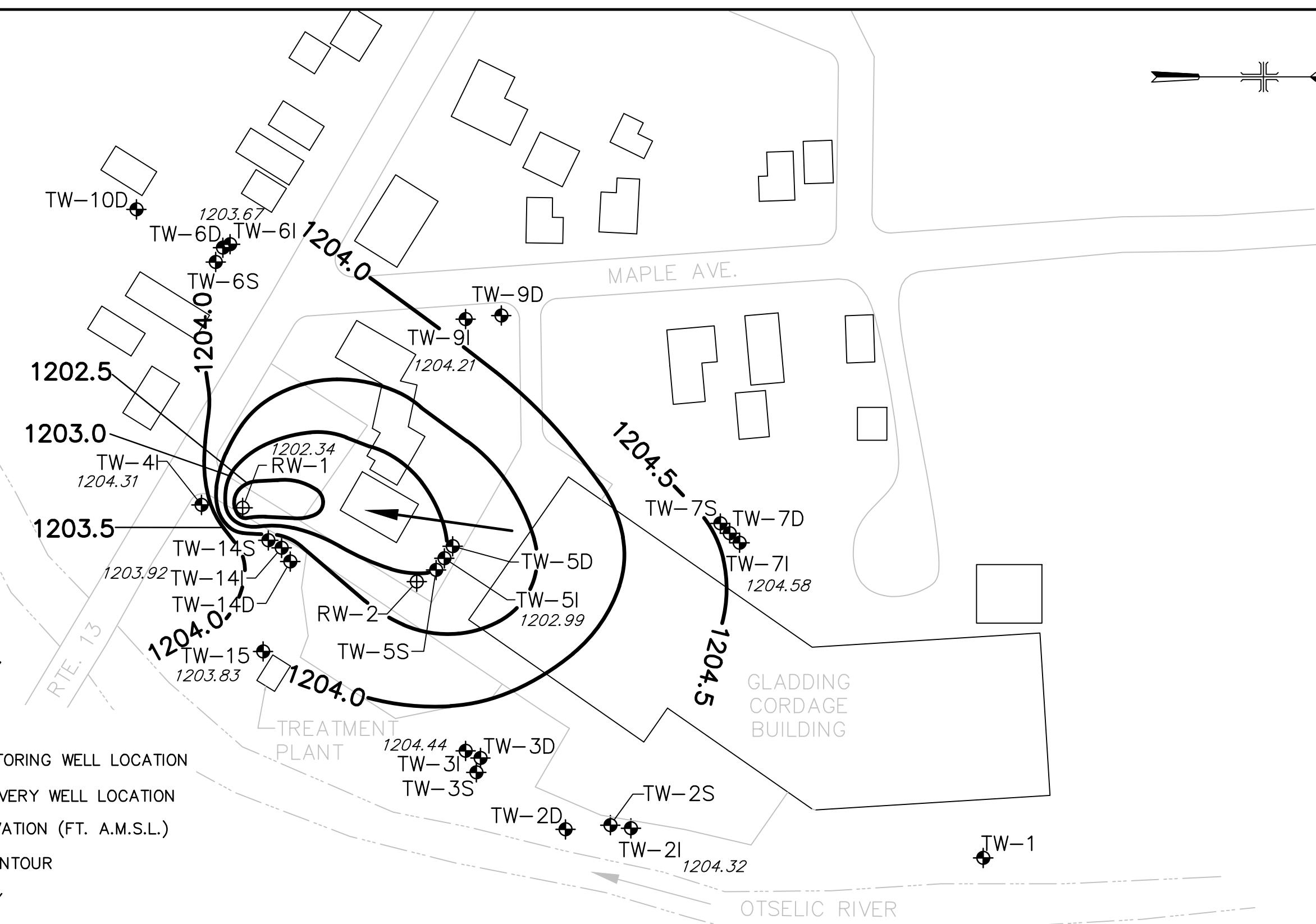
- TW-1 APPROXIMATE MONITORING WELL LOCATION
- RW-2 APPROXIMATE RECOVERY WELL LOCATION
- 1203.69 GROUNDWATER ELEVATION (FT. A.M.S.L.)
-  POTENIOMETRIC CONTOUR
-  ROADWAY/DRIVEWAY
-  BUILDING
-  EDGE OF RIVER
-  GROUNDWATER FLOW DIRECTION

NYSDEC STANDBY CONTRACT NO. D007618-9  
NYSDEC SITE NO. 7-09-009  
GLADDING CORDAGE SITE  
SOUTH OTSELIC, NEW YORK

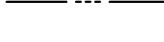
INTERMEDIATE POTENIOMETRIC  
CONTOUR SURFACE MAP (10/15/13)  
SCALE: AS SHOWN

APRIL 2014  
FIGURE 5-2

50 0 50 100  
SCALE: 1" = 100'



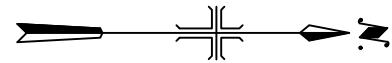
LEGEND:

- TW-1 APPROXIMATE MONITORING WELL LOCATION
- RW-2 APPROXIMATE RECOVERY WELL LOCATION
- 1203.69 GROUNDWATER ELEVATION (FT. A.M.S.L.)
-  POTENSIOMETRIC CONTOUR
-  ROADWAY/DRIVEWAY
-  BUILDING
-  EDGE OF RIVER
-  GROUNDWATER FLOW DIRECTION

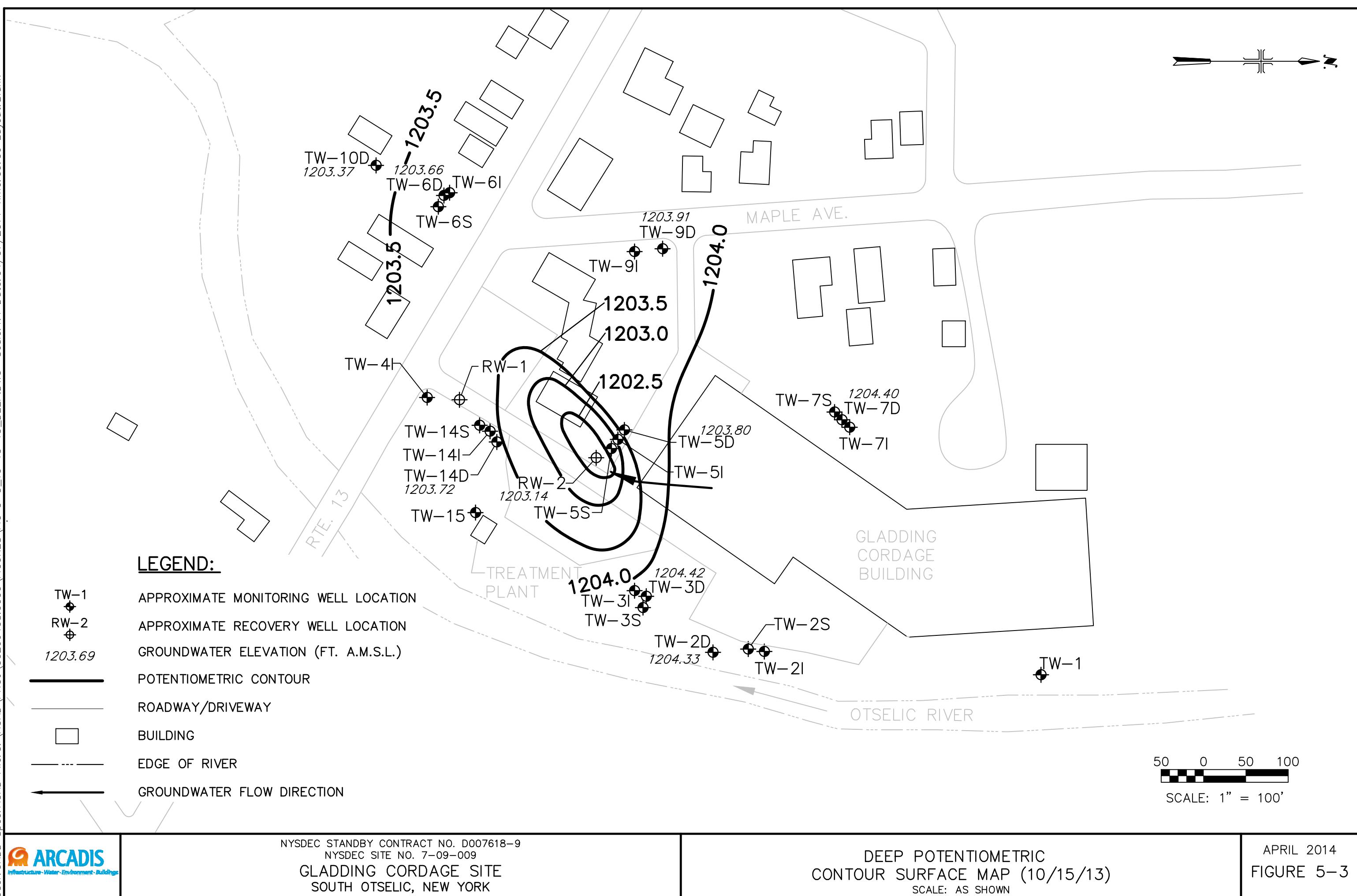
NYSDEC STANDBY CONTRACT NO. D007618-9  
NYSDEC SITE NO. 7-09-009  
GLADDING CORDAGE SITE  
SOUTH OTSELIC, NEW YORK

DEEP POTENSIOMETRIC  
CONTOUR SURFACE MAP (10/15/13)  
SCALE: AS SHOWN

APRIL 2014  
FIGURE 5-3

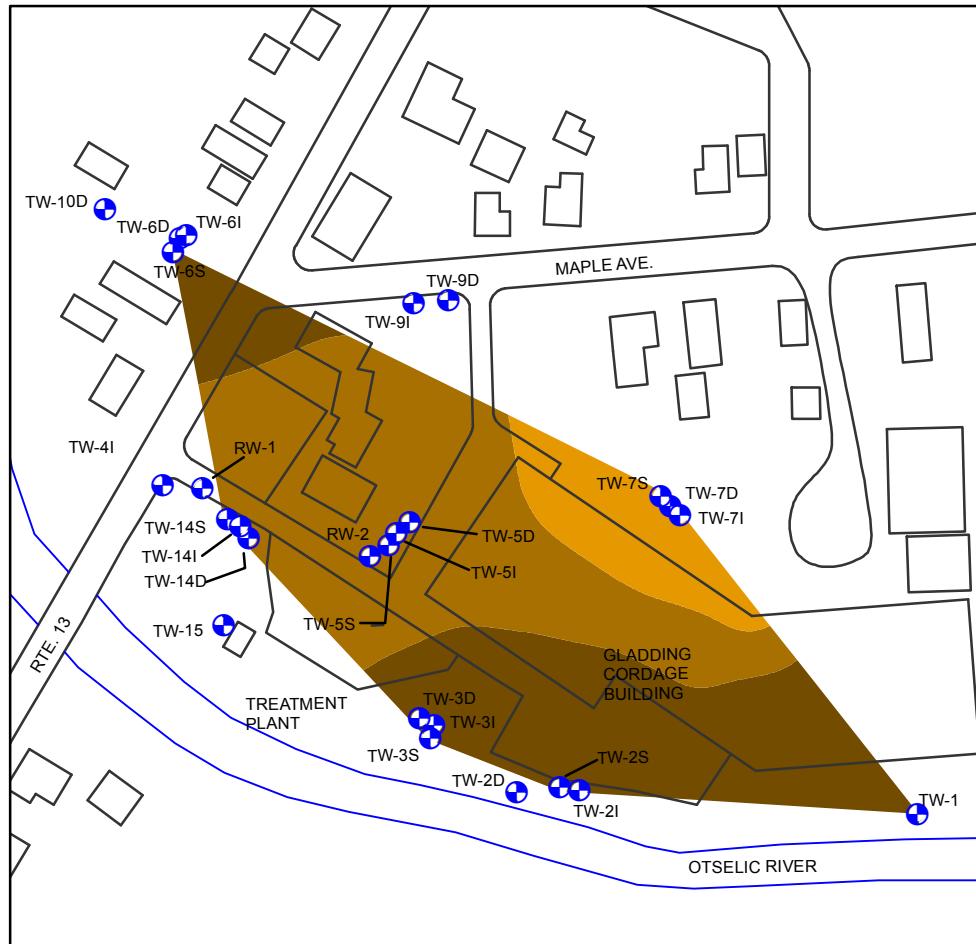


50 0 50 100  
SCALE: 1" = 100'

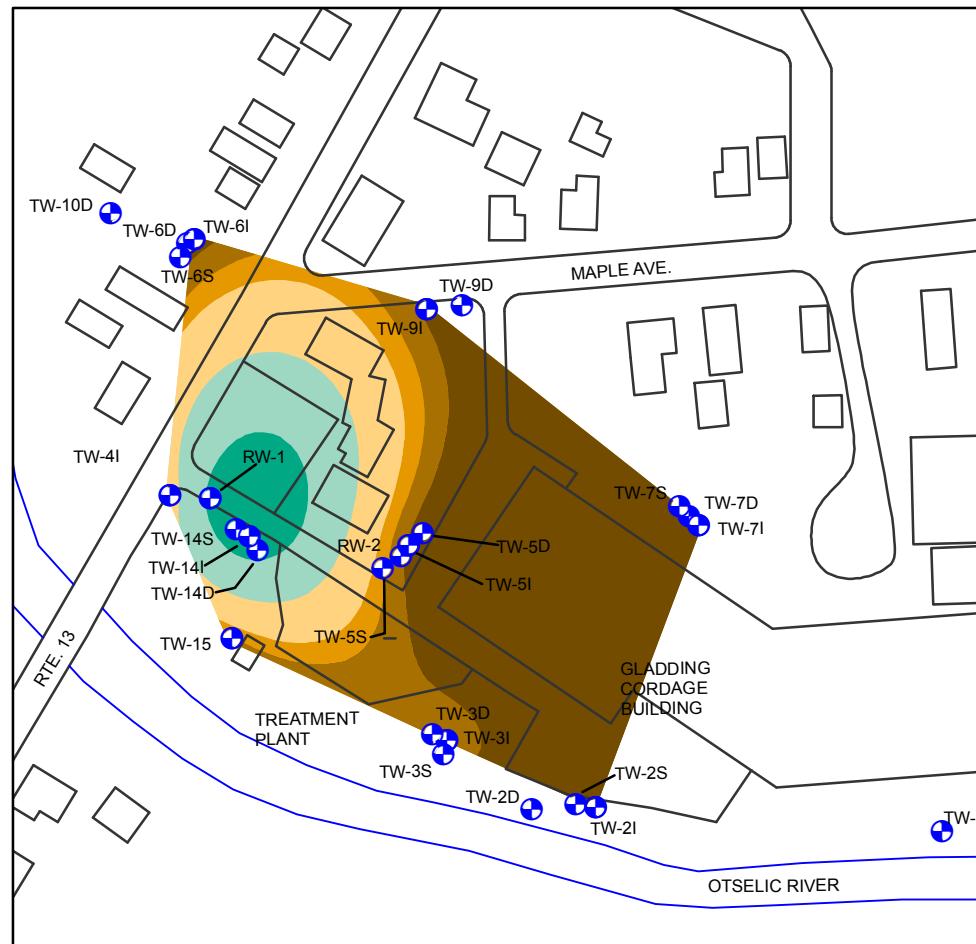


Z

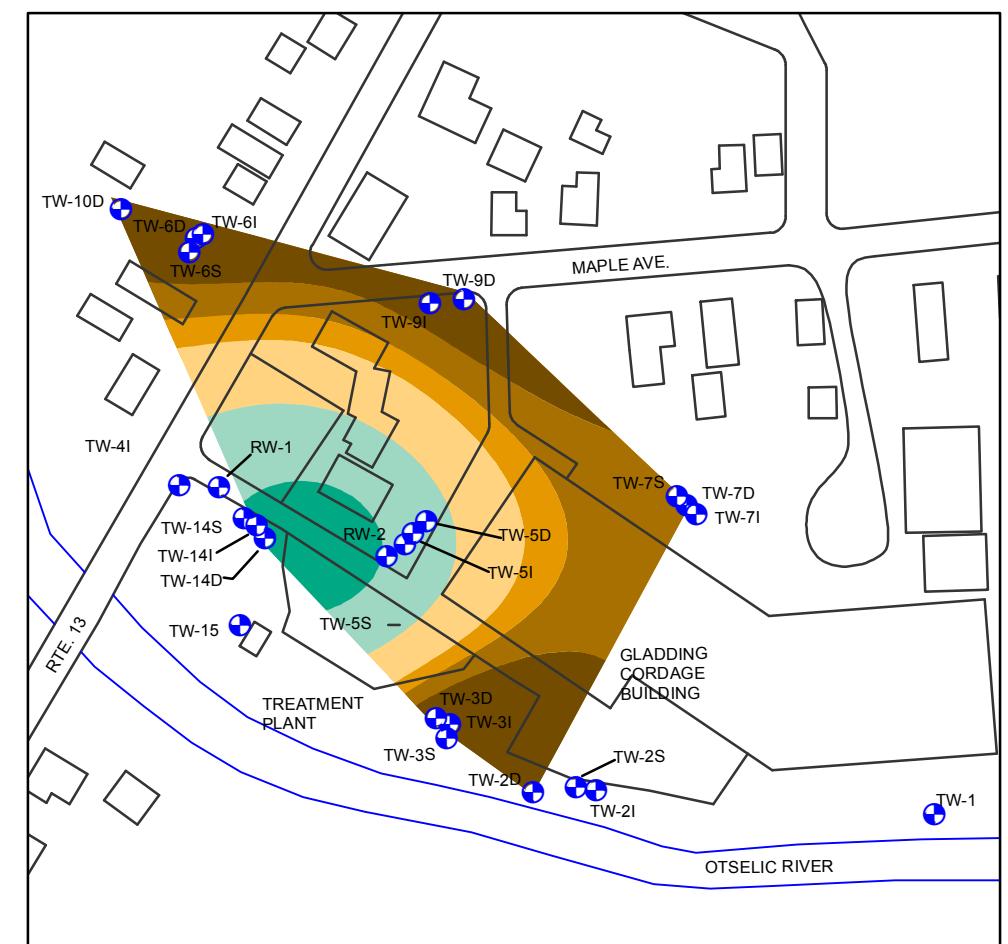
## SHALLOW



## INTERMEDIATE



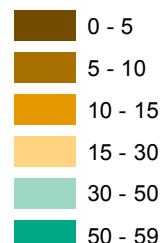
## DEEP



0 100 200 300 400 500 600 700 800 Feet

### Legend

1,1,1-Trichloroethane Concentrations (ug/L)



GLADDING CORDAGE SITE NUMBER 7-09-009  
SOUTH OTSELIC, NEW YORK

PERIODIC REVIEW REPORT

GROUNDWATER 1,1,1-TRICHLOROETHANE CONCENTRATIONS

OCTOBER 29, 2013

**TABLE 4-1**  
**TREATMENT SYSTEM STATUS AND FLOW SUMMARY**  
**GLADDING CORDAGE SITE**  
**SOUTH OTSELIC, NEW YORK**  
**NYSDEC SITE NO. 7-04-009A**

Date	System Operation (days)	System On-time (% of possible days)	Well On-time		Flow Rates		Totalizer RW-1 (gallons)	Totalizer RW-2 (gallons)	Recovery Well Total Flows		Total System Flow (gallons)	Quarterly Totals (gallons)
			RW-1 (% possible )	RW-2 (% possible )	RW-1 (gpm)	RW-2 (gpm)			RW-1 (gallons)	RW-2 (gallons)		
August-07	8 <sup>(1)</sup>	100%	100%	100%	38	24	-		437,760 <sup>(3)</sup>	276,480 <sup>(3)</sup>	714,240	
September-07	30	100%	100%	100%	38	25	-		1,641,600 <sup>(3)</sup>	1,080,000 <sup>(3)</sup>	2,721,600	3,435,840
October-07	20	65%	100%	100%	38.2	25.7	2,276,270		1,100,160 <sup>(3)</sup>	740,160 <sup>(3)</sup>	1,840,320	
November-07	30	100%	67%	100%	39.9	24.9 <sup>(2)</sup>	3,235,110		958,840 <sup>(4)</sup>	1,075,680 <sup>(3)</sup>	2,034,520	6,172,646
December-07	31	100%	39%	100%	31.8	24.9 <sup>(2)</sup>	4,421,380		1,186,270 <sup>(4)</sup>	1,111,536 <sup>(3)</sup>	2,297,806	
January-08	31	100%	100%	100%	31.8	24.9 <sup>(2)</sup>	5,278,000		856,620 <sup>(4)</sup>	1,111,536 <sup>(3)</sup>	1,968,156	
February-08	26	90%	69%	88%	32	24.9 <sup>(2)</sup>	6,457,610		1,179,610 <sup>(4)</sup>	820,385 <sup>(3)</sup>	1,999,995	5,503,499
March-08	23	74%	100%	100%	32.9	24.9 <sup>(2)</sup>	7,168,270		710,660 <sup>(4)</sup>	824,688 <sup>(3)</sup>	1,535,348	
April-08	30	100%	100%	100%	30.8	24.9 <sup>(2)</sup>	8,219,790		1,051,520 <sup>(4)</sup>	1,075,680 <sup>(3)</sup>	2,127,200	
May-08	31	100%	100%	100%	31.3	24.9 <sup>(2)</sup>	9,458,370		1,238,580 <sup>(4)</sup>	1,111,536 <sup>(3)</sup>	2,350,116	6,846,908
June-08	27	90%	100%	100%	30.5	24.9 <sup>(2)</sup>	10,859,850		1,401,480 <sup>(4)</sup>	968,112 <sup>(3)</sup>	2,369,592	
July-08	28	90%	68%	100%	30.1	24.9 <sup>(2)</sup>	11,889,440		1,029,590 <sup>(4)</sup>	1,003,968 <sup>(3)</sup>	2,033,558	
August-08	28	90%	100%	100%	30	24.9 <sup>(2)</sup>	12,832,500		943,060 <sup>(4)</sup>	1,003,968 <sup>(3)</sup>	1,947,028	6,201,456
September-08	30	100%	100%	100%	29.8	24.9 <sup>(2)</sup>	13,977,690		1,145,190 <sup>(4)</sup>	1,075,680 <sup>(3)</sup>	2,220,870	
October-08	31	100%	100%	100%	30	24.9 <sup>(2)</sup>	15,190,100		1,212,410 <sup>(4)</sup>	1,111,536 <sup>(3)</sup>	2,323,946	
November-08	30	100%	100%	100%	31.7	24.9 <sup>(2)</sup>	16,722,470		1,532,370 <sup>(4)</sup>	1,075,680 <sup>(3)</sup>	2,608,050	7,494,552
December-08	31	100%	100%	100%	31.3	24.9 <sup>(2)</sup>	18,173,490		1,451,020 <sup>(4)</sup>	1,111,536 <sup>(3)</sup>	2,562,556	
<b>Total Flow 2007</b>									<b>5,324,630</b>	<b>4,283,856</b>	<b>9,608,486</b>	
<b>Total Flow 2008</b>									<b>13,752,110</b>	<b>12,294,305</b>	<b>26,046,415</b>	

Notes:

- 1 - System started on 8/23/07.
  - 2 - Flow meter inoperative. Flow based on average flow from August, September, and October 2008.
  - 3 - Calculated based on percentage of system on-time, flow rate, and percentage of recovery well on-time.
  - 4 - Calculated from totalizer values.
- gpm - Gallons per minute

**TABLE 4-1**  
**TREATMENT SYSTEM STATUS AND FLOW SUMMARY**  
**GLADDING CORDAGE SITE**  
**SOUTH OTSELIC, NEW YORK**  
**NYSDEC SITE NO. 7-04-009A**

Date	System Operation (days)	System On-time (% of possible days)	Well On-time		Flow Rates		Totalizer RW-1 (gallons)	Totalizer RW-2 (gallons)	Recovery Well Total Flows		Total System Flow (gallons)	Quarterly Totals (gallons)
			RW-1 (%)	RW-2 (%)	RW-1 (gpm)	RW-2 (gpm)			RW-1 (gallons)	RW-2 (gallons)		
January-09	31	100%	100%	100%	31.3	24.9 <sup>(2)</sup>	19,566,200		1,392,710 <sup>(4)</sup>	1,111,536 <sup>(3)</sup>	2,504,246	
February-09	28	100%	100%	100%	30.8	24.9 <sup>(2)</sup>	20,929,320		1,363,120 <sup>(4)</sup>	1,003,968 <sup>(3)</sup>	2,367,088	6,931,910
March-09	31	100%	100%	100%	30.8	24.9 <sup>(2)</sup>	21,878,360		949,040 <sup>(4)</sup>	1,111,536 <sup>(3)</sup>	2,060,576	
April-09	30	100%	100%	100%	31.2	24.9 <sup>(2)</sup>	23,159,480		1,281,120 <sup>(4)</sup>	1,075,680 <sup>(3)</sup>	2,356,800	
May-09	31	100%	100%	100%	31.5	24.9 <sup>(2)</sup>	25,128,390		1,968,910 <sup>(4)</sup>	1,111,536 <sup>(3)</sup>	3,080,446	
June-09	30	100%	100%	100%	31.1	24.9 <sup>(2)</sup>	26,832,620		1,704,230 <sup>(4)</sup>	1,075,680 <sup>(3)</sup>	2,779,910	
July-09	28	90%	100%	100%	30.4	24.9 <sup>(2)</sup>	27,568,640		736,020 <sup>(4)</sup>	1,003,968 <sup>(3)</sup>	1,739,988	
August-09	29	94%	100%	100%	30.6	24.9 <sup>(2)</sup>	28,551,120		982,480 <sup>(4)</sup>	1,039,824 <sup>(3)</sup>	2,022,304	
September-09	30	100%	100%	100%	30.3	24.9 <sup>(2)</sup>	29,546,580		995,460 <sup>(4)</sup>	1,075,680 <sup>(3)</sup>	2,071,140	
October-09	20	65%	100%	100%	34.1	24.9 <sup>(2)</sup>	30,909,620		1,363,040 <sup>(4)</sup>	717,120 <sup>(3)</sup>	2,080,160	
November-09	29	97%	100%	100%	31.7	24.9 <sup>(2)</sup>	31,775,760		866,140 <sup>(4)</sup>	1,039,824 <sup>(3)</sup>	1,905,964	
December-09	27	87%	100%	100%	33.7	24.9 <sup>(2)</sup>	33,049,620		1,273,860 <sup>(4)</sup>	968,112 <sup>(3)</sup>	2,241,972	
January-10	31	100%	100%	100%	29.2	24.9 <sup>(2)</sup>	34,376,810		1,327,190 <sup>(4)</sup>	1,111,536 <sup>(3)</sup>	2,438,726	
February-10	28	100%	100%	100%	34.8	24.9 <sup>(2)</sup>	36,406,400		2,029,590 <sup>(4)</sup>	1,003,968 <sup>(3)</sup>	3,033,558	7,478,090
March-10	31	100%	100%	100%	33	24.9 <sup>(2)</sup>	37,300,670		894,270 <sup>(4)</sup>	1,111,536 <sup>(3)</sup>	2,005,806	
April-10	26	87%	100%	100%	35.2	24.9 <sup>(2)</sup>	38,443,930		1,143,260 <sup>(4)</sup>	932,256 <sup>(3)</sup>	2,075,516	
May-10	28	90%	36%	100%	35.2	24.9 <sup>(2)</sup>	38,734,170		290,240 <sup>(4)</sup>	1,003,968 <sup>(3)</sup>	1,294,208	
June-10	17	57%	0%	100%	0	25 <sup>(2)</sup>	38,734,170		0 <sup>(4)</sup>	612,000 <sup>(3)</sup>	612,000	
July-10	18	58%	0%	100%	0	24.9 <sup>(2)</sup>	NA		0 <sup>(3)</sup>	645,408 <sup>(3)</sup>	645,408	
August-10	23	74%	0%	100%	0	24.9 <sup>(2)</sup>	NA		0 <sup>(3)</sup>	824,688 <sup>(3)</sup>	824,688	
September-10	30	100%	100%	100%	34.5 <sup>(2)</sup>	24.9 <sup>(2)</sup>	NA		1,488,960 <sup>(3)</sup>	1,075,680 <sup>(3)</sup>	2,564,640	
October-10	31	100%	100%	90%	33.4 <sup>(2)</sup>	24.9 <sup>(2)</sup>	NA		1,489,302 <sup>(3)</sup>	1,000,382 <sup>(3)</sup>	2,489,684	
November-10	30	100%	100%	100%	33.4 <sup>(2)</sup>	24.9 <sup>(2)</sup>	NA		1,441,260 <sup>(3)</sup>	1,075,680 <sup>(3)</sup>	2,516,940	
December-10	27	87%	100%	100%	33.4 <sup>(2)</sup>	24.9 <sup>(2)</sup>	NA		1,297,134 <sup>(3)</sup>	968,112 <sup>(3)</sup>	2,265,246	
<b>Total Flow 2009</b>									<b>14,876,130</b>	<b>12,334,464</b>	<b>27,210,594</b>	
<b>Total Flow 2010</b>									<b>11,401,206</b>	<b>11,365,214</b>	<b>22,766,420</b>	

Notes:

- 1 - System started on 8/23/07.
  - 2 - Flow meter inoperative. Flow based on previous average flows or from manual tests.
  - 3 - Calculated based on percentage of system on-time, flow rate, and percentage of recovery well on-time.
  - 4 - Calculated from totalizer values.
- gpm - Gallons per minute

**TABLE 4-1**  
**TREATMENT SYSTEM STATUS AND FLOW SUMMARY**  
**GLADDING CORDAGE SITE**  
**SOUTH OTSELIC, NEW YORK**  
**NYSDEC SITE NO. 7-04-009A**

Date	System Operation (days)	System On-time (% of possible days)	Well On-time		Flow Rates		Totalizer RW-1 (gallons)	Totalizer RW-2 (gallons)	Recovery Well Total Flows		Total System Flow (gallons)	Quarterly Totals (gallons)
			RW-1 (%)	RW-2 (%)	RW-1 (gpm)	RW-2 (gpm)			RW-1 (gallons)	RW-2 (gallons)		
January-11	31	100%	100%	100%	33.4 <sup>(2)</sup>	24.9 <sup>(2)</sup>			1,489,302 <sup>(3)</sup>	1,111,536 <sup>(3)</sup>	2,600,838	6,292,350
February-11	20	71%	100%	100%	33.4 <sup>(2)</sup>	24.9 <sup>(2)</sup>			960,840 <sup>(3)</sup>	717,120 <sup>(3)</sup>	1,677,960	
March-11	24	77%	100%	100%	33.4 <sup>(2)</sup>	24.9 <sup>(2)</sup>			1,153,008 <sup>(3)</sup>	860,544 <sup>(3)</sup>	2,013,552	
April-11	27	90%	100%	100%	33.36 <sup>(2)</sup>	24.9 <sup>(2)</sup>			1,297,134 <sup>(3)</sup>	968,112 <sup>(3)</sup>	2,265,246	
May-11	28	90%	100%	100%	33.36 <sup>(2)</sup>	24.9 <sup>(2)</sup>			1,345,176 <sup>(3)</sup>	1,003,968 <sup>(3)</sup>	2,349,144	
June-11	23	77%	100%	100%	33.36 <sup>(2)</sup>	24.9 <sup>(2)</sup>			1,104,966 <sup>(3)</sup>	824,688 <sup>(3)</sup>	1,929,654	
July-11	6	19%	100%	100%	33.4 <sup>(2)</sup>	24.9 <sup>(2)</sup>			288,576 <sup>(3)</sup>	215,136 <sup>(3)</sup>	503,712	
August-11	31	100%	100%	100%	33.4 <sup>(2)</sup>	24.9 <sup>(2)</sup>			1,490,976 <sup>(3)</sup>	1,111,536 <sup>(3)</sup>	2,602,512	
September-11	30	100%	100%	97%	33.4 <sup>(2)</sup>	24.9 <sup>(2)</sup>			1,442,880 <sup>(3)</sup>	1,043,410 <sup>(3)</sup>	2,486,290	
October-11	28	90%	100%	54%	33.4 <sup>(2)</sup>	24.9 <sup>(2)</sup>			1,346,688 <sup>(3)</sup>	542,143 <sup>(3)</sup>	1,888,831	
November-11	30	100%	100%	100%	33.4 <sup>(2)</sup>	24.9 <sup>(2)</sup>			1,442,880 <sup>(3)</sup>	1,075,680 <sup>(3)</sup>	2,518,560	
December-11	31	100%	100%	100%	33.4 <sup>(2)</sup>	24.9 <sup>(2)</sup>			1,490,976 <sup>(3)</sup>	1,111,536 <sup>(3)</sup>	2,602,512	
January-12	30	97%	100%	100%	22.7 <sup>(6)</sup>	18.0 <sup>(6)</sup>			980,640 <sup>(3)</sup>	777,600 <sup>(3)</sup>	1,758,240	
February-12	0 <sup>(5)</sup>	0%	0%	0%	0	0	0	0	0	0	0	2,311,830
March-12	10	32%	100%	100%	22.7	18.0	308,309	245,281	308,309 <sup>(4)</sup>	245,281 <sup>(4)</sup>	553,590	5,130,889
April-12	30	100%	100%	100%	22.2	18.2	1,274,180	1,027,406	965,871 <sup>(4)</sup>	782,125 <sup>(4)</sup>	1,747,996	
May-12	26	84%	100%	100%	22.8	20.3	2,156,600	1,773,905	882,420 <sup>(4)</sup>	746,499 <sup>(4)</sup>	1,628,919	
June-12	26	87%	100%	100%	23.6	19.9	3,100,285	2,584,194	943,685 <sup>(4)</sup>	810,289 <sup>(4)</sup>	1,753,974	
July-12	20	65%	100%	100%	23.8	19.7	3,770,411	3,157,520	670,126 <sup>(4)</sup>	573,326 <sup>(4)</sup>	1,243,452	
August-12	31	100%	100%	100%	23.7	19.4	5,092,016	4,262,219	1,321,605 <sup>(4)</sup>	1,104,699 <sup>(4)</sup>	2,426,304	
September-12	30	100%	100%	100%	23.5	20.1	6,104,443	5,120,280	1,012,427 <sup>(4)</sup>	858,061 <sup>(4)</sup>	1,870,488	
October-12	16	52%	100%	100%	23.4	20.3	6,676,877	5,607,870	572,434 <sup>(4)</sup>	487,590 <sup>(4)</sup>	1,060,024	3,956,859
November-12	30	100%	100%	100%	23.6	19.6	7,769,986	6,536,938	1,093,109 <sup>(4)</sup>	929,068 <sup>(4)</sup>	2,022,177	
December-12	17	55%	100%	100%	24.3	19.7	8,250,333	6,931,249	480,347 <sup>(3)</sup>	394,311 <sup>(3)</sup>	874,658	
<b>Total Flow 2011</b>									<b>14,853,402</b>	<b>10,585,408</b>	<b>25,438,810</b>	
<b>Total Flow 2012</b>									<b>9,230,973</b>	<b>7,708,849</b>	<b>16,939,822</b>	

