



**Department of
Environmental
Conservation**

New York State Department of Environmental
Conservation – Division of Environmental
Remediation

PERIODIC REVIEW REPORT

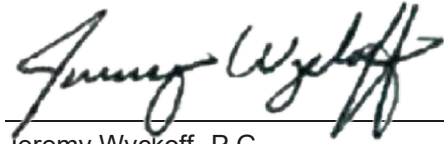
Gladding Cordage Site

Site Number 7-09-009

February 2021



Andrew Vitolins, P.G.
Vice President



Jeremy Wyckoff, P.G.
Project Geologist

PERIODIC REVIEW REPORT

Gladding Cordage Site

Site Number 7-09-009

Prepared for:

New York State Department of
Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, NY 12233

Prepared by:

Arcadis of New York, Inc.
855 Route 146
Suite 210
Clifton Park
New York 12065
Tel 518 250 7300
Fax 518 250 7301

Our Ref.:

30055695

Date:

February 2021

This document is intended only for the use of the individual or entity for which it was prepared and may contain information that is privileged, confidential and exempt from disclosure under applicable law. Any dissemination, distribution or copying of this document is strictly prohibited.

CONTENTS

Acronyms and Abbreviations	iii
1 Executive Summary	1
2 Site Overview	1
2.1 Location and Features	1
2.2 Site History and Remediation	1
3 Remedy Performance, Effectiveness, and Protectiveness	2
4 Operation and Maintenance	3
4.1 Treatment System Operations	3
4.2 System Component Inspections	3
4.3 General Building/Site Inspection	4
5 Groundwater Monitoring Program	5
5.1 Groundwater Monitoring Well Inspection	5
5.2 Water Level Survey	5
5.3 Groundwater and Treatment System Sampling	5
5.3.1 Groundwater Sampling Results	5
5.3.1.1 Shallow Groundwater Monitoring Zone	6
5.3.1.2 Intermediate Groundwater Monitoring Zone	6
5.3.1.3 Deep Groundwater Monitoring Zone	7
5.3.2 Recovery Wells and Effluent Sampling Results	7
5.3.2.3 Recovery Wells	7
5.3.2.3 Effluent	7
6 Conclusions and Recommendations	8
6.1 Conclusions	8
6.2 Recommendations	8
7 Summary and Certification	9
8 References	10

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 Analytical Results (PFAS/1,4-Dioxane)

Table 5-5 Summary of Groundwater Treatment System VOCs (Influent RW-1)

Table 5-6 Summary of Groundwater Treatment System VOCs (Influent RW-2)

Table 5-7 Summary of Groundwater Treatment System PFAS/1,4-Dioxane

Table 5-8 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 (3/26/2019)

Figure 5-2 Intermediate Potentiometric Contour Surface Map (3/26/2019)

Figure 5-3 Deep Potentiometric Contour Surface Map (3/26/2019)

APPENDICES

Appendix A - O&M Checklists

Appendix B - Site Photolog

Appendix C - NYSDEC Site Certification Forms

ACRONYMS AND ABBREVIATIONS

Arcadis	Arcadis of New York, Inc.
Continental	Continental Cordage Company
EC	Engineering Control
GPM	Gallons per minute
GES	Groundwater and Environmental Services, Inc.
HVAC	Heating, Ventilation, and Air Conditioning
IC	Institutional Control
IHWS	Inactive Hazardous Waste Site
IRM	Interim Remedial Measure
MCL	Maximum Contaminant Level
µg/L	Micrograms per liter
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
NYSDEC Class GA	NYSDEC Class GA Ambient Water Quality Standards
NYSDOH	New York State Department of Health
OFPC	Office of Fire Prevention and Control
O&M	Operation and Maintenance
PDB	Passive Diffusion Bag
PFAS	Perfluorinated alkyl substances
PFBS	Perfluorobutanesulfonic acid
PFOA	Perfluorooctanoic acid
PFOS	Perfluorooctanesulfonic acid
PRR	Periodic Review Report
RI/FS	Remedial Investigation/Feasibility Study
ROD	Record of Decision
SIM	selective ion monitoring
SMP	Site Management Plan
SPDES	State Pollutant Discharge Elimination System
Superfund	New York State Inactive Hazardous Waste Site

Periodic Review Report – Gladding Cordage Site

SVI	Soil Vapor Intrusion
1,1,1-TCA	1,1,1-trichlorethane
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound
WA	Work Assignment

1 EXECUTIVE SUMMARY

The New York State Department of Environmental Conservation (NYSDEC) has issued a Work Assignment (WA) (# D009804-11) to Arcadis of New York, Inc., (Arcadis) for Operation, Maintenance, and Monitoring at the Gladding Cordage Site (NYSDEC site number 7-09-009) in South Otselic, Chenango County, New York (the Site). This Periodic Review Report (PRR) documents the findings and observations associated with the monitoring program for the Site for the reporting period from April 2017 through April 2020.

The Site is currently the location of a rope and braided products manufacturing facility. Site investigations conducted from 1984 through 1989 determined that previous practices involving the improper use and/or storage of hazardous substances at the site had resulted in the contamination of soil and groundwater, including a Town of South Otselic municipal water supply well. A Record of Decision (ROD) for the remediation of the Site was issued in 1993. The objectives of the ROD were to minimize the potential for human exposure to the Site-related contaminants; minimize the potential for off-Site migration of Site-related contaminants; and permanently contain, treat and/or dispose of contaminated media. In accordance with the ROD, a groundwater extraction and treatment system was installed in 1995 and operated until 1997, at which time it was shut down due to mechanical problems. The NYSDEC resumed operations of the treatment system in 2004. Since 2007, the treatment system has operated continuously, with only limited interruptions for routine maintenance and power outages. Influent and post-treatment effluent samples from the treatment plant indicate that the system is effective at treating the volatile organic compounds (VOCs) in groundwater extracted from the recovery wells.

Groundwater sampling data from shallow, intermediate, and deep groundwater monitoring zones indicate that the primary VOC in the groundwater is 1,1,1-trichloroethane (1,1,1-TCA) and that the concentrations of 1,1,1-TCA have generally decreased over time. The NYSDEC is currently conducting a remedial optimization study to evaluate the effectiveness of the current remediation strategy at meeting the objectives of the 1993 ROD. The results of the evaluation will be reported separately. It is recommended that the next PRR be prepared upon the implementation of the optimization study recommendations.