Notes:

- 1 - System started on 8/23/07.
- 2 - Flow meter inoperative. Flow based on previous average flows or from manual tests.
- 3 - Calculated based on percentage of system on-time, flow rate, and percentage of recovery well on-time.
- 4 - Calculated from totalizer values.
- 5 - System shut down for repairs.
- 6 - Flow based on March 2012 PLC data.
- gpm - Gallons per minute

**TABLE 4-1**  
**TREATMENT SYSTEM STATUS AND FLOW SUMMARY**  
**GLADDING CORDAGE SITE**  
**SOUTH OTSELIC, NEW YORK**  
**NYSDEC SITE NO. 7-04-009A**

Date	System Operation (days)	System On-time (% of possible days)	Well On-time		Flow Rates		Totalizer	Totalizer	Recovery Well Total Flows		Total System Flow (gallons)	Quarterly Totals (gallons)
			RW-1 (% possible )	RW-2 (% possible )	RW-1 (gpm)	RW-2 (gpm)	RW-1 (gallons)	RW-2 (gallons)	RW-1 (gallons)	RW-2 (gallons)		
January-13	26	84%	100%	100%	23.1	19.5	9,140,834	7,699,661	890,501	768,412	1,658,913	5,239,914
February-13	28	100%	100%	100%	22.7	19.4	10,078,542	8,496,541	937,708	796,880	1,734,588	
March-13	31	100%	100%	100%	23.2	19.6	11,077,204	9,344,292	998,662	847,751	1,846,413	
April-13	27	90%	100%	100%	23.4	19.7	11,750,528	9,913,754	673,324	569,462	1,242,786	
May-13	30	97%	100%	100%	24.2	19.4	12,984,742	10,944,208	1,234,214	1,030,454	2,264,668	5,371,547
June-13	31	100%	100%	100%	23.2	19.6	14,002,162	11,790,881	1,017,420	846,673	1,864,093	
July-13	26	84%	100%	100%	23.8	19.3	14,893,234	12,513,473	891,072	722,592	1,613,664	
August-13	19	61%	100%	100%	22.9	19.4	15,519,778	13,044,257	626,544	530,784	1,157,328	4,241,225
September-13	20	67%	100%	100%	21.7	19.7	16,291,084	13,743,184	771,306	698,927	1,470,233	
October-13	13	42%	100%	100%	21.3	20.0	16,558,269	14,001,381	267,185	258,197	525,382	
November-13	30	100%	100%	100%	21.6	22.6	17,493,334	14,962,574	935,065	961,193	1,896,258	3,722,666
December-13	20	65%	100%	100%	21.3	22.3	18,132,181	15,624,753	638,847	662,179	1,301,026	
<b>Total Flow 2013</b>									<b>9,881,848</b>	<b>8,693,504</b>	<b>18,575,352</b>	

Notes:

- 1 - System started on 8/23/07.
  - 2 - Flow meter inoperative. Flow based on previous average flows or from manual tests.
  - 3 - Calculated based on percentage of system on-time, flow rate, and percentage of recovery well on-time.
  - 4 - Calculated from totalizer values.
  - 5 - System shut down for repairs.
  - 6 - Flow based on March 2012 PLC data.
- gpm - Gallons per minute

**Table 5-1**  
**GROUNDWATER MONITORING WELL WATER LEVEL DATA**  
**GLADDING CORDAGE**  
**SOUTH OTSELIC, NEW YORK**  
**NYSDEC SITE No. 7-09-009**

Well ID	Monitored Interval	Measuring Point Elevation <sup>(1)</sup> (feet)	6/7/2011		7/10/2012		10/15/2013	
			DTW (feet)	Elevation (feet amsl)	DTW (feet)	Elevation (feet amsl)	DTW (feet)	Elevation (feet amsl)
TW-1	Shallow	1212.71 <sup>(4)</sup>	7.40	1205.31	8.03	1204.68	7.29	1205.42
TW-2S	Shallow	1212.57 <sup>(4)</sup>	8.48	1204.09	8.84	1203.73	8.22	1204.35
TW-2I	Intermediate	1212.16 <sup>(4)</sup>	8.07	1204.09	8.51	1203.65	7.84	1204.32
TW-2D	Deep	1212.26 <sup>(4)</sup>	8.24	1204.02	8.48	1203.78	7.93	1204.33
TW-3S	Shallow	1213.60	9.74	1203.86	9.91	1203.69	9.40	1204.2
TW-3I	Intermediate	1213.19	9.10	1204.09	9.5	1203.69	8.75	1204.44
TW-3D	Deep	1213.47	9.38	1204.09	9.75	1203.72	9.05	1204.42
TW-4I	Intermediate	1209.96 <sup>(2)</sup>	6.75	1203.21	7.16	1202.8	5.65	1204.31
TW-5S	Shallow	1211.78	7.93	1203.85	8.38	1203.4	7.60	1204.18
TW-5I	Intermediate	1211.89	8.29	1203.60	8.76	1203.13	8.90	1202.99
TW-5D	Deep	1212.55	9.11	1203.44	9.63	1202.92	8.75	1203.8
TW-6S	Shallow	1210.08 <sup>(5)</sup>	6.38	1203.70	6.62	1203.46	6.02	1204.06
TW-6I	Intermediate	1210.61 <sup>(5)</sup>	7.26	1203.35	7.74	1202.87	6.94	1203.67
TW-6D	Deep	1210.36 <sup>(5)</sup>	7.01	1203.35	7.49	1202.87	6.70	1203.66
TW-7S	Shallow	1213.48	8.83	1204.65	8.5	1204.98	8.70	1204.78
TW-7I	Intermediate	1213.60	9.33	1204.27	9.85	1203.75	9.02	1204.58
TW-7D	Deep	1213.25	9.05	1204.20	9.68	1203.57	8.85	1204.4
TW-9I	Intermediate	1213.75 <sup>(4)</sup>	9.80	1203.95	10.58	1203.17	9.54	1204.21
TW-9D	Deep	1213.84 <sup>(4)</sup>	10.11	1203.73	10.78	1203.06	9.93	1203.91
TW-10D	Deep	1209.58 <sup>(5)</sup>	6.45	1203.13	6.94	1202.64	6.21	1203.37
TW-12I	Intermediate	-	-	-	7.88	-	7.10	-
TW-12D	Deep	-	-	-	7.9	-	7.13	-
TW-14S	Shallow	1210.05 <sup>(2)</sup>	6.46	1203.59	6.79	1203.26	6.04	1204.01
TW-14I	Intermediate	1210.17 <sup>(2)</sup>	6.95	1203.22	7.29	1202.88	6.25	1203.92
TW-14D	Deep	1209.98 <sup>(2)</sup>	6.64	1203.34	7.05	1202.93	6.26	1203.72
TW-15	Intermediate	1212.94 <sup>(2)</sup>	9.94	1203.00	9.72	1203.22	9.11	1203.83

Notes:

- 1 - Measuring point elevations from: Operation and Maintenance Manual,
- 2 - Based on December 2007 survey referenced from TW-5D.
- 3 - Elevation calculated from water level pressure transducer reading.
- 4 - Based on June 2009 survey referenced from TW-3S, 5D, and 6D.
- 5 - Based on September 2010 survey referenced from TW-4I.

**Table 5-2****RECOVERY WELL WATER LEVEL DATA****GLADDING CORDAGE****SOUTH OTSELIC, NEW YORK****NYSDEC SITE No. 7-09-009**

Recovery Well ID	Top of Casing Elevation (ft amsl)	Transducer Cable Length (ft)	Transducer Elevation (ft amsl)	10/29/2013	
				Pumping Level (ft above transducer)	Elevation (ft amsl)
RW-1	1209.30	40	1169.30	33.04	1202.34
RW-2	1212.20	65	1147.20	54.94	1202.14

Notes:

Top of casing elevation from: Operation and Maintenance Manual, Volume I, Gladding Cordage Site, TAMS Consulting, Inc., 1996.

ft amsl - feet above mean sea level

Pumping level from instrument control panel reading

TABLE 5-3

## SUMMARY OF GROUNDWATER ANALYTICAL RESULTS (VOCS)

GLADDING CORDAGE

SOUTH OTSELIC, NEW YORK

NYSDEC Site No. 7-09-009

Sample ID Sampling Date Matrix Units	NYSDEC Class GA Standard ug/L	TW-1 6/25/2009 WATER ug/L	TW-2S 6/25/2009 WATER ug/L	TW-2I 6/25/2009 WATER ug/L	TW-2D 6/25/2009 WATER ug/L	TW-3S 9/6/2007 WATER ug/L	TW-3S 10/17/2008 WATER ug/L	TW-3S 6/25/2009 WATER ug/L	TW-3S 3/23/2010 WATER ug/L	TW-3S 6/21/2011 WATER ug/L	TW-3S 7/24/2012 WATER ug/L	TW-3S 10/29/2013 WATER ug/L	TW-3I 9/6/2007 WATER ug/L	TW-3I 10/17/2008 WATER ug/L	TW-3I 6/25/2009 WATER ug/L	TW-3I 3/23/2010 WATER ug/L	TW-3I 6/21/2011 WATER ug/L	TW-3I 7/24/2012 WATER ug/L	TW-3I 10/29/2013 WATER ug/L
<b>VOCs</b>																			
1,1,1-Trichloroethane	5	0.4 U	0.4 U	1.4	0.4 U	0.32 U	3.4	0.4 U	6.2	4	2	2.9	9.1	6.7	0.4 U	1 U	1 U	5	6.1
1,1-Dichloroethane	*	0.36 U	0.36 U	0.36 U	0.36 U	0.38 U	1 U	0.36 U	1 U	1 U	0.5 U	2 U	0.38 U	1 U	0.36 U	1 U	1 U	0.5 U	2 U
1,1-Dichloroethene	5	0.47 U	0.47 U	0.47 U	0.47 U	0.42 U	1 U	0.47 U	1 U	1 U	0.5 U	2 U	0.42 U	1 U	0.47 U	1 U	1 U	0.5 U	2 U
2-Butanone	50	1.3 U	1.3 U	1.3 U	1.3 U	1.1 U	5 U	1.3 U	5 U	5 U	1.4 J		1.1 U	5 U	1.3 U	5 U	5 U	2.6 J	
Acetone	50	10	11	9.5	19	2.3 U	5 U	13	14	64	12		2.3 U	5 U	16	13	6	14	
Benzene	1	0.32 U	0.32 U	0.32 U	0.32 U	0.39 U	1 U	0.32 U	1.1	1 U	0.5 U	1 U	0.39 U	1 U	0.32 U	1 U	1 U	0.5 U	1 U
Chloroethane	5	0.66 U	0.66 U	0.66 U	0.66 U	0.83 U	1 U	0.66 U	1 U	1 U	0.5 U	2 U	0.83 U	1 U	0.66 U	1 U	1 U	0.5 U	2 U
Chloroform	7	0.34 U	0.34 U	0.34 U	0.34 U	0.33 U	1 U	0.34 U	1 U	1 U	0.5 U	2 U	0.33 U	1 U	0.34 U	1 U	1 U	0.5 U	2 U
Chloromethane		0.54 U	0.54 U	0.54 U	0.54 U	0.34 U	1 U	0.54 U	1 U	1 U	0.41 J	2 U	0.34 U	1 U	0.54 U	1 U	1 U	0.5 U	2 U
cis-1,2-Dichloroethene	5	0.35 U	0.35 U	0.35 U	0.35 U	0.29 U	1 U	0.35 U	1 U	1 U	0.5 U		0.29 U	1 U	0.35 U	1 U	1 U	0.5 U	
Tetrachloroethene	5	0.27 U	0.27 U	0.27 U	0.27 U	0.48 U	1 U	0.27 U	1 U	1 U	0.5 U	2 U	0.48 U	1 U	0.27 U	1 U	1 U	0.5 U	2 U
Toluene	5	0.37 U	0.37 U	0.37 U	0.37 U	0.36 U	1 U	0.37 U	1 U	1 U	0.5 U	1 U	0.36 U	1 U	0.37 U	1 U	1 U	0.5 U	1 U
Trichloroethene	5	0.28 U	0.28 U	0.28 U	0.28 U	0.46 U	1 U	0.28 U	1 U	1 U	0.5 U	2 U	0.46 U	1 U	0.28 U	1 U	1 U	0.5 U	2 U

## Notes

■ - Concentration exceeds corresponding NYSDEC Class GA Standard.

\* - NYSDEC Principal Organic Contaminant Standard of 5 ug/l applies to this compound.

U - The compound was not detected at the indicated concentration.

J - Compound detected below the reporting limit or Concentration is estimated for TICS.

D - Sample diluted

TW-X is a duplicate sample collected at TW-15

Blank space indicates sample not analyzed for that compound

TABLE 5-3

## SUMMARY OF GROUNDWATER ANALYTICAL RESULTS (VOCS)

GLADDING CORDAGE

SOUTH OTSELIC, NEW YORK

NYSDEC Site No. 7-09-009

Sample ID Sampling Date Matrix Units	NYSDEC Class GA Standard ug/L	TW-3D 9/6/2007 WATER ug/L	TW-3D 10/17/2008 WATER ug/L	TW-3D 6/25/2009 WATER ug/L	TW-3D 3/23/2010 WATER ug/L	TW-3D 6/21/2011 WATER ug/L	TW-3D 7/24/2012 WATER ug/L	TW-3D 10/29/2013 WATER ug/L	TW-4I 9/6/2007 WATER ug/L	TW-4I 10/17/2008 WATER ug/L	TW-4I 6/25/2009 WATER ug/L	TW-4I 3/23/2010 WATER ug/L	TW-4I 6/21/2011 WATER ug/L	TW-4I 7/24/2012 WATER ug/L	TW-4I 10/29/2013 WATER ug/L
<b>VOCs</b>															
1,1,1-Trichloroethane	5	0.32 U	1.3	1.4	1 U	1 U	1.2	2 U	6.6	1.1	0.4 U	23	33	28	23
1,1-Dichloroethane	*	0.38 U	1 U	0.36 U	1 U	1 U	0.5 U	2 U	0.38 U	3.8	3.8	2.5	5.3	4.4	4.4
1,1-Dichloroethene	5	0.42 U	1 U	0.47 U	1 U	1 U	0.5 U	2 U	0.42 U	1 U	0.47 U	1 U	1.6	0.5 U	2 U
2-Butanone	50	1.1 U	5 U	1.3 U	5 U	5 U	2.7 J		1.1 U	5 U	1.3 U	5 U	5 U	2.2 J	
Acetone	50	2.3 U	5 U	11	13	9.5	17		2.3 U	5 U	16	18	20	15	
Benzene	1	0.39 U	1 U	0.32 U	0.76 J	1.9	0.67 J	1 U	0.39 U	1 U	0.32 U	1 U	1 U	0.5 U	1 U
Chloroethane	5	0.83 U	1 U	0.66 U	1 U	1 U	0.5 U	2 U	0.83 U	1 U	0.66 U	1 U	2.5	2.8	2.3
Chloroform	7	0.33 U	1 U	0.34 U	1 U	1 U	0.5 U	2 U	0.33 U	1 U	0.34 U	1 U	1 U	0.5 U	2 U
Chloromethane		0.34 U	1 U	0.54 U	1 U	1 U	0.5 U	2 U	0.34 U	1 U	0.54 U	1 U	1 U	0.5 U	2 U
cis-1,2-Dichloroethene	5	0.29 U	1 U	0.35 U	1 U	1 U	0.5 U		0.29 U	1 U	0.35 U	1 U	1 U	0.5 U	
Tetrachloroethene	5	0.48 U	1 U	0.27 U	1 U	1 U	0.5 U	2 U	0.48 U	1 U	0.27 U	1 U	1 U	0.5 U	2 U
Toluene	5	0.36 U	1 U	0.37 U	1 U	1 U	0.5 U	1 U	0.36 U	1 U	0.37 U	1 U	1 U	0.5 U	1 U
Trichloroethene	5	0.46 U	1 U	0.28 U	1 U	1 U	0.5 U	2 U	0.46 U	1 U	0.28 U	1 U	1 U	0.5 U	2 U

## Notes

Yellow - Concentration exceeds corresponding NYSDEC Class GA Standard.

\* - NYSDEC Principal Organic Contaminant Standard of 5 ug/l applies to this compound.

U - The compound was not detected at the indicated concentration.

J - Compound detected below the reporting limit or Concentration is estimated for TICS.

D - Sample diluted

TW-X is a duplicate sample collected at TW-15

Blank space indicates sample not analyzed for that compound

TABLE 5-3  
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS (VOCS)  
GLADDING CORDAGE  
SOUTH OTSELIC, NEW YORK  
NYSDEC Site No. 7-09-009

Sample ID Sampling Date Matrix Units	NYSDEC Class GA Standard ug/L	TW-5S 9/6/2007 WATER ug/L	TW-5S 10/17/2008 WATER ug/L	TW-5S 6/25/2009 WATER ug/L	TW-5S 3/23/2010 WATER ug/L	TW-5S 6/21/2011 WATER ug/L	TW-5S 7/24/2012 WATER ug/L	TW-5S 10/29/2013 WATER ug/L	TW-5I 9/6/2007 WATER ug/L	TW-5I 10/17/2008 WATER ug/L	TW-5I 6/25/2009 WATER ug/L	TW-5I 3/23/2010 WATER ug/L	TW-5I 6/21/2011 WATER ug/L	TW-5I 7/24/2012 WATER ug/L	TW-5I 10/29/2013 WATER ug/L
<b>VOCs</b>															
1,1,1-Trichloroethane	5	0.32 U	11	13	7.4	7.9	11	7.9	4.8 J	8.8	90	8.6	5.5	4.3	4.1
1,1-Dichloroethane	*	0.38 U	1 U	0.48 J	1 U	1 U	0.5 U	2 U	0.38 U	1	3.5	2.3	1.7	0.5 U	2 U
1,1-Dichloroethene	5	0.42 U	1 U	0.47 U	1 U	1 U	0.5 U	2 U	0.42 U	1 U	0.47 U	1 U	1 U	0.5 U	2 U
2-Butanone	50	1.1 U	5 U	1.3 U	5 U	5 U	2.7 J		1.1 U	5 U	1.3 U	5 U	5 U	2.3 J	
Acetone	50	2.3 U	5 U	9.2	18	5 U	14		2.3 U	5 U	13	15	18		14
Benzene	1	0.39 U	1 U	0.32 U	1 U	1 U	0.5 U	1 U	6.2	3.5	0.32 U	32	1 U	4.8	1.9
Chloroethane	5	0.83 U	1 U	0.66 U	1 U	1 U	0.5 U	2 U	0.83 U	1 U	0.66 U	1 U	1 U	0.5 U	2 U
Chloroform	7	0.33 U	1 U	0.34 U	1 U	1 U	0.5 U	2 U	0.33 U	1 U	0.34 U	1 U	1 U	0.5 U	2 U
Chloromethane		0.34 U	1 U	0.54 U	1 U	1 U	0.5 U	2 U	0.34 U	1 U	0.54 U	1 U	1 U	0.43 J	2 U
cis-1,2-Dichloroethene	5	0.29 U	1 U	0.35 U	1 U	1 U	0.5 U		0.29 U	1 U	0.35 U	1 U	1 U	0.5 U	
Tetrachloroethene	5	0.48 U	1 U	0.27 U	1 U	1 U	0.5 U	2 U	0.48 U	1 U	0.27 U	1 U	1 U	0.5 U	2 U
Toluene	5	0.36 U	1 U	0.37 U	1 U	1 U	0.5 U	1 U	0.36 U	1 U	0.37 U	0.63 J	1 U	0.44 J	1 U
Trichloroethene	5	0.46 U	1 U	0.28 U	1 U	1 U	0.5 U	2 U	0.46 U	1 U	0.28 U	1 U	1 U	0.5 U	2 U

Notes

- Concentration exceeds corresponding NYSDEC Class GA Standard.

\* - NYSDEC Principal Organic Contaminant Standard of 5 ug/l applies to this compound.

U - The compound was not detected at the indicated concentration.

J - Compound detected below the reporting limit or Concentration is estimated for TICS.

D - Sample diluted

TW-X is a duplicate sample collected at TW-15

Blank space indicates sample not analyzed for that compound

TABLE 5-3

## SUMMARY OF GROUNDWATER ANALYTICAL RESULTS (VOCS)

GLADDING CORDAGE

SOUTH OTSELIC, NEW YORK

NYSDEC Site No. 7-09-009

Sample ID Sampling Date Matrix Units	NYSDEC Class GA Standard ug/L	TW-5D 9/6/2007 WATER ug/L	TW-5D 10/17/2008 WATER ug/L	TW-5D 6/25/2009 WATER ug/L	TW-5D 3/23/2010 WATER ug/L	TW-5D 6/21/2011 WATER ug/L	TW-5D 7/24/2012 WATER ug/L	TW-5D 10/29/2013 WATER ug/L	TW-6S 9/6/2007 WATER ug/L	TW-6S 10/17/2008 WATER ug/L	TW-6S 6/25/2009 WATER ug/L	TW-6S 3/23/2010 WATER ug/L	TW-6S 6/21/2011 WATER ug/L	TW-6S 7/24/2012 WATER ug/L	TW-6S 10/29/2013 WATER ug/L
<b>VOCs</b>															
1,1,1-Trichloroethane	5	41	28	32	28	25	28	39	0.32 U	0.53 J	0.4 U	1 U	1 U	0.5 U	2 U
1,1-Dichloroethane	*	0.38 U	1 U	0.36 U	1 U	1 U	0.5 U	2 U	0.38 U	1 U	0.36 U	1 U	1 U	0.5 U	2 U
1,1-Dichloroethene	5	0.42 U	1 U	0.47 U	1 U	1.3	0.5 U	2 U	0.42 U	1 U	0.47 U	1 U	1 U	0.5 U	2 U
2-Butanone	50	1.1 U	5 U	1.3 U	5 U	5 U	2.1 J		1.1 U	5 U	1.3 U	5 U	5 U	2.3 J	
Acetone	50	2.3 U	5 U	20	17	41	14		2.3 U	5 U	11	15	17	12	
Benzene	1	0.39 U	1 U	0.32 U	1 U	1 U	0.5 U	1 U	0.39 U	1 U	0.32 U	1 U	1 U	0.5 U	1 U
Chloroethane	5	0.83 U	1 U	0.66 U	1 U	1 U	0.5 U	2 U	0.83 U	1 U	0.66 U	1 U	1 U	0.5 U	2 U
Chloroform	7	0.33 U	1 U	0.34 U	1 U	1 U	0.5 U	2 U	0.33 U	1.6	1	1.1	1.2	4.7	8.6
Chloromethane		0.34 U	1 U	0.54 U	1 U	1 U	0.5 U	2 U	0.34 U	1 U	0.54 U	1 U	1 U	0.5 U	2 U
cis-1,2-Dichloroethene	5	0.29 U	1 U	0.35 U	1 U	1 U	0.5 U		0.29 U	1 U	0.35 U	1 U	1 U	0.5 U	
Tetrachloroethene	5	0.48 U	1 U	0.27 U	1 U	1 U	0.5 U	2 U	0.48 U	1 U	0.27 U	1 U	1 U	0.5 U	2 U
Toluene	5	0.36 U	1 U	0.37 U	1 U	1 U	0.5 U	1 U	0.36 U	1 U	0.37 U	1 U	1 U	0.5 U	1 U
Trichloroethene	5	0.46 U	1 U	0.28 U	1 U	1 U	0.5 U	2 U	0.46 U	1 U	0.28 U	1 U	1 U	0.5 U	2 U

## Notes

- Concentration exceeds corresponding NYSDEC Class GA Standard.

\* - NYSDEC Principal Organic Contaminant Standard of 5 ug/l applies to this compound.

U - The compound was not detected at the indicated concentration.

J - Compound detected below the reporting limit or Concentration is estimated for TICS.

D - Sample diluted

TW-X is a duplicate sample collected at TW-15

Blank space indicates sample not analyzed for that compound

**TABLE 5-3**  
**SUMMARY OF GROUNDWATER ANALYTICAL RESULTS (VOCS)**  
**GLADDING CORDAGE**  
**SOUTH OTSELIC, NEW YORK**  
**NYSDEC Site No. 7-09-009**

Sample ID Sampling Date Matrix Units	NYSDEC Class GA Standard ug/L	TW-6I 9/6/2007 WATER ug/L	TW-6I 10/17/2008 WATER ug/L	TW-6I 6/25/2009 WATER ug/L	TW-6I 3/23/2010 WATER ug/L	TW-6I 6/21/2011 WATER ug/L	TW-6I 7/24/2012 WATER ug/L	TW-6I 10/29/2013 WATER ug/L	TW-6D 9/6/2007 WATER ug/L	TW-6D 10/17/2008 WATER ug/L	TW-6D 6/25/2009 WATER ug/L	TW-6D 3/23/2010 WATER ug/L	TW-6D 6/21/2011 WATER ug/L	TW-6D 7/24/2012 WATER ug/L	TW-6D 10/29/2013 WATER ug/L
<b>VOCs</b>															
<b>1,1,1-Trichloroethane</b>	5	0.32 U	1.3	0.4 U	1 U	1 U	3.2	2.2	0.32 U	1 U	0.4 U	1 U	1 U	0.5 U	2 U
<b>1,1-Dichloroethane</b>	*	0.38 U	1 U	0.36 U	1 U	1 U	0.5 U	2 U	0.38 U	1 U	0.36 U	1 U	1 U	0.5 U	2 U
<b>1,1-Dichloroethene</b>	5	0.42 U	1 U	0.47 U	1 U	1 U	0.5 U	2 U	0.42 U	1 U	0.47 U	1 U	1 U	0.5 U	2 U
<b>2-Butanone</b>	50	1.1 U	5 U	1.3 U	5 U	5 U	2.1 J		1.1 U	5 U	1.3 U	5 U	5 U	1.9 J	
<b>Acetone</b>	50	2.3 U	4.4 J	11	18	14	16		2.3 U	5 U	21	9.5	16	13	
<b>Benzene</b>	1	0.39 U	1 U	0.32 U	0.99 J	1.1	0.5 U	1 U	0.39 U	1 U	1	1 U	1 U	0.5 U	1 U
<b>Chloroethane</b>	5	0.83 U	1 U	0.66 U	1 U	1 U	0.5 U	2 U	0.83 U	1 U	0.66 U	1 U	1 U	0.5 U	2 U
<b>Chloroform</b>	7	0.33 U	1 U	0.34 U	1 U	1 U	0.5 U	2 U	0.33 U	1 U	0.34 U	1 U	1 U	0.5 U	2 U
<b>Chloromethane</b>		0.34 U	1 U	0.54 U	1 U	1 U	0.5 U	2 U	0.34 U	1 U	0.54 U	1 U	1 U	0.5 U	2 U
<b>cis-1,2-Dichloroethene</b>	5	0.29 U	4.1	0.35 U	1 U	1 U	0.5 U		0.29 U	1 U	0.35 U	1 U	1 U	0.5 U	
<b>Tetrachloroethene</b>	5	0.48 U	2.4	0.27 U	1 U	1 U	0.5 U	2 U	0.48 U	1 U	0.27 U	1 U	1 U	0.5 U	2 U
<b>Toluene</b>	5	0.36 U	1 U	0.37 U	1 U	1 U	0.5 U	1 U	0.36 U	1 U	0.37 U	1 U	1 U	0.5 U	1 U
<b>Trichloroethene</b>	5	0.46 U	1.2	0.28 U	1 U	1 U	0.5 U	2 U	0.46 U	1 U	0.28 U	1 U	1 U	0.5 U	2 U

Notes

- Concentration exceeds corresponding NYSDEC Class GA Standard.

\* - NYSDEC Principal Organic Contaminant Standard of 5 ug/l applies to this compound.

U - The compound was not detected at the indicated concentration.

J - Compound detected below the reporting limit or Concentration is estimated for TICS.

D - Sample diluted

TW-X is a duplicate sample collected at TW-15

Blank space indicates sample not analyzed for that compound

TABLE 5-3

## SUMMARY OF GROUNDWATER ANALYTICAL RESULTS (VOCS)

GLADDING CORDAGE

SOUTH OTSELIC, NEW YORK

NYSDEC Site No. 7-09-009

Sample ID Sampling Date Matrix Units	NYSDEC Class GA Standard ug/L	TW-7S 9/6/2007 WATER ug/L	TW-7S 10/17/2008 WATER ug/L	TW-7S 6/25/2009 WATER ug/L	TW-7S 3/23/2010 WATER ug/L	TW-7S 6/21/2011 WATER ug/L	TW-7S 7/24/2012 WATER ug/L	TW-7S 10/29/2013 WATER ug/L	TW-7I 9/6/2007 WATER ug/L	TW-7I 10/17/2008 WATER ug/L	TW-7I 6/25/2009 WATER ug/L	TW-7I 3/23/2010 WATER ug/L	TW-7I 6/21/2011 WATER ug/L	TW-7I 7/24/2012 WATER ug/L	TW-7D 10/29/2013 WATER ug/L	TW-7D 9/6/2007 WATER ug/L	TW-7D 10/17/2008 WATER ug/L	TW-7D 6/25/2009 WATER ug/L	TW-7D 3/23/2010 WATER ug/L
<b>VOCs</b>																			
1,1,1-Trichloroethane	5	8.2	18	7.8	6.8	5	11	12	0.32 U	1.5	0.4 U	2.2	0.69 J	1.6	2 U	21	3.8	9.1	5.2
1,1-Dichloroethane	*	0.38 U	1 U	0.36 U	1 U	1 U	0.5 U	2 U	0.38 U	1 U	0.36 U	1 U	0.5 U	2 U	0.38 U	1 U	0.36 U	1 U	
1,1-Dichloroethene	5	0.42 U	1 U	0.47 U	1 U	1 U	0.5 U	2 U	0.42 U	1 U	0.47 U	1 U	1 U	2 U	4.8 J	1 U	0.47 U	1 U	
2-Butanone	50	1.1 U	5 U	1.3 U	5 U	5 U	2.9 J		1.1 U	5 U	1.3 U	5 U	1.8 J		1.1 U	5 U	1.3 U	5 U	
Acetone	50	2.3 U	3.3 J	22	12	19	15		2.3 U	5 U	15	17	21	11		2.3 U	5 U	17	18
Benzene	1	0.39 U	1 U	0.32 U	1 U	1 U	0.5 U	1 U	0.39 U	1 U	0.32 U	1 U	1 U	0.5 U	1 U	0.39 U	1 U	0.32 U	1 U
Carbon Tetrachloride	5	1.1 U	2.6	0.62 U	1 U	1 U	0.5 U	2 U	1.1 U	1 U	0.62 U	1 U	1 U	0.5 U	2 U	1.1 U	1 U	0.62 U	1 U
Chloroethane	5	0.83 U	1 U	0.66 U	1 U	1 U	0.5 U	2 U	0.83 U	1 U	0.66 U	1 U	1 U	0.5 U	2 U	0.83 U	1 U	0.66 U	1 U
Chloroform	7	0.33 U	1 U	0.34 U	1 U	1 U	0.5 U	2 U	0.33 U	1 U	0.34 U	1 U	1 U	0.5 U	2 U	0.33 U	1 U	0.34 U	1 U
Chloromethane		0.34 U	1 U	0.54 U	1 U	1 U	0.5 U	2 U	0.34 U	1 U	0.54 U	1 U	1 U	0.5 U	2 U	0.34 U	1 U	0.54 U	1 U
cis-1,2-Dichloroethene	5	0.29 U	1 U	0.35 U	1 U	1 U	0.5 U		0.29 U	1 U	0.35 U	1 U	1 U	0.5 U		0.29 U	1 U	0.35 U	1 U
Tetrachloroethene	5	0.48 U	1 U	0.27 U	1 U	1 U	0.5 U	2 U	0.48 U	1 U	0.27 U	1 U	1 U	0.5 U	2 U	0.48 U	1 U	0.27 U	1 U
Toluene	5	0.36 U	1 U	0.37 U	1 U	1 U	0.5 U	1 U	0.36 U	1 U	0.37 U	1 U	1 U	0.5 U	1 U	0.36 U	1 U	0.37 U	1 U
Trichloroethene	5	0.46 U	1 U	0.28 U	1 U	1 U	0.5 U	2 U	0.46 U	1 U	0.28 U	1 U	1 U	0.5 U	2 U	0.46 U	1 U	0.28 U	1 U

## Notes

- Concentration exceeds corresponding NYSDEC Class GA Standard.

\* - NYSDEC Principal Organic Contaminant Standard of 5 ug/l applies to this compound.

U - The compound was not detected at the indicated concentration.

J - Compound detected below the reporting limit or Concentration is estimated for TICS.

D - Sample diluted

TW-X is a duplicate sample collected at TW-15

Blank space indicates sample not analyzed for that compound

**TABLE 5-3**  
**SUMMARY OF GROUNDWATER ANALYTICAL RESULTS (VOCS)**  
**GLADDING CORDAGE**  
**SOUTH OTSELIC, NEW YORK**  
**NYSDEC Site No. 7-09-009**

Sample ID Sampling Date Matrix Units	NYSDEC Class GA Standard ug/L	TW-7D 6/21/2011 WATER ug/L	TW-7D 7/24/2012 WATER ug/L	TW-7D 10/29/2013 WATER ug/L	TW-9I 6/25/2009 WATER ug/L	TW-9I 3/23/2010 WATER ug/L	TW-9I 6/21/2011 WATER ug/L	TW-9I 7/24/2012 WATER ug/L	TW-9I 10/29/2013 WATER ug/L	TW-9D 6/25/2009 WATER ug/L	TW-9D 3/23/2010 WATER ug/L	TW-9D 6/21/2011 WATER ug/L	TW-9D 7/24/2012 WATER ug/L	TW-9D 10/29/2013 WATER ug/L	TW-10D 6/25/2009 WATER ug/L
<b>VOCs</b>															
1,1,1-Trichloroethane	5	4.5	4.4	5.9	5.5	4.3	4.2	4.2	4	0.4 U	1 U	1 U	0.5 U	2 U	0.53 J
1,1-Dichloroethane	*	1 U	0.5 U	2 U	0.36 U	1 U	1 U	0.5 U	2 U	0.36 U	1 U	1 U	0.5 U	2 U	0.36 U
1,1-Dichloroethene	5	1 U	0.5 U	2 U	0.47 U	1 U	1 U	0.5 U	2 U	0.47 U	1 U	1 U	0.5 U	2 U	0.47 U
2-Butanone	50	5 U	2.4 J		1.3 U	5 U	5 U	2.6 J		1.3 U	5 U	5 U	1.9 J		1.3 U
Acetone	50	14	13		17	14	19	16		9.1	13	3.6 J	14		19
Benzene	1	1 U	0.5 U	1 U	0.32 U	1 U	1 U	0.5 U	1 U	0.32 U	1 U	1 U	0.5 U	1 U	0.32 U
Carbon Tetrachloride	5	1 U	0.5 U	2 U	0.62 U	1 U	1 U	0.5 U	2 U	0.62 U	1 U	1 U	0.5 U	2 U	0.62 U
Chloroethane	5	1 U	0.5 U	2 U	0.66 U	1 U	1 U	0.5 U	2 U	0.66 U	1 U	1 U	0.5 U	2 U	0.66 U
Chloroform	7	1 U	0.5 U	2 U	0.34 U	1 U	1 U	0.5 U	2 U	0.34 U	1 U	1 U	0.5 U	2 U	0.34 U
Chloromethane		1 U	0.5 U	2 U	0.54 U	1 U	1 U	0.41 J	2 U	0.54 U	1 U	1 U	0.4 J	2 U	0.54 U
cis-1,2-Dichloroethene	5	1 U	0.5 U		0.35 U	1 U	1 U	0.5 U		0.35 U	1 U	1 U	0.5 U		0.35 U
Tetrachloroethene	5	1 U	0.5 U	2 U	0.27 U	1 U	1 U	0.5 U	2 U	0.27 U	1 U	1 U	0.5 U	2 U	0.27 U
Toluene	5	1 U	0.5 U	1 U	0.37 U	1 U	1 U	0.5 U	1 U	0.37 U	1 U	1 U	0.5 U	1 U	0.37 U
Trichloroethene	5	1 U	0.5 U	2 U	0.28 U	1 U	1 U	0.5 U	2 U	0.28 U	1 U	1 U	0.5 U	2 U	0.28 U

Notes

       - Concentration exceeds corresponding NYSDEC Class GA Standard.

\* - NYSDEC Principal Organic Contaminant Standard of 5 ug/l applies to this compound.

U - The compound was not detected at the indicated concentration.

J - Compound detected below the reporting limit or Concentration is estimated for TICS.

D - Sample diluted

TW-X is a duplicate sample collected at TW-15

Blank space indicates sample not analyzed for that compound

**TABLE 5-3**  
**SUMMARY OF GROUNDWATER ANALYTICAL RESULTS (VOCS)**  
**GLADDING CORDAGE**  
**SOUTH OTSELIC, NEW YORK**  
**NYSDEC Site No. 7-09-009**

Sample ID Sampling Date Matrix Units	NYSDEC Class GA Standard ug/L	TW-12I 9/6/2007 WATER ug/L	TW-12I 10/17/2008 WATER ug/L	TW-12I 6/25/2009 WATER ug/L	TW-12I 3/23/2010 WATER ug/L	TW-12I 6/21/2011 WATER ug/L	TW-12I 7/24/2012 WATER ug/L	TW-12I 10/29/2013 WATER ug/L	TW-12D 9/6/2007 WATER ug/L	TW-12D 6/25/2009 WATER ug/L	TW-12D 3/23/2010 WATER ug/L	TW-12D 6/21/2011 WATER ug/L	TW-12D 7/24/2012 WATER ug/L	TW-12D 10/29/2013 WATER ug/L	TW-14S 9/6/2007 WATER ug/L
<b>VOCs</b>															
1,1,1-Trichloroethane	5	0.32 U	1 U	0.4 U	1 U	1 U	0.5 U	2 U	0.32 U	0.4 U	1 U	1 U	0.5 U	2 U	0.32 U
1,1-Dichloroethane	*	0.38 U	1 U	0.36 U	1 U	1 U	0.5 U	2 U	0.38 U	0.36 U	1 U	1 U	0.5 U	2 U	0.38 U
1,1-Dichloroethene	5	0.42 U	1 U	0.47 U	1 U	1 U	0.5 U	2 U	0.42 U	0.47 U	1 U	1 U	0.5 U	2 U	0.42 U
2-Butanone	50	1.1 U	5 U	1.3 U	5 U	5 U	1.8 J		1.1 U	1.3 U	5 U	5 U	2.8 J		1.1 U
Acetone	50	2.3 U	5 U	10	21	13	12		2.3 U	14	13	11	18		2.3 U
Benzene	1	0.39 U	1 U	0.32 U	1 U	1 U	0.5 U	1 U	0.39 U	0.32 U	1 U	1 U	0.5 U	1 U	0.39 U
Carbon Tetrachloride	5	1.1 U	1 U	0.62 U	1 U	1 U	0.5 U	2 U	1.1 U	0.62 U	1 U	1 U	0.5 U	2 U	1.1 U
Chloroethane	5	0.83 U	1 U	0.66 U	1 U	1 U	0.5 U	2 U	0.83 U	0.66 U	1 U	1 U	0.5 U	2 U	0.83 U
Chloroform	7	0.33 U	1 U	0.34 U	1 U	1 U	0.5 U	2 U	0.33 U	0.34 U	1 U	1 U	0.5 U	2 U	0.33 U
Chloromethane		0.34 U	1 U	0.54 U	1 U	1 U	0.43 J	2 U	0.34 U	0.54 U	1 U	1 U	0.5 U	2 U	0.34 U
cis-1,2-Dichloroethene	5	0.29 U	1 U	0.35 U	1 U	1 U	0.5 U		0.29 U	0.35 U	1 U	1 U	0.5 U		0.29 U
Tetrachloroethene	5	0.48 U	1 U	0.27 U	1 U	1 U	0.5 U	2 U	0.48 U	0.27 U	1 U	1 U	0.5 U	2 U	0.48 U
Toluene	5	0.36 U	1 U	0.37 U	1 U	1 U	0.5 U	1 U	0.36 U	0.37 U	1 U	1 U	0.5 U	1 U	0.36 U
Trichloroethene	5	0.46 U	1 U	0.28 U	1 U	1 U	0.5 U	2 U	0.46 U	0.28 U	1 U	1 U	0.5 U	2 U	0.46 U

Notes

■ - Concentration exceeds corresponding NYSDEC Class GA Standard.

\* - NYSDEC Principal Organic Contaminant Standard of 5 ug/l applies to this compound.

U - The compound was not detected at the indicated concentration.

J - Compound detected below the reporting limit or Concentration is estimated for TICS.

D - Sample diluted

TW-X is a duplicate sample collected at TW-15

Blank space indicates sample not analyzed for that compound

TABLE 5-3  
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS (VOCS)  
GLADDING CORDAGE  
SOUTH OTSELIC, NEW YORK  
NYSDEC Site No. 7-09-009

Sample ID Sampling Date Matrix Units	NYSDEC Class GA Standard ug/L	TW-14S 10/17/2008 WATER ug/L	TW-14S 6/25/2009 WATER ug/L	TW-14S 3/23/2010 WATER ug/L	TW-14S 6/21/2011 WATER ug/L	TW-14S 7/24/2012 WATER ug/L	TW-14S 10/29/2013 WATER ug/L	TW-14I 9/6/2007 WATER ug/L	TW-14I 10/17/2008 WATER ug/L	TW-14I 6/25/2009 WATER ug/L	TW-14I 3/23/2010 WATER ug/L	TW-14I 6/21/2011 WATER ug/L	TW-14I 7/24/2012 WATER ug/L	TW-14I 10/29/2013 WATER ug/L	
<b>VOCs</b>															
1,1,1-Trichloroethane	5	68	0.4 U	16	12	21	10	39	95	83	82	87	76	59	42
1,1-Dichloroethane	*	5.8	1.2	0.64 J	0.55 J	0.95 J	2 U	0.38 U	2.8	3.2	3.2	3.5	2.6	2.1	0.38 U
1,1-Dichloroethene	5	1 U	0.47 U	1 U	0.67 J	0.5 U	2 U	3.7 J	1.5	0.47 U	2.1	4.4	1.4	2 U	7.2
2-Butanone	50	5 U	1.3 U	5 U	5 U	2 J		1.1 U	5 U	1.3 U	5 U	5 U	2.2 J		1.1 U
Acetone	50	5 U	14	16	18	14		2.3 U	5 U	13	17	20	16		2.3 U
Benzene	1	1 U	0.32 U	1 U	1 U	0.5 U	1 U	0.39 U	1 U	0.32 U	1 U	1 U	0.5 U	1 U	0.39 U
Carbon Tetrachloride	5	1 U	0.62 U	1 U	1 U	0.5 U	2 U	1.1 U	1 U	0.62 U	1 U	1 U	0.5 U	2 U	1.1 U
Chloroethane	5	1 U	0.66 U	1 U	1 U	0.5 U	2 U	0.83 U	1 U	0.66 U	1 U	1 U	0.5 U	2 U	0.83 U
Chloroform	7	1 U	0.34 U	1 U	1 U	0.5 U	2 U	0.33 U	1 U	0.34 U	1 U	1 U	0.5 U	2 U	0.33 U
Chloromethane		1 U	0.54 U	1 U	1 U	0.5 U	2 U	0.34 U	1 U	0.54 U	1 U	1 U	0.5 U	2 U	0.34 U
cis-1,2-Dichloroethene	5	1 U	0.35 U	1 U	1 U	0.5 U		0.29 U	1 U	0.35 U	1 U	1 U	0.5 U		0.29 U
Tetrachloroethene	5	1 U	0.27 U	1 U	1 U	0.5 U	2 U	0.48 U	1 U	0.27 U	1 U	1 U	0.5 U	2 U	0.48 U
Toluene	5	1 U	0.37 U	1 U	1 U	0.5 U	1 U	0.36 U	1 U	0.37 U	1 U	1 U	0.5 U	1 U	0.36 U
Trichloroethene	5	1 U	0.28 U	1 U	1 U	0.5 U	2 U	0.46 U	1 U	0.28 U	1 U	1 U	0.5 U	2 U	0.46 U

Notes

- Concentration exceeds corresponding NYSDEC Class GA Standard.

\* - NYSDEC Principal Organic Contaminant Standard

of 5 ug/l applies to this compound.

U - The compound was not detected at the indicated concentration.

J - Compound detected below the reporting limit or Concentration is estimated for TICS.

D - Sample diluted

TW-X is a duplicate sample collected at TW-15

Blank space indicates sample not analyzed for that compound

**TABLE 5-3**  
**SUMMARY OF GROUNDWATER ANALYTICAL RESULTS (VOCS)**  
**GLADDING CORDAGE**  
**SOUTH OTSELIC, NEW YORK**  
**NYSDEC Site No. 7-09-009**

Sample ID Sampling Date Matrix Units	NYSDEC Class GA Standard ug/L	TW-14D 10/17/2008 WATER ug/L	TW-14D 6/25/2009 WATER ug/L	TW-14D 3/23/2010 WATER ug/L	TW-14D 6/21/2011 WATER ug/L	TW-14D 7/24/2012 WATER ug/L	TW-14D 10/29/2013 WATER ug/L	TW-15 9/6/2007 WATER ug/L	TW-15 10/17/2008 WATER ug/L	TW-15 6/25/2009 WATER ug/L	TW-15 3/23/2010 WATER ug/L	TW-15 6/21/2011 WATER ug/L	TW-15 7/24/2012 WATER ug/L	TW-15 10/29/2013 WATER ug/L	
<b>VOCs</b>															
1,1,1-Trichloroethane	5	18	0.4 U	9.1	12	11	56	17	84 D	95	97	89	85	9.4	5.1
1,1-Dichloroethane	*	1 U	0.36 U	1 U	1 U	0.5 U	2 U	0.38 U	3.3	3.4	4.1	3.8	3.4	2 U	2 U
1,1-Dichloroethene	5	1 U	0.47 U	1 U	0.67 J	0.5 U	2 U	4.6 J	2	1.8	2.7	5.9	2	2 U	2 U
2-Butanone	50	5 U	1.3 U	5 U	5 U	2.2 J		1.1 U	5 U	1.3 U	5 U	5 U	2.9 J		
Acetone	50	5 U	15	18	25	17		2.3 U	5 U	9.7	15	35	17		
Benzene	1	1 U	0.32 U	1 U	1 U	0.5 U	1 U	0.39 U	1 U	0.32 U	1 U	1 U	0.5 U	1 U	1 U
Carbon Tetrachloride	5	1 U	0.62 U	1 U	1 U	0.5 U	2 U	1.1 U	1 U	0.62 U	1 U	1 U	0.5 U	2 U	2 U
Chloroethane	5	1 U	0.66 U	1 U	1 U	0.5 U	2 U	0.83 U	1 U	0.66 U	1 U	1 U	0.5 U	2 U	2 U
Chloroform	7	1 U	0.34 U	1 U	1 U	0.5 U	2 U	0.33 U	1 U	0.34 U	1 U	1 U	0.5 U	2 U	2 U
Chloromethane		1 U	0.54 U	1 U	1 U	0.5 U	2 U	0.34 U	1 U	0.54 U	1 U	1 U	0.48 J	2 U	2 U
cis-1,2-Dichloroethene	5	1 U	0.35 U	1 U	1 U	0.5 U		0.29 U	1 U	0.35 U	1 U	1 U	0.5 U		
Tetrachloroethene	5	1 U	0.27 U	1 U	1 U	0.5 U	2 U	0.48 U	1 U	0.27 U	1 U	1 U	0.5 U	2 U	2 U
Toluene	5	1 U	0.37 U	1 U	1 U	0.5 U	1 U	0.36 U	1 U	0.37 U	1 U	1 U	0.5 U	1 U	1 U
Trichloroethene	5	1 U	0.28 U	1 U	1 U	0.5 U	2 U	0.46 U	1 U	0.28 U	1 U	1 U	0.5 U	2 U	2 U

Notes

- Concentration exceeds corresponding NYSDEC Class GA Standard.

\* - NYSDEC Principal Organic Contaminant Standard of 5 ug/l applies to this compound.

U - The compound was not detected at the indicated concentration.

J - Compound detected below the reporting limit or Concentration is estimated for TICS.

D - Sample diluted

TW-X is a duplicate sample collected at TW-15

Blank space indicates sample not analyzed for that compound

**TABLE 5-4**  
**SUMMARY OF GROUNDWATER TREATMENT SYSTEM VOCs (INFLUENT - RW-1)**  
**GLADDING CORDAGE**  
**SOUTH OTSELIC, NEW YORK**  
**NYSDEC Site No. 7-09-009**

Sample ID Sampling Date Matrix Units	NYSDEC Class GA Standard ug/L	RW-1 12/24/2012 WATER ug/L	RW-1 1/29/2013 WATER ug/L	RW-1 2/28/2013 WATER ug/L	RW-1 3/27/2013 WATER ug/L	RW-1 4/23/2013 WATER ug/L	RW-1 5/24/2013 WATER ug/L	RW-1 6/25/2013 WATER ug/L	RW-1 7/16/2013 WATER ug/L	RW-1 8/15/2013 WATER ug/L	RW-1 9/23/2013 WATER ug/L	RW-1 10/29/2013 WATER ug/L	RW-1 11/15/2013 WATER ug/L	RW-1 12/20/2013 WATER ug/L
<b>VOCs</b>														
1,1,1-Trichloroethane	5	40	42	41	40	42	39	48	51	46	43	53	40	42
1,1,2,2-Tetrachloroethane	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1,2-Trichloroethane	1	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1-Dichloroethane	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1-Dichloroethene	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.7
1,2-Dichlorobenzene	3	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichloroethane	0.6	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichloropropane	1	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,3-Dichlorobenzene	3	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	3	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Chloroethyl Vinyl Ether		10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Benzene	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bromoform	50	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bromomethane	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Carbon Tetrachloride	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chlorobenzene	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroethane	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroform	7	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloromethane		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
cis-1,3-Dichloropropene	0.4	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Dibromochloromethane	50	2.0 U	2.0	2.0	2.0 U	2.0 U	2.0 U							
Ethyl Benzene	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
m/p-Xylenes	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methyl tert-butyl Ether		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methylene Chloride	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
o-Xylene		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
trans-1,3-Dichloropropene	0.4	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Trichloroethene	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Trichlorofluoromethane	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Vinyl Chloride	2	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		40.0	42.0	41.0	40.0	42.0	39.0	48.0	51.0	46.0	43.0	53.0	40.0	43.7

- Concentration exceeds corresponding NYSDEC Class GA Standard.

U - Not detected at the indicated concentration

J - Estimated concentration.

**TABLE 5-5**  
**SUMMARY OF GROUNDWATER TREATMENT SYSTEM VOCs (INFLUENT - RW-2)**  
**GLADDING CORDAGE**  
**SOUTH OTSELIC, NEW YORK**  
**NYSDEC Site No. 7-09-009**

Sample ID Sampling Date Matrix Units	NYSDEC Class GA Standard ug/L	RW-2 12/24/2012 WATER ug/L	RW-2 1/29/2013 WATER ug/L	RW-2 2/28/2013 WATER ug/L	RW-2 3/27/2013 WATER ug/L	RW-2 4/23/2013 WATER ug/L	RW-2 5/24/2013 WATER ug/L	RW-2 6/25/2013 WATER ug/L	RW-2 7/16/2013 WATER ug/L	RW-2 8/15/2013 WATER ug/L	RW-2 9/23/2013 WATER ug/L	RW-2 10/29/2013 WATER ug/L	RW-2 11/15/2013 WATER ug/L	RW-2 12/20/2013 WATER ug/L
<b>VOCs</b>														
1,1,1-Trichloroethane	5	38	28	35	33	36	41	42	58	42	50	49	36	35
1,1,2,2-Tetrachloroethane	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1,2-Trichloroethane	1	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1-Dichloroethane	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.77
1,1-Dichloroethene	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.69
1,2-Dichlorobenzene	3	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichloroethane	0.6	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichloropropane	1	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,3-Dichlorobenzene	3	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	3	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Chloroethyl Vinyl Ether		10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Benzene	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bromoform	50	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bromomethane	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Carbon Tetrachloride	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chlorobenzene	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroethane	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroform	7	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloromethane		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
cis-1,3-Dichloropropene	0.4	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Dibromochloromethane	50	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Ethyl Benzene	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
m/p-Xylenes	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methyl tert-butyl Ether		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methylene Chloride	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
o-Xylene		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
trans-1,3-Dichloropropene	0.4	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Trichloroethene	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Trichlorofluoromethane	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Vinyl Chloride	2	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
<b>Total VOCs</b>		38.0	28.0	35.0	33.0	36.0	41.0	42.0	58.0	42.0	50.0	49.0	36.0	36.5

- Concentration exceeds corresponding NYSDEC Class GA Standard.

U - Not detected at the indicated concentration

J - Estimated concentration.

**TABLE 5-6****SUMMARY OF GROUNDWATER TREATMENT SYSTEM VOCs (EFFLUENT)****GLADDING CORDAGE****SOUTH OTSELIC, NEW YORK****NYSDEC Site No. 7-09-009**

Sample ID Sampling Date Matrix Units	NYSDEC GA Standard ug/L	EFF(46HZ) 12/24/2012 WATER ug/L	EFF(46HZ) 1/29/2013 WATER ug/L	EFF(46HZ) 2/28/2013 WATER ug/L	EFF(46HZ) 3/27/2013 WATER ug/L	EFF(46HZ) 4/23/2013 WATER ug/L	EFF(46HZ) 5/24/2013 WATER ug/L	EFF(46HZ) 6/25/2013 WATER ug/L
<b>VOCs</b>								
1,1,1-Trichloroethane	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1,2,2-Tetrachloroethane	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1,2-Trichloroethane	1	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1-Dichloroethane	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1-Dichloroethene	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	3	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichloroethane	0.6	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichloropropane	1	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,3-Dichlorobenzene	3	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	3	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Chloroethyl Vinyl Ether		10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Benzene	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bromoform	50	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bromomethane	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Carbon Tetrachloride	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chlorobenzene	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroethane	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroform	7	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloromethane		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
cis-1,3-Dichloropropene	0.4	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Dibromochloromethane	50	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Ethyl Benzene	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
m/p-Xylenes	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methyl tert-butyl Ether		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methylene Chloride	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
o-Xylene		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
trans-1,3-Dichloropropene	0.4	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Trichloroethene	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Trichlorofluoromethane	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Vinyl Chloride	2	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U

## Notes

U - Not detected at the indicated concentration.

J - Estimated concentration.

**TABLE 5-6****SUMMARY OF GROUNDWATER TREATMENT SYSTEM VOCs (EFFLUENT)****GLADDING CORDAGE****SOUTH OTSELIC, NEW YORK****NYSDEC Site No. 7-09-009**

Sample ID Sampling Date Matrix Units	NYSDEC GA Standard ug/L	EFF(46HZ) 7/16/2013 WATER ug/L	EFF(46HZ) 8/15/2013 WATER ug/L	EFF(46HZ) 9/23/2013 WATER ug/L	EFF(46HZ) 10/29/2013 WATER ug/L	EFF(46HZ) 11/15/2013 WATER ug/L	EFF(46HZ) 12/20/2013 WATER ug/L
<b>VOCs</b>							
1,1,1-Trichloroethane	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1,2,2-Tetrachloroethane	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1,2-Trichloroethane	1	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1-Dichloroethane	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1-Dichloroethene	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	3	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichloroethane	0.6	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichloropropane	1	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,3-Dichlorobenzene	3	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	3	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Chloroethyl Vinyl Ether		10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Benzene	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bromoform	50	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bromomethane	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Carbon Tetrachloride	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chlorobenzene	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroethane	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroform	7	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloromethane		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
cis-1,3-Dichloropropene	0.4	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Dibromochloromethane	50	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Ethyl Benzene	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
m/p-Xylenes	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methyl tert-butyl Ether		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methylene Chloride	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
o-Xylene		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
trans-1,3-Dichloropropene	0.4	2.0 U	5.0 U	5.0 U	2.0 U	5.0 U	5.0 U
Trichloroethene	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Trichlorofluoromethane	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Vinyl Chloride	2	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U

## Notes

U - Not detected at the indicated concentration.

J - Estimated concentration.

## **Appendix A**

O&M Checklists

**Gladding Cordage  
South Otselic, New York  
NYSDEC Site #709009**

Date 1/29/2013  
Inspector J. Wyckoff  
Time 0:00

<b>Treatment System Operation</b>		<b>Alarms</b>
System On (Y/N)	Y	A/C Fail (Y/N)
RW-1 On (Y/N)	Y	RW-1 (Y/N)
RW-2 On (Y/N)	Y	RW-2 (Y/N)
Blower On (Y/N)	Y	Blower Pressure (Y/N)
Sump Pump On (Y/N)	N	Sump Level (Y/N)

<b>Recovery Wells</b>	<b>RW-1</b>	<b>RW-2</b>
Flow Rate (GPM)	23.1	19.5
Total Flow (Gallons)	9072933	7641335
Water Level (Feet Above Probe)	33.65	55.39
Probe Depth (Feet BTOC)	40.00	65.00

<b>Air Stripper</b>			
Blower VFD Setting (Hertz)	46	Intake/Exhaust Piping OK? (Y/N)	Y
System Pressure (inches water)	10.5	Water Leaks (Y/N)	N
Influent/Effluent Piping OK? (Y/N)	Y	Water Temperature (F°)	50

<b>Heat Exchanger</b>			
Heat (On/Off)	Off	Building Temperature (F)	55.2
Heat Exchanger Flow (GPM)	0	Heat Exchanger Pressure (PSI)	1.4

<b>General Building/Site</b>			
Building Condition OK? (Y/N)	Y	Circuit Breakers Checked (Y/N)	Y
Grass Mowed (Y/N)	NA	Outfall Condition OK? (Y/N)	Y
Monitoring Wells OK? (Y/N)	Y	Samples Collected (Y/N)	Y

## **Notes:**

**Gladding Cordage  
South Otselic, New York  
NYSDEC Site #709009**

Date 2/28/2013  
Inspector J. Wyckoff  
Time 0:00

<b>Treatment System Operation</b>		<b>Alarms</b>
System On (Y/N)	Y	A/C Fail (Y/N)
RW-1 On (Y/N)	Y	RW-1 (Y/N)
RW-2 On (Y/N)	Y	RW-2 (Y/N)
Blower On (Y/N)	Y	Blower Pressure (Y/N)
Sump Pump On (Y/N)	N	Sump Level (Y/N)

<b>Recovery Wells</b>	<b>RW-1</b>	<b>RW-2</b>
Flow Rate (GPM)	22.7	19.4
Total Flow (Gallons)	10078542	8496541
Water Level (Feet Above Probe)	33.2	55.03
Probe Depth (Feet BTOC)	40.00	65.00

<b>Air Stripper</b>			
Blower VFD Setting (Hertz)	46	Intake/Exhaust Piping OK? (Y/N)	Y
System Pressure (inches water)	10.5	Water Leaks (Y/N)	N
Influent/Effluent Piping OK? (Y/N)	Y	Water Temperature (F°)	50

<b>Heat Exchanger</b>			
Heat (On/Off)	Off	Building Temperature (F)	55
Heat Exchanger Flow (GPM)	0	Heat Exchanger Pressure (PSI)	1.4

<b>General Building/Site</b>			
Building Condition OK? (Y/N)	Y	Circuit Breakers Checked (Y/N)	Y
Grass Mowed (Y/N)	NA	Outfall Condition OK? (Y/N)	Y
Monitoring Wells OK? (Y/N)	-	Samples Collected (Y/N)	Y

## **Notes:**

Aproximately 6" of snow cover.

## Approximately 5 or fewer 50 Collected SPEDS Samples

**Gladding Cordage  
South Otselic, New York  
NYSDEC Site #709009**

Date 3/27/2013  
Inspector J. Wyckoff  
Time 0:00

<b>Treatment System Operation</b>		<b>Alarms</b>
System On (Y/N)	Y	A/C Fail (Y/N)
RW-1 On (Y/N)	Y	RW-1 (Y/N)
RW-2 On (Y/N)	Y	RW-2 (Y/N)
Blower On (Y/N)	Y	Blower Pressure (Y/N)
Sump Pump On (Y/N)	N	Sump Level (Y/N)

<b>Recovery Wells</b>	<b>RW-1</b>	<b>RW-2</b>
Flow Rate (GPM)	23.2	19.6
Total Flow (Gallons)	10978701	9260754
Water Level (Feet Above Probe)	33.50	55.30
Probe Depth (Feet BTOC)	40.00	65.00

<b>Air Stripper</b>			
Blower VFD Setting (Hertz)	46	Intake/Exhaust Piping OK? (Y/N)	Y
System Pressure (inches water)	10.6	Water Leaks (Y/N)	N
Influent/Effluent Piping OK? (Y/N)	Y	Water Temperature (F°)	50

<b>Heat Exchanger</b>			
Heat (On/Off)	Off	Building Temperature (F)	55
Heat Exchanger Flow (GPM)	0	Heat Exchanger Pressure (PSI)	1.4

<b>General Building/Site</b>			
Building Condition OK? (Y/N)	<u>Y</u>	Circuit Breakers Checked (Y/N)	<u>Y</u>
Grass Mowed (Y/N)	<u>NA</u>	Outfall Condition OK? (Y/N)	<u>Y</u>
Monitoring Wells OK? (Y/N)	<u>Y</u>	Samples Collected (Y/N)	<u>Y</u>

## **Notes:**

**Gladding Cordage  
South Otselic, New York  
NYSDEC Site #709009**

Date 4/23/2013  
Inspector JLW  
Time 9:30

<b>Treatment System Operation</b>		<b>Alarms</b>
System On (Y/N)	Y	A/C Fail (Y/N)
RW-1 On (Y/N)	Y	RW-1 (Y/N)
RW-2 On (Y/N)	Y	RW-2 (Y/N)
Blower On (Y/N)	Y	Blower Pressure (Y/N)
Sump Pump On (Y/N)	N	Sump Level (Y/N)

<b>Recovery Wells</b>	<b>RW-1</b>	<b>RW-2</b>
Flow Rate (GPM)	23.4	19.7
Total Flow (Gallons)	<u>11750528</u>	<u>9913754</u>
Water Level (Feet Above Probe)	<u>33.65</u>	<u>55.74</u>
Probe Depth (Feet BTOC)	<u>40.00</u>	<u>65.00</u>

<b>Air Stripper</b>			
Blower VFD Setting (Hertz)	46	Intake/Exhaust Piping OK? (Y/N)	Y
System Pressure (inches water)	10.5	Water Leaks (Y/N)	N
Influent/Effluent Piping OK? (Y/N)	Y	Water Temperature (F°)	50

<b>Heat Exchanger</b>			
Heat (On/Off)	Off	Building Temperature (F)	56.8
Heat Exchanger Flow (GPM)	0	Heat Exchanger Pressure (PSI)	1.4

<b>General Building/Site</b>			
Building Condition OK? (Y/N)	Y	Circuit Breakers Checked (Y/N)	Y
Grass Mowed (Y/N)	NA	Outfall Condition OK? (Y/N)	Y
Monitoring Wells OK? (Y/N)	Y	Samples Collected (Y/N)	Y

## **Notes:**

1030 RW-1

---

1035 RW-2

1040 Eff 46Hz

**Gladding Cordage**  
**South Otselic, New York**  
**NYSDEC Site #709009**

Date 5/24/2013  
Inspector JLW  
Time 11:40

<b>Treatment System Operation</b>		<b>Alarms</b>	
System On (Y/N)	<u>Y</u>	A/C Fail (Y/N)	<u>Y</u>
RW-1 On (Y/N)	<u>Y</u>	RW-1 (Y/N)	<u>N</u>
RW-2 On (Y/N)	<u>Y</u>	RW-2 (Y/N)	<u>N</u>
Blower On (Y/N)	<u>Y</u>	Blower Pressure (Y/N)	<u>N</u>
Sump Pump On (Y/N)	<u>N</u>	Sump Level (Y/N)	<u>N</u>

<b>Recovery Wells</b>	<b>RW-1</b>	<b>RW-2</b>
Flow Rate (GPM)	<u>24.2</u>	<u>19.7</u>
Total Flow (Gallons)	<u>12984742</u>	<u>10944208</u>
Water Level (Feet Above Probe)	<u>33.65</u>	<u>55.91</u>
Probe Depth (Feet BTOC)	<u>40.00</u>	<u>65.00</u>

<b>Air Stripper</b>			
Blower VFD Setting (Hertz)	<u>46</u>	Intake/Exhaust Piping OK? (Y/N)	<u>Y</u>
System Pressure (inches water)	<u>10.4</u>	Water Leaks (Y/N)	<u>N</u>
Influent/Effluent Piping OK? (Y/N)	<u>Y</u>	Water Temperature (F°)	<u>50</u>

<b>Heat Exchanger</b>			
Heat (On/Off)	<u>Off</u>	Building Temperature (F)	<u>59</u>
Heat Exchanger Flow (GPM)	<u>0</u>	Heat Exchanger Pressure (PSI)	<u>0</u>

<b>General Building/Site</b>			
Building Condition OK? (Y/N)	<u>Y</u>	Circuit Breakers Checked (Y/N)	<u>Y</u>
Grass Mowed (Y/N)	<u>NA</u>	Outfall Condition OK? (Y/N)	<u>Y</u>
Monitoring Wells OK? (Y/N)	<u>Y</u>	Samples Collected (Y/N)	<u>Y</u>

<b>Notes:</b>			
System was Down :	AC Failure.		
	Restart System.		
	Performed inspection.		

Trimmed Grass.