2 SITE OVERVIEW

2.1 Location and Features

The Gladding Cordage Site is located at 110 County Road 13A, South Otselic, in Chenango County (Figure 2-1). The Site is approximately 7.5 acres and includes an active manufacturing facility, a groundwater treatment system (Figure 2-2), and a monitoring well network (Figure 2-3). The Site is currently classified as a Class 4 Inactive Hazardous Waste Site (IHWS).

2.2 Site History and Remediation

The Gladding Cordage Company historically manufactured braided line and rope at the Site using a variety of chemical solvents in the process. In May 1984, NYSDEC determined that the 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-TCA; however, the company did not adequately define the nature and extent of the contamination or agree to implement a State-approved remedial program. The contamination was also detected in the nearby municipal water supply wells. In 1987, Gladding Cordage Company installed a six-inch diameter groundwater recovery well with an air stripper to treat groundwater extracted from the Site. These actions were taken without NYSDEC approval and were found to be 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).

While Gladding Cordage Company was under Chapter 11 Bankruptcy litigation, Continental Cordage Company (Continental), an affiliate of Gladding Braided Products, purchased the property and resumed manufacturing operations while agreeing to the following conditions (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 State Pollutant Discharge Elimination System (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.

The remainder of the investigation and remediation work at the Site has been conducted the NYSDEC under the IHWS Program since 1987. An RI/FS was conducted between 1988 and 1989 found that that a plume of contaminated groundwater extended approximately 2,000 feet downgradient from the Site; and was up to 500 feet wide in places. Soil contamination was also found in limited areas of the Site associated with past disposal practices. In 2003, Gladding Braided Products was purchased by a new owner. The 2020 Town of Otselic Tax Roll lists Gladding Braided Products, LLC. as the current property owner.

3 REMEDY PERFORMANCE, EFFECTIVENESS, AND PROTECTIVENESS

The ROD for the Site was approved in 1993 (NYSDEC 1993) with the following remedial action objectives:

- 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.

The ROD stipulated the following remedial actions:

- 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.
- Long-term monitoring to assess 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 it was not in continuous operation during this interval due to mechanical problems. In 1997, the system was shut down completely and remained idle until 2004, when the system was repaired and restarted by NYSDEC (NYSDEC 2004).

From April 2007 to February 2020, Site operations have been performed by Arcadis on behalf of the NYSDEC. Operation and maintenance (O&M) of the groundwater treatment plant transitioned from Arcadis to Groundwater and Environmental Services, Inc. (GES), a NYSDEC Remedial Services Contractor, beginning in March 2020 due to a lag in contract timelines. The groundwater treatment system has generally operated continuously from April 2007 until present, except for minor shutdowns for routine maintenance, power outages, and/or system upgrades.

In December 2012, a soil vapor intrusion (SVI) evaluation was performed at the site, including two off-Site buildings. Results of the investigation were presented to NYSDEC and New York State Department of Health (NYSDOH). Based on the results of the investigation, no further action for vapor intrusion was requested by NYSDEC or NYSDOH.

The NYSDEC is currently conducting a remedial optimization study to evaluate the effectiveness of the groundwater extraction and treatment remediation strategy at meeting the objectives of the 1993 ROD. The results of the evaluation, and, if deemed necessary, changes to the remediation strategy, will be presented under separate cover and subsequently included in the next PRR.

4 OPERATION AND MAINTENANCE

O&M inspections were conducted monthly from April 2017 through April 2020 and include the following elements:

- Treatment system operation
- System components and parameters, including recovery well flow and pressure, air stripper pressures and air stripper blower motor operating frequency,
- General building/Site conditions

The O&M checklists for April 2017 through April 2020 inspections are presented in Appendix A. Photos of each well and site features are presented in Appendix B.

4.1 Treatment System Operations

Treatment system operations were evaluated to verify that the overall system was functioning properly and that alarms that were triggered did not indicate a more significant issue. As an example, a power failure is a common trigger of an alarm that requires a system restart when power returns.

From April 2017 through April 2020, system downtime was directly related to power outages that caused the system to shut off for varying amounts of time. In 2017, the system ran for approximately 95% of the year. In 2018, the system ran approximately 60% of the year due to a deteriorated utility pole which fell during a storm and pulled down the power feed and communications line to the treatment building. Utility pole repairs are discussed further in Section 4.3. In 2019, the system ran approximately 83% of the year. From January 2020 to April 2020, the system has run approximately 92% of the time. 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. Based on the monthly recovery well data, the combined average flow rate from RW-1 and RW-2 since 2017 has been approximately 40 gallons per minute (GPM). A total of 52,455,948 gallons of groundwater were recovered and treated during the reporting period.

4.2 System Component Inspections

As part of the O&M inspections, the various components of the treatment system (recovery wells, air stripper, air stripper blower, and groundwater source heat pump) are individually inspected to assess changes in operation.

Observations from April 2017 through April 2020 inspections are presented in Appendix A. As shown, only routine maintenance and repairs were performed on system components. A summary of the maintenance and repairs is provided below:

- On June 29, 2017, the treatment system was shut down to perform maintenance and cleaning of the air stripper. The air stripper was disassembled, and the air stripper trays, and demister pad were cleaned using an acid solution.

- On February 11, 2019, Arcadis personnel replaced the RW-1 flow meter.
- On March 14, 2019, the blower motor fan in the Heat Exchanger was replaced.
- On July 26, 2019, a new compressor and drier unit for the heat pump was installed. The new compressor and drier assembly were ordered directly from the manufacturer. Evacuation of refrigerant, removal and replacement of compressor and drier unit, soldering of heat pump connections, and recharging and leak testing of refrigerant was completed by a third-party heating ventilation and air conditioning (HVAC) contractor.
- On August 15, 2019, a replacement sump pump for the building floor sump was installed.
- On October 25, 2019, the batteries in the HVAC temperature gauge were replaced.
- On January 13, 2020, Arcadis personnel replaced the emergency Exit sign based on results of a New York State Office of Fire Prevention and Control (OFPC) fire inspection.

All other inspections performed between April 2017 and the April 2020 indicated that no major issues were identified with the performance and/or operation of the treatment system.

4.3 General Building/Site Inspection

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

Based on the observations from 2017 through 2020, the Site has been well-kept and the grounds appear to have been maintained during all inspections.

In April and May 2018, the groundwater extraction and treatment system was shut down due to a deteriorated utility pole which fell during a storm and pulled down the power feed and communications line to the treatment building. In May 2018, electrical and utility pole repairs were completed by Syracuse Utilities and Bagnall Electric, respectively. The repairs included installing a new utility pole, security light, and electric cables from the existing meter pan to the treatment building power panel. The system was restarted on May 23, 2018 and phone service was restored to the site in late June 2018.

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 once every five-quarters. Since the last (2017) PRR Cycle, groundwater sampling events were performed on October 25 and 26, 2017 and March 25 and 26, 2019. The recovery wells (influent to the treatment plant) and post-treatment effluent are sampled monthly. On October 25, 2017 and September 26, 2019, the treatment system was sampled for emerging contaminants in accordance with the NYSDEC project manager.

5.1 Groundwater Monitoring Well Inspection

Each well is inspected to evaluate the integrity and suitability for collecting groundwater samples and water level data. Each well was identified as being in acceptable condition during 2017 through April 2020 visits and no repairs were required.

5.2 Water Level Survey

Prior to collecting groundwater samples, water levels were measured to the nearest hundredth of a foot during each groundwater monitoring event. Table 5-1 summarizes the groundwater elevations measured and recorded during the October 2017 and March 2019 groundwater sampling events. Table 5-2 summarizes the groundwater elevations measured at the recovery wells for the same time period. The March 2019 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) groundwater monitoring intervals. Potentiometric maps for previous groundwater monitoring events have been provided in the applicable annual monitoring reports.

5.3 Groundwater and Treatment System Sampling

5.3.1 Groundwater Sampling Results

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 low-flow sampling techniques in October 2017 and passive diffusion bags (PDBs) in March 2019, respectively.

Groundwater and treatment system samples were sent to Con-test Analytical Laboratory in East Longmeadow, Massachusetts by chain-of-custody procedures and analyzed for VOCs by United States Environmental Protection Agency (USEPA) Method 624. In October 2017, groundwater and treatment system samples were also sent to TestAmerica in Edison, New Jersey and West Sacramento, California by chain-of-custody procedures and analyzed for emerging compounds 1,4-Dioxane by USEPA Method 8270C selection ion monitoring (SIM) and perfluorinated alkyl substances (PFAS) by Method WS-LC-0025 At1, respectively.

Groundwater sample results from the 2017 and 2019 sampling events are summarized in Table 5-3 with available historical analytical results. The following subsections present a summary of the first quarter 2019 analytical results by sample interval.

5.3.1.1 Shallow Groundwater Monitoring Zone

As shown in Table 5-3, 1,1,1-TCA was detected at concentrations greater than the corresponding NYSDEC Class GA Ambient Water Quality Standards (NYSDEC Class GA) in one of the five groundwater samples collected from the shallow groundwater monitoring network. The 1,1,1-TCA results from the groundwater sample collected at monitoring well TW-14S (29 micrograms per liter [$\mu\text{g/L}$]) exceeded the NYSDEC Class GA Standard of 5 $\mu\text{g/L}$. VOCs were not detected at concentrations greater than the corresponding NYSDEC Class GA Standards in the other four groundwater samples collected from the shallow monitoring zone.

Overall, the shallow concentrations of 1,1,1-TCA have been relatively consistent since the earliest results in 2007. Wells with 1,1,1-TCA concentrations historically greater than the NYSDEC Class GA Standard still show concentrations above the NYSDEC Standard in the most recent sampling event.

As shown in Table 5-4, groundwater samples collected from the shallow groundwater monitoring network did not exceed the USEPA Lifetime Health Advisory, NYSDEC Guidance Values, or the New York State (NYS) Maximum Contaminant Levels (MCLs) for PFAS or 1,4-dioxane.

5.3.1.2 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-4I (16.7 $\mu\text{g/L}$), TW-14I (36.9 $\mu\text{g/L}$), and TW-15 (35.9 $\mu\text{g/L}$) were greater than the applicable NYSDEC Class GA Standard of 5 $\mu\text{g/L}$. The sample TW-X was collected from monitoring well TW-15 and submitted as a field duplicate in the 2019 sampling event. As shown in Table 5-3, the concentrations of 1,1,1-TCA are very similar in the TW-15 (35.9 $\mu\text{g/L}$) sample and the field duplicate (37 $\mu\text{g/L}$). No other VOCs were detected in groundwater samples collected from intermediate monitoring wells at concentrations greater than the applicable NYSDEC Class GA Standards.

Intermediate groundwater monitoring results since 2007 indicate a general decrease in concentrations of 1,1,1-TCA. However, since the magnitude of the decrease is minimal over this period, there may be a source that is still contributing to groundwater. In addition, since the area of impacted groundwater has remained relatively consistent, it suggests that groundwater extraction is not having a significant impact at reducing contaminate mass.

As shown in Table 5-4, concentrations of perfluorooctanoic acid (PFOA) in groundwater samples collected from TW-9I (30.1 nanograms per liter [ng/L]) and TW-15 (10.2 ng/L) exceeded the NYSDEC Guidance Value and proposed NYS MCL of 10 ng/L . In addition, perfluorooctanesulfonic acid (PFOS) exceeded the NYSDEC Guidance Value and proposed NYS MCL of 10 ng/L at monitoring well TW-9I (28.3 ng/L).

As presented in Table 5-4, the groundwater sample collected from monitoring well TW-15 and the field duplicate, TW-X-DUP, exceeded the NYS MCL of 1 $\mu\text{g/L}$ for 1,4-dioxane at concentrations of 3.2 $\mu\text{g/L}$ and 2.7 $\mu\text{g/L}$, respectively.

5.3.1.3 Deep Groundwater Monitoring Zone

As shown in Table 5-3, 1,1,1-TCA concentrations exceeded the corresponding NYSDEC Class GA Standard of 5 µg/L in groundwater samples collected from deep monitoring wells TW-5D (15.6 µg/L) and TW-14D (8.45 µg/L). No other VOCs were detected in groundwater samples collected from 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, except for the October 2013 sample collected from TW-14D (56 µg/L).

As shown in Table 5-4, PFOA and PFOS exceeded the NYSDEC Guidance Values and proposed NYS MCLs of 10 ng/L in the groundwater sample collected from TW-9D (13.7 ng/L and 32.1 ng/L, respectively).

As presented in Table 5-4, groundwater samples collected from the deep groundwater monitoring zone did not exceed the NYS MCL of 1 µg/L for 1,4-dioxane.

5.3.2 Recovery Wells and Effluent Sampling Results

5.3.2.3 Recovery Wells

Tables 5-5 and 5-6 present this reporting period's VOC results for RW-1 and RW-2, respectively. The most commonly detected VOC was 1,1,1-TCA. In 2019, the average 1,1,1-TCA concentrations were 37.3 µg/L and 32 µg/L for RW-1 and RW-2, respectively. The concentrations of 1,1,1-TCA in the samples from RW-1 and RW-2 have been generally asymptotic since 2015, with only minor deviations. This may suggest a source of 1,1,1-TCA is still present in soil that is contributing to groundwater.