1130 RW-1  
1135 RW-2  
1140 Eff 46 Hz

**Gladding Cordage  
South Otselic, New York  
NYSDEC Site #709009**

Date 6/6/2013  
Inspector JLW  
Time 11:15

<b>Treatment System Operation</b>		<b>Alarms</b>
System On (Y/N)	Y	A/C Fail (Y/N)
RW-1 On (Y/N)	Y	RW-1 (Y/N)
RW-2 On (Y/N)	Y	RW-2 (Y/N)
Blower On (Y/N)	Y	Blower Pressure (Y/N)
Sump Pump On (Y/N)	N	Sump Level (Y/N)

<b>Recovery Wells</b>	<b>RW-1</b>	<b>RW-2</b>
Flow Rate (GPM)	29.8	19.7
Total Flow (Gallons)	13184386	11111310
Water Level (Feet Above Probe)	33.08	55.30
Probe Depth (Feet BTOC)	40.00	65.00

<b>Air Stripper</b>			
Blower VFD Setting (Hertz)	46	Intake/Exhaust Piping OK? (Y/N)	Y
System Pressure (inches water)	10.3	Water Leaks (Y/N)	N
Influent/Effluent Piping OK? (Y/N)	Y	Water Temperature (F°)	50

<b>Heat Exchanger</b>			
Heat (On/Off)	off	Building Temperature (F)	61
Heat Exchanger Flow (GPM)	0	Heat Exchanger Pressure (PSI)	1.7

<b>General Building/Site</b>			
Building Condition OK? (Y/N)	Y	Circuit Breakers Checked (Y/N)	Y
Grass Mowed (Y/N)	Y	Outfall Condition OK? (Y/N)	Y
Monitoring Wells OK? (Y/N)	Y	Samples Collected (Y/N)	N

## Notes:

On site wth Jim Bright, Energy Evaluation.

**Gladding Cordage  
South Otselic, New York  
NYSDEC Site #709009**

Date 6/25/2013  
Inspector JRW  
Time 10:00 AM

<b>Treatment System Operation</b>		<b>Alarms</b>
System On (Y/N)	Y	A/C Fail (Y/N)
RW-1 On (Y/N)	Y	RW-1 (Y/N)
RW-2 On (Y/N)	Y	RW-2 (Y/N)
Blower On (Y/N)	Y	Blower Pressure (Y/N)
Sump Pump On (Y/N)	N	Sump Level (Y/N)

<b>Recovery Wells</b>	<b>RW-1</b>	<b>RW-2</b>
Flow Rate (GPM)	23.7	19.3
Total Flow (Gallons)	13831863	11650724
Water Level (Feet Above Probe)	32.92	55.39
Probe Depth (Feet BTOC)	40.00	65.00

<b>Air Stripper</b>			
Blower VFD Setting (Hertz)	46	Intake/Exhaust Piping OK? (Y/N)	Y
System Pressure (inches water)	9.9	Water Leaks (Y/N)	N
Influent/Effluent Piping OK? (Y/N)	Y	Water Temperature (F°)	50

<b>Heat Exchanger</b>			
Heat (On/Off)	Off	Building Temperature (F)	67
Heat Exchanger Flow (GPM)	0	Heat Exchanger Pressure (PSI)	1.4

<b>General Building/Site</b>			
Building Condition OK? (Y/N)	<u>Y</u>	Circuit Breakers Checked (Y/N)	<u>Y</u>
Grass Mowed (Y/N)	<u>Y</u>	Outfall Condition OK? (Y/N)	<u>Y</u>
Monitoring Wells OK? (Y/N)	<u>Y</u>	Samples Collected (Y/N)	<u>Y</u>

## **Notes:**

RW-1	1100
RW-2	1105
Eff 46Hz	1110

**Gladding Cordage**  
**South Otselic, New York**  
**NYSDEC Site #709009**

Date 7/16/2013  
Inspector JRW  
Time 5:50 AM

<b>Treatment System Operation</b>		<b>Alarms</b>	
System On (Y/N)	<u>N</u>	A/C Fail (Y/N)	<u>Y</u>
RW-1 On (Y/N)	<u>N</u>	RW-1 (Y/N)	<u>N</u>
RW-2 On (Y/N)	<u>N</u>	RW-2 (Y/N)	<u>N</u>
Blower On (Y/N)	<u>N</u>	Blower Pressure (Y/N)	<u>N</u>
Sump Pump On (Y/N)	<u>N</u>	Sump Level (Y/N)	<u>N</u>

<b>Recovery Wells</b>	<b>RW-1</b>	<b>RW-2</b>
Flow Rate (GPM)	<u>23.8</u>	<u>19.3</u>
Total Flow (Gallons)	<u>Not Recorded</u>	<u>Not Recorded</u>
Water Level (Feet Above Probe)	<u>33.09</u>	<u>55.39</u>
Probe Depth (Feet BTOC)	<u>40.00</u>	<u>65.00</u>

<b>Air Stripper</b>			
Blower VFD Setting (Hertz)	<u>46</u>	Intake/Exhaust Piping OK? (Y/N)	<u>Y</u>
System Pressure (inches water)	<u>10.0</u>	Water Leaks (Y/N)	<u>N</u>
Influent/Effluent Piping OK? (Y/N)	<u>Y</u>	Water Temperature (F°)	<u>50</u>

<b>Heat Exchanger</b>			
Heat (On/Off)	<u>On (AC)</u>	Building Temperature (F)	<u>67.6</u>
Heat Exchanger Flow (GPM)	<u>2.34</u>	Heat Exchanger Pressure (PSI)	<u>7.6</u>

<b>General Building/Site</b>			
Building Condition OK? (Y/N)	<u>Y</u>	Circuit Breakers Checked (Y/N)	<u>Y</u>
Grass Mowed (Y/N)	<u>Y</u>	Outfall Condition OK? (Y/N)	<u>Y</u>
Monitoring Wells OK? (Y/N)	<u>Y</u>	Samples Collected (Y/N)	<u>Y</u>

<b>Notes:</b>			
System Off--AC Failure			

0610--Restart System

Note: Could not connect remotely. Need to contact telephone company to check lines.  
Phone works, but line has static.

**Gladding Cordage  
South Otselic, New York  
NYSDEC Site #709009**

Date 8/15/2013  
Inspector JRW  
Time 10:00

<b>Treatment System Operation</b>		<b>Alarms</b>
System On (Y/N)	Y	A/C Fail (Y/N)
RW-1 On (Y/N)	Y	RW-1 (Y/N)
RW-2 On (Y/N)	Y	RW-2 (Y/N)
Blower On (Y/N)	Y	Blower Pressure (Y/N)
Sump Pump On (Y/N)	N	Sump Level (Y/N)

<b>Recovery Wells</b>	<b>RW-1</b>	<b>RW-2</b>
Flow Rate (GPM)	22.9	19.4
Total Flow (Gallons)	15344260	12910980
Water Level (Feet Above Probe)	32.98	55.24
Probe Depth (Feet BTOC)	40.00	65.00

Air Stripper			
Blower VFD Setting (Hertz)	46	Intake/Exhaust Piping OK? (Y/N)	Y
System Pressure (inches water)	10.1	Water Leaks (Y/N)	N
Influent/Effluent Piping OK? (Y/N)	Y	Water Temperature (F°)	50

<b>Heat Exchanger</b>			
Heat (On/Off)	Off	Building Temperature (F)	65
Heat Exchanger Flow (GPM)	0	Heat Exchanger Pressure (PSI)	1.4

<b>General Building/Site</b>			
Building Condition OK? (Y/N)	<u>Y</u>	Circuit Breakers Checked (Y/N)	<u>Y</u>
Grass Mowed (Y/N)	<u>N</u>	Outfall Condition OK? (Y/N)	<u>Y</u>
Monitoring Wells OK? (Y/N)	<u>Y</u>	Samples Collected (Y/N)	<u>Y</u>

## Notes:

**Gladding Cordage**  
**South Otselic, New York**  
**NYSDEC Site #709009**

Date 9/5/2013  
Inspector JRW  
Time 8:00

<b>Treatment System Operation</b>		<b>Alarms</b>	
System On (Y/N)	<u>Y</u>	A/C Fail (Y/N)	Alarm Cleared
RW-1 On (Y/N)	<u>Y</u>	RW-1 (Y/N)	<u>N</u>
RW-2 On (Y/N)	<u>Y</u>	RW-2 (Y/N)	<u>N</u>
Blower On (Y/N)	<u>Y</u>	Blower Pressure (Y/N)	<u>N</u>
Sump Pump On (Y/N)	<u>N</u>	Sump Level (Y/N)	<u>N</u>

<b>Recovery Wells</b>		<b>RW-1</b>	<b>RW-2</b>
Flow Rate (GPM)		<u>22.4</u>	<u>19.3</u>
Total Flow (Gallons)		<u>Not Recorded</u>	<u>Not Recorded</u>
Water Level (Feet Above Probe)		<u>33.63</u>	<u>55.96</u>
Probe Depth (Feet BTOC)		<u>40.00</u>	<u>65.00</u>

<b>Air Stripper</b>			
Blower VFD Setting (Hertz)	<u>46</u>	Intake/Exhaust Piping OK? (Y/N)	<u>Y</u>
System Pressure (inches water)	<u>9.7</u>	Water Leaks (Y/N)	<u>N</u>
Influent/Effluent Piping OK? (Y/N)	<u>Y</u>	Water Temperature (F°)	<u>50</u>

<b>Heat Exchanger</b>			
Heat (On/Off)	<u>ON</u>	Building Temperature (F)	<u>65.7</u>
Heat Exchanger Flow (GPM)	<u>2.3</u>	Heat Exchanger Pressure (PSI)	<u>7.9</u>

<b>General Building/Site</b>			
Building Condition OK? (Y/N)	<u>Y</u>	Circuit Breakers Checked (Y/N)	<u>Y</u>
Grass Mowed (Y/N)	<u>N</u>	Outfall Condition OK? (Y/N)	<u>Y</u>
Monitoring Wells OK? (Y/N)	<u>--</u>	Samples Collected (Y/N)	<u>N</u>

**Notes:**

System Down.

Connect to PLC - AC Failure 09/02/2013

Reset System

Start System @ 08:20

Data above after start-up.

**Gladding Cordage  
South Otselic, New York  
NYSDEC Site #709009**

Date 9/23/2013  
Inspector JRW  
Time 11:30

<b>Treatment System Operation</b>		<b>Alarms</b>	
System On (Y/N)	Y	A/C Fail (Y/N)	<u>Alarm Cleared</u>
RW-1 On (Y/N)	Y	RW-1 (Y/N)	N
RW-2 On (Y/N)	Y	RW-2 (Y/N)	N
Blower On (Y/N)	Y	Blower Pressure (Y/N)	N
Sump Pump On (Y/N)	N	Sump Level (Y/N)	N

<b>Recovery Wells</b>	<b>RW-1</b>	<b>RW-2</b>
Flow Rate (GPM)	<u>21.7</u>	<u>19.7</u>
Total Flow (Gallons)	<u>Not Recorded</u>	<u>Not Recorded</u>
Water Level (Feet Above Probe)	<u>33.31</u>	<u>55.28</u>
Probe Depth (Feet BTOC)	<u>40.00</u>	<u>65.00</u>

Air Stripper			
Blower VFD Setting (Hertz)	46	Intake/Exhaust Piping OK? (Y/N)	Y
System Pressure (inches water)	10.1	Water Leaks (Y/N)	N
Influent/Effluent Piping OK? (Y/N)	Y	Water Temperature (F°)	50

<b>Heat Exchanger</b>			
Heat (On/Off)	Off	Building Temperature (F)	61
Heat Exchanger Flow (GPM)	0	Heat Exchanger Pressure (PSI)	1.3

<b>General Building/Site</b>	
Building Condition OK? (Y/N)	<u>Y</u>
Grass Mowed (Y/N)	<u>Y</u>
Monitoring Wells OK? (Y/N)	<u>Y</u>
Circuit Breakers Checked (Y/N)	<u>Y</u>
Outfall Condition OK? (Y/N)	<u>Y</u>
Samples Collected (Y/N)	<u>Y</u>

## Notes:

System down on 09/11/2013 @ 15:49 ASBVFD Alarm--Power failure @ VFD

Restart @ 12:00

---

---

---

---

---

---

---

---

---

---

---

---

---

**Gladding Cordage**  
**South Otselic, New York**  
**NYSDEC Site #709009**

Date 10/9/2013  
Inspector J.Wyckoff  
Time 12:50

**Treatment System Operation**

System On (Y/N)	<u>Y</u>
RW-1 On (Y/N)	<u>Y</u>
RW-2 On (Y/N)	<u>Y</u>
Blower On (Y/N)	<u>Y</u>
Sump Pump On (Y/N)	<u>N</u>

**Alarms**

A/C Fail (Y/N)	<u>Y (Reset)</u>
RW-1 (Y/N)	<u>N</u>
RW-2 (Y/N)	<u>N</u>
Blower Pressure (Y/N)	<u>N</u>
Sump Level (Y/N)	<u>N</u>

**Recovery Wells**

	<b>RW-1</b>	<b>RW-2</b>
Flow Rate (GPM)	<u>21.8</u>	<u>20.6</u>
Total Flow (Gallons)		
Water Level (Feet Above Probe)	<u>33.44</u>	<u>55.39</u>
Probe Depth (Feet BTOC)	<u>40.00</u>	<u>65.00</u>

**Air Stripper**

Blower VFD Setting (Hertz)	<u>46</u>	Intake/Exhaust Piping OK? (Y/N)	<u>Y</u>
System Pressure (inches water)	<u>10.0</u>	Water Leaks (Y/N)	<u>N</u>
Influent/Effluent Piping OK? (Y/N)	<u>Y</u>	Water Temperature (°F)	<u>50</u>

**Heat Exchanger**

Heat (On/Off)	<u>OFF</u>	Building Temperature (°F)	<u>62.3</u>
Heat Exchanger Flow (GPM)	<u>0.0</u>	Heat Exchanger Pressure (PSI)	<u>1.4</u>

**General Building/Site**

Building Condition OK? (Y/N)	<u>OK</u>	Circuit Breakers Checked (Y/N)	<u>Y</u>
Grass Mowed (Y/N)	<u>Y</u>	Outfall Condition OK? (Y/N)	<u>Y</u>
Monitoring Wells OK? (Y/N)	<u>Y</u>	Samples Collected (Y/N)	<u>N</u>

**Notes:**

On-site with P. Long (NYSDEC)

System down. AC Failure 10/1/2013 @ 7:01 p.m.

Restart system @ 13:00

Readings after start up.

Ck Phone - Static in line from cordless phone.

- Tried Cord Phone, no static.

**Gladding Cordage**  
**South Otselic, New York**  
**NYSDEC Site #709009**

Date 10/29/2013  
Inspector J.Wyckoff  
Time 12:16

**Treatment System Operation**

System On (Y/N)	<u>Y</u>
RW-1 On (Y/N)	<u>Y</u>
RW-2 On (Y/N)	<u>Y</u>
Blower On (Y/N)	<u>Y</u>
Sump Pump On (Y/N)	<u>N</u>

**Alarms**

A/C Fail (Y/N)	<u>N</u>
RW-1 (Y/N)	<u>N</u>
RW-2 (Y/N)	<u>N</u>
Blower Pressure (Y/N)	<u>N</u>
Sump Level (Y/N)	<u>N</u>

**Recovery Wells**

	<b>RW-1</b>	<b>RW-2</b>
Flow Rate (GPM)	<u>21.5</u>	<u>20.8</u>
Total Flow (Gallons)		
Water Level (Feet Above Probe)	<u>33.04</u>	<u>54.94</u>
Probe Depth (Feet BTOC)	<u>40.00</u>	<u>65.00</u>

**Air Stripper**

Blower VFD Setting (Hertz)	<u>46</u>	Intake/Exhaust Piping OK? (Y/N)	<u>Y</u>
System Pressure (inches water)	<u>10.5</u>	Water Leaks (Y/N)	<u>N</u>
Influent/Effluent Piping OK? (Y/N)	<u>Y</u>	Water Temperature (°F)	<u>50</u>

**Heat Exchanger**

Heat (On/Off)	<u>ON</u>	Building Temperature (°F)	<u>53</u>
Heat Exchanger Flow (GPM)	<u>2.3</u>	Heat Exchanger Pressure (PSI)	<u>7.9</u>

**General Building/Site**

Building Condition OK? (Y/N)	<u>Y</u>	Circuit Breakers Checked (Y/N)	<u>Y</u>
Grass Mowed (Y/N)	<u>Y</u>	Outfall Condition OK? (Y/N)	<u>Y</u>
Monitoring Wells OK? (Y/N)	<u>Y</u>	Samples Collected (Y/N)	<u>Y</u>

**Notes:**

System restarted remotely on 10/28/13 due to AC failure.

Collect MW samples today.

**Gladding Cordage  
South Otselic, New York  
NYSDEC Site #709009**

Date 11/15/2013  
Inspector J.Wyckoff  
Time 16:30

## Treatment System Operation

System On (Y/N)	Y
RW-1 On (Y/N)	Y
RW-2 On (Y/N)	Y
Blower On (Y/N)	Y
Sump Pump On (Y/N)	N

## Alarms

A/C Fail (Y/N)	N
RW-1 (Y/N)	N
RW-2 (Y/N)	N
Blower Pressure (Y/N)	N
Sump Level (Y/N)	N

## **Recovery Wells**

Flow Rate (GPM)	21.5
Total Flow (Gallons)	
Water Level (Feet Above Probe)	33.54
Probe Depth (Feet BTOP)	40.00

RW-2

22.5  
55.30  
65.00

# Air Stripper

Blower VFD Setting (Hertz)	40	Intake/Exhaust Piping OK? (Y/N)	Y
System Pressure (inches water)	10.7	Water Leaks (Y/N)	N
Influent/Effluent Piping OK? (Y/N)	Y	Water Temperature (°F)	50

## Heat Exchanger

Heat (On/Off)	OFF	Building Temperature (°F)	56
Heat Exchanger Flow (GPM)	0.0	Heat Exchanger Pressure (PSI)	1.4

## **General Building/Site**

Building Condition OK? (Y/N)	<u>Y</u>	Circuit Breakers Checked (Y/N)	<u>Y</u>
Grass Mowed (Y/N)	<u>Y</u>	Outfall Condition OK? (Y/N)	<u>Y</u>
Monitoring Wells OK? (Y/N)	<u>Y</u>	Samples Collected (Y/N)	<u>Y</u>

## Notes:

**Gladding Cordage**  
**South Otselic, New York**  
**NYSDEC Site #709009**

Date 12/20/2013  
Inspector J.Wyckoff  
Time 9:45

**Treatment System Operation**

System On (Y/N)	<u>Y</u>
RW-1 On (Y/N)	<u>Y</u>
RW-2 On (Y/N)	<u>Y</u>
Blower On (Y/N)	<u>Y</u>
Sump Pump On (Y/N)	<u>N</u>

**Alarms**

A/C Fail (Y/N)	<u>N</u>
RW-1 (Y/N)	<u>N</u>
RW-2 (Y/N)	<u>N</u>
Blower Pressure (Y/N)	<u>N</u>
Sump Level (Y/N)	<u>N</u>

**Recovery Wells**

	<b>RW-1</b>	<b>RW-2</b>
Flow Rate (GPM)	<u>21.4</u>	<u>22.5</u>
Total Flow (Gallons)		
Water Level (Feet Above Probe)	<u>33.94</u>	<u>55.22</u>
Probe Depth (Feet BTOC)	<u>40.00</u>	<u>65.00</u>

**Air Stripper**

Blower VFD Setting (Hertz)	<u>46</u>	Intake/Exhaust Piping OK? (Y/N)	<u>Y</u>
System Pressure (inches water)	<u>10.6</u>	Water Leaks (Y/N)	<u>N</u>
Influent/Effluent Piping OK? (Y/N)	<u>Y</u>	Water Temperature (°F)	<u>50</u>

**Heat Exchanger**

Heat (On/Off)	<u>ON</u>	Building Temperature (°F)	<u>54.6</u>
Heat Exchanger Flow (GPM)	<u>0.0</u>	Heat Exchanger Pressure (PSI)	<u>8.5</u>

**General Building/Site**

Building Condition OK? (Y/N)	<u>Y</u>	Circuit Breakers Checked (Y/N)	<u>Y</u>
Grass Mowed (Y/N)	<u>NA</u>	Outfall Condition OK? (Y/N)	<u>Y</u>
Monitoring Wells OK? (Y/N)	<u>Y</u>	Samples Collected (Y/N)	<u>Y</u>

**Notes:**

---

---

---

---

~8" snow cover

---

HP OP on --> Circ. On --> HP Press 8.5      Flow = 0

---

---

---

---

---

---

---

---

## **Appendix B**

Site Photolog

**Appendix B  
Site and Well  
Photographs**

Gladding Cordage Site  
NYSDEC Site #7-09-009  
Otselic, New York



**TW-1**



**TW-2 (Shallow, Intermediate, Deep)**

Appendix B  
Site and Well  
Photographs

Gladding Cordage Site  
NYSDEC Site #7-09-009  
Otselic, New York



TW-3 (Shallow, Intermediate, Deep)



TW-4 Intermediate



TW-5 (Shallow, Intermediate, Deep)



TW-6 (Shallow, Intermediate, Deep)



TW-7 (Shallow, Intermediate, Deep)



TW-9 (Intermediate)



TW-9 (Deep)



TW-10 (Deep)



TW-12 (Intermediate, Deep)



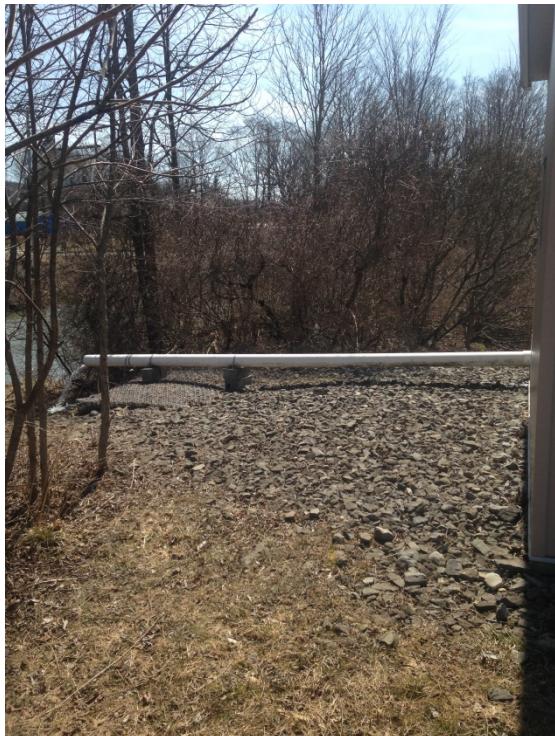
TW-14 (Shallow, Intermediate, Deep)

**Appendix B  
Site and Well  
Photographs**

Gladding Cordage Site  
NYSDEC Site #7-09-009  
Otselic, New York



Treatment Building



Effluent Outfall to Otselic River

## **Appendix C**

Analytical Data Packages

November 11, 2013

Jeremy Wyckoff  
Arcadis US, Inc. - Clifton Park-NY  
855 Route 146, Suite 210  
Clifton Park, NY 12065

Project Location: Gladding Cordage  
Client Job Number:  
Project Number: 00266406.0000  
Laboratory Work Order Number: 13J1242

Enclosed are results of analyses for samples received by the laboratory on October 31, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Aaron L. Benoit  
Project Manager

Arcadis US, Inc. - Clifton Park-NY  
 855 Route 146, Suite 210  
 Clifton Park, NY 12065  
 ATTN: Jeremy Wyckoff

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 00266406.0000

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 13J1242

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Gladding Cordage

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TW-3S	13J1242-01	Ground Water		EPA 624	
TW-3I	13J1242-02	Ground Water		EPA 624	
TW-3D	13J1242-03	Ground Water		EPA 624	
TW-5S	13J1242-04	Ground Water		EPA 624	
TW-5I	13J1242-05	Ground Water		EPA 624	
TW-5D	13J1242-06	Ground Water		EPA 624	
TW-7S	13J1242-07	Ground Water		EPA 624	
TW-7I	13J1242-08	Ground Water		EPA 624	
TW-7D	13J1242-09	Ground Water		EPA 624	
TW-9I	13J1242-10	Ground Water		EPA 624	
TW-9D	13J1242-11	Ground Water		EPA 624	
TW-6S	13J1242-12	Ground Water		EPA 624	
TW-6I	13J1242-13	Ground Water		EPA 624	
TW-6D	13J1242-14	Ground Water		EPA 624	
TW-4I	13J1242-15	Ground Water		EPA 624	
TW-14S	13J1242-16	Ground Water		EPA 624	
TW-14I	13J1242-17	Ground Water		EPA 624	
TW-14D	13J1242-18	Ground Water		EPA 624	
TW-15	13J1242-19	Ground Water		EPA 624	
TW-X	13J1242-20	Ground Water		EPA 624	
RW-1	13J1242-21	Ground Water		EPA 624	
RW-2	13J1242-22	Ground Water		EPA 624	
EFF46HZ	13J1242-23	Ground Water		EPA 624	
TW-12I	13J1242-24	Ground Water		EPA 624	
TW-12D	13J1242-25	Ground Water		EPA 624	
Trip Blank	13J1242-26	Trip Blank Water		EPA 624	
FB	13J1242-27	Field Blank		EPA 624	

**CASE NARRATIVE SUMMARY**

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

**EPA 624**

**Qualifications:**

Poor spike recovery may be indicative of sample matrix interferences. Unfortified sample is suspect.

**Analyte & Samples(s) Qualified:**

**2-Chloroethyl Vinyl Ether**

B084174-MS1, B084393-MS1

Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

**Analyte & Samples(s) Qualified:**

**1,1,1-Trichloroethane, Carbon Tetrachloride**

B084174-MS1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.  
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Daren J. Damboragian  
Laboratory Manager

Project Location: Gladding Cordage

Sample Description:

Work Order: 13J1242

Date Received: 10/31/2013

**Field Sample #:** TW-3S

Sampled: 10/29/2013 09:45

**Sample ID:** 13J1242-01

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/5/13 21:30	LBD
Bromodichloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 21:30	LBD
Bromoform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 21:30	LBD
Bromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 21:30	LBD
Carbon Tetrachloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 21:30	LBD
Chlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 21:30	LBD
Chlorodibromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 21:30	LBD
Chloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 21:30	LBD
2-Chloroethyl Vinyl Ether	ND	10	µg/L	1		EPA 624	11/4/13	11/5/13 21:30	LBD
Chloroform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 21:30	LBD
Chloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 21:30	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 21:30	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 21:30	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 21:30	LBD
1,2-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 21:30	LBD
1,1-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 21:30	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 21:30	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 21:30	LBD
1,2-Dichloropropane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 21:30	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 21:30	LBD
trans-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 21:30	LBD
Ethylbenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 21:30	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 21:30	LBD
Methylene Chloride	ND	5.0	µg/L	1		EPA 624	11/4/13	11/5/13 21:30	LBD
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 21:30	LBD
Tetrachloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 21:30	LBD
Toluene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/5/13 21:30	LBD
1,1,1-Trichloroethane	2.9	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 21:30	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 21:30	LBD
Trichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 21:30	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 21:30	LBD
Vinyl Chloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 21:30	LBD
m+p Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 21:30	LBD
o-Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 21:30	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	106	70-130		11/5/13 21:30
Toluene-d8	97.8	70-130		11/5/13 21:30
4-Bromofluorobenzene	96.3	70-130		11/5/13 21:30

Project Location: Gladding Cordage

Sample Description:

Work Order: 13J1242

Date Received: 10/31/2013

**Field Sample #:** TW-3I

Sampled: 10/29/2013 09:50

**Sample ID:** 13J1242-02

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:01	LBD
Bromodichloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:01	LBD
Bromoform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:01	LBD
Bromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:01	LBD
Carbon Tetrachloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:01	LBD
Chlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:01	LBD
Chlorodibromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:01	LBD
Chloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:01	LBD
2-Chloroethyl Vinyl Ether	ND	10	µg/L	1		EPA 624	11/4/13	11/5/13 22:01	LBD
Chloroform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:01	LBD
Chloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:01	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:01	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:01	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:01	LBD
1,2-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:01	LBD
1,1-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:01	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:01	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:01	LBD
1,2-Dichloropropane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:01	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:01	LBD
trans-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:01	LBD
Ethylbenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:01	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:01	LBD
Methylene Chloride	ND	5.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:01	LBD
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:01	LBD
Tetrachloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:01	LBD
Toluene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:01	LBD
1,1,1-Trichloroethane	6.1	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:01	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:01	LBD
Trichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:01	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:01	LBD
Vinyl Chloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:01	LBD
m+p Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:01	LBD
o-Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:01	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	106	70-130		11/5/13 22:01
Toluene-d8	98.9	70-130		11/5/13 22:01
4-Bromofluorobenzene	97.6	70-130		11/5/13 22:01

Project Location: Gladding Cordage

Sample Description:

Work Order: 13J1242

Date Received: 10/31/2013

**Field Sample #:** TW-3D

Sampled: 10/29/2013 09:55

**Sample ID:** 13J1242-03

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:31	LBD
Bromodichloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:31	LBD
Bromoform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:31	LBD
Bromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:31	LBD
Carbon Tetrachloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:31	LBD
Chlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:31	LBD
Chlorodibromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:31	LBD
Chloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:31	LBD
2-Chloroethyl Vinyl Ether	ND	10	µg/L	1		EPA 624	11/4/13	11/5/13 22:31	LBD
Chloroform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:31	LBD
Chloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:31	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:31	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:31	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:31	LBD
1,2-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:31	LBD
1,1-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:31	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:31	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:31	LBD
1,2-Dichloropropane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:31	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:31	LBD
trans-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:31	LBD
Ethylbenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:31	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:31	LBD
Methylene Chloride	ND	5.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:31	LBD
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:31	LBD
Tetrachloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:31	LBD
Toluene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:31	LBD
1,1,1-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:31	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:31	LBD
Trichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:31	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:31	LBD
Vinyl Chloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:31	LBD
m+p Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:31	LBD
o-Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 22:31	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	107	70-130		11/5/13 22:31
Toluene-d8	97.9	70-130		11/5/13 22:31
4-Bromofluorobenzene	96.9	70-130		11/5/13 22:31

Project Location: Gladding Cordage

Sample Description:

Work Order: 13J1242

Date Received: 10/31/2013

**Field Sample #:** TW-5S

Sampled: 10/29/2013 10:10

**Sample ID:** 13J1242-04

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:02	LBD
Bromodichloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:02	LBD
Bromoform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:02	LBD
Bromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:02	LBD
Carbon Tetrachloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:02	LBD
Chlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:02	LBD
Chlorodibromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:02	LBD
Chloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:02	LBD
2-Chloroethyl Vinyl Ether	ND	10	µg/L	1		EPA 624	11/4/13	11/5/13 23:02	LBD
Chloroform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:02	LBD
Chloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:02	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:02	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:02	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:02	LBD
1,2-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:02	LBD
1,1-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:02	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:02	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:02	LBD
1,2-Dichloropropane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:02	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:02	LBD
trans-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:02	LBD
Ethylbenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:02	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:02	LBD
Methylene Chloride	ND	5.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:02	LBD
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:02	LBD
Tetrachloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:02	LBD
Toluene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:02	LBD
1,1,1-Trichloroethane	7.9	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:02	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:02	LBD
Trichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:02	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:02	LBD
Vinyl Chloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:02	LBD
m+p Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:02	LBD
o-Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:02	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	105	70-130		11/5/13 23:02
Toluene-d8	98.8	70-130		11/5/13 23:02
4-Bromofluorobenzene	95.3	70-130		11/5/13 23:02

Project Location: Gladding Cordage

Sample Description:

Work Order: 13J1242

Date Received: 10/31/2013

**Field Sample #:** TW-5I

Sampled: 10/29/2013 10:15

**Sample ID:** 13J1242-05

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	1.9	1.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:32	LBD
Bromodichloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:32	LBD
Bromoform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:32	LBD
Bromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:32	LBD
Carbon Tetrachloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:32	LBD
Chlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:32	LBD
Chlorodibromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:32	LBD
Chloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:32	LBD
2-Chloroethyl Vinyl Ether	ND	10	µg/L	1		EPA 624	11/4/13	11/5/13 23:32	LBD
Chloroform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:32	LBD
Chloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:32	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:32	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:32	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:32	LBD
1,2-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:32	LBD
1,1-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:32	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:32	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:32	LBD
1,2-Dichloropropane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:32	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:32	LBD
trans-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:32	LBD
Ethylbenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:32	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:32	LBD
Methylene Chloride	ND	5.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:32	LBD
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:32	LBD
Tetrachloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:32	LBD
Toluene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:32	LBD
1,1,1-Trichloroethane	4.1	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:32	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:32	LBD
Trichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:32	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:32	LBD
Vinyl Chloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:32	LBD
m+p Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:32	LBD
o-Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 23:32	LBD
Surrogates	% Recovery	Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	107	70-130					11/5/13 23:32		
Toluene-d8	97.7	70-130					11/5/13 23:32		
4-Bromofluorobenzene	95.1	70-130					11/5/13 23:32		

Project Location: Gladding Cordage

Sample Description:

Work Order: 13J1242

Date Received: 10/31/2013

**Field Sample #:** TW-5D

Sampled: 10/29/2013 10:20

**Sample ID:** 13J1242-06

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:03	LBD
Bromodichloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:03	LBD
Bromoform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:03	LBD
Bromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:03	LBD
Carbon Tetrachloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:03	LBD
Chlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:03	LBD
Chlorodibromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:03	LBD
Chloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:03	LBD
2-Chloroethyl Vinyl Ether	ND	10	µg/L	1		EPA 624	11/4/13	11/6/13 0:03	LBD
Chloroform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:03	LBD
Chloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:03	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:03	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:03	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:03	LBD
1,2-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:03	LBD
1,1-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:03	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:03	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:03	LBD
1,2-Dichloropropane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:03	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:03	LBD
trans-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:03	LBD
Ethylbenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:03	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:03	LBD
Methylene Chloride	ND	5.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:03	LBD
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:03	LBD
Tetrachloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:03	LBD
Toluene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:03	LBD
1,1,1-Trichloroethane	39	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:03	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:03	LBD
Trichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:03	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:03	LBD
Vinyl Chloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:03	LBD
m+p Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:03	LBD
o-Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:03	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	107	70-130		11/6/13 0:03
Toluene-d8	97.3	70-130		11/6/13 0:03
4-Bromofluorobenzene	95.8	70-130		11/6/13 0:03

Project Location: Gladding Cordage

Sample Description:

Work Order: 13J1242

Date Received: 10/31/2013

**Field Sample #:** TW-7S

Sampled: 10/29/2013 10:30

**Sample ID:** 13J1242-07

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:33	LBD
Bromodichloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:33	LBD
Bromoform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:33	LBD
Bromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:33	LBD
Carbon Tetrachloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:33	LBD
Chlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:33	LBD
Chlorodibromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:33	LBD
Chloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:33	LBD
2-Chloroethyl Vinyl Ether	ND	10	µg/L	1		EPA 624	11/4/13	11/6/13 0:33	LBD
Chloroform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:33	LBD
Chloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:33	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:33	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:33	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:33	LBD
1,2-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:33	LBD
1,1-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:33	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:33	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:33	LBD
1,2-Dichloropropane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:33	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:33	LBD
trans-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:33	LBD
Ethylbenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:33	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:33	LBD
Methylene Chloride	ND	5.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:33	LBD
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:33	LBD
Tetrachloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:33	LBD
Toluene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:33	LBD
1,1,1-Trichloroethane	12	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:33	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:33	LBD
Trichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:33	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:33	LBD
Vinyl Chloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:33	LBD
m+p Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:33	LBD
o-Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 0:33	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	105	70-130	
Toluene-d8	96.8	70-130	
4-Bromofluorobenzene	96.9	70-130	

Project Location: Gladding Cordage

Sample Description:

Work Order: 13J1242

Date Received: 10/31/2013

**Field Sample #:** TW-7I

Sampled: 10/29/2013 10:35

**Sample ID:** 13J1242-08

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:04	LBD
Bromodichloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:04	LBD
Bromoform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:04	LBD
Bromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:04	LBD
Carbon Tetrachloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:04	LBD
Chlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:04	LBD
Chlorodibromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:04	LBD
Chloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:04	LBD
2-Chloroethyl Vinyl Ether	ND	10	µg/L	1		EPA 624	11/4/13	11/6/13 1:04	LBD
Chloroform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:04	LBD
Chloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:04	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:04	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:04	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:04	LBD
1,2-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:04	LBD
1,1-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:04	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:04	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:04	LBD
1,2-Dichloropropane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:04	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:04	LBD
trans-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:04	LBD
Ethylbenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:04	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:04	LBD
Methylene Chloride	ND	5.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:04	LBD
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:04	LBD
Tetrachloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:04	LBD
Toluene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:04	LBD
1,1,1-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:04	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:04	LBD
Trichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:04	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:04	LBD
Vinyl Chloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:04	LBD
m+p Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:04	LBD
o-Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:04	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	109	70-130	
Toluene-d8	97.9	70-130	
4-Bromofluorobenzene	95.4	70-130	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Gladding Cordage

Sample Description:

Work Order: 13J1242

Date Received: 10/31/2013

Sampled: 10/29/2013 10:40

**Field Sample #:** TW-7D

**Sample ID:** 13J1242-09

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:34	LBD
Bromodichloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:34	LBD
Bromoform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:34	LBD
Bromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:34	LBD
Carbon Tetrachloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:34	LBD
Chlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:34	LBD
Chlorodibromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:34	LBD
Chloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:34	LBD
2-Chloroethyl Vinyl Ether	ND	10	µg/L	1		EPA 624	11/4/13	11/6/13 1:34	LBD
Chloroform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:34	LBD
Chloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:34	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:34	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:34	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:34	LBD
1,2-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:34	LBD
1,1-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:34	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:34	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:34	LBD
1,2-Dichloropropane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:34	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:34	LBD
trans-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:34	LBD
Ethylbenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:34	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:34	LBD
Methylene Chloride	ND	5.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:34	LBD
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:34	LBD
Tetrachloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:34	LBD
Toluene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:34	LBD
1,1,1-Trichloroethane	5.9	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:34	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:34	LBD
Trichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:34	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:34	LBD
Vinyl Chloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:34	LBD
m+p Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:34	LBD
o-Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 1:34	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	108	70-130	
Toluene-d8	97.2	70-130	
4-Bromofluorobenzene	94.6	70-130	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Gladding Cordage

Sample Description:

Work Order: 13J1242

Date Received: 10/31/2013

**Field Sample #:** TW-9I

Sampled: 10/29/2013 10:45

**Sample ID:** 13J1242-10

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:05	LBD
Bromodichloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:05	LBD
Bromoform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:05	LBD
Bromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:05	LBD
Carbon Tetrachloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:05	LBD
Chlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:05	LBD
Chlorodibromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:05	LBD
Chloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:05	LBD
2-Chloroethyl Vinyl Ether	ND	10	µg/L	1		EPA 624	11/4/13	11/6/13 2:05	LBD
Chloroform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:05	LBD
Chloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:05	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:05	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:05	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:05	LBD
1,2-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:05	LBD
1,1-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:05	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:05	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:05	LBD
1,2-Dichloropropane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:05	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:05	LBD
trans-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:05	LBD
Ethylbenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:05	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:05	LBD
Methylene Chloride	ND	5.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:05	LBD
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:05	LBD
Tetrachloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:05	LBD
Toluene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:05	LBD
1,1,1-Trichloroethane	4.0	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:05	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:05	LBD
Trichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:05	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:05	LBD
Vinyl Chloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:05	LBD
m+p Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:05	LBD
o-Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:05	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	109	70-130	
Toluene-d8	97.8	70-130	
4-Bromofluorobenzene	95.4	70-130	

Project Location: Gladding Cordage

Sample Description:

Work Order: 13J1242

Date Received: 10/31/2013

**Field Sample #:** TW-9D

Sampled: 10/29/2013 10:50

**Sample ID:** 13J1242-11

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:35	LBD
Bromodichloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:35	LBD
Bromoform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:35	LBD
Bromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:35	LBD
Carbon Tetrachloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:35	LBD
Chlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:35	LBD
Chlorodibromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:35	LBD
Chloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:35	LBD
2-Chloroethyl Vinyl Ether	ND	10	µg/L	1		EPA 624	11/4/13	11/6/13 2:35	LBD
Chloroform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:35	LBD
Chloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:35	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:35	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:35	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:35	LBD
1,2-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:35	LBD
1,1-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:35	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:35	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:35	LBD
1,2-Dichloropropane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:35	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:35	LBD
trans-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:35	LBD
Ethylbenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:35	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:35	LBD
Methylene Chloride	ND	5.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:35	LBD
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:35	LBD
Tetrachloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:35	LBD
Toluene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:35	LBD
1,1,1-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:35	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:35	LBD
Trichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:35	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:35	LBD
Vinyl Chloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:35	LBD
m+p Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:35	LBD
o-Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 2:35	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	111	70-130	11/6/13 2:35
Toluene-d8	97.3	70-130	11/6/13 2:35
4-Bromofluorobenzene	92.9	70-130	11/6/13 2:35

Project Location: Gladding Cordage

Sample Description:

Work Order: 13J1242

Date Received: 10/31/2013

**Field Sample #:** TW-6S

Sampled: 10/29/2013 11:05

**Sample ID:** 13J1242-12

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:06	LBD
Bromodichloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:06	LBD
Bromoform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:06	LBD
Bromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:06	LBD
Carbon Tetrachloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:06	LBD
Chlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:06	LBD
Chlorodibromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:06	LBD
Chloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:06	LBD
2-Chloroethyl Vinyl Ether	ND	10	µg/L	1		EPA 624	11/4/13	11/6/13 3:06	LBD
Chloroform	8.6	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:06	LBD
Chloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:06	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:06	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:06	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:06	LBD
1,2-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:06	LBD
1,1-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:06	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:06	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:06	LBD
1,2-Dichloropropane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:06	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:06	LBD
trans-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:06	LBD
Ethylbenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:06	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:06	LBD
Methylene Chloride	ND	5.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:06	LBD
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:06	LBD
Tetrachloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:06	LBD
Toluene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:06	LBD
1,1,1-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:06	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:06	LBD
Trichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:06	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:06	LBD
Vinyl Chloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:06	LBD
m+p Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:06	LBD
o-Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:06	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	108	70-130	
Toluene-d8	96.6	70-130	
4-Bromofluorobenzene	96.2	70-130	

Project Location: Gladding Cordage

Sample Description:

Work Order: 13J1242

Date Received: 10/31/2013

**Field Sample #:** TW-6I

Sampled: 10/29/2013 11:10

**Sample ID:** 13J1242-13

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:37	LBD
Bromodichloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:37	LBD
Bromoform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:37	LBD
Bromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:37	LBD
Carbon Tetrachloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:37	LBD
Chlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:37	LBD
Chlorodibromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:37	LBD
Chloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:37	LBD
2-Chloroethyl Vinyl Ether	ND	10	µg/L	1		EPA 624	11/4/13	11/6/13 3:37	LBD
Chloroform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:37	LBD
Chloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:37	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:37	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:37	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:37	LBD
1,2-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:37	LBD
1,1-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:37	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:37	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:37	LBD
1,2-Dichloropropane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:37	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:37	LBD
trans-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:37	LBD
Ethylbenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:37	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:37	LBD
Methylene Chloride	ND	5.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:37	LBD
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:37	LBD
Tetrachloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:37	LBD
Toluene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:37	LBD
1,1,1-Trichloroethane	2.2	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:37	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:37	LBD
Trichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:37	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:37	LBD
Vinyl Chloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:37	LBD
m+p Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:37	LBD
o-Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 3:37	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	109	70-130		11/6/13 3:37
Toluene-d8	97.6	70-130		11/6/13 3:37
4-Bromofluorobenzene	96.1	70-130		11/6/13 3:37

Project Location: Gladding Cordage

Sample Description:

Work Order: 13J1242

Date Received: 10/31/2013

**Field Sample #:** TW-6D

Sampled: 10/29/2013 11:15

**Sample ID:** 13J1242-14

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:07	LBD
Bromodichloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:07	LBD
Bromoform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:07	LBD
Bromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:07	LBD
Carbon Tetrachloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:07	LBD
Chlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:07	LBD
Chlorodibromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:07	LBD
Chloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:07	LBD
2-Chloroethyl Vinyl Ether	ND	10	µg/L	1		EPA 624	11/4/13	11/6/13 4:07	LBD
Chloroform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:07	LBD
Chloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:07	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:07	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:07	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:07	LBD
1,2-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:07	LBD
1,1-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:07	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:07	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:07	LBD
1,2-Dichloropropane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:07	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:07	LBD
trans-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:07	LBD
Ethylbenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:07	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:07	LBD
Methylene Chloride	ND	5.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:07	LBD
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:07	LBD
Tetrachloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:07	LBD
Toluene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:07	LBD
1,1,1-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:07	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:07	LBD
Trichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:07	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:07	LBD
Vinyl Chloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:07	LBD
m+p Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:07	LBD
o-Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:07	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	109	70-130		11/6/13 4:07
Toluene-d8	99.1	70-130		11/6/13 4:07
4-Bromofluorobenzene	97.4	70-130		11/6/13 4:07

Project Location: Gladding Cordage

Sample Description:

Work Order: 13J1242

Date Received: 10/31/2013

**Field Sample #:** TW-4I

Sampled: 10/29/2013 11:20

**Sample ID:** 13J1242-15

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:38	LBD
Bromodichloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:38	LBD
Bromoform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:38	LBD
Bromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:38	LBD
Carbon Tetrachloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:38	LBD
Chlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:38	LBD
Chlorodibromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:38	LBD
Chloroethane	2.3	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:38	LBD
2-Chloroethyl Vinyl Ether	ND	10	µg/L	1		EPA 624	11/4/13	11/6/13 4:38	LBD
Chloroform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:38	LBD
Chloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:38	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:38	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:38	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:38	LBD
1,2-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:38	LBD
1,1-Dichloroethane	4.4	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:38	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:38	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:38	LBD
1,2-Dichloropropane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:38	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:38	LBD
trans-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:38	LBD
Ethylbenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:38	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:38	LBD
Methylene Chloride	ND	5.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:38	LBD
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:38	LBD
Tetrachloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:38	LBD
Toluene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:38	LBD
1,1,1-Trichloroethane	23	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:38	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:38	LBD
Trichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:38	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:38	LBD
Vinyl Chloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:38	LBD
m+p Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:38	LBD
o-Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 4:38	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	108	70-130	
Toluene-d8	96.9	70-130	
4-Bromofluorobenzene	97.1	70-130	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Gladding Cordage

Sample Description:

Work Order: 13J1242

Date Received: 10/31/2013

**Field Sample #:** TW-14S

Sampled: 10/29/2013 11:30

**Sample ID:** 13J1242-16

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:08	LBD
Bromodichloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:08	LBD
Bromoform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:08	LBD
Bromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:08	LBD
Carbon Tetrachloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:08	LBD
Chlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:08	LBD
Chlorodibromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:08	LBD
Chloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:08	LBD
2-Chloroethyl Vinyl Ether	ND	10	µg/L	1		EPA 624	11/4/13	11/6/13 5:08	LBD
Chloroform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:08	LBD
Chloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:08	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:08	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:08	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:08	LBD
1,2-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:08	LBD
1,1-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:08	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:08	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:08	LBD
1,2-Dichloropropane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:08	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:08	LBD
trans-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:08	LBD
Ethylbenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:08	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:08	LBD
Methylene Chloride	ND	5.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:08	LBD
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:08	LBD
Tetrachloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:08	LBD
Toluene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:08	LBD
1,1,1-Trichloroethane	10	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:08	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:08	LBD
Trichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:08	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:08	LBD
Vinyl Chloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:08	LBD
m+p Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:08	LBD
o-Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:08	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	111	70-130		11/6/13 5:08
Toluene-d8	97.7	70-130		11/6/13 5:08
4-Bromofluorobenzene	96.0	70-130		11/6/13 5:08

Project Location: Gladding Cordage

Sample Description:

Work Order: 13J1242

Date Received: 10/31/2013

**Field Sample #:** TW-14I

Sampled: 10/29/2013 11:35

**Sample ID:** 13J1242-17

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:39	LBD
Bromodichloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:39	LBD
Bromoform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:39	LBD
Bromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:39	LBD
Carbon Tetrachloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:39	LBD
Chlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:39	LBD
Chlorodibromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:39	LBD
Chloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:39	LBD
2-Chloroethyl Vinyl Ether	ND	10	µg/L	1		EPA 624	11/4/13	11/6/13 5:39	LBD
Chloroform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:39	LBD
Chloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:39	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:39	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:39	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:39	LBD
1,2-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:39	LBD
1,1-Dichloroethane	2.1	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:39	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:39	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:39	LBD
1,2-Dichloropropane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:39	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:39	LBD
trans-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:39	LBD
Ethylbenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:39	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:39	LBD
Methylene Chloride	ND	5.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:39	LBD
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:39	LBD
Tetrachloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:39	LBD
Toluene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:39	LBD
1,1,1-Trichloroethane	59	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:39	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:39	LBD
Trichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:39	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:39	LBD
Vinyl Chloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:39	LBD
m+p Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:39	LBD
o-Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 5:39	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	107	70-130		11/6/13 5:39
Toluene-d8	98.4	70-130		11/6/13 5:39
4-Bromofluorobenzene	96.0	70-130		11/6/13 5:39

Project Location: Gladding Cordage

Sample Description:

Work Order: 13J1242

Date Received: 10/31/2013

**Field Sample #:** TW-14D

Sampled: 10/29/2013 11:40

**Sample ID:** 13J1242-18

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:09	LBD
Bromodichloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:09	LBD
Bromoform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:09	LBD
Bromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:09	LBD
Carbon Tetrachloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:09	LBD
Chlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:09	LBD
Chlorodibromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:09	LBD
Chloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:09	LBD
2-Chloroethyl Vinyl Ether	ND	10	µg/L	1		EPA 624	11/4/13	11/6/13 6:09	LBD
Chloroform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:09	LBD
Chloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:09	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:09	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:09	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:09	LBD
1,2-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:09	LBD
1,1-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:09	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:09	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:09	LBD
1,2-Dichloropropane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:09	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:09	LBD
trans-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:09	LBD
Ethylbenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:09	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:09	LBD
Methylene Chloride	ND	5.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:09	LBD
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:09	LBD
Tetrachloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:09	LBD
Toluene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:09	LBD
1,1,1-Trichloroethane	56	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:09	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:09	LBD
Trichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:09	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:09	LBD
Vinyl Chloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:09	LBD
m+p Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:09	LBD
o-Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:09	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	107	70-130		11/6/13 6:09
Toluene-d8	96.5	70-130		11/6/13 6:09
4-Bromofluorobenzene	96.3	70-130		11/6/13 6:09

Project Location: Gladding Cordage

Sample Description:

Work Order: 13J1242

Date Received: 10/31/2013

**Field Sample #:** TW-15

Sampled: 10/29/2013 11:50

**Sample ID:** 13J1242-19

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:40	LBD
Bromodichloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:40	LBD
Bromoform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:40	LBD
Bromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:40	LBD
Carbon Tetrachloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:40	LBD
Chlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:40	LBD
Chlorodibromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:40	LBD
Chloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:40	LBD
2-Chloroethyl Vinyl Ether	ND	10	µg/L	1		EPA 624	11/4/13	11/6/13 6:40	LBD
Chloroform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:40	LBD
Chloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:40	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:40	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:40	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:40	LBD
1,2-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:40	LBD
1,1-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:40	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:40	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:40	LBD
1,2-Dichloropropane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:40	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:40	LBD
trans-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:40	LBD
Ethylbenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:40	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:40	LBD
Methylene Chloride	ND	5.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:40	LBD
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:40	LBD
Tetrachloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:40	LBD
Toluene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:40	LBD
1,1,1-Trichloroethane	9.4	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:40	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:40	LBD
Trichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:40	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:40	LBD
Vinyl Chloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:40	LBD
m+p Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:40	LBD
o-Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 6:40	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	109	70-130	
Toluene-d8	97.2	70-130	
4-Bromofluorobenzene	96.0	70-130	

Project Location: Gladding Cordage

Sample Description:

Work Order: 13J1242

Date Received: 10/31/2013

**Field Sample #:** TW-X

Sampled: 10/29/2013 00:00

**Sample ID:** 13J1242-20

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/6/13 7:11	LBD
Bromodichloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 7:11	LBD
Bromoform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 7:11	LBD
Bromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 7:11	LBD
Carbon Tetrachloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 7:11	LBD
Chlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 7:11	LBD
Chlorodibromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 7:11	LBD
Chloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 7:11	LBD
2-Chloroethyl Vinyl Ether	ND	10	µg/L	1		EPA 624	11/4/13	11/6/13 7:11	LBD
Chloroform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 7:11	LBD
Chloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 7:11	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 7:11	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 7:11	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 7:11	LBD
1,2-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 7:11	LBD
1,1-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 7:11	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 7:11	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 7:11	LBD
1,2-Dichloropropane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 7:11	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 7:11	LBD
trans-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 7:11	LBD
Ethylbenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 7:11	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 7:11	LBD
Methylene Chloride	ND	5.0	µg/L	1		EPA 624	11/4/13	11/6/13 7:11	LBD
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 7:11	LBD
Tetrachloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 7:11	LBD
Toluene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/6/13 7:11	LBD
1,1,1-Trichloroethane	5.1	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 7:11	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 7:11	LBD
Trichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 7:11	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 7:11	LBD
Vinyl Chloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 7:11	LBD
m+p Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 7:11	LBD
o-Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/6/13 7:11	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	110	70-130	
Toluene-d8	97.8	70-130	
4-Bromofluorobenzene	95.1	70-130	

Project Location: Gladding Cordage

Sample Description:

Work Order: 13J1242

Date Received: 10/31/2013

**Field Sample #:** RW-1

Sampled: 10/29/2013 12:00

**Sample ID:** 13J1242-21

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:40	LBD
Bromodichloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:40	LBD
Bromoform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:40	LBD
Bromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:40	LBD
Carbon Tetrachloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:40	LBD
Chlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:40	LBD
Chlorodibromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:40	LBD
Chloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:40	LBD
2-Chloroethyl Vinyl Ether	ND	10	µg/L	1		EPA 624	11/4/13	11/4/13 23:40	LBD
Chloroform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:40	LBD
Chloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:40	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:40	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:40	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:40	LBD
1,2-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:40	LBD
1,1-Dichloroethane	2.2	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:40	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:40	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:40	LBD
1,2-Dichloropropane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:40	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:40	LBD
trans-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:40	LBD
Ethylbenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:40	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:40	LBD
Methylene Chloride	ND	5.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:40	LBD
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:40	LBD
Tetrachloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:40	LBD
Toluene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:40	LBD
1,1,1-Trichloroethane	53	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:40	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:40	LBD
Trichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:40	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:40	LBD
Vinyl Chloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:40	LBD
m+p Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:40	LBD
o-Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:40	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	104	70-130		11/4/13 23:40
Toluene-d8	97.3	70-130		11/4/13 23:40
4-Bromofluorobenzene	95.4	70-130		11/4/13 23:40

Project Location: Gladding Cordage

Sample Description:

Work Order: 13J1242

Date Received: 10/31/2013

**Field Sample #:** RW-2

Sampled: 10/29/2013 12:05

**Sample ID:** 13J1242-22

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/5/13 0:11	LBD
Bromodichloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 0:11	LBD
Bromoform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 0:11	LBD
Bromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 0:11	LBD
Carbon Tetrachloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 0:11	LBD
Chlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 0:11	LBD
Chlorodibromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 0:11	LBD
Chloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 0:11	LBD
2-Chloroethyl Vinyl Ether	ND	10	µg/L	1		EPA 624	11/4/13	11/5/13 0:11	LBD
Chloroform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 0:11	LBD
Chloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 0:11	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 0:11	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 0:11	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 0:11	LBD
1,2-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 0:11	LBD
1,1-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 0:11	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 0:11	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 0:11	LBD
1,2-Dichloropropane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 0:11	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 0:11	LBD
trans-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 0:11	LBD
Ethylbenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 0:11	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 0:11	LBD
Methylene Chloride	ND	5.0	µg/L	1		EPA 624	11/4/13	11/5/13 0:11	LBD
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 0:11	LBD
Tetrachloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 0:11	LBD
Toluene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/5/13 0:11	LBD
1,1,1-Trichloroethane	49	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 0:11	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 0:11	LBD
Trichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 0:11	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 0:11	LBD
Vinyl Chloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 0:11	LBD
m+p Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 0:11	LBD
o-Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/5/13 0:11	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	100	70-130		11/5/13 0:11
Toluene-d8	98.0	70-130		11/5/13 0:11
4-Bromofluorobenzene	96.9	70-130		11/5/13 0:11

Project Location: Gladding Cordage

Sample Description:

Work Order: 13J1242

Date Received: 10/31/2013

**Field Sample #:** EFF46HZ

Sampled: 10/29/2013 12:10

**Sample ID:** 13J1242-23

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:10	LBD
Bromodichloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:10	LBD
Bromoform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:10	LBD
Bromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:10	LBD
Carbon Tetrachloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:10	LBD
Chlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:10	LBD
Chlorodibromomethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:10	LBD
Chloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:10	LBD
2-Chloroethyl Vinyl Ether	ND	10	µg/L	1		EPA 624	11/4/13	11/4/13 23:10	LBD
Chloroform	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:10	LBD
Chloromethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:10	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:10	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:10	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:10	LBD
1,2-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:10	LBD
1,1-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:10	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:10	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:10	LBD
1,2-Dichloropropane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:10	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:10	LBD
trans-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:10	LBD
Ethylbenzene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:10	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:10	LBD
Methylene Chloride	ND	5.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:10	LBD
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:10	LBD
Tetrachloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:10	LBD
Toluene	ND	1.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:10	LBD
1,1,1-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:10	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:10	LBD
Trichloroethylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:10	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:10	LBD
Vinyl Chloride	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:10	LBD
m+p Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:10	LBD
o-Xylene	ND	2.0	µg/L	1		EPA 624	11/4/13	11/4/13 23:10	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.6	70-130		11/4/13 23:10
Toluene-d8	96.2	70-130		11/4/13 23:10
4-Bromofluorobenzene	95.6	70-130		11/4/13 23:10

Project Location: Gladding Cordage

Sample Description:

Work Order: 13J1242

Date Received: 10/31/2013

**Field Sample #:** TW-12I

Sampled: 10/29/2013 12:20

**Sample ID:** 13J1242-24

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:25	LBD
Bromodichloromethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:25	LBD
Bromoform	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:25	LBD
Bromomethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:25	LBD
Carbon Tetrachloride	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:25	LBD
Chlorobenzene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:25	LBD
Chlorodibromomethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:25	LBD
Chloroethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:25	LBD
2-Chloroethyl Vinyl Ether	ND	10	µg/L	1		EPA 624	11/5/13	11/5/13 15:25	LBD
Chloroform	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:25	LBD
Chloromethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:25	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:25	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:25	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:25	LBD
1,2-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:25	LBD
1,1-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:25	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:25	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:25	LBD
1,2-Dichloropropane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:25	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:25	LBD
trans-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:25	LBD
Ethylbenzene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:25	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:25	LBD
Methylene Chloride	ND	5.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:25	LBD
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:25	LBD
Tetrachloroethylene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:25	LBD
Toluene	ND	1.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:25	LBD
1,1,1-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:25	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:25	LBD
Trichloroethylene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:25	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:25	LBD
Vinyl Chloride	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:25	LBD
m+p Xylene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:25	LBD
o-Xylene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:25	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	105	70-130		11/5/13 15:25
Toluene-d8	96.6	70-130		11/5/13 15:25
4-Bromofluorobenzene	95.8	70-130		11/5/13 15:25

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Gladding Cordage

Sample Description:

Work Order: 13J1242

Date Received: 10/31/2013

Sampled: 10/29/2013 12:25

**Field Sample #:** TW-12D

**Sample ID:** 13J1242-25

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:55	LBD
Bromodichloromethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:55	LBD
Bromoform	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:55	LBD
Bromomethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:55	LBD
Carbon Tetrachloride	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:55	LBD
Chlorobenzene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:55	LBD
Chlorodibromomethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:55	LBD
Chloroethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:55	LBD
2-Chloroethyl Vinyl Ether	ND	10	µg/L	1		EPA 624	11/5/13	11/5/13 15:55	LBD
Chloroform	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:55	LBD
Chloromethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:55	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:55	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:55	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:55	LBD
1,2-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:55	LBD
1,1-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:55	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:55	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:55	LBD
1,2-Dichloropropane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:55	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:55	LBD
trans-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:55	LBD
Ethylbenzene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:55	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:55	LBD
Methylene Chloride	ND	5.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:55	LBD
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:55	LBD
Tetrachloroethylene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:55	LBD
Toluene	ND	1.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:55	LBD
1,1,1-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:55	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:55	LBD
Trichloroethylene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:55	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:55	LBD
Vinyl Chloride	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:55	LBD
m+p Xylene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:55	LBD
o-Xylene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 15:55	LBD
<b>Surrogates</b>		% Recovery	Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		105	70-130						11/5/13 15:55
Toluene-d8		97.5	70-130						11/5/13 15:55
4-Bromofluorobenzene		95.3	70-130						11/5/13 15:55

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Gladding Cordage

Sample Description:

Work Order: 13J1242

Date Received: 10/31/2013

**Field Sample #:** Trip Blank

Sampled: 10/29/2013 00:00

**Sample ID:** 13J1242-26

Sample Matrix: Trip Blank Water

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:24	LBD
Bromodichloromethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:24	LBD
Bromoform	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:24	LBD
Bromomethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:24	LBD
Carbon Tetrachloride	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:24	LBD
Chlorobenzene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:24	LBD
Chlorodibromomethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:24	LBD
Chloroethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:24	LBD
2-Chloroethyl Vinyl Ether	ND	10	µg/L	1		EPA 624	11/5/13	11/5/13 14:24	LBD
Chloroform	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:24	LBD
Chloromethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:24	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:24	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:24	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:24	LBD
1,2-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:24	LBD
1,1-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:24	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:24	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:24	LBD
1,2-Dichloropropane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:24	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:24	LBD
trans-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:24	LBD
Ethylbenzene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:24	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:24	LBD
Methylene Chloride	ND	5.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:24	LBD
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:24	LBD
Tetrachloroethylene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:24	LBD
Toluene	ND	1.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:24	LBD
1,1,1-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:24	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:24	LBD
Trichloroethylene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:24	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:24	LBD
Vinyl Chloride	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:24	LBD
m+p Xylene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:24	LBD
o-Xylene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:24	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	106	70-130		11/5/13 14:24
Toluene-d8	96.6	70-130		11/5/13 14:24
4-Bromofluorobenzene	96.4	70-130		11/5/13 14:24

Project Location: Gladding Cordage

Sample Description:

Work Order: 13J1242

Date Received: 10/31/2013

**Field Sample #:** FB

Sampled: 10/29/2013 12:00

**Sample ID:** 13J1242-27

**Sample Matrix:** Field Blank

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:54	LBD
Bromodichloromethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:54	LBD
Bromoform	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:54	LBD
Bromomethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:54	LBD
Carbon Tetrachloride	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:54	LBD
Chlorobenzene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:54	LBD
Chlorodibromomethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:54	LBD
Chloroethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:54	LBD
2-Chloroethyl Vinyl Ether	ND	10	µg/L	1		EPA 624	11/5/13	11/5/13 14:54	LBD
Chloroform	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:54	LBD
Chloromethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:54	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:54	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:54	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:54	LBD
1,2-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:54	LBD
1,1-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:54	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:54	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:54	LBD
1,2-Dichloropropane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:54	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:54	LBD
trans-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:54	LBD
Ethylbenzene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:54	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:54	LBD
Methylene Chloride	ND	5.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:54	LBD
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:54	LBD
Tetrachloroethylene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:54	LBD
Toluene	ND	1.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:54	LBD
1,1,1-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:54	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:54	LBD
Trichloroethylene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:54	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:54	LBD
Vinyl Chloride	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:54	LBD
m+p Xylene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:54	LBD
o-Xylene	ND	2.0	µg/L	1		EPA 624	11/5/13	11/5/13 14:54	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	106	70-130		11/5/13 14:54
Toluene-d8	97.9	70-130		11/5/13 14:54
4-Bromofluorobenzene	95.3	70-130		11/5/13 14:54

**Sample Extraction Data**
**Prep Method: SW-846 5030B-EPA 624**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13J1242-01 [TW-3S]	B084174	5	5.00	11/04/13
13J1242-02 [TW-3I]	B084174	5	5.00	11/04/13
13J1242-03 [TW-3D]	B084174	5	5.00	11/04/13
13J1242-04 [TW-5S]	B084174	5	5.00	11/04/13
13J1242-05 [TW-5I]	B084174	5	5.00	11/04/13
13J1242-06 [TW-5D]	B084174	5	5.00	11/04/13
13J1242-07 [TW-7S]	B084174	5	5.00	11/04/13
13J1242-08 [TW-7I]	B084174	5	5.00	11/04/13
13J1242-09 [TW-7D]	B084174	5	5.00	11/04/13
13J1242-10 [TW-9I]	B084174	5	5.00	11/04/13
13J1242-11 [TW-9D]	B084174	5	5.00	11/04/13
13J1242-12 [TW-6S]	B084174	5	5.00	11/04/13
13J1242-13 [TW-6I]	B084174	5	5.00	11/04/13
13J1242-14 [TW-6D]	B084174	5	5.00	11/04/13
13J1242-15 [TW-4I]	B084174	5	5.00	11/04/13
13J1242-16 [TW-14S]	B084174	5	5.00	11/04/13
13J1242-17 [TW-14I]	B084174	5	5.00	11/04/13
13J1242-18 [TW-14D]	B084174	5	5.00	11/04/13
13J1242-19 [TW-15]	B084174	5	5.00	11/04/13
13J1242-20 [TW-X]	B084174	5	5.00	11/04/13

**Prep Method: SW-846 5030B-EPA 624**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13J1242-21 [RW-1]	B084319	5	5.00	11/04/13
13J1242-22 [RW-2]	B084319	5	5.00	11/04/13
13J1242-23 [EFF46HZ]	B084319	5	5.00	11/04/13

**Prep Method: SW-846 5030B-EPA 624**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13J1242-24 [TW-12I]	B084393	5	5.00	11/05/13
13J1242-25 [TW-12D]	B084393	5	5.00	11/05/13
13J1242-26 [Trip Blank]	B084393	5	5.00	11/05/13
13J1242-27 [FB]	B084393	5	5.00	11/05/13