In October 2017 and September 2019, treatment system samples were also analyzed for emerging compounds PFAS and 1,4-Dioxane. Table 5-7 summarizes the PFAS and 1,4-dioxane concentrations analyzed from the October 2017 and September 2019 treatment system samples. PFAS were detected in the samples collected from RW-1 and RW-2 during both sampling events, however, these results did not exceed the USEPA Lifetime Health Advisory, the NYSDEC Guidance Values, or the NYS MCLs for PFOA or PFOS. 1,4-dioxane was detected at estimated concentration of 0.29 µg/L in the groundwater sample collected from RW-1 in 2017 but did not exceed the NYS MCL.

5.3.2.3 Effluent

Table 5-8 presents the effluent VOC results for this reporting period. All VOC constituents, including 1,1,1-TCA, did not exceed the NYSDEC Class GA Standards for these samples. As presented in Table 5-7, groundwater samples collected from the effluent did not exceed the USEPA Lifetime Health Advisory, NYSDEC Guidance Values, or NYS MCLs for PFAS or 1,4-dioxane. Effluent analytical results indicate that the system discharge was in compliance with limitations stipulated in the SPDES permit.

6 CONCLUSIONS AND RECOMMENDATIONS

6.1 Conclusions

Based on inspections completed in 2017 through April 2020, the groundwater recovery wells and treatment system have been operating to the extent allowed by the current equipment/recovery wells. Groundwater monitoring wells are in acceptable condition and allow for the sampling and characterization of groundwater quality. Groundwater monitoring data indicate a general reduction of 1,1,1-TCA since 2007. However, the area that remains impacted is generally unchanged and the reduction in concentrations is minimal given the timeframe that remediation has been occurring.

Treatment system analytical results from 2019 indicate that the recovery wells are extracting groundwater with an average concentration of 1,1,1-TCA of 34.6 µg/L. However, based on sustained concentrations of 1,1,1-TCA, the extraction wells are not be able to remove contamination from recalcitrant areas of the source. The treatment system consistently discharges effluent that is either non-detect for VOCs or at concentrations less than the applicable NYSDEC Standards.

6.2 Recommendations

As noted herein, the NYSDEC is currently conducting a remedial optimization study to evaluate the effectiveness of the groundwater extraction and treatment remediation strategy at meeting the objectives of the 1993 ROD. The results of the evaluation, and, if deemed necessary, changes to the remediation strategy, will be presented under separate cover and subsequently included in the next PRR.

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 from April 2017 through April 2020, with groundwater monitoring samples collected in October 2017 and March 2019. The emerging contaminant sampling events were conducted in October 2017 and September 2019. The treatment system is functioning and the overall facility condition, along with the state of monitoring and recovery wells, is acceptable. Contaminant concentrations fluctuate, but in general are either consistent with past results or have decreased slightly over time.

The completed NYSDEC IC/EC certification is provided as Appendix C.

8 REFERENCES

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.

TABLES



TABLE 4-1
TREATMENT SYSTEM STATUS AND FLOW SUMMARY
GLADDING CORDAGE SITE
SOUTH OTSELIC, NEW YORK
NYSDEC SITE NO. 7-09-009

Date	System Operation (days)	System On-time (% of possible days)	Well On-time		Flow Rates		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-17	31	100%	100%	100%	25.7	23.7	50,412,604	46,629,621	1,213,626	1,139,731	2,353,357	6,229,301
February-17	28	100%	100%	100%	25.5	23.6	51,438,294	47,591,095	1,025,690	961,474	1,987,164	
March-17	30	97%	100%	100%	25.4	23.7	52,415,109	48,503,060	976,815	911,965	1,888,780	
April-17	30	100%	100%	100%	25.0	23.6	53,511,717	49,527,491	1,096,608	1,024,431	2,121,039	6,300,342
May-17	31	100%	100%	100%	24.5	23.4	54,444,161	50,411,047	932,444	883,556	1,816,000	
June-17	29	97%	100%	100%	19.7	24.1	55,646,695	51,571,816	1,202,534	1,160,769	2,363,303	
July-17	23	74%	100%	100%	15.9 *	23.7	56,191,182	52,359,043	544,487	787,227	1,331,714	4,577,965
August-17	22	71%	100%	100%	16.5 *	23.8	56,726,638	53,145,185	535,456	786,142	1,321,598	
September-17	30	100%	100%	100%	16.4 *	24.0	57,513,034	54,283,442	786,396	1,138,257	1,924,653	
October-17	31	100%	100%	100%	15.9 *	23.2	58,219,935	55,325,647	706,901	1,042,205	1,749,106	5,305,181
November-17	30	100%	100%	100%	15.9 *	23.2	58,901,735	56,353,922	681,800	1,028,275	1,710,075	
December-17	31	100%	100%	100%	17.6 *	23.9	59,686,940	57,414,717	785,205	1,060,795	1,846,000	
Total Flow 2017					20.3	23.7			10,487,962	11,924,827	22,412,789	

Definitions:

gpm - Gallons per minute

* - flow meter not reading properly

% - percent

Notes:

1 - System started on 8/23/2007.

TABLE 4-1
TREATMENT SYSTEM STATUS AND FLOW SUMMARY
GLADDING CORDAGE SITE
SOUTH OTSELIC, NEW YORK
NYSDEC SITE NO. 7-09-009

Date	System Operation (days)	System On-time (% of possible days)	Well On-time		Flow Rates		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-18	31	100%	100%	100%	18.0	24.2	60,433,982	58,414,531	747,042	999,814	1,746,856	4,833,473
February-18	23	82%	100%	100%	19.3	23.7	61,058,149	59,201,714	624,167	787,183	1,411,350	
March-18	29	94%	100%	100%	18.9	24.0	61,800,025	60,135,105	741,876	933,391	1,675,267	
April-18	4	13%	4%	4%	19.0	23.5	62,019,377	60,410,372	219,352	275,267	494,619	1,458,414
May-18	0	0%	0%	0%	19.1	23.6	62,365,293	60,849,209	345,916	438,837	784,753	
June-18	4	13%	4%	4%	18.3	23.5	62,442,457	60,951,087	77,164	101,878	179,042	
July-18	19	63%	100%	100%	17.8	23.6	62,731,304	61,333,323	288,847	382,236	671,083	3,201,119
August-18	16	52%	100%	100%	19.6	23.9	63,023,435	61,929,590	292,131	596,267	888,398	
September-18	30	100%	100%	100%	0.0 *	24.6	63,647,602	62,829,352	741,876	899,762	1,641,638	
October-18	20	65%	100%	100%	0.0 *	24.5	63,936,449	63,724,027	288,847	894,675	1,183,522	3,360,388
November-18	18	60%	100%	100%	0.0 *	23.5	64,228,580	64,451,177	292,131	727,150	1,019,281	
December-18	25	81%	100%	100%	0.0 *	23.4	64,517,427	65,319,915	288,847	868,738	1,157,585	
Total Flow 2018					16.7	23.8			4,078,371	5,414,635	12,853,394	

Definitions:

gpm - Gallons per minute

* - flow meter not reading properly

% - percent

Notes:

1 - System started on 8/23/2007.