**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	---------	-------------

**Batch B084174 - SW-846 5030B**
**Blank (B084174-BLK1)**

Prepared: 11/04/13 Analyzed: 11/05/13

Benzene	ND	1.0	µg/L						
Bromodichloromethane	ND	2.0	µg/L						
Bromoform	ND	2.0	µg/L						
Bromomethane	ND	2.0	µg/L						
Carbon Tetrachloride	ND	2.0	µg/L						
Chlorobenzene	ND	2.0	µg/L						
Chlorodibromomethane	ND	2.0	µg/L						
Chloroethane	ND	2.0	µg/L						
2-Chloroethyl Vinyl Ether	ND	10	µg/L						
Chloroform	ND	2.0	µg/L						
Chloromethane	ND	2.0	µg/L						
1,2-Dichlorobenzene	ND	2.0	µg/L						
1,3-Dichlorobenzene	ND	2.0	µg/L						
1,4-Dichlorobenzene	ND	2.0	µg/L						
1,2-Dichloroethane	ND	2.0	µg/L						
1,1-Dichloroethane	ND	2.0	µg/L						
1,1-Dichloroethylene	ND	2.0	µg/L						
trans-1,2-Dichloroethylene	ND	2.0	µg/L						
1,2-Dichloropropane	ND	2.0	µg/L						
cis-1,3-Dichloropropene	ND	2.0	µg/L						
trans-1,3-Dichloropropene	ND	2.0	µg/L						
Ethylbenzene	ND	2.0	µg/L						
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L						
Methylene Chloride	ND	5.0	µg/L						
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L						
Tetrachloroethylene	ND	2.0	µg/L						
Toluene	ND	1.0	µg/L						
1,1,1-Trichloroethane	ND	2.0	µg/L						
1,1,2-Trichloroethane	ND	2.0	µg/L						
Trichloroethylene	ND	2.0	µg/L						
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L						
Vinyl Chloride	ND	2.0	µg/L						
m+p Xylene	ND	2.0	µg/L						
o-Xylene	ND	2.0	µg/L						
Surrogate: 1,2-Dichloroethane-d4	26.6		µg/L	25.0		106	70-130		
Surrogate: Toluene-d8	24.3		µg/L	25.0		97.2	70-130		
Surrogate: 4-Bromofluorobenzene	24.3		µg/L	25.0		97.2	70-130		

**LCS (B084174-BS1)**

Prepared: 11/04/13 Analyzed: 11/05/13

Benzene	11.5	1.0	µg/L	10.0		115	37-151
Bromodichloromethane	12.8	2.0	µg/L	10.0		128	35-155
Bromoform	10.7	2.0	µg/L	10.0		107	45-169
Bromomethane	10.2	2.0	µg/L	10.0		102	20-242
Carbon Tetrachloride	13.5	2.0	µg/L	10.0		135	70-140
Chlorobenzene	10.9	2.0	µg/L	10.0		109	37-160
Chlorodibromomethane	12.8	2.0	µg/L	10.0		128	53-149
Chloroethane	12.7	2.0	µg/L	10.0		127	70-130
2-Chloroethyl Vinyl Ether	122	10	µg/L	100		122	10-305
Chloroform	12.4	2.0	µg/L	10.0		124	51-138
Chloromethane	11.6	2.0	µg/L	10.0		116	20-273
1,2-Dichlorobenzene	11.3	2.0	µg/L	10.0		113	18-190
1,3-Dichlorobenzene	11.8	2.0	µg/L	10.0		118	59-156

**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	---------	-------------

**Batch B084174 - SW-846 5030B**

<b>LCS (B084174-BS1)</b>					Prepared: 11/04/13 Analyzed: 11/05/13				
1,4-Dichlorobenzene	11.1	2.0	µg/L	10.0	111	18-190			
1,2-Dichloroethane	12.3	2.0	µg/L	10.0	123	49-155			
1,1-Dichloroethane	12.9	2.0	µg/L	10.0	129	59-155			
1,1-Dichloroethylene	13.7	2.0	µg/L	10.0	137	20-234			
trans-1,2-Dichloroethylene	12.3	2.0	µg/L	10.0	123	54-156			
1,2-Dichloropropane	12.0	2.0	µg/L	10.0	120	20-210			
cis-1,3-Dichloropropene	12.8	2.0	µg/L	10.0	128	20-227			
trans-1,3-Dichloropropene	13.8	2.0	µg/L	10.0	138	17-183			
Ethylbenzene	12.2	2.0	µg/L	10.0	122	37-162			
Methyl tert-Butyl Ether (MTBE)	10.9	2.0	µg/L	10.0	109	70-130			
Methylene Chloride	11.2	5.0	µg/L	10.0	112	50-221			
1,1,2,2-Tetrachloroethane	10.5	2.0	µg/L	10.0	105	46-157			
Tetrachloroethylene	12.8	2.0	µg/L	10.0	128	64-148			
Toluene	11.9	1.0	µg/L	10.0	119	47-150			
1,1,1-Trichloroethane	13.7	2.0	µg/L	10.0	137	52-162			
1,1,2-Trichloroethane	11.6	2.0	µg/L	10.0	116	52-150			
Trichloroethylene	12.4	2.0	µg/L	10.0	124	71-157			
Trichlorofluoromethane (Freon 11)	13.6	2.0	µg/L	10.0	136	17-181			
Vinyl Chloride	12.6	2.0	µg/L	10.0	126	20-251			
m+p Xylene	24.6	2.0	µg/L	20.0	123	70-130			
o-Xylene	12.7	2.0	µg/L	10.0	127	70-130			
Surrogate: 1,2-Dichloroethane-d4	25.7		µg/L	25.0	103	70-130			
Surrogate: Toluene-d8	25.4		µg/L	25.0	102	70-130			
Surrogate: 4-Bromofluorobenzene	25.7		µg/L	25.0	103	70-130			

<b>Matrix Spike (B084174-MS1)</b>		<b>Source: 13J1242-20</b>		Prepared: 11/04/13 Analyzed: 11/06/13					
Benzene	11.8	1.0	µg/L	10.0	0.240	116	37-151		
Bromodichloromethane	13.5	2.0	µg/L	10.0	ND	135	35-155		
Bromoform	10.8	2.0	µg/L	10.0	ND	108	45-169		
Bromomethane	13.2	2.0	µg/L	10.0	ND	132	20-242		
<b>Carbon Tetrachloride</b>	14.5	2.0	µg/L	10.0	ND	<b>145</b>	*	70-140	MS-11
Chlorobenzene	10.9	2.0	µg/L	10.0	ND	109	37-160		
Chlorodibromomethane	12.8	2.0	µg/L	10.0	ND	128	53-149		
Chloroethane	12.0	2.0	µg/L	10.0	ND	120	70-130		
<b>2-Chloroethyl Vinyl Ether</b>	ND	10	µg/L	100	ND	*	10-305		MS-01
Chloroform	12.6	2.0	µg/L	10.0	ND	126	51-138		
Chloromethane	10.5	2.0	µg/L	10.0	ND	105	20-273		
1,2-Dichlorobenzene	11.2	2.0	µg/L	10.0	ND	112	18-190		
1,3-Dichlorobenzene	11.2	2.0	µg/L	10.0	ND	112	59-156		
1,4-Dichlorobenzene	10.8	2.0	µg/L	10.0	ND	108	18-190		
1,2-Dichloroethane	12.8	2.0	µg/L	10.0	ND	128	49-155		
1,1-Dichloroethane	13.5	2.0	µg/L	10.0	0.610	129	59-155		
1,1-Dichloroethylene	13.2	2.0	µg/L	10.0	ND	132	20-234		
trans-1,2-Dichloroethylene	12.4	2.0	µg/L	10.0	ND	124	54-156		
1,2-Dichloropropane	12.1	2.0	µg/L	10.0	ND	121	20-210		
cis-1,3-Dichloropropene	11.6	2.0	µg/L	10.0	ND	116	20-227		
trans-1,3-Dichloropropene	13.4	2.0	µg/L	10.0	ND	134	17-183		
Ethylbenzene	12.3	2.0	µg/L	10.0	ND	123	37-162		
Methyl tert-Butyl Ether (MTBE)	11.0	2.0	µg/L	10.0	ND	110	70-130		
Methylene Chloride	10.7	5.0	µg/L	10.0	ND	107	50-221		
1,1,2,2-Tetrachloroethane	11.0	2.0	µg/L	10.0	ND	110	46-157		
Tetrachloroethylene	13.2	2.0	µg/L	10.0	ND	132	64-148		

**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	---------	-------------

**Batch B084174 - SW-846 5030B**

Matrix Spike (B084174-MS1)	Source: 13J1242-20			Prepared: 11/04/13 Analyzed: 11/06/13				
Toluene	12.2	1.0	µg/L	10.0	ND	122	47-150	
<b>1,1,1-Trichloroethane</b>	24.0	2.0	µg/L	10.0	5.13	<b>189</b> *	52-162	MS-11
1,1,2-Trichloroethane	12.2	2.0	µg/L	10.0	ND	122	52-150	
Trichloroethylene	13.2	2.0	µg/L	10.0	ND	132	71-157	
Trichlorofluoromethane (Freon 11)	12.9	2.0	µg/L	10.0	ND	129	17-181	
Vinyl Chloride	11.2	2.0	µg/L	10.0	ND	112	20-251	
m+p Xylene	24.8	2.0	µg/L	20.0	ND	124	70-130	
o-Xylene	12.4	2.0	µg/L	10.0	ND	124	70-130	
Surrogate: 1,2-Dichloroethane-d4	25.8		µg/L	25.0	103	70-130		
Surrogate: Toluene-d8	25.3		µg/L	25.0	101	70-130		
Surrogate: 4-Bromofluorobenzene	25.6		µg/L	25.0	103	70-130		

**Batch B084319 - SW-846 5030B**

Blank (B084319-BLK1)	Prepared & Analyzed: 11/04/13						
Benzene	ND	1.0	µg/L				
Bromodichloromethane	ND	2.0	µg/L				
Bromoform	ND	2.0	µg/L				
Bromomethane	ND	2.0	µg/L				
Carbon Tetrachloride	ND	2.0	µg/L				
Chlorobenzene	ND	2.0	µg/L				
Chlorodibromomethane	ND	2.0	µg/L				
Chloroethane	ND	2.0	µg/L				
2-Chloroethyl Vinyl Ether	ND	10	µg/L				
Chloroform	ND	2.0	µg/L				
Chloromethane	ND	2.0	µg/L				
1,2-Dichlorobenzene	ND	2.0	µg/L				
1,3-Dichlorobenzene	ND	2.0	µg/L				
1,4-Dichlorobenzene	ND	2.0	µg/L				
1,2-Dichloroethane	ND	2.0	µg/L				
1,1-Dichloroethane	ND	2.0	µg/L				
1,1-Dichloroethylene	ND	2.0	µg/L				
trans-1,2-Dichloroethylene	ND	2.0	µg/L				
1,2-Dichloropropane	ND	2.0	µg/L				
cis-1,3-Dichloropropene	ND	2.0	µg/L				
trans-1,3-Dichloropropene	ND	2.0	µg/L				
Ethylbenzene	ND	2.0	µg/L				
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L				
Methylene Chloride	ND	5.0	µg/L				
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L				
Tetrachloroethylene	ND	2.0	µg/L				
Toluene	ND	1.0	µg/L				
1,1,1-Trichloroethane	ND	2.0	µg/L				
1,1,2-Trichloroethane	ND	2.0	µg/L				
Trichloroethylene	ND	2.0	µg/L				
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L				
Vinyl Chloride	ND	2.0	µg/L				
m+p Xylene	ND	2.0	µg/L				
o-Xylene	ND	2.0	µg/L				
Surrogate: 1,2-Dichloroethane-d4	22.1		µg/L	25.0	88.3	70-130	
Surrogate: Toluene-d8	24.1		µg/L	25.0	96.4	70-130	
Surrogate: 4-Bromofluorobenzene	23.8		µg/L	25.0	95.4	70-130	

**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	---------	-------------

**Batch B084319 - SW-846 5030B**

<b>LCS (B084319-BS1)</b>	Prepared & Analyzed: 11/04/13						
Benzene	11.0	1.0	µg/L	10.0	110	37-151	
Bromodichloromethane	11.1	2.0	µg/L	10.0	111	35-155	
Bromoform	10.7	2.0	µg/L	10.0	107	45-169	
Bromomethane	18.6	2.0	µg/L	10.0	186	20-242	
Carbon Tetrachloride	11.4	2.0	µg/L	10.0	114	70-140	
Chlorobenzene	10.8	2.0	µg/L	10.0	108	37-160	
Chlorodibromomethane	11.1	2.0	µg/L	10.0	111	53-149	
Chloroethane	11.8	2.0	µg/L	10.0	118	70-130	
2-Chloroethyl Vinyl Ether	117	10	µg/L	100	117	10-305	
Chloroform	10.4	2.0	µg/L	10.0	104	51-138	
Chloromethane	10.2	2.0	µg/L	10.0	102	20-273	
1,2-Dichlorobenzene	10.7	2.0	µg/L	10.0	107	18-190	
1,3-Dichlorobenzene	11.3	2.0	µg/L	10.0	113	59-156	
1,4-Dichlorobenzene	10.5	2.0	µg/L	10.0	105	18-190	
1,2-Dichloroethane	9.15	2.0	µg/L	10.0	91.5	49-155	
1,1-Dichloroethane	11.4	2.0	µg/L	10.0	114	59-155	
1,1-Dichloroethylene	11.4	2.0	µg/L	10.0	114	20-234	
trans-1,2-Dichloroethylene	10.9	2.0	µg/L	10.0	109	54-156	
1,2-Dichloropropane	11.3	2.0	µg/L	10.0	113	20-210	
cis-1,3-Dichloropropene	12.6	2.0	µg/L	10.0	126	20-227	
trans-1,3-Dichloropropene	13.4	2.0	µg/L	10.0	134	17-183	
Ethylbenzene	11.9	2.0	µg/L	10.0	119	37-162	
Methyl tert-Butyl Ether (MTBE)	10.7	2.0	µg/L	10.0	107	70-130	
Methylene Chloride	10.4	5.0	µg/L	10.0	104	50-221	
1,1,2,2-Tetrachloroethane	10.8	2.0	µg/L	10.0	108	46-157	
Tetrachloroethylene	11.6	2.0	µg/L	10.0	116	64-148	
Toluene	10.8	1.0	µg/L	10.0	108	47-150	
1,1,1-Trichloroethane	11.3	2.0	µg/L	10.0	113	52-162	
1,1,2-Trichloroethane	10.8	2.0	µg/L	10.0	108	52-150	
Trichloroethylene	11.2	2.0	µg/L	10.0	112	71-157	
Trichlorofluoromethane (Freon 11)	9.91	2.0	µg/L	10.0	99.1	17-181	
Vinyl Chloride	10.9	2.0	µg/L	10.0	109	20-251	
m+p Xylene	23.2	2.0	µg/L	20.0	116	70-130	
o-Xylene	11.9	2.0	µg/L	10.0	119	70-130	
Surrogate: 1,2-Dichloroethane-d4	21.0		µg/L	25.0	83.9	70-130	
Surrogate: Toluene-d8	24.3		µg/L	25.0	97.1	70-130	
Surrogate: 4-Bromofluorobenzene	25.4		µg/L	25.0	102	70-130	

**Batch B084393 - SW-846 5030B**

<b>Blank (B084393-BLK1)</b>	Prepared: 11/04/13 Analyzed: 11/05/13						
Benzene	ND	1.0	µg/L				
Bromodichloromethane	ND	2.0	µg/L				
Bromoform	ND	2.0	µg/L				
Bromomethane	ND	2.0	µg/L				
Carbon Tetrachloride	ND	2.0	µg/L				
Chlorobenzene	ND	2.0	µg/L				
Chlorodibromomethane	ND	2.0	µg/L				
Chloroethane	ND	2.0	µg/L				
2-Chloroethyl Vinyl Ether	ND	10	µg/L				
Chloroform	ND	2.0	µg/L				
Chloromethane	ND	2.0	µg/L				
1,2-Dichlorobenzene	ND	2.0	µg/L				

**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B084393 - SW-846 5030B**

<b>Blank (B084393-BLK1)</b>					Prepared: 11/04/13	Analyzed: 11/05/13
1,3-Dichlorobenzene	ND	2.0	µg/L			
1,4-Dichlorobenzene	ND	2.0	µg/L			
1,2-Dichloroethane	ND	2.0	µg/L			
1,1-Dichloroethane	ND	2.0	µg/L			
1,1-Dichloroethylene	ND	2.0	µg/L			
trans-1,2-Dichloroethylene	ND	2.0	µg/L			
1,2-Dichloropropane	ND	2.0	µg/L			
cis-1,3-Dichloropropene	ND	2.0	µg/L			
trans-1,3-Dichloropropene	ND	2.0	µg/L			
Ethylbenzene	ND	2.0	µg/L			
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L			
Methylene Chloride	ND	5.0	µg/L			
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L			
Tetrachloroethylene	ND	2.0	µg/L			
Toluene	ND	1.0	µg/L			
1,1,1-Trichloroethane	ND	2.0	µg/L			
1,1,2-Trichloroethane	ND	2.0	µg/L			
Trichloroethylene	ND	2.0	µg/L			
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L			
Vinyl Chloride	ND	2.0	µg/L			
m+p Xylene	ND	2.0	µg/L			
o-Xylene	ND	2.0	µg/L			
Surrogate: 1,2-Dichloroethane-d4	25.4		µg/L	25.0	101	70-130
Surrogate: Toluene-d8	24.2		µg/L	25.0	96.7	70-130
Surrogate: 4-Bromofluorobenzene	23.7		µg/L	25.0	94.8	70-130

<b>LCS (B084393-BS1)</b>					Prepared: 11/04/13	Analyzed: 11/05/13
Benzene	11.2	1.0	µg/L	10.0	112	37-151
Bromodichloromethane	11.8	2.0	µg/L	10.0	118	35-155
Bromoform	9.85	2.0	µg/L	10.0	98.5	45-169
Bromomethane	13.4	2.0	µg/L	10.0	134	20-242
Carbon Tetrachloride	12.3	2.0	µg/L	10.0	123	70-140
Chlorobenzene	10.5	2.0	µg/L	10.0	105	37-160
Chlorodibromomethane	11.3	2.0	µg/L	10.0	113	53-149
Chloroethane	11.8	2.0	µg/L	10.0	118	70-130
2-Chloroethyl Vinyl Ether	117	10	µg/L	100	117	10-305
Chloroform	11.2	2.0	µg/L	10.0	112	51-138
Chloromethane	10.3	2.0	µg/L	10.0	103	20-273
1,2-Dichlorobenzene	11.0	2.0	µg/L	10.0	110	18-190
1,3-Dichlorobenzene	11.1	2.0	µg/L	10.0	111	59-156
1,4-Dichlorobenzene	10.5	2.0	µg/L	10.0	105	18-190
1,2-Dichloroethane	11.3	2.0	µg/L	10.0	113	49-155
1,1-Dichloroethane	11.0	2.0	µg/L	10.0	110	59-155
1,1-Dichloroethylene	12.3	2.0	µg/L	10.0	123	20-234
trans-1,2-Dichloroethylene	10.3	2.0	µg/L	10.0	103	54-156
1,2-Dichloropropane	11.2	2.0	µg/L	10.0	112	20-210
cis-1,3-Dichloropropene	11.6	2.0	µg/L	10.0	116	20-227
trans-1,3-Dichloropropene	12.9	2.0	µg/L	10.0	129	17-183
Ethylbenzene	12.3	2.0	µg/L	10.0	123	37-162
Methyl tert-Butyl Ether (MTBE)	10.2	2.0	µg/L	10.0	102	70-130
Methylene Chloride	9.15	5.0	µg/L	10.0	91.5	50-221
1,1,2,2-Tetrachloroethane	10.2	2.0	µg/L	10.0	102	46-157

**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
<b>Batch B084393 - SW-846 5030B</b>									
<b>LCS (B084393-BS1)</b>									
Prepared: 11/04/13 Analyzed: 11/05/13									
Tetrachloroethylene	11.7	2.0	µg/L	10.0	117	64-148			
Toluene	11.7	1.0	µg/L	10.0	117	47-150			
1,1,1-Trichloroethane	11.9	2.0	µg/L	10.0	119	52-162			
1,1,2-Trichloroethane	11.1	2.0	µg/L	10.0	111	52-150			
Trichloroethylene	11.5	2.0	µg/L	10.0	115	71-157			
Trichlorofluoromethane (Freon 11)	11.7	2.0	µg/L	10.0	117	17-181			
Vinyl Chloride	10.9	2.0	µg/L	10.0	109	20-251			
m+p Xylene	24.4	2.0	µg/L	20.0	122	70-130			
o-Xylene	12.6	2.0	µg/L	10.0	126	70-130			
Surrogate: 1,2-Dichloroethane-d4	24.6		µg/L	25.0	98.2	70-130			
Surrogate: Toluene-d8	25.3		µg/L	25.0	101	70-130			
Surrogate: 4-Bromofluorobenzene	25.2		µg/L	25.0	101	70-130			
<b>Matrix Spike (B084393-MS1)</b>									
Source: 13J1242-25 Prepared: 11/04/13 Analyzed: 11/05/13									
Benzene	11.3	1.0	µg/L	10.0	ND	113	37-151		
Bromodichloromethane	12.7	2.0	µg/L	10.0	ND	127	35-155		
Bromoform	10.5	2.0	µg/L	10.0	ND	105	45-169		
Bromomethane	10.2	2.0	µg/L	10.0	ND	102	20-242		
Carbon Tetrachloride	13.6	2.0	µg/L	10.0	ND	136	70-140		
Chlorobenzene	10.9	2.0	µg/L	10.0	ND	109	37-160		
Chlorodibromomethane	12.4	2.0	µg/L	10.0	ND	124	53-149		
Chloroethane	12.5	2.0	µg/L	10.0	ND	125	70-130		
<b>2-Chloroethyl Vinyl Ether</b>	ND	10	µg/L	100	ND	*	10-305	MS-01	
Chloroform	12.2	2.0	µg/L	10.0	ND	122	51-138		
Chloromethane	8.62	2.0	µg/L	10.0	ND	86.2	20-273		
1,2-Dichlorobenzene	11.0	2.0	µg/L	10.0	ND	110	18-190		
1,3-Dichlorobenzene	11.5	2.0	µg/L	10.0	ND	115	59-156		
1,4-Dichlorobenzene	11.2	2.0	µg/L	10.0	ND	112	18-190		
1,2-Dichloroethane	11.8	2.0	µg/L	10.0	ND	118	49-155		
1,1-Dichloroethane	12.3	2.0	µg/L	10.0	ND	123	59-155		
1,1-Dichloroethylene	13.0	2.0	µg/L	10.0	ND	130	20-234		
trans-1,2-Dichloroethylene	12.0	2.0	µg/L	10.0	ND	120	54-156		
1,2-Dichloropropane	11.5	2.0	µg/L	10.0	ND	115	20-210		
cis-1,3-Dichloropropene	11.7	2.0	µg/L	10.0	ND	117	20-227		
trans-1,3-Dichloropropene	13.1	2.0	µg/L	10.0	ND	131	17-183		
Ethylbenzene	12.2	2.0	µg/L	10.0	ND	122	37-162		
Methyl tert-Butyl Ether (MTBE)	10.8	2.0	µg/L	10.0	ND	108	70-130		
Methylene Chloride	10.1	5.0	µg/L	10.0	ND	101	50-221		
1,1,2,2-Tetrachloroethane	10.7	2.0	µg/L	10.0	ND	107	46-157		
Tetrachloroethylene	12.8	2.0	µg/L	10.0	ND	128	64-148		
Toluene	11.7	1.0	µg/L	10.0	ND	117	47-150		
1,1,1-Trichloroethane	13.6	2.0	µg/L	10.0	ND	136	52-162		
1,1,2-Trichloroethane	11.5	2.0	µg/L	10.0	ND	115	52-150		
Trichloroethylene	12.5	2.0	µg/L	10.0	ND	125	71-157		
Trichlorofluoromethane (Freon 11)	12.5	2.0	µg/L	10.0	ND	125	17-181		
Vinyl Chloride	10.8	2.0	µg/L	10.0	ND	108	20-251		
m+p Xylene	24.7	2.0	µg/L	20.0	ND	124	70-130		
o-Xylene	12.4	2.0	µg/L	10.0	ND	124	70-130		
Surrogate: 1,2-Dichloroethane-d4	25.4		µg/L	25.0	102	70-130			
Surrogate: Toluene-d8	25.1		µg/L	25.0	100	70-130			
Surrogate: 4-Bromofluorobenzene	25.4		µg/L	25.0	102	70-130			

**FLAG/QUALIFIER SUMMARY**

\* QC result is outside of established limits.

† Wide recovery limits established for difficult compound.

‡ Wide RPD limits established for difficult compound.

# Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

MS-01 Poor spike recovery may be indicative of sample matrix interferences. Unfortified sample is suspect.

MS-11 Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

**CERTIFICATIONS**
**Certified Analyses included in this Report**

Analyte	Certifications
<b>EPA 624 in Water</b>	
Benzene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Bromodichloromethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Bromoform	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Bromomethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Carbon Tetrachloride	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chlorobenzene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chlorodibromomethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chloroethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
2-Chloroethyl Vinyl Ether	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chloroform	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chloromethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,2-Dichlorobenzene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,3-Dichlorobenzene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,4-Dichlorobenzene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,2-Dichloroethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,1-Dichloroethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,1-Dichloroethylene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
trans-1,2-Dichloroethylene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,2-Dichloropropane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
cis-1,3-Dichloropropene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
trans-1,3-Dichloropropene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Ethylbenzene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Methyl tert-Butyl Ether (MTBE)	NC
Methylene Chloride	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,1,2,2-Tetrachloroethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Tetrachloroethylene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Toluene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,1,1-Trichloroethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,1,2-Trichloroethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Trichloroethylene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Trichlorofluoromethane (Freon 11)	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Vinyl Chloride	CT,MA,NH,NY,RI,NC,ME,VA,NJ
m+p Xylene	CT,MA,NH,NY,RI,NC,VA,NJ
o-Xylene	CT,MA,NH,NY,RI,NC,VA,NJ

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Public Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014

# CHAIN OF CUSTODY RECORD

39 Spruce Street  
East Longmeadow, MA 01028

Page 1 of 3

Company Name: <b>ARCH DES</b>		Telephone: <b>518-250-7300</b>		Project #: <b>022664D6.0000</b>	
Address: <b>255 RT 146, STE 210</b>				ANALYSIS REQUESTED	
Attention: <b>Jeremy Wickett</b>					
Sampled By: <b>J. Wickett</b>					
Project Proposal Provided? (for billing purposes) <input type="radio"/> Yes _____ proposal date					
Con-Test Lab ID <small>(please use only)</small>	Client Sample ID / Description	Collection			
		Beginning Date/Time	Ending Date/Time	Composite	Grab
O1	TW-35	10/29/13	0945	X	GW M
O2	TW-3 I		0950		
O3	TW-3 D		0955		
O4	TW-5 S		1010		
O5	TW-5 I		1015		
O6	TW-5 D		1020		
O7	TW-7 S		1030		
O8	TW-7 I		1035		
O9	TW-7 D		1040		
O10	TW-9 I		1045		
Comments:					
<p>Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:</p> <p>H - High; M - Medium; L - Low; C - Clean; U - Unknown</p>					
Relinquished by: (signature) <i>Paula Wickett</i>		Date/Time: <b>10/29/13</b>	Turnaround <sup>†</sup>	Detection Limit Requirements	
Received by: (signature) <i>Paula Wickett</i>		Date/Time: <b>10/29/13</b>	<input type="checkbox"/> 7-Day <input type="checkbox"/> 10-Day <input type="checkbox"/> Other _____ <b>RUSH</b> <sup>†</sup>	<input type="radio"/> MCP Form Required <input type="radio"/> RCP Form Required <input type="radio"/> MA State DW Form Required PWSID # _____	
Relinquished by: (signature)		Date/Time:	<input type="checkbox"/> t24-Hr <input type="checkbox"/> t48-Hr <input type="checkbox"/> t72-Hr <input type="checkbox"/> t4-Day	<b>Matrix Code:</b> <b>GW</b> = groundwater <b>WW</b> = wastewater <b>A</b> = air <b>SL</b> = sludge <b>S</b> = soil/solid <b>L</b> = low level <b>Other:</b> <b>NYS ASP CAT 3</b>	
Received by: (signature)		Date/Time:	<b>Require lab approval</b> <input type="checkbox"/> Other: _____		

<sup>†</sup> TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

Company Name: ALCADIS

Telephone: 518-250-7300  
Email: info@contestlabs.com  
www.contestlabs.com

Address: 855 Route 146, Ste 210

Project #: 00266406,0000

Attention: Jeremy Wierschke

Client PO#

Project Location: South Gladding Cemetery

DATA DELIVERY (check all that apply)

Sampled By: J. Wierschke

O FAX  EMAIL  WEBSITEProject Proposal Provided? (for billing purposes)  
 yes  proposal dateEmail: jerry.wierschke@alcadis.com  
Format:  PDF  EXCEL  OGIS  
 OTHER: 1/25/2013

634

"Enhanced Data Package"

ANALYSIS REQUESTED

634

3  
A  
V  
# of Containers  
\*\* Preservation  
\*\*\* Container CodeDissolved Metal  
O Field Filtered  
O Lab to Filter\*\*\* Cont. Code:  
A=Amber glass  
G=glass  
P=plastic  
ST=sterile  
V=vial  
S=summary can  
T=tether bag  
O=Other\*\*\* Preservative:  
I=Ice  
H=HCl  
M=Methanol  
N=Nitric Acid  
S=Sulfuric Acid  
B=Sodium bisulfite  
X=Na hydroxide  
T=Na thiosulfate  
O=Other

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Code	Matrix	Lab Code
11	TW-9D	10/23/13	1050	X	✓	In		X
12	TW-6I		1105					
13	TW-6D		1110					
14	TW-6I		1115					
15	TW-4I		1120					
16	TW-14S		1130					
17	TW-14D		1135					
18	TW-14D		1140					
19	TW-15		1150					
20	TW-X			✓	✓			

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)

Date/Time:

10/25/13

10:00

AM

EST

2013

Year

Month

Day

Year

Hour

Minute

Second

AM/PM

Timezone

Offset

DST

DST

Turnaround

7-Day

10-Day

Other

RUSH<sup>†</sup>

24-Hr

48-Hr

72-Hr

4-Day

Detection Limit Requirements

Massachusetts

Connecticut

Low Level

Other: NYS ASP CAT B

Relinquished by: (signature)

Date/Time:

10/31/13

10:00

AM

EST

2013

Year

Month

Day

Year

Hour

Minute

Second

AM/PM

Timezone

Offset

DST

DST

Is your project MCP or RCP?

MCP Form Required

RCP Form Required

MA State DW Form Required

PWSID #

Accredited

WBE/DBE Certified

Other

SL = soil/solid

DW = drinking water

A = air

GW = groundwater

WW = wastewater

S = soil/solid

SL = sludge

O = other

Received by: (signature)

Date/Time:

10/31/13

10:00

AM

EST

2013

Year

Month

Day

Year

Hour

Minute

Second

AM/PM

Timezone

Offset

DST

DST

Received by: (signature)

Date/Time:

10/31/13

10:00

AM

EST

2013

Year

Month

Day

Year

Hour

Minute

Second

AM/PM

Timezone

Offset

DST

DST

Received by: (signature)

Date/Time:

10/31/13

10:00

AM

EST

2013

Year

Month

Day

Year

Hour

Minute

Second

AM/PM

Timezone

Offset

DST

DST

Received by: (signature)

Date/Time:

10/31/13

10:00

AM

EST

2013

Year

Month

Day

Year

Hour

Minute

Second

AM/PM

Timezone

Offset

DST

DST

Received by: (signature)

Date/Time:

10/31/13

10:00

AM

EST

2013

Year

Month

Day

Year

Hour

Minute

Second

AM/PM

Timezone

Offset

DST

DST

Received by: (signature)

Date/Time:

10/31/13

10:00

AM

EST

2013

Year

Month

Day

Year

Hour

Minute

Second

AM/PM

Timezone

Offset

DST

DST

Received by: (signature)

Date/Time:

10/31/13

10:00

AM

EST

2013

Year

Month

Day

Year

Hour

Minute

Second

AM/PM

Timezone

Offset

DST

DST

Received by: (signature)

Date/Time:

10/31/13

10:00

AM

EST

2013

Year

Month

Day

Year

Hour

Minute

Second

AM/PM

Timezone

Offset

DST

DST

Received by: (signature)

Date/Time:

10/31/13

10:00

AM

EST

2013

Year

Month

Day

Year

Hour

Minute

Second

AM/PM

Timezone

Offset

DST

DST

Received by: (signature)

Date/Time:

10/31/13

10:00

AM

EST

2013

Year

Month

Day

Year

Hour

Minute

Second

AM/PM

Timezone

Offset

DST

DST

Received by: (signature)

Date/Time:

10/31/13

10:00

AM

EST

2013

Year

Month

Day

Year

Hour

Minute

Second

AM/PM

Timezone

Offset

DST

DST

Received by: (signature)

Date/Time:

10/31/13

10:00

AM



**con-test**<sup>®</sup> Phone: 413-525-2332  
Fax: 413-525-6405 Email: info@contestit.com

## **CHAIN OF CUSTODY RECORD**

39 Spruce Street  
East Longmeadow, MA 01028

Page 3 of 3

**IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.**

**PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT.**



803539086824

Ship (P/U) date  
Wed 10/30/2013 5:58 pm

CLIFTON PARK, NY US

Delivered

Signed for by P BLAKE

Actual delivery:  
Thur 10/31/2013 9:45 am

MA US

## Travel History

▲ Date/Time	Activity	Location
- 10/31/2013 - Thursday		
9:45 am	Delivered	MA
7:55 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
7:15 am	At local FedEx facility	WINDSOR LOCKS, CT
6:39 am	At destination sort facility	EAST GRANBY, CT
3:35 am	Departed FedEx location	NEWARK, NJ
12:15 am	Arrived at FedEx location	NEWARK, NJ
- 10/30/2013 - Wednesday		
9:00 pm	Left FedEx origin facility	MENANDS, NY
5:58 pm	Picked up	MENANDS, NY

Local Scan Time

## Shipment Facts

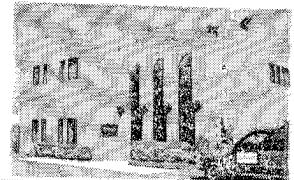
Tracking number	803539086824	Service	FedEx Priority Overnight
Weight	34 lbs	Delivered To	Shipping/Receiving
Total pieces	1	Total shipment weight	34 lbs / 15.4 kgs
Shipper reference	00266466 0000	Packaging	Your Packaging
Special handling section	Deliver Weekday		

39 Spruce St.  
East Longmeadow, MA. 01028  
P: 413-525-2332  
F: 413-525-6405  
www.contestlabs.com



Page 1 of 2

## Sample Receipt Checklist



CLIENT NAME: Arcadis

RECEIVED BY: PR

DATE: 10/31/13

1) Was the chain(s) of custody relinquished and signed?

Yes     No    No CoC Included

2) Does the chain agree with the samples?

Yes     No

If not, explain:

3) Are all the samples in good condition?

Yes     No

If not, explain:

4) How were the samples received:

On Ice  Direct from Sampling  Ambient  In Cooler(s)

Were the samples received in Temperature Compliance of (2-6°C)?

Yes     No    N/A

Temperature °C by Temp blank

2.0

Temperature °C by Temp gun

5) Are there Dissolved samples for the lab to filter?

Yes     No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

6) Are there any RUSH or SHORT HOLDING TIME samples?

Yes     No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

7) Location where samples are stored:

Log rm

Permission to subcontract samples? Yes  No

(Walk-in clients only) if not already approved

Client Signature:

8) Do all samples have the proper Acid pH: Yes  No  N/A

9) Do all samples have the proper Base pH: Yes  No  N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes  No  N/A

### Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below	<u>81</u>	Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl 81

# Methanol \_\_\_\_\_

Time and Date Frozen:

Doc# 277

# Bisulfate \_\_\_\_\_

# DI Water \_\_\_\_\_

Rev. 4 August 2013

# Thiosulfate \_\_\_\_\_

Unprocessed

Page 2 of 2  
**Login Sample Receipt Checklist**  
**(Rejection Criteria Listing - Using Sample Acceptance Policy)**  
**Any False statement will be brought to the attention of Client**

<u>Question</u>	<u>Answer (True/False)</u>	<u>Comment</u>
	T/F/NA	
1) The cooler's custody seal, if present, is intact.	T	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	T	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	T	
21) Samples do not require splitting or compositing.	T	

Doc #277 Rev. 4 August 2013

Who notified of False statements?  
 Log-In Technician Initials: PB

Date/Time:

Date/Time: 10/31/13

December 5, 2013

Jeremy Wyckoff  
Arcadis US, Inc. - Clifton Park-NY  
855 Route 146, Suite 210  
Clifton Park, NY 12065

Project Location: South Otselic, NY  
Client Job Number:  
Project Number: 00266406.0000  
Laboratory Work Order Number: 13K0780

Enclosed are results of analyses for samples received by the laboratory on November 19, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Aaron L. Benoit  
Project Manager

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

REPORT DATE: 12/5/2013

Arcadis US, Inc. - Clifton Park-NY  
855 Route 146, Suite 210  
Clifton Park, NY 12065  
ATTN: Jeremy Wyckoff

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 00266406.0000

#### ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13K0780

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: South Otselic, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
RW-1	13K0780-01	Ground Water		EPA 624	
RW-2	13K0780-02	Ground Water		EPA 624	
Eff 46 HZ	13K0780-03	Ground Water		EPA 624	
Trip Blank	13K0780-04	Trip Blank Water		EPA 624	

**CASE NARRATIVE SUMMARY**

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.  
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Michael A. Erickson  
Laboratory Director

Project Location: South Otselic, NY

Sample Description:

Work Order: 13K0780

Date Received: 11/19/2013

**Field Sample #:** RW-1

Sampled: 11/15/2013 16:40

**Sample ID:** 13K0780-01

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:44	LBD
Bromodichloromethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:44	LBD
Bromoform	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:44	LBD
Bromomethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:44	LBD
Carbon Tetrachloride	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:44	LBD
Chlorobenzene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:44	LBD
Chlorodibromomethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:44	LBD
Chloroethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:44	LBD
2-Chloroethyl Vinyl Ether	ND	10	µg/L	1		EPA 624	11/20/13	11/20/13 23:44	LBD
Chloroform	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:44	LBD
Chloromethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:44	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:44	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:44	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:44	LBD
1,2-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:44	LBD
1,1-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:44	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:44	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:44	LBD
1,2-Dichloropropane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:44	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:44	LBD
trans-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:44	LBD
Ethylbenzene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:44	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:44	LBD
Methylene Chloride	ND	5.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:44	LBD
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:44	LBD
Tetrachloroethylene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:44	LBD
Toluene	ND	1.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:44	LBD
1,1,1-Trichloroethane	40	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:44	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:44	LBD
Trichloroethylene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:44	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:44	LBD
Vinyl Chloride	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:44	LBD
m+p Xylene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:44	LBD
o-Xylene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:44	LBD
<b>Surrogates</b>		% Recovery	Recovery Limits	<b>Flag/Qual</b>					
1,2-Dichloroethane-d4		91.4	70-130						
Toluene-d8		98.0	70-130						
4-Bromofluorobenzene		96.5	70-130						

Project Location: South Otselic, NY

Sample Description:

Work Order: 13K0780

Date Received: 11/19/2013

**Field Sample #:** RW-2

Sampled: 11/15/2013 16:45

**Sample ID:** 13K0780-02

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:15	LBD
Bromodichloromethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:15	LBD
Bromoform	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:15	LBD
Bromomethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:15	LBD
Carbon Tetrachloride	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:15	LBD
Chlorobenzene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:15	LBD
Chlorodibromomethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:15	LBD
Chloroethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:15	LBD
2-Chloroethyl Vinyl Ether	ND	10	µg/L	1		EPA 624	11/20/13	11/21/13 0:15	LBD
Chloroform	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:15	LBD
Chloromethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:15	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:15	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:15	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:15	LBD
1,2-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:15	LBD
1,1-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:15	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:15	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:15	LBD
1,2-Dichloropropane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:15	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:15	LBD
trans-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:15	LBD
Ethylbenzene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:15	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:15	LBD
Methylene Chloride	ND	5.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:15	LBD
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:15	LBD
Tetrachloroethylene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:15	LBD
Toluene	ND	1.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:15	LBD
1,1,1-Trichloroethane	36	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:15	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:15	LBD
Trichloroethylene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:15	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:15	LBD
Vinyl Chloride	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:15	LBD
m+p Xylene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:15	LBD
o-Xylene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:15	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	93.2	70-130	11/21/13 0:15
Toluene-d8	100	70-130	11/21/13 0:15
4-Bromofluorobenzene	95.8	70-130	11/21/13 0:15

Project Location: South Otselic, NY

Sample Description:

Work Order: 13K0780

Date Received: 11/19/2013

**Field Sample #:** Eff 46 HZ

Sampled: 11/15/2013 16:50

**Sample ID:** 13K0780-03

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:46	LBD
Bromodichloromethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:46	LBD
Bromoform	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:46	LBD
Bromomethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:46	LBD
Carbon Tetrachloride	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:46	LBD
Chlorobenzene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:46	LBD
Chlorodibromomethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:46	LBD
Chloroethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:46	LBD
2-Chloroethyl Vinyl Ether	ND	10	µg/L	1		EPA 624	11/20/13	11/21/13 0:46	LBD
Chloroform	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:46	LBD
Chloromethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:46	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:46	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:46	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:46	LBD
1,2-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:46	LBD
1,1-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:46	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:46	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:46	LBD
1,2-Dichloropropane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:46	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:46	LBD
trans-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:46	LBD
Ethylbenzene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:46	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:46	LBD
Methylene Chloride	ND	5.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:46	LBD
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:46	LBD
Tetrachloroethylene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:46	LBD
Toluene	ND	1.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:46	LBD
1,1,1-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:46	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:46	LBD
Trichloroethylene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:46	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:46	LBD
Vinyl Chloride	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:46	LBD
m+p Xylene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:46	LBD
o-Xylene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/21/13 0:46	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	93.4	70-130		11/21/13 0:46
Toluene-d8	97.8	70-130		11/21/13 0:46
4-Bromofluorobenzene	95.6	70-130		11/21/13 0:46

Project Location: South Otselic, NY

Sample Description:

Work Order: 13K0780

Date Received: 11/19/2013

**Field Sample #:** Trip Blank

Sampled: 11/15/2013 00:00

**Sample ID:** 13K0780-04

Sample Matrix: Trip Blank Water

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:13	LBD
Bromodichloromethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:13	LBD
Bromoform	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:13	LBD
Bromomethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:13	LBD
Carbon Tetrachloride	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:13	LBD
Chlorobenzene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:13	LBD
Chlorodibromomethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:13	LBD
Chloroethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:13	LBD
2-Chloroethyl Vinyl Ether	ND	10	µg/L	1		EPA 624	11/20/13	11/20/13 23:13	LBD
Chloroform	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:13	LBD
Chloromethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:13	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:13	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:13	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:13	LBD
1,2-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:13	LBD
1,1-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:13	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:13	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:13	LBD
1,2-Dichloropropane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:13	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:13	LBD
trans-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:13	LBD
Ethylbenzene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:13	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:13	LBD
Methylene Chloride	ND	5.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:13	LBD
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:13	LBD
Tetrachloroethylene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:13	LBD
Toluene	ND	1.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:13	LBD
1,1,1-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:13	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:13	LBD
Trichloroethylene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:13	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:13	LBD
Vinyl Chloride	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:13	LBD
m+p Xylene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:13	LBD
o-Xylene	ND	2.0	µg/L	1		EPA 624	11/20/13	11/20/13 23:13	LBD
<b>Surrogates</b>		% Recovery	Recovery Limits	<b>Flag/Qual</b>					
1,2-Dichloroethane-d4		93.9	70-130						
Toluene-d8		97.6	70-130						
4-Bromofluorobenzene		94.7	70-130						

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

**Sample Extraction Data**

**Prep Method: SW-846 5030B-EPA 624**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13K0780-01 [RW-1]	B085573	5	5.00	11/20/13
13K0780-02 [RW-2]	B085573	5	5.00	11/20/13
13K0780-03 [Eff 46 HZ]	B085573	5	5.00	11/20/13
13K0780-04 [Trip Blank]	B085573	5	5.00	11/20/13

**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	---------	-------------

**Batch B085573 - SW-846 5030B**

<b>Blank (B085573-BLK1)</b>	Prepared & Analyzed: 11/20/13					
Benzene	ND	1.0	µg/L			
Bromodichloromethane	ND	2.0	µg/L			
Bromoform	ND	2.0	µg/L			
Bromomethane	ND	2.0	µg/L			
Carbon Tetrachloride	ND	2.0	µg/L			
Chlorobenzene	ND	2.0	µg/L			
Chlorodibromomethane	ND	2.0	µg/L			
Chloroethane	ND	2.0	µg/L			
2-Chloroethyl Vinyl Ether	ND	10	µg/L			
Chloroform	ND	2.0	µg/L			
Chloromethane	ND	2.0	µg/L			
1,2-Dichlorobenzene	ND	2.0	µg/L			
1,3-Dichlorobenzene	ND	2.0	µg/L			
1,4-Dichlorobenzene	ND	2.0	µg/L			
1,2-Dichloroethane	ND	2.0	µg/L			
1,1-Dichloroethane	ND	2.0	µg/L			
1,1-Dichloroethylene	ND	2.0	µg/L			
trans-1,2-Dichloroethylene	ND	2.0	µg/L			
1,2-Dichloropropane	ND	2.0	µg/L			
cis-1,3-Dichloropropene	ND	2.0	µg/L			
trans-1,3-Dichloropropene	ND	2.0	µg/L			
Ethylbenzene	ND	2.0	µg/L			
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L			
Methylene Chloride	ND	5.0	µg/L			
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L			
Tetrachloroethylene	ND	2.0	µg/L			
Toluene	ND	1.0	µg/L			
1,1,1-Trichloroethane	ND	2.0	µg/L			
1,1,2-Trichloroethane	ND	2.0	µg/L			
Trichloroethylene	ND	2.0	µg/L			
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L			
Vinyl Chloride	ND	2.0	µg/L			
m+p Xylene	ND	2.0	µg/L			
o-Xylene	ND	2.0	µg/L			
Surrogate: 1,2-Dichloroethane-d4	23.8		µg/L	25.0	95.1	70-130
Surrogate: Toluene-d8	24.5		µg/L	25.0	98.0	70-130
Surrogate: 4-Bromofluorobenzene	23.4		µg/L	25.0	93.6	70-130

<b>LCS (B085573-BS1)</b>	Prepared & Analyzed: 11/20/13					
Benzene	10.8	1.0	µg/L	10.0	108	37-151
Bromodichloromethane	10.4	2.0	µg/L	10.0	104	35-155
Bromoform	9.33	2.0	µg/L	10.0	93.3	45-169
Bromomethane	15.7	2.0	µg/L	10.0	157	20-242
Carbon Tetrachloride	10.2	2.0	µg/L	10.0	102	70-140
Chlorobenzene	11.2	2.0	µg/L	10.0	112	37-160
Chlorodibromomethane	9.52	2.0	µg/L	10.0	95.2	53-149
Chloroethane	12.1	2.0	µg/L	10.0	121	70-130
2-Chloroethyl Vinyl Ether	118	10	µg/L	100	118	10-305
Chloroform	11.1	2.0	µg/L	10.0	111	51-138
Chloromethane	12.2	2.0	µg/L	10.0	122	20-273
1,2-Dichlorobenzene	11.5	2.0	µg/L	10.0	115	18-190
1,3-Dichlorobenzene	11.5	2.0	µg/L	10.0	115	59-156

**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B085573 - SW-846 5030B</b>										
<b>LCS (B085573-BS1)</b>										
Prepared & Analyzed: 11/20/13										
1,4-Dichlorobenzene	11.0	2.0	µg/L	10.0	110	18-190				
1,2-Dichloroethane	11.1	2.0	µg/L	10.0	111	49-155				
1,1-Dichloroethane	9.19	2.0	µg/L	10.0	91.9	59-155				
1,1-Dichloroethylene	11.5	2.0	µg/L	10.0	115	20-234				
trans-1,2-Dichloroethylene	9.56	2.0	µg/L	10.0	95.6	54-156				
1,2-Dichloropropane	11.1	2.0	µg/L	10.0	111	20-210				
cis-1,3-Dichloropropene	10.2	2.0	µg/L	10.0	102	20-227				
trans-1,3-Dichloropropene	9.74	2.0	µg/L	10.0	97.4	17-183				
Ethylbenzene	11.5	2.0	µg/L	10.0	115	37-162				
Methyl tert-Butyl Ether (MTBE)	9.77	2.0	µg/L	10.0	97.7	70-130				
Methylene Chloride	8.31	5.0	µg/L	10.0	83.1	50-221				
1,1,2,2-Tetrachloroethane	10.6	2.0	µg/L	10.0	106	46-157				
Tetrachloroethylene	10.9	2.0	µg/L	10.0	109	64-148				
Toluene	11.2	1.0	µg/L	10.0	112	47-150				
1,1,1-Trichloroethane	10.6	2.0	µg/L	10.0	106	52-162				
1,1,2-Trichloroethane	10.8	2.0	µg/L	10.0	108	52-150				
Trichloroethylene	11.0	2.0	µg/L	10.0	110	71-157				
Trichlorofluoromethane (Freon 11)	11.6	2.0	µg/L	10.0	116	17-181				
Vinyl Chloride	12.0	2.0	µg/L	10.0	120	20-251				
m+p Xylene	23.4	2.0	µg/L	20.0	117	70-130				
o-Xylene	11.5	2.0	µg/L	10.0	115	70-130				
Surrogate: 1,2-Dichloroethane-d4	23.6		µg/L	25.0	94.5	70-130				
Surrogate: Toluene-d8	24.8		µg/L	25.0	99.4	70-130				
Surrogate: 4-Bromofluorobenzene	24.9		µg/L	25.0	99.5	70-130				

---

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

**FLAG/QUALIFIER SUMMARY**

- \* QC result is outside of established limits.
- † Wide recovery limits established for difficult compound.
- ‡ Wide RPD limits established for difficult compound.
- # Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

**CERTIFICATIONS**
**Certified Analyses included in this Report**

Analyte	Certifications
<b>EPA 624 in Water</b>	
Benzene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Bromodichloromethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Bromoform	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Bromomethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Carbon Tetrachloride	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chlorobenzene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chlorodibromomethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chloroethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
2-Chloroethyl Vinyl Ether	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chloroform	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chloromethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,2-Dichlorobenzene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,3-Dichlorobenzene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,4-Dichlorobenzene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,2-Dichloroethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,1-Dichloroethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,1-Dichloroethylene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
trans-1,2-Dichloroethylene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,2-Dichloropropane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
cis-1,3-Dichloropropene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
trans-1,3-Dichloropropene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Ethylbenzene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Methyl tert-Butyl Ether (MTBE)	NC
Methylene Chloride	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,1,2,2-Tetrachloroethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Tetrachloroethylene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Toluene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,1,1-Trichloroethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,1,2-Trichloroethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Trichloroethylene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Trichlorofluoromethane (Freon 11)	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Vinyl Chloride	CT,MA,NH,NY,RI,NC,ME,VA,NJ
m+p Xylene	CT,MA,NH,NY,RI,NC,VA,NJ
o-Xylene	CT,MA,NH,NY,RI,NC,VA,NJ

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Public Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014

Bk 0780

Rev 04.05.12

Company Name: ARCAATS

ANALYTICAL LABORATORY

Address: 355 Route 146 STE 210 Telephone: 518-250-7300

Project # 00266406, 0200

Client PO#

DATA DELIVERY (check all that apply)

 FAX  EMAIL  WEBSITE

Email: Jeremy.Wyckoff@arcatts.com

Format:

 PDF  EXCEL  OGIS OTHER [http://www.con-test.com](#) "Enhanced Data Package"

# of Containers

\*\* Preservation

\*\*\* Container Code

Dissolved Metal

 Field Filtered Lab to Filter

\*\*\* Cont. Code:

A = amber glass

G = glass

P = plastic

S = sterile

V = vial

S = summary can

T = Tedlar bag

O = Other

I = Iced

H = HCl

M = Methanol

N = Nitric Acid

S = Sulfuric Acid

B = Sodium bisulfite

X = Na hydroxide

T = Na thiosulfate

O = Other

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Project Location: S. Otseelic, NY  
Sampled By: J. WyckoffProject Proposal Provided? (for billing purposes)  
 Yes  No proposal date

ANALYSIS REQUESTED

DATA DELIVERY (check all that apply)

 FAX  EMAIL  WEBSITE

Email: Jeremy.Wyckoff@arcatts.com

Format:

 PDF  EXCEL  OGIS OTHER [http://www.con-test.com](#) "Enhanced Data Package"

# of Containers

\*\* Preservation

\*\*\* Container Code

Dissolved Metal

 Field Filtered Lab to Filter

\*\*\* Cont. Code:

A = amber glass

G = glass

P = plastic

S = sterile

V = vial

S = summary can

T = Tedlar bag

O = Other

I = Iced

H = HCl

M = Methanol

N = Nitric Acid

S = Sulfuric Acid

B = Sodium bisulfite

X = Na hydroxide

T = Na thiosulfate

O = Other

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)  
Received by: (signature)

Date/Time: 4/18/13

Turnaround  7-Day

10-Day

Other \_\_\_\_\_

RUSH 24-Hr  48-Hr 72-Hr  4-Day Require lab approval 

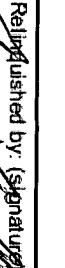
Other: \_\_\_\_\_

Comments: \_\_\_\_\_

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:  
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Detection Limit Requirements

Is your project MCP or RCP?

 MCP Form Required RCP Form Required MA State DW Form Required PWSID # \_\_\_\_\_

NELAC &amp; AIHA-LAP, LLC Accredited WBE/DBE Certified

Received by: (signature)  
Date/Time: 4/19/13

Turnaround Time Starts at 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

Page 14 of 17 13K0780\_1 Contest\_Final 12 05 13 1748 12/05/13 17:49:07



804365039150

Ship (P/U) date :  
Mon 11/18/2013 5:57 pm



CLI US

**Delivered**

Signed for by P BLAKE

Actual delivery :  
Tues 11/19/2013 9:52 am

MA US

## Travel History

### ▲ Date/Time

### Activity

### Location

- 11/19/2013 - Tuesday		
9:52 am	Delivered	MA
8:05 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
6:58 am	At local FedEx facility	WINDSOR LOCKS, CT
3:15 am	Departed FedEx location	NEWARK, NJ
- 11/18/2013 - Monday		
11:16 pm	Arrived at FedEx location	NEWARK, NJ
7:37 pm	Left FedEx origin facility	WATERTOWN, NY
5:57 pm	Picked up	WATERTOWN, NY

Local Scan Time

## Shipment Facts

**Tracking number**

804365039150

**Dimensions**

13x10x9 in.

**Total pieces**

1

**Special handling section**

Deliver Weekday

**Service**

FedEx Priority Overnight

**Delivered To**

Shipping/Receiving

**Packaging**

Your Packaging

39 Spruce St.  
East Longmeadow, MA. 01028  
P: 413-525-2332  
F: 413-525-6405  
[www.contestlabs.com](http://www.contestlabs.com)



Page 1 of 2



## Sample Receipt Checklist

CLIENT NAME: Asocidis

RECEIVED BY: L.W.

DATE: 11-18-2013

1) Was the chain(s) of custody relinquished and signed?

Yes       No      No CoC Included

2) Does the chain agree with the samples?

Yes       No

If not, explain:

3) Are all the samples in good condition?

Yes       No

If not, explain:

4) How were the samples received:

On Ice  Direct from Sampling  Ambient  In Cooler(s)

Were the samples received in Temperature Compliance of (2-6°C)?

Yes       No      N/A

Temperature °C by Temp blank

n/a

Temperature °C by Temp gun

3, 4°C

5) Are there Dissolved samples for the lab to filter?

Yes       No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

6) Are there any RUSH or SHORT HOLDING TIME samples?

Yes       No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No

(Walk-in clients only) if not already approved

Client Signature:

8) Do all samples have the proper Acid pH: Yes No N/A

9) Do all samples have the proper Base pH: Yes No N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

### Containers received at Con-Test

	# of containers	12	# of containers
1 Liter Amber			8 oz amber/clear jar
500 mL Amber			4 oz amber/clear jar
250 mL Amber (8oz amber)			2 oz amber/clear jar
1 Liter Plastic			Plastic Bag / Ziploc
500 mL Plastic			SOC Kit
250 mL plastic			Non-ConTest Container
40 mL Vial - type listed below	<u>12</u>		Perchlorate Kit
Colisure / bacteria bottle			Flashpoint bottle
Dissolved Oxygen bottle			Other glass jar
Encore			Other

Laboratory Comments:

40 mL vials: # HCl 12

# Methanol \_\_\_\_\_

Time and Date Frozen:

Doc# 277

# Bisulfate \_\_\_\_\_

# DI Water \_\_\_\_\_

Rev. 4 August 2013

# Thiosulfate \_\_\_\_\_

Unpreserved

Page 2 of 2  
**Login Sample Receipt Checklist**  
**(Rejection Criteria Listing - Using Sample Acceptance Policy)**  
**Any False statement will be brought to the attention of Client**

<u>Question</u>	<u>Answer (True/False)</u>	<u>Comment</u>
	T/F/NA	
1) The cooler's custody seal, if present, is intact.	n/a	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	n/a	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.		
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	T	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	T	
21) Samples do not require splitting or compositing.	n/a	

Doc #277 Rev. 4 August 2013

Who notified of False statements?  
 Log-In Technician Initials: CW

Date/Time: 11-10-2013  
 Date/Time: 17:30

January 2, 2014

Jeremy Wyckoff  
Arcadis US, Inc. - Clifton Park-NY  
855 Route 146, Suite 210  
Clifton Park, NY 12065

Project Location: South Otselic, NY  
Client Job Number:  
Project Number: 00266406.0000  
Laboratory Work Order Number: 13L0881

Enclosed are results of analyses for samples received by the laboratory on December 23, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Aaron L. Benoit  
Project Manager

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

REPORT DATE: 1/2/2014

Arcadis US, Inc. - Clifton Park-NY  
855 Route 146, Suite 210  
Clifton Park, NY 12065  
ATTN: Jeremy Wyckoff

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 00266406.0000

#### ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13L0881

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: South Otselic, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
RW-1	13L0881-01	Ground Water		EPA 624	
RW-2	13L0881-02	Ground Water		EPA 624	
Eff 46 HZ	13L0881-03	Ground Water		EPA 624	
Trip Blank	13L0881-04	Trip Blank Water		EPA 624	

**CASE NARRATIVE SUMMARY**

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.  
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Michael A. Erickson  
Laboratory Director

Project Location: South Otselic, NY

Sample Description:

Work Order: 13L0881

Date Received: 12/23/2013

**Field Sample #:** RW-1

Sampled: 12/20/2013 09:50

**Sample ID:** 13L0881-01

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	0.079	µg/L	1		EPA 624	12/24/13	12/25/13 15:49	EEH
Bromodichloromethane	ND	2.0	0.088	µg/L	1		EPA 624	12/24/13	12/25/13 15:49	EEH
Bromoform	ND	2.0	0.21	µg/L	1		EPA 624	12/24/13	12/25/13 15:49	EEH
Bromomethane	ND	2.0	0.94	µg/L	1		EPA 624	12/24/13	12/25/13 15:49	EEH
Carbon Tetrachloride	ND	2.0	0.10	µg/L	1		EPA 624	12/24/13	12/25/13 15:49	EEH
Chlorobenzene	ND	2.0	0.12	µg/L	1		EPA 624	12/24/13	12/25/13 15:49	EEH
Chlorodibromomethane	ND	2.0	0.054	µg/L	1		EPA 624	12/24/13	12/25/13 15:49	EEH
Chloroethane	ND	2.0	0.16	µg/L	1		EPA 624	12/24/13	12/25/13 15:49	EEH
2-Chloroethyl Vinyl Ether	ND	10	2.2	µg/L	1		EPA 624	12/24/13	12/25/13 15:49	EEH
Chloroform	ND	2.0	0.14	µg/L	1		EPA 624	12/24/13	12/25/13 15:49	EEH
Chloromethane	ND	2.0	0.32	µg/L	1		EPA 624	12/24/13	12/25/13 15:49	EEH
1,2-Dichlorobenzene	ND	2.0	0.076	µg/L	1		EPA 624	12/24/13	12/25/13 15:49	EEH
1,3-Dichlorobenzene	ND	2.0	0.079	µg/L	1		EPA 624	12/24/13	12/25/13 15:49	EEH
1,4-Dichlorobenzene	ND	2.0	0.046	µg/L	1		EPA 624	12/24/13	12/25/13 15:49	EEH
1,2-Dichloroethane	ND	2.0	0.19	µg/L	1		EPA 624	12/24/13	12/25/13 15:49	EEH
1,1-Dichloroethane	1.7	2.0	0.16	µg/L	1	J	EPA 624	12/24/13	12/25/13 15:49	EEH
1,1-Dichloroethylene	1.0	2.0	0.21	µg/L	1	J	EPA 624	12/24/13	12/25/13 15:49	EEH
trans-1,2-Dichloroethylene	ND	2.0	0.15	µg/L	1		EPA 624	12/24/13	12/25/13 15:49	EEH
1,2-Dichloropropane	ND	2.0	0.11	µg/L	1		EPA 624	12/24/13	12/25/13 15:49	EEH
cis-1,3-Dichloropropene	ND	2.0	0.062	µg/L	1		EPA 624	12/24/13	12/25/13 15:49	EEH
trans-1,3-Dichloropropene	ND	2.0	0.056	µg/L	1		EPA 624	12/24/13	12/25/13 15:49	EEH
Ethylbenzene	ND	2.0	0.092	µg/L	1		EPA 624	12/24/13	12/25/13 15:49	EEH
Methyl tert-Butyl Ether (MTBE)	ND	2.0	0.090	µg/L	1		EPA 624	12/24/13	12/25/13 15:49	EEH
Methylene Chloride	ND	5.0	3.2	µg/L	1		EPA 624	12/24/13	12/25/13 15:49	EEH
1,1,2,2-Tetrachloroethane	ND	2.0	0.12	µg/L	1		EPA 624	12/24/13	12/25/13 15:49	EEH
Tetrachloroethylene	ND	2.0	0.080	µg/L	1		EPA 624	12/24/13	12/25/13 15:49	EEH
Toluene	ND	1.0	0.090	µg/L	1		EPA 624	12/24/13	12/25/13 15:49	EEH
1,1,1-Trichloroethane	42	2.0	0.094	µg/L	1		EPA 624	12/24/13	12/25/13 15:49	EEH
1,1,2-Trichloroethane	ND	2.0	0.12	µg/L	1		EPA 624	12/24/13	12/25/13 15:49	EEH
Trichloroethylene	ND	2.0	0.077	µg/L	1		EPA 624	12/24/13	12/25/13 15:49	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		EPA 624	12/24/13	12/25/13 15:49	EEH
Vinyl Chloride	ND	2.0	0.13	µg/L	1		EPA 624	12/24/13	12/25/13 15:49	EEH
m+p Xylene	ND	2.0	0.18	µg/L	1		EPA 624	12/24/13	12/25/13 15:49	EEH
o-Xylene	ND	2.0	0.11	µg/L	1		EPA 624	12/24/13	12/25/13 15:49	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	87.8	70-130	12/25/13 15:49
Toluene-d8	101	70-130	12/25/13 15:49
4-Bromofluorobenzene	102	70-130	12/25/13 15:49

Project Location: South Otselic, NY

Sample Description:

Work Order: 13L0881

Date Received: 12/23/2013

**Field Sample #:** RW-2

Sampled: 12/20/2013 09:55

**Sample ID:** 13L0881-02

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	0.079	µg/L	1		EPA 624	12/24/13	12/25/13 15:23	EEH
Bromodichloromethane	ND	2.0	0.088	µg/L	1		EPA 624	12/24/13	12/25/13 15:23	EEH
Bromoform	ND	2.0	0.21	µg/L	1		EPA 624	12/24/13	12/25/13 15:23	EEH
Bromomethane	ND	2.0	0.94	µg/L	1		EPA 624	12/24/13	12/25/13 15:23	EEH
Carbon Tetrachloride	ND	2.0	0.10	µg/L	1		EPA 624	12/24/13	12/25/13 15:23	EEH
Chlorobenzene	ND	2.0	0.12	µg/L	1		EPA 624	12/24/13	12/25/13 15:23	EEH
Chlorodibromomethane	ND	2.0	0.054	µg/L	1		EPA 624	12/24/13	12/25/13 15:23	EEH
Chloroethane	ND	2.0	0.16	µg/L	1		EPA 624	12/24/13	12/25/13 15:23	EEH
2-Chloroethyl Vinyl Ether	ND	10	2.2	µg/L	1		EPA 624	12/24/13	12/25/13 15:23	EEH
Chloroform	ND	2.0	0.14	µg/L	1		EPA 624	12/24/13	12/25/13 15:23	EEH
Chloromethane	ND	2.0	0.32	µg/L	1		EPA 624	12/24/13	12/25/13 15:23	EEH
1,2-Dichlorobenzene	ND	2.0	0.076	µg/L	1		EPA 624	12/24/13	12/25/13 15:23	EEH
1,3-Dichlorobenzene	ND	2.0	0.079	µg/L	1		EPA 624	12/24/13	12/25/13 15:23	EEH
1,4-Dichlorobenzene	ND	2.0	0.046	µg/L	1		EPA 624	12/24/13	12/25/13 15:23	EEH
1,2-Dichloroethane	ND	2.0	0.19	µg/L	1		EPA 624	12/24/13	12/25/13 15:23	EEH
1,1-Dichloroethane	0.77	2.0	0.16	µg/L	1	J	EPA 624	12/24/13	12/25/13 15:23	EEH
1,1-Dichloroethylene	0.69	2.0	0.21	µg/L	1	J	EPA 624	12/24/13	12/25/13 15:23	EEH
trans-1,2-Dichloroethylene	ND	2.0	0.15	µg/L	1		EPA 624	12/24/13	12/25/13 15:23	EEH
1,2-Dichloropropane	ND	2.0	0.11	µg/L	1		EPA 624	12/24/13	12/25/13 15:23	EEH
cis-1,3-Dichloropropene	ND	2.0	0.062	µg/L	1		EPA 624	12/24/13	12/25/13 15:23	EEH
trans-1,3-Dichloropropene	ND	2.0	0.056	µg/L	1		EPA 624	12/24/13	12/25/13 15:23	EEH
Ethylbenzene	ND	2.0	0.092	µg/L	1		EPA 624	12/24/13	12/25/13 15:23	EEH
Methyl tert-Butyl Ether (MTBE)	ND	2.0	0.090	µg/L	1		EPA 624	12/24/13	12/25/13 15:23	EEH
Methylene Chloride	ND	5.0	3.2	µg/L	1		EPA 624	12/24/13	12/25/13 15:23	EEH
1,1,2,2-Tetrachloroethane	ND	2.0	0.12	µg/L	1		EPA 624	12/24/13	12/25/13 15:23	EEH
Tetrachloroethylene	ND	2.0	0.080	µg/L	1		EPA 624	12/24/13	12/25/13 15:23	EEH
Toluene	ND	1.0	0.090	µg/L	1		EPA 624	12/24/13	12/25/13 15:23	EEH
1,1,1-Trichloroethane	35	2.0	0.094	µg/L	1		EPA 624	12/24/13	12/25/13 15:23	EEH
1,1,2-Trichloroethane	ND	2.0	0.12	µg/L	1		EPA 624	12/24/13	12/25/13 15:23	EEH
Trichloroethylene	ND	2.0	0.077	µg/L	1		EPA 624	12/24/13	12/25/13 15:23	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		EPA 624	12/24/13	12/25/13 15:23	EEH
Vinyl Chloride	ND	2.0	0.13	µg/L	1		EPA 624	12/24/13	12/25/13 15:23	EEH
m+p Xylene	ND	2.0	0.18	µg/L	1		EPA 624	12/24/13	12/25/13 15:23	EEH
o-Xylene	ND	2.0	0.11	µg/L	1		EPA 624	12/24/13	12/25/13 15:23	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	87.3	70-130	
Toluene-d8	105	70-130	
4-Bromofluorobenzene	105	70-130	