TABLE 4-1
TREATMENT SYSTEM STATUS AND FLOW SUMMARY
GLADDING CORDAGE SITE
SOUTH OTSELIC, NEW YORK
NYSDEC SITE NO. 7-09-009

Date	System Operation (days)	System On-time (% of possible days)	Well On-time		Flow Rates		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-19	22	71%	100%	100%	0 *	22.7	64,635,136	66,057,723	117,709	737,808	855,517	3,639,634
February-19	20	71%	100%	100%	0 *	22.7	64,924,058	66,815,952	288,922	758,229	1,047,151	
March-19	29	94%	100%	100%	17.1	22.2	65,687,411	67,789,565	763,353	973,613	1,736,966	
April-19	19	61%	100%	100%	17.2	21.8	66,104,842	68,305,647	417,431	516,082	933,513	4,057,080
May-19	31	100%	100%	100%	17.2	21.5	66,882,614	69,275,331	777,772	969,684	1,747,456	
June-19	24	77%	100%	100%	17.0	21.5	67,496,022	70,038,034	613,408	762,703	1,376,111	
July-19	30	97%	100%	100%	16.9	21.8	68,239,052	70,976,048	743,030	938,014	1,681,044	4,912,641
August-19	30	97%	100%	100%	16.8	21.7	68,971,487	71,919,204	732,435	943,156	1,675,591	
September-19	27	87%	100%	100%	17.1	23.5	69,636,342	72,810,355	664,855	891,151	1,556,006	
October-19	29	94%	100%	100%	16.8	22.2	70,381,253	73,808,871	744,911	998,516	1,743,427	4,585,676
November-19	16	52%	100%	100%	16.0	22.4	70,885,743	74,493,869	504,490	684,998	1,189,488	
December-19	30	97%	100%	100%	16.4	22.5	71,580,987	75,451,386	695,244	957,517	1,652,761	
Total Flow 2019					16.9	22.2			7,063,560	10,131,471	17,195,031	

Definitions:

gpm - Gallons per minute

* - flow meter not reading properly

% - percent

Notes:

1 - System started on 8/23/2007.

TABLE 4-1
TREATMENT SYSTEM STATUS AND FLOW SUMMARY
GLADDING CORDAGE SITE
SOUTH OTSELIC, NEW YORK
NYSDEC SITE NO. 7-09-009

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-20	31	100%	100%	100%	16.7	22.5	72,358,759	76,437,247	777,772	985,861	1,763,633	4,802,338
February-20	27	93%	100%	100%	16.0	22.7	73,023,614	77,283,169	664,855	845,922	1,510,777	
March-20	27	87%	100%	100%	15.6	21.2	73,688,469	78,146,242	664,855	863,073	1,527,928	
April-20	26	87%	100%	100%	15.4	20.3	74,353,324	78,903,084	664,855	756,842	1,421,697	1,421,697
Total Flow 2020 (January-April)					15.9	21.7			2,772,337	3,451,698	6,224,035	

Definitions:

gpm - Gallons per minute

* - flow meter not reading properly

% - percent

Notes:

1 - System started on 8/23/2007.

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

Well ID	Monitored Interval	Measuring Point Elevation (feet) ⁽¹⁾	10/25/2017		3/12/2019	
			DTW (feet)	Elevation (feet amsl)	DTW (feet)	Elevation (feet amsl)
TW-1	Shallow	1212.71 ⁽⁴⁾	7.80	1204.91	7.60	1205.11
TW-2S	Shallow	1212.57 ⁽⁴⁾	8.60	1203.97	8.57	1204.00
TW-2I	Intermediate	1212.16 ⁽⁴⁾	8.34	1203.82	8.24	1203.92
TW-2D	Deep	1212.26 ⁽⁴⁾	8.46	1203.80	8.53	1203.73
TW-3S	Shallow	1213.60	10.05	1203.55	9.97	1203.63
TW-3I	Intermediate	1213.19	9.35	1203.84	9.22	1203.97
TW-3D	Deep	1213.47	9.61	1203.86	9.46	1204.01
TW-4I	Intermediate	1209.96 ⁽²⁾	7.13	1202.83	6.71	1203.25
TW-5S	Shallow	1211.78	8.30	1203.48	8.49	1203.29
TW-5I	Intermediate	1211.89	8.76	1203.13	8.85	1203.04
TW-5D	Deep	1212.55	9.66	1202.89	9.39	1203.16
TW-6S	Shallow	1210.08 ⁽⁵⁾	7.13	1202.95	6.75	1203.33
TW-6I	Intermediate	1210.61 ⁽⁵⁾	7.76	1202.85	7.48	1203.13
TW-6D	Deep	1210.36 ⁽⁵⁾	7.46	1202.90	7.23	1203.13
TW-7S	Shallow	1213.48	9.36	1204.12	8.91	1204.57
TW-7I	Intermediate	1213.60	9.74	1203.86	9.59	1204.01
TW-7D	Deep	1213.25	9.50	1203.75	9.39	1203.86
TW-9I	Intermediate	1213.75 ⁽⁴⁾	10.34	1203.41	10.30	1203.45
TW-9D	Deep	1213.84 ⁽⁴⁾	10.90	1202.94	10.81	1203.03
TW-10D	Deep	1209.58 ⁽⁵⁾	6.85	1202.73	Not Measured	N/A
TW-12I	Intermediate	N/A	7.51	N/A	8.05	N/A
TW-12D	Deep	N/A	8.20	N/A	8.71	N/A
TW-14S	Shallow	1210.05 ⁽²⁾	6.80	1203.25	6.39	1203.66
TW-14I	Intermediate	1210.17 ⁽²⁾	7.30	1202.87	7.03	1203.14
TW-14D	Deep	1209.98 ⁽²⁾	7.16	1202.82	6.81	1203.17
TW-15	Intermediate	1212.94 ⁽²⁾	9.85	1203.09	9.33	1203.61