Project Location: South Otselic, NY

Sample Description:

Work Order: 13L0881

Date Received: 12/23/2013

**Field Sample #:** Eff 46 HZ

Sampled: 12/20/2013 10:00

**Sample ID:** 13L0881-03

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	0.079	µg/L	1		EPA 624	12/24/13	12/25/13 14:56	EEH
Bromodichloromethane	ND	2.0	0.088	µg/L	1		EPA 624	12/24/13	12/25/13 14:56	EEH
Bromoform	ND	2.0	0.21	µg/L	1		EPA 624	12/24/13	12/25/13 14:56	EEH
Bromomethane	ND	2.0	0.94	µg/L	1		EPA 624	12/24/13	12/25/13 14:56	EEH
Carbon Tetrachloride	ND	2.0	0.10	µg/L	1		EPA 624	12/24/13	12/25/13 14:56	EEH
Chlorobenzene	ND	2.0	0.12	µg/L	1		EPA 624	12/24/13	12/25/13 14:56	EEH
Chlorodibromomethane	ND	2.0	0.054	µg/L	1		EPA 624	12/24/13	12/25/13 14:56	EEH
Chloroethane	ND	2.0	0.16	µg/L	1		EPA 624	12/24/13	12/25/13 14:56	EEH
2-Chloroethyl Vinyl Ether	ND	10	2.2	µg/L	1		EPA 624	12/24/13	12/25/13 14:56	EEH
Chloroform	ND	2.0	0.14	µg/L	1		EPA 624	12/24/13	12/25/13 14:56	EEH
Chloromethane	ND	2.0	0.32	µg/L	1		EPA 624	12/24/13	12/25/13 14:56	EEH
1,2-Dichlorobenzene	ND	2.0	0.076	µg/L	1		EPA 624	12/24/13	12/25/13 14:56	EEH
1,3-Dichlorobenzene	ND	2.0	0.079	µg/L	1		EPA 624	12/24/13	12/25/13 14:56	EEH
1,4-Dichlorobenzene	ND	2.0	0.046	µg/L	1		EPA 624	12/24/13	12/25/13 14:56	EEH
1,2-Dichloroethane	ND	2.0	0.19	µg/L	1		EPA 624	12/24/13	12/25/13 14:56	EEH
1,1-Dichloroethane	ND	2.0	0.16	µg/L	1		EPA 624	12/24/13	12/25/13 14:56	EEH
1,1-Dichloroethylene	ND	2.0	0.21	µg/L	1		EPA 624	12/24/13	12/25/13 14:56	EEH
trans-1,2-Dichloroethylene	ND	2.0	0.15	µg/L	1		EPA 624	12/24/13	12/25/13 14:56	EEH
1,2-Dichloropropane	ND	2.0	0.11	µg/L	1		EPA 624	12/24/13	12/25/13 14:56	EEH
cis-1,3-Dichloropropene	ND	2.0	0.062	µg/L	1		EPA 624	12/24/13	12/25/13 14:56	EEH
trans-1,3-Dichloropropene	ND	2.0	0.056	µg/L	1		EPA 624	12/24/13	12/25/13 14:56	EEH
Ethylbenzene	ND	2.0	0.092	µg/L	1		EPA 624	12/24/13	12/25/13 14:56	EEH
Methyl tert-Butyl Ether (MTBE)	ND	2.0	0.090	µg/L	1		EPA 624	12/24/13	12/25/13 14:56	EEH
Methylene Chloride	ND	5.0	3.2	µg/L	1		EPA 624	12/24/13	12/25/13 14:56	EEH
1,1,2,2-Tetrachloroethane	ND	2.0	0.12	µg/L	1		EPA 624	12/24/13	12/25/13 14:56	EEH
Tetrachloroethylene	ND	2.0	0.080	µg/L	1		EPA 624	12/24/13	12/25/13 14:56	EEH
Toluene	ND	1.0	0.090	µg/L	1		EPA 624	12/24/13	12/25/13 14:56	EEH
1,1,1-Trichloroethane	ND	2.0	0.094	µg/L	1		EPA 624	12/24/13	12/25/13 14:56	EEH
1,1,2-Trichloroethane	ND	2.0	0.12	µg/L	1		EPA 624	12/24/13	12/25/13 14:56	EEH
Trichloroethylene	ND	2.0	0.077	µg/L	1		EPA 624	12/24/13	12/25/13 14:56	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		EPA 624	12/24/13	12/25/13 14:56	EEH
Vinyl Chloride	ND	2.0	0.13	µg/L	1		EPA 624	12/24/13	12/25/13 14:56	EEH
m+p Xylene	ND	2.0	0.18	µg/L	1		EPA 624	12/24/13	12/25/13 14:56	EEH
o-Xylene	ND	2.0	0.11	µg/L	1		EPA 624	12/24/13	12/25/13 14:56	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	85.9	70-130	
Toluene-d8	104	70-130	
4-Bromofluorobenzene	102	70-130	

Project Location: South Otselic, NY

Sample Description:

Work Order: 13L0881

Date Received: 12/23/2013

**Field Sample #:** Trip Blank

Sampled: 12/20/2013 00:00

**Sample ID:** 13L0881-04

Sample Matrix: Trip Blank Water

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	0.079	µg/L	1		EPA 624	12/24/13	12/25/13 14:30	EEH
Bromodichloromethane	ND	2.0	0.088	µg/L	1		EPA 624	12/24/13	12/25/13 14:30	EEH
Bromoform	ND	2.0	0.21	µg/L	1		EPA 624	12/24/13	12/25/13 14:30	EEH
Bromomethane	ND	2.0	0.94	µg/L	1		EPA 624	12/24/13	12/25/13 14:30	EEH
Carbon Tetrachloride	ND	2.0	0.10	µg/L	1		EPA 624	12/24/13	12/25/13 14:30	EEH
Chlorobenzene	ND	2.0	0.12	µg/L	1		EPA 624	12/24/13	12/25/13 14:30	EEH
Chlorodibromomethane	ND	2.0	0.054	µg/L	1		EPA 624	12/24/13	12/25/13 14:30	EEH
Chloroethane	ND	2.0	0.16	µg/L	1		EPA 624	12/24/13	12/25/13 14:30	EEH
2-Chloroethyl Vinyl Ether	ND	10	2.2	µg/L	1		EPA 624	12/24/13	12/25/13 14:30	EEH
Chloroform	ND	2.0	0.14	µg/L	1		EPA 624	12/24/13	12/25/13 14:30	EEH
Chloromethane	ND	2.0	0.32	µg/L	1		EPA 624	12/24/13	12/25/13 14:30	EEH
1,2-Dichlorobenzene	ND	2.0	0.076	µg/L	1		EPA 624	12/24/13	12/25/13 14:30	EEH
1,3-Dichlorobenzene	ND	2.0	0.079	µg/L	1		EPA 624	12/24/13	12/25/13 14:30	EEH
1,4-Dichlorobenzene	ND	2.0	0.046	µg/L	1		EPA 624	12/24/13	12/25/13 14:30	EEH
1,2-Dichloroethane	ND	2.0	0.19	µg/L	1		EPA 624	12/24/13	12/25/13 14:30	EEH
1,1-Dichloroethane	ND	2.0	0.16	µg/L	1		EPA 624	12/24/13	12/25/13 14:30	EEH
1,1-Dichloroethylene	ND	2.0	0.21	µg/L	1		EPA 624	12/24/13	12/25/13 14:30	EEH
trans-1,2-Dichloroethylene	ND	2.0	0.15	µg/L	1		EPA 624	12/24/13	12/25/13 14:30	EEH
1,2-Dichloropropane	ND	2.0	0.11	µg/L	1		EPA 624	12/24/13	12/25/13 14:30	EEH
cis-1,3-Dichloropropene	ND	2.0	0.062	µg/L	1		EPA 624	12/24/13	12/25/13 14:30	EEH
trans-1,3-Dichloropropene	ND	2.0	0.056	µg/L	1		EPA 624	12/24/13	12/25/13 14:30	EEH
Ethylbenzene	ND	2.0	0.092	µg/L	1		EPA 624	12/24/13	12/25/13 14:30	EEH
Methyl tert-Butyl Ether (MTBE)	ND	2.0	0.090	µg/L	1		EPA 624	12/24/13	12/25/13 14:30	EEH
Methylene Chloride	ND	5.0	3.2	µg/L	1		EPA 624	12/24/13	12/25/13 14:30	EEH
1,1,2,2-Tetrachloroethane	ND	2.0	0.12	µg/L	1		EPA 624	12/24/13	12/25/13 14:30	EEH
Tetrachloroethylene	ND	2.0	0.080	µg/L	1		EPA 624	12/24/13	12/25/13 14:30	EEH
Toluene	ND	1.0	0.090	µg/L	1		EPA 624	12/24/13	12/25/13 14:30	EEH
1,1,1-Trichloroethane	ND	2.0	0.094	µg/L	1		EPA 624	12/24/13	12/25/13 14:30	EEH
1,1,2-Trichloroethane	ND	2.0	0.12	µg/L	1		EPA 624	12/24/13	12/25/13 14:30	EEH
Trichloroethylene	ND	2.0	0.077	µg/L	1		EPA 624	12/24/13	12/25/13 14:30	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		EPA 624	12/24/13	12/25/13 14:30	EEH
Vinyl Chloride	ND	2.0	0.13	µg/L	1		EPA 624	12/24/13	12/25/13 14:30	EEH
m+p Xylene	ND	2.0	0.18	µg/L	1		EPA 624	12/24/13	12/25/13 14:30	EEH
o-Xylene	ND	2.0	0.11	µg/L	1		EPA 624	12/24/13	12/25/13 14:30	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	85.0	70-130	
Toluene-d8	103	70-130	
4-Bromofluorobenzene	101	70-130	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

**Sample Extraction Data**

**Prep Method: SW-846 5030B-EPA 624**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13L0881-01 [RW-1]	B087756	5	5.00	12/24/13
13L0881-02 [RW-2]	B087756	5	5.00	12/24/13
13L0881-03 [Eff 46 HZ]	B087756	5	5.00	12/24/13
13L0881-04 [Trip Blank]	B087756	5	5.00	12/24/13

**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	---------	-------------

**Batch B087756 - SW-846 5030B**

<b>Blank (B087756-BLK1)</b>									
Prepared: 12/24/13 Analyzed: 12/25/13									
Benzene	ND	1.0	µg/L						
Bromodichloromethane	ND	2.0	µg/L						
Bromoform	ND	2.0	µg/L						
Bromomethane	ND	2.0	µg/L						
Carbon Tetrachloride	ND	2.0	µg/L						
Chlorobenzene	ND	2.0	µg/L						
Chlorodibromomethane	ND	2.0	µg/L						
Chloroethane	ND	2.0	µg/L						
2-Chloroethyl Vinyl Ether	ND	10	µg/L						
Chloroform	ND	2.0	µg/L						
Chloromethane	ND	2.0	µg/L						
1,2-Dichlorobenzene	ND	2.0	µg/L						
1,3-Dichlorobenzene	ND	2.0	µg/L						
1,4-Dichlorobenzene	ND	2.0	µg/L						
1,2-Dichloroethane	ND	2.0	µg/L						
1,1-Dichloroethane	ND	2.0	µg/L						
1,1-Dichloroethylene	ND	2.0	µg/L						
trans-1,2-Dichloroethylene	ND	2.0	µg/L						
1,2-Dichloropropane	ND	2.0	µg/L						
cis-1,3-Dichloropropene	ND	2.0	µg/L						
trans-1,3-Dichloropropene	ND	2.0	µg/L						
Ethylbenzene	ND	2.0	µg/L						
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L						
Methylene Chloride	ND	5.0	µg/L						
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L						
Tetrachloroethylene	ND	2.0	µg/L						
Toluene	ND	1.0	µg/L						
1,1,1-Trichloroethane	ND	2.0	µg/L						
1,1,2-Trichloroethane	ND	2.0	µg/L						
Trichloroethylene	ND	2.0	µg/L						
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L						
Vinyl Chloride	ND	2.0	µg/L						
m+p Xylene	ND	2.0	µg/L						
o-Xylene	ND	2.0	µg/L						
Surrogate: 1,2-Dichloroethane-d4	22.0		µg/L	25.0		88.0		70-130	
Surrogate: Toluene-d8	26.0		µg/L	25.0		104		70-130	
Surrogate: 4-Bromofluorobenzene	26.3		µg/L	25.0		105		70-130	

<b>LCS (B087756-BS1)</b>									
Prepared: 12/24/13 Analyzed: 12/25/13									
Benzene	9.04	1.0	µg/L	10.0		90.4		37-151	
Bromodichloromethane	9.94	2.0	µg/L	10.0		99.4		35-155	
Bromoform	10.7	2.0	µg/L	10.0		107		45-169	
Bromomethane	20.1	2.0	µg/L	10.0		201		20-242	
Carbon Tetrachloride	10.0	2.0	µg/L	10.0		100		70-140	
Chlorobenzene	9.59	2.0	µg/L	10.0		95.9		37-160	
Chlorodibromomethane	11.4	2.0	µg/L	10.0		114		53-149	
Chloroethane	10.6	2.0	µg/L	10.0		106		70-130	
2-Chloroethyl Vinyl Ether	33.9	10	µg/L	100		33.9		10-305	
Chloroform	9.67	2.0	µg/L	10.0		96.7		51-138	
Chloromethane	14.6	2.0	µg/L	10.0		146		20-273	
1,2-Dichlorobenzene	9.20	2.0	µg/L	10.0		92.0		18-190	
1,3-Dichlorobenzene	9.26	2.0	µg/L	10.0		92.6		59-156	

**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B087756 - SW-846 5030B</b>										
<b>LCS (B087756-BS1)</b>										
Prepared: 12/24/13 Analyzed: 12/25/13										
1,4-Dichlorobenzene	9.05	2.0	µg/L	10.0	90.5	18-190				
1,2-Dichloroethane	9.35	2.0	µg/L	10.0	93.5	49-155				
1,1-Dichloroethane	9.36	2.0	µg/L	10.0	93.6	59-155				
1,1-Dichloroethylene	9.26	2.0	µg/L	10.0	92.6	20-234				
trans-1,2-Dichloroethylene	9.88	2.0	µg/L	10.0	98.8	54-156				
1,2-Dichloropropane	9.42	2.0	µg/L	10.0	94.2	20-210				
cis-1,3-Dichloropropene	9.85	2.0	µg/L	10.0	98.5	20-227				
trans-1,3-Dichloropropene	9.64	2.0	µg/L	10.0	96.4	17-183				
Ethylbenzene	9.46	2.0	µg/L	10.0	94.6	37-162				
Methyl tert-Butyl Ether (MTBE)	9.03	2.0	µg/L	10.0	90.3	70-130				
Methylene Chloride	11.8	5.0	µg/L	10.0	118	50-221				
1,1,2,2-Tetrachloroethane	10.3	2.0	µg/L	10.0	103	46-157				
Tetrachloroethylene	9.98	2.0	µg/L	10.0	99.8	64-148				
Toluene	9.15	1.0	µg/L	10.0	91.5	47-150				
1,1,1-Trichloroethane	9.84	2.0	µg/L	10.0	98.4	52-162				
1,1,2-Trichloroethane	10.1	2.0	µg/L	10.0	101	52-150				
Trichloroethylene	9.70	2.0	µg/L	10.0	97.0	71-157				
Trichlorofluoromethane (Freon 11)	9.69	2.0	µg/L	10.0	96.9	17-181				
Vinyl Chloride	8.40	2.0	µg/L	10.0	84.0	20-251				
m+p Xylene	19.0	2.0	µg/L	20.0	94.8	70-130				
o-Xylene	9.37	2.0	µg/L	10.0	93.7	70-130				
Surrogate: 1,2-Dichloroethane-d4	22.9		µg/L	25.0	91.5	70-130				
Surrogate: Toluene-d8	25.7		µg/L	25.0	103	70-130				
Surrogate: 4-Bromofluorobenzene	25.4		µg/L	25.0	102	70-130				

**FLAG/QUALIFIER SUMMARY**

- \* QC result is outside of established limits.
- † Wide recovery limits established for difficult compound.
- ‡ Wide RPD limits established for difficult compound.
- # Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

- J Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

## CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<b>EPA 624 in Water</b>	
Benzene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Bromodichloromethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Bromoform	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Bromomethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Carbon Tetrachloride	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chlorobenzene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chlorodibromomethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chloroethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
2-Chloroethyl Vinyl Ether	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chloroform	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chloromethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,2-Dichlorobenzene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,3-Dichlorobenzene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,4-Dichlorobenzene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,2-Dichloroethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,1-Dichloroethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,1-Dichloroethylene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
trans-1,2-Dichloroethylene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,2-Dichloropropane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
cis-1,3-Dichloropropene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
trans-1,3-Dichloropropene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Ethylbenzene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Methyl tert-Butyl Ether (MTBE)	NC
Methylene Chloride	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,1,2,2-Tetrachloroethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Tetrachloroethylene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Toluene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,1,1-Trichloroethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,1,2-Trichloroethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Trichloroethylene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Trichlorofluoromethane (Freon 11)	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Vinyl Chloride	CT,MA,NH,NY,RI,NC,ME,VA,NJ
m+p Xylene	CT,MA,NH,NY,RI,NC,VA,NJ
o-Xylene	CT,MA,NH,NY,RI,NC,VA,NJ

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Public Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2014
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2014
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014



© Phone: 413-525-2332  
Fax: 413-525-6405  
Email: info@contestlabs.com

## CHAIN OF CUSTODY RECORD

39 Spruce Street  
East Longmeadow, MA 01028

Page 1 of 1

Company Name: ARCADIS  
Address: 855 Route 146, STE 210  
Attention: J. W Yckoff  
Project Location: South Ossipee, NY  
Sampled By: J.W.Yckoff

Telephone: 518-250-7300  
Project # 00266406.0000  
Client PO#  
DATA DELIVERY (check all that apply)  
○ FAX ● EMAIL ○ WEBSITE  
Fax # \_\_\_\_\_  
Email: jerry.yckoff@arcadis.com  
Format: ● PDF ● EXCEL ○ GIS  
○ OTHER  
○ "Enhanced Data Package"

Con-Test Lab ID Client Sample ID / Description  
(laboratory use only)

01	RW-1	0950	12/20/13	X	GW	M	X
02	RW-2	0953	12/20/13	X	GW	M	X
03	EFF 46 Hz	1000	12/20/13	X	GW	L	X
04	Teip Blank	-	12/20/13	-	-	-	X

Collection

Beginning Date/Time

Ending Date/Time

Composite Grab Date

Matrix Conc. Units

Comments:



804627482940

Ship (P/U) date :  
Fri 12/20/2013 5:31 pm  
CLI USActual delivery :  
Sat 12/21/2013 1:30 pm  
MA USDelivered  
Signed for by: R DAOUST

## Travel History

Date/Time	Activity	Location
- 12/21/2013 - Saturday		
1:30 pm	Delivered	MA
11:04 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
10:34 am	At local FedEx facility	WINDSOR LOCKS, CT
7:45 am	At destination sort facility	EAST GRANBY, CT
4:44 am	Departed FedEx location	MEMPHIS, TN
12:06 am	Arrived at FedEx location	MEMPHIS, TN
- 12/20/2013 - Friday		
7:18 pm	Left FedEx origin facility	BINGHAMTON, NY
5:31 pm	Picked up	BINGHAMTON, NY

Local Scan Time 

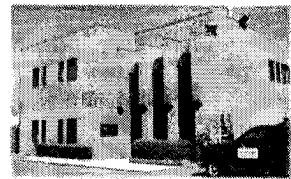
## Shipment Facts

Tracking number	804627482940	Service	FedEx Priority Overnight
Weight	1 lbs	Dimensions	12x11x10 in.
Delivered To	Shipping/Receiving	Total pieces	1
Total shipment weight	1 lbs / 0.5 kgs	Shipper reference	00266406 0000
Packaging	Your Packaging	Special handling section	For Saturday Delivery

39 Spruce St.  
East Longmeadow, MA. 01028  
P: 413-525-2332  
F: 413-525-6405  
[www.contestlabs.com](http://www.contestlabs.com)



Page 1 of 2



## Sample Receipt Checklist

CLIENT NAME: Arcadis

RECEIVED BY: PB

DATE: 12.21.13

1) Was the chain(s) of custody relinquished and signed?  Yes  No      No CoC Included

2) Does the chain agree with the samples?

If not, explain:

3) Are all the samples in good condition?

If not, explain:

Yes  No

4) How were the samples received:

On Ice  Direct from Sampling  Ambient  In Cooler(s)

Were the samples received in Temperature Compliance of (2-6°C)?  Yes  No  N/A

Temperature °C by Temp blank 5.0 Temperature °C by Temp gun \_\_\_\_\_

5) Are there Dissolved samples for the lab to filter?  Yes  No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

6) Are there any RUSH or SHORT HOLDING TIME samples?  Yes  No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

7) Location where samples are stored:

Log in

Permission to subcontract samples? Yes  No

(Walk-in clients only) if not already approved

Client Signature:

8) Do all samples have the proper Acid pH:  Yes  No  N/A

9) Do all samples have the proper Base pH:  Yes  No  N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples:  Yes  No  N/A

## Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below	<u>12</u>	Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl 18

# Methanol \_\_\_\_\_

Time and Date Frozen:

Doc# 277

# Bisulfate \_\_\_\_\_

# DI Water \_\_\_\_\_

Rev. 4 August 2013

# Thiosulfate \_\_\_\_\_

Unpreserved

Page 2 of 2  
**Login Sample Receipt Checklist**  
**(Rejection Criteria Listing - Using Sample Acceptance Policy)**  
**Any False statement will be brought to the attention of Client**

<u>Question</u>	<u>Answer (True/False)</u>	<u>Comment</u>
	T/F/NA	
1) The cooler's custody seal, if present, is intact.	N/A	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	N/A	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	T	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	T	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements?

Date/Time:

Doc #277 Rev. 4 August 2013

Log-In Technician Initials: PR

Date/Time: 12-21-13

13:30



## **Appendix D**

NYSDEC Site Certification Forms



**Enclosure 1**  
**Engineering Controls - Standby Consultant/Contractor Certification Form**



Site Details	Box 1
Site No.      709009	
<b>Site Name</b> Gladding Corporation	
Site Address: P.O. Box 164      Zip Code: 13155 City/Town: South Otselic County: Chenango Site Acreage: 7.0	
Reporting Period: April 15, 2011 to April 15, 2014	
YES    NO	
1. Is the information above correct?	<input checked="" type="checkbox"/> <input type="checkbox"/>
If NO, include handwritten above or on a separate sheet.	
2. To your knowledge has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	<input type="checkbox"/> <input checked="" type="checkbox"/>
3. To your knowledge has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	<input type="checkbox"/> <input checked="" type="checkbox"/>
4. To your knowledge have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	<input type="checkbox"/> <input checked="" type="checkbox"/>
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.	
5. To your knowledge is the site currently undergoing development?	<input type="checkbox"/> <input checked="" type="checkbox"/>
Box 2	
YES    NO	
6. Is the current site use consistent with the use(s) listed below? Unrestricted, Residential, Restricted-Residential, Commercial, and Industrial	<input checked="" type="checkbox"/> <input type="checkbox"/>
7. Are all ICs/ECs in place and functioning as designed?	<input checked="" type="checkbox"/> <input type="checkbox"/>
IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and contact the DEC PM regarding the development of a Corrective Measures Work Plan to address these issues.	
Signature of Standby Consultant/Contractor	Date

**SITE NO. 709009**

**Box 3**

**Description of Institutional Controls**

<u>Parcel</u>	<u>Owner</u>	<u>Institutional Control</u>
65.-1-16.1	D.H. Christakos	Site Management Plan
		Monitoring Plan
		O&M Plan

ICs at the site include Site management plan

**Box 4**

**Description of Engineering Controls**

<u>Parcel</u>	<u>Engineering Control</u>
65.-1-16.1	Groundwater Treatment System

Engineering controls include a groundwater extraction and treatment system and monitoring well network.

**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, including data and material prepared by previous contractors for the current certifying period, if any;
- b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES      NO

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

- (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;
- (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;
- (c) nothing has occurred that would constitute a failure to comply with the Site Management Plan, or equivalent if no Site Management Plan exists.

YES      NO

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and contact the DEC PM regarding the development of a Corrective Measures Work Plan to address these issues.**

---

Signature of Standby Consultant/Contractor

---

Date

### IC/EC CERTIFICATIONS

Box 6

#### Professional Engineer Signature

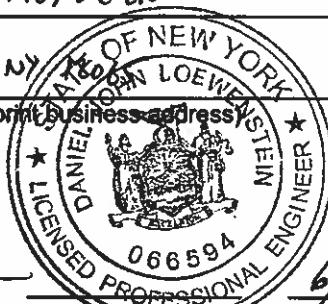
I certify that all information in Boxes 2 through 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Daniel Loewenstein at Malcolm Pirnie, Inc.  
print name

855 Route 146, STE 210

Clifton Park, NY

(print business address)



am certifying as a Professional Engineer.

Daniel Loewenstein  
Signature of Professional Engineer

6/4/14  
Date.

**New York State Department of Environmental Conservation  
Division of Environmental Remediation, 12th Floor**

625 Broadway, Albany, New York 12233

**Phone:** (518) 402-9553   **Fax:** (518) 402-9577

**Website:** [www.dec.ny.gov](http://www.dec.ny.gov)



3/19/2014

D.H. Christakos  
Gladding Braided Products  
1 Gladding Street  
South Otselic, NY 13155-0164

**Re:** Property Owner Survey: Site Management Periodic Review .

Parcel: 65.-1-16.1  
Site Name: Gladding Corporation  
Site No.: 709009  
Site Address: P.O. Box 164  
One Gladding Street  
South Otselic, NY 13155

Dear Property Owner:

This letter and attached survey have been mailed to you because you are the listed property owner (or their contact) on which a State Superfund site exists that is currently in the Site Management (SM) phase of remediation. This letter is meant to serve as an informative reminder to you and any tenants, occupants or users of the property that sites in active Site Management must undergo a periodic progress review to ensure that the selected remedy continues to be protective. This process and resulting report, referred to as the Periodic Review Report (PRR), documents the implementation of site specific SM requirements. Section 6.3(b) of DER-10 Technical Guidance for Site Investigation and Remediation (see "IV. Reference Documents" in the attached) provides guidance regarding the information that is included in a typical PRR. Additionally, the site referenced may be comprised of multiple tax parcels with different owners. This letter only pertains to the portion of the site that exists on property which is under your direct ownership. To assist the NYSDEC in its periodic review, please respond, sign and date the attached survey (Enclosure 1 "Institutional and Engineering Controls - Property Owner Survey") by May 15, 2014.

Site Management is defined in regulation at 6 NYCRR 375-1.2(at), and in Chapter 6 of DER-10 (see also "III. Helpful Definitions" in the attached). SM may be governed by multiple individual documents (e.g., an Operation, Maintenance, and Monitoring Plan; a Soil Management Plan; etc.) or under the umbrella of one comprehensive Site Management Plan.

A Site Management Plan (SMP) may contain one or all of the following elements, as applicable to the site: a plan to maintain institutional and/or engineering controls ("IC/EC Plan"); a plan for monitoring the performance and effectiveness of the selected remedy ("Monitoring Plan"); and/or a plan for the operation and maintenance of the selected remedy ("O&M Plan"). Additionally, the technical requirements for SM are stated in the decision document (e.g., Record of Decision) and, in some cases, the legal agreement directing the remediation of the site (e.g., order on consent, voluntary agreement, etc.).

When you respond to this survey, please include the enclosed form (Enclosure 1) which documents that, to the best of your knowledge, all Site Management requirements that pertain to the site on your property are being met. The Institutional Controls (ICs) and Engineering Controls (ECs) certification portion of the form should be completed, signed and returned to the NYSDEC. If you cannot verify that all SM requirements are being met, please provide adequate information in response so that actions may be taken to restore the level of protection intended. Instructions for completing the attached forms are included as Enclosure 2 "Survey Instructions."

The survey form should be submitted in either paper or electronic format. Any supporting documents or information (e.g., collected data, reports, copy of current deed) should be submitted in electronic format only. These documents and electronic submissions should be sent to:

Payson Long, Project Manager  
New York State Department of Environmental Conservation  
Division of Environmental Remediation, BURE  
625 Broadway  
Albany, NY 12233-7017

Phone number: 518-402-9813. E-mail: pdlong@gw.dec.state.ny.us

Finally, as the state and condition of your property may be influenced by tenants or others users, please share the information contained in this letter and survey so that all controls put in place will provide the greatest level of protection of public health and the environment.

Thank you for your cooperation and assistance.

Sincerely,

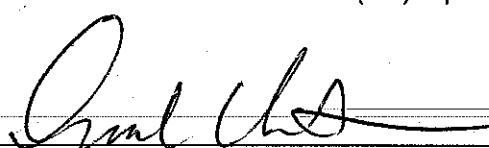
Payson Long, Project Manager  
NYSDEC

Enclosures

bec: Payson Long, Project Manager  
Susan Edwards, Section Chief



**Enclosure 1**  
**Institutional and Engineering Controls - Property Owner Survey**

Site Details		Box 1
Site No.	709009	
<b>Site Name</b> Gladding Corporation		
Site Address: P.O. Box 164 Zip Code: 13155		
City/Town: South Otselic		
County: Chenango		
Site Acreage: 7.0		
Reporting Period: April 15, 2011 to April 15, 2014		
YES      NO		
1. Is the information above correct? <input checked="" type="checkbox"/> <input type="checkbox"/>		
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period? <input checked="" type="checkbox"/>		
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))? <input type="checkbox"/> <input checked="" type="checkbox"/>		
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period? <input type="checkbox"/> <input checked="" type="checkbox"/>		
If you answered YES to questions 2, 3 or 4, include documentation with this form.		
5. Is the site currently undergoing development? <input type="checkbox"/> <input checked="" type="checkbox"/>		
Box 2		
YES      NO		
6. Is the current site use consistent with the use(s) listed below? Unrestricted, Residential, Restricted-Residential, Commercial, and Industrial <input checked="" type="checkbox"/> <input type="checkbox"/>		
7. Are all Institutional Controls (ICs) in place and functioning as designed? <input checked="" type="checkbox"/> <input type="checkbox"/>		
 Signature of Property Owner		3-26-2014 Date

**SITE NO. 709009**

**Box 3**

**Description of Institutional Controls**

<u>Parcel</u>	<u>Owner</u>	<u>Institutional Control</u>
65.-1-16.1	D.H. Christakos	Site Management Plan
		Monitoring Plan
		O&M Plan

ICs at the site include Site management plan

**Box 4**

**Description of Engineering Controls**

<u>Parcel</u>	<u>Engineering Control</u>
65.-1-16.1	Groundwater Treatment System

Engineering controls include a groundwater extraction and treatment system and monitoring well network.

**Box 5**

**Periodic Review Report (PRR) Survey Statements**

For each Institutional or Engineering control listed in Boxes 3 and/or 4, by checking "YES" below I believe all of the following statements to be true:

- (a) the Institutional Control(s) and/or Engineering Control(s) employed at this site remain 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; and
- (d) if a Site Management Plan (SMP) exists, nothing has occurred that would constitute a violation or failure to comply with the SMP for this Control.

  
Signature of Property Owner

YES  NO

3-26-2014  
Date

**Enclosure 2**  
**Survey Instructions**

**I. Verification of Site Details (Box 1 and Box 2):**

Answer the YES/NO questions in the Verification of Site Details Section. The Property Owner may include handwritten changes and/or other supporting documentation, as necessary.

**II. Certification of Institutional / Engineering Controls (Boxes 3, 4, and 5)**

Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Property Owner should petition the Department separately to request approval to remove the control.

In Box 5, complete the certification for all components, as applicable, by checking the corresponding YES/NO checkbox.

If you cannot respond "YES" for each Control listed in Box 3 & Box 4, sign and date the form in Box 5. Attach supporting documentation that explains why a "YES" response could not be rendered. Note that this survey form should be submitted even if an IC or EC cannot be certified at this time.

**III. Helpful Definitions**

"Change of use" means the erection of any structure on a site, the paving of a site for use as a roadway or parking lot, the creation of a park or other recreational facility on a site, any activity that is likely to disrupt or expose contamination or increase direct human or environmental exposure, or any other conduct that will or may tend to prevent or significantly interfere with a proposed, ongoing, or completed remedial program.

"Site management" means the activities undertaken as the last phase of the remedial program at a site which continue after a certificate of completion is issued. Site management is conducted in accordance with a site management plan, which identifies and implements the institutional and engineering controls required for a site, as well as any necessary monitoring and/or operation and maintenance of the remedy.

**IV. Reference Documents**

DER-10	<a href="http://www.dec.ny.gov/docs/remediation_hudson_pdf/der10.pdf">http://www.dec.ny.gov/docs/remediation_hudson_pdf/der10.pdf</a>
Part 375-2.2(a)	<a href="http://www.dec.ny.gov/regs/4373.html#15089">http://www.dec.ny.gov/regs/4373.html#15089</a>