Definitions:

AMSL - Above Mean Sea Level

DTW - Depth to water

N/A - Not Available

Notes:

1. Measuring point elevations from: Operation and Maintenance Manual, Volume I, Gladding Cordage Site, TAMS Consulting, Inc., 1996.
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 SITE
SOUTH OTSELIC, NEW YORK
NYSDEC SITE NO. 7-09-009

Recovery Well ID	Top of Casing Elevation (feet amsl)	Transducer Cable Length (feet)	Transducer Elevation (feet amsl)	10/25/2017		3/12/2019	
				Pumping Level Above Transducer (feet)	Elevation (feet amsl)	Pumping Level Above Transducer (feet)	Elevation (feet)
RW-1	1209.30	40.00	1169.30	29.46	1198.76	30.21	1199.51
RW-2	1212.20	65.00	1147.20	54.92	1202.12	55.01	1202.21

Definitions:

AMSL - Above Mean Sea Level

Notes:

1. Measuring point elevations from: Operation and Maintenance Manual, Volume I, Gladding Cordage Site, TAMS Consulting, Inc., 1996.
2. Pumping level recorded from instrument control panel reading.

TABLE 5-3
SUMMARY OF GROUNDWATER DETECTIONS (VOCs)
GLADDING CORDAGE SITE
SOUTH OTSELIC, NEW YORK
NYSDEC SITE NO. 7-09-009



Sample ID	NYSDEC Class	TW-1	TW-2S	TW-2I	TW-2D	TW-3S	TW-3S	TW-3S	TW-3S	TW-3S	TW-3S	TW-3S	TW-3S	TW-3S	TW-3S	TW-3S
Sampling Date	GA Standard	6/25/2009	6/25/2009	6/25/2009	6/25/2009	9/6/2007	10/17/2008	6/25/2009	3/23/2010	6/21/2011	7/24/2012	10/29/2013	5/6/2015	9/30/2016	10/26/2017	3/26/2019
Volatile Organic Compounds (µg/L)																
1,1,1-Trichloroethane	5.0	0.4 U	0.4 U	1.4	0.4 U	0.32 U	3.4	0.4 U	6.2	4.0	2.0	2.9	2.0	2.1	1.1 J	0.69 J
1,1-Dichloroethane	5.0*	0.36 U	0.36 U	0.36 U	0.36 U	0.38 U	1.0 U	0.36 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	1.3 J	2.0 U
1,1-Dichloroethene	5.0	0.47 U	0.47 U	0.47 U	0.47 U	0.42 U	1.0 U	0.47 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	3.0	0.32 U	0.32 U	0.32 U	0.32 U	0.54 U	1.0 U	0.32 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	0.16 J	2.0 U
2-Butanone	50	1.3 U	1.3 U	1.3 U	1.3 U	1.1 U	5.0 U	1.3 U	5.0 U	5.0 U	1.4 J			20 U		
Acetone	50	10	11	9.5	19	2.3 U	5.0 U	13	14	64	12			50 U		
Benzene	1.0	0.32 U	0.32 U	0.32 U	0.32 U	0.39 U	1.0 U	0.32 U	1.1	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	5.0	0.62 U	0.62 U	0.62 U	0.62 U	1.1 U	1.0 U	0.62 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U
Chloroethane	5.0	0.66 U	0.66 U	0.66 U	0.66 U	0.83 U	1.0 U	0.66 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroform	7.0	0.34 U	0.34 U	0.34 U	0.34 U	0.33 U	1.0 U	0.34 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloromethane	5.0	0.54 U	0.54 U	0.54 U	0.54 U	0.34 U	1.0 U	0.54 U	1.0 U	1.0 U	0.41 J	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	5.0	0.35 U	0.35 U	0.35 U	0.35 U	0.29 U	1.0 U	0.35 U	1.0 U	1.0 U	0.5 U			1.0 U		
Tetrachloroethene	5.0	0.27 U	0.27 U	0.27 U	0.27 U	0.48 U	1.0 U	0.27 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
Toluene	5.0	0.37 U	0.37 U	0.37 U	0.37 U	0.36 U	1.0 U	0.37 U	1.0 U	1.0 U	0.5 U	1.0 U	0.1 J	1.0 U	1.0 U	1.0 U
Trichloroethene	5.0	0.28 U	0.28 U	0.28 U	0.28 U	0.46 U	1.0 U	0.28 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U

Sample ID	NYSDEC Class	TW-3I	TW-3I	TW-3I	TW-3I	TW-3I	TW-3I	TW-3I	TW-3I	TW-3I	TW-3I	TW-3I
Sampling Date	GA Standard	9/6/2007	10/17/2008	6/25/2009	3/23/2010	6/21/2011	7/24/2012	10/29/2013	5/6/2015	9/30/2016	10/25/2017	3/26/2019
Volatile Organic Compounds (µg/L)												
1,1,1-Trichloroethane	5.0	9.1	6.7	0.4 U	1.0 U	1.0 U	5.0	6.1	3.6	4.7	0.98 J	1.79 J
1,1-Dichloroethane	5.0*	0.38 U	1.0 U	0.36 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
1,1-Dichloroethene	5.0	0.42 U	1.0 U	0.47 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	3.0	0.54 U	1.0 U	0.32 U	1.0 U	1.0 U	0.5 U	2.0 U	11 U	1.0 U	1.0 U	2.0 U
2-Butanone	50	1.1 U	5.0 U	1.3 U	5.0 U	5.0 U	2.6 J			20 U		
Acetone	50	2.3 U	5.0 U	16	13	6.0	14			50 U		
Benzene	1.0	0.39 U	1.0 U	0.32 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	5.0	1.1 U	1.0 U	0.62 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U
Chloroethane	5.0	0.83 U	1.0 U	0.66 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroform	7.0	0.33 U	1.0 U	0.34 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloromethane	5.0	0.34 U	1.0 U	0.54 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	5.0	0.29 U	1.0 U	0.35 U	1.0 U	1.0 U	0.5 U			1.0 U		2.0 U
Tetrachloroethene	5.0	0.48 U	1.0 U	0.27 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
Toluene	5.0	0.36 U	1.0 U	0.37 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5.0	0.46 U	1.0 U	0.28 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U

Definitions:
* - NYSDEC Principal Organic Contaminant Standard of 5 µg/L applies to this compound.
µg/L - microgram per liter
D - Sample was diluted.
J - Compound was detected below the reporting limit or concentration is estimated for TICS.
NYSDEC - New York State Department of Environmental Conservation
U - The compound was not detected at the indicated concentration.

Notes:
1. Concentrations detected above the NYSDEC Class GA Standard are highlighted in yellow.
2. Blank space indicates sample not analyzed for that compound.
3. TW-X is a duplicate sample collected at TW-15.

TABLE 5-3
SUMMARY OF GROUNDWATER DETECTIONS (VOCS)
GLADDING CORDAGE SITE
SOUTH OTSELIC, NEW YORK
NYSDEC SITE NO. 7-09-009

Sample ID Sampling Date	NYSDEC Class GA Standard	TW-3D 9/6/2007	TW-3D 10/17/2008	TW-3D 6/25/2009	TW-3D 3/23/2010	TW-3D 6/21/2011	TW-3D 7/24/2012	TW-3D 10/29/2013	TW-3D 5/6/2015	TW-3D 9/30/2016	TW-3D 10/26/2017	TW-3D 3/26/2019
Volatile Organic Compounds (µg/L)												
1,1,1-Trichloroethane	5.0	0.32 U	1.3	1.4	1.0 U	1.0 U	1.2	2.0 U	0.96 J	1.0 U	0.84 J	0.57 J
1,1-Dichloroethane	5.0*	0.38 U	1.0 U	0.36 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
1,1-Dichloroethene	5.0	0.42 U	1.0 U	0.47 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	3.0	0.54 U	1.0 U	0.32 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	1.0 U	2.0 U
2-Butanone	50	1.1 U	5.0 U	1.3 U	5.0 U	5.0 U	2.7 J			20 U		
Acetone	50	2.3 U	5.0 U	11	13	9.5	17			50 U		
Benzene	1.0	0.39 U	1.0 U	0.32 U	0.76 J	1.9	0.67 J	1.0 U	1.9	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	5.0	1.1 U	1.0 U	0.62 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U
Chloroethane	5.0	0.83 U	1.0 U	0.66 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroform	7.0	0.33 U	1.0 U	0.34 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloromethane	5.0	0.34 U	1.0 U	0.54 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	5.0	0.29 U	1.0 U	0.35 U	1.0 U	1.0 U	0.5 U			1.0 U		
Tetrachloroethene	5.0	0.48 U	1.0 U	0.27 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
Toluene	5.0	0.36 U	1.0 U	0.37 U	1.0 U	1.0 U	0.5 U	1.0 U	0.11 J	1.0 U	1.0 U	1.0 U
Trichloroethene	5.0	0.46 U	1.0 U	0.28 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U

Sample ID Sampling Date	NYSDEC Class GA Standard	TW-4I 9/6/2007	TW-4I 10/17/2008	TW-4I 6/25/2009	TW-4I 3/23/2010	TW-4I 6/21/2011	TW-4I 7/24/2012	TW-4I 10/29/2013	TW-4I 5/6/2015	TW-4I 9/30/2016	TW-4I 10/25/2017	TW-4I 3/26/2019
Volatile Organic Compounds (µg/L)												
1,1,1-Trichloroethane	5.0	6.6	1.1	0.4 U	23	33	28	23	20	20	19	16.7
1,1-Dichloroethane	5.0*	0.38 U	3.8	3.8	2.5	5.3	4.4	4.4	4.1	4.6	6.2	3.6
1,1-Dichloroethene	5.0	0.42 U	1.0 U	0.47 U	1.0 U	1.6	0.5 U	2.0 U	0.3 J	1.0 U	0.31 J	2.0 U
1,4-Dichlorobenzene	3.0	0.54 U	1.0 U	0.32 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0	1.0 U	2.0 U	2.0 U
2-Butanone	50	1.1 U	5.0 U	1.3 U	5.0 U	5.0 U	2.2 J			20 U		
Acetone	50	2.3 U	5.0 U	16	18	20	15			50 U		
Benzene	1.0	0.39 U	1.0 U	0.32 U	1.0 U	1.0 U	0.5 U	1.0 U	0.15 J	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	5.0	1.1 U	1.0 U	0.62 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U
Chloroethane	5.0	0.83 U	1.0 U	0.66 U	1.0 U	2.5	2.8	2.3	1.7 J	2.0 U	2.0 J	2.0 U
Chloroform	7.0	0.33 U	1.0 U	0.34 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloromethane	5.0	0.34 U	1.0 U	0.54 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	5.0	0.29 U	1.0 U	0.35 U	1.0 U	1.0 U	0.5 U			1.0 U		
Tetrachloroethene	5.0	0.48 U	1.0 U	0.27 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
Toluene	5.0	0.36 U	1.0 U	0.37 U	1.0 U	1.0 U	0.5 U	1.0 U	0.11 J	1.0 U	1.0 U	1.0 U
Trichloroethene	5.0	0.46 U	1.0 U	0.28 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U

Definitions:
* - NYSDEC Principal Organic Contaminant Standard of 5 µg/L applies to this compound.
µg/L - microgram per liter
D - Sample was diluted.
J - Compound was detected below the reporting limit or concentration is estimated for TICS.
NYSDEC - New York State Department of Environmental Conservation
U - The compound was not detected at the indicated concentration.

Notes:
1. Concentrations detected above the NYSDEC Class GA Standard are highlighted in yellow.
2. Blank space indicates sample not analyzed for that compound.
3. TW-X is a duplicate sample collected at TW-15.

TABLE 5-3
SUMMARY OF GROUNDWATER DETECTIONS (VOCS)
GLADDING CORDAGE SITE
SOUTH OTSELIC, NEW YORK
NYSDEC SITE NO. 7-09-009

Sample ID Sampling Date	NYSDEC Class GA Standard	TW-5S 9/6/2007	TW-5S 10/17/2008	TW-5S 6/25/2009	TW-5S 3/23/2010	TW-5S 6/21/2011	TW-5S 7/24/2012	TW-5S 10/29/2013	TW-5S 5/8/2015	TW-5S 9/30/2016	TW-5S 10/25/2017	TW-5S 3/26/2019
Volatile Organic Compounds (µg/L)												
1,1,1-Trichloroethane	5.0	0.32 U	11	13	7.4	7.9	11	7.9	2.0 J	7.1	13	3.3
1,1-Dichloroethane	5.0*	0.38 U	1.0 U	0.48 J	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	1.2 J	2.0 U
1,1-Dichloroethene	5.0	0.42 U	1.0 U	0.47 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	3.0	0.54 U	1.0 U	0.32 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
2-Butanone	50	1.1 U	5.0 U	1.3 U	5.0 U	5.0 U	2.7 J			20 U		
Acetone	50	2.3 U	5.0 U	9.2	18	5.0 U	14			50 U		
Benzene	1.0	0.39 U	1.0 U	0.32 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	5.0	1.1 U	1.0 U	0.62 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U
Chloroethane	5.0	0.83 U	1.0 U	0.66 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroform	7.0	0.33 U	1.0 U	0.34 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloromethane	5.0	0.34 U	1.0 U	0.54 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	5.0	0.29 U	1.0 U	0.35 U	1.0 U	1.0 U	0.5 U			1.0 U		
Tetrachloroethene	5.0	0.48 U	1.0 U	0.27 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
Toluene	5.0	0.36 U	1.0 U	0.37 U	1.0 U	1.0 U	0.5 U	1.0 U	0.16 J	1.0 U	1.0 U	1.0 U
Trichloroethene	5.0	0.46 U	1.0 U	0.28 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U

Sample ID Sampling Date	NYSDEC Class GA Standard	TW-5I 9/6/2007	TW-5I 10/17/2008	TW-5I 6/25/2009	TW-5I 3/23/2010	TW-5I 6/21/2011	TW-5I 7/24/2012	TW-5I 10/29/2013	TW-5I 5/6/2015	TW-5I 9/30/2016	TW-5I 10/26/2017	TW-5I 3/26/2019
Volatile Organic Compounds (µg/L)												
1,1,1-Trichloroethane	5.0	4.8 J	8.8	90	8.6	5.5	4.3	4.1	9.6	3.2	4.0	1.39 J
1,1-Dichloroethane	5.0*	0.38 U	1.0	3.5	2.3	1.7	0.5 U	2.0 U	0.47 J	1.0 U	0.81 J	0.19 J
1,1-Dichloroethene	5.0	0.42 U	1.0 U	0.47 U	1.0 U	1.0 U	0.5 U	2.0 U	0.22 J	1.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	3.0	0.54 U	1.0 U	0.32 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
2-Butanone	50	1.1 U	5.0 U	1.3 U	5.0 U	5.0 U	2.3 J			20 U		
Acetone	50	2.3 U	5.0 U	13	15	18	14			50 U		
Benzene	1.0	6.2	3.5	0.32 U	32	1.0 U	4.8	1.9	4.7	1.2	4.8	0.27 J
Carbon Tetrachloride	5.0	1.1 U	1.0 U	0.62 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U
Chloroethane	5.0	0.83 U	1.0 U	0.66 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroform	7.0	0.33 U	1.0 U	0.34 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloromethane	5.0	0.34 U	1.0 U	0.54 U	1.0 U	1.0 U	0.43 J	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	5.0	0.29 U	1.0 U	0.35 U	1.0 U	1.0 U	0.5 U			1.0 U		
Tetrachloroethene	5.0	0.48 U	1.0 U	0.27 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
Toluene	5.0	0.36 U	1.0 U	0.37 U	0.63 J	1.0 U	0.44 J	1.0 U	0.17 J	1.0 U	1.0 U	1.0 U
Trichloroethene	5.0	0.46 U	1.0 U	0.28 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U

Definitions:
* - NYSDEC Principal Organic Contaminant Standard of 5 µg/L applies to this compound.
µg/L - microgram per liter
D - Sample was diluted.
J - Compound was detected below the reporting limit or concentration is estimated for TICS.
NYSDEC - New York State Department of Environmental Conservation
U - The compound was not detected at the indicated concentration.

Notes:
1. Concentrations detected above the NYSDEC Class GA Standard are highlighted in yellow.
2. Blank space indicates sample not analyzed for that compound.
3. TW-X is a duplicate sample collected at TW-15.

TABLE 5-3
SUMMARY OF GROUNDWATER DETECTIONS (VOCS)
GLADDING CORDAGE SITE
SOUTH OTSELIC, NEW YORK
NYSDEC SITE NO. 7-09-009

Sample ID Sampling Date	NYSDEC Class GA Standard	TW-5D 9/6/2007	TW-5D 10/17/2008	TW-5D 6/25/2009	TW-5D 3/23/2010	TW-5D 6/21/2011	TW-5D 7/24/2012	TW-5D 10/29/2013	TW-5D 5/6/2015	TW-5D 9/30/2016	TW-5D 10/26/2017	TW-5D 3/26/2019
Volatile Organic Compounds (µg/L)												
1,1,1-Trichloroethane	5.0	41	28	32	28	25	28	39	18	3.2	17	15.6
1,1-Dichloroethane	5.0*	0.38 U	1.0 U	0.36 U	1.0 U	1.0 U	0.5 U	2 U	2.0 U	1.0 U	0.26 J	2 U
1,1-Dichloroethene	5.0	0.42 U	1.0 U	0.47 U	1.0 U	1.3	0.5 U	2.0 U	0.29 J	1.0 U	0.45 J	2 U
1,4-Dichlorobenzene	3.0	0.54 U	1.0 U	0.32 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
2-Butanone	50	1.1 U	5.0 U	1.3 U	5.0 U	5.0 U	2.1 J			20 U		
Acetone	50	2.3 U	5.0 U	20	17	41	14			50 U		
Benzene	1.0	0.39 U	1.0 U	0.32 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	2.8	1.0 U
Carbon Tetrachloride	5.0	1.1 U	1.0 U	0.62 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U
Chloroethane	5.0	0.83 U	1.0 U	0.66 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroform	7.0	0.33 U	1.0 U	0.34 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloromethane	5.0	0.34 U	1.0 U	0.54 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	5.0	0.29 U	1.0 U	0.35 U	1.0 U	1.0 U	0.5 U			1.0 U		
Tetrachloroethene	5.0	0.48 U	1.0 U	0.27 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
Toluene	5.0	0.36 U	1.0 U	0.37 U	1.0 U	1.0 U	0.5 U	1.0 U	0.12 J	1.0 U	1.0 U	1.0 U
Trichloroethene	5.0	0.46 U	1.0 U	0.28 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U

Sample ID Sampling Date	NYSDEC Class GA Standard	TW-6S 9/6/2007	TW-6S 10/17/2008	TW-6S 6/25/2009	TW-6S 3/23/2010	TW-6S 6/21/2011	TW-6S 7/24/2012	TW-6S 10/29/2013	TW-6S 5/6/2015	TW-6S 9/30/2016	TW-6S 10/24/2017	TW-6S 3/26/219
Volatile Organic Compounds (µg/L)												
1,1,1-Trichloroethane	5.0	0.32 U	0.53 J	0.4 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
1,1-Dichloroethane	5.0*	0.38 U	1.0 U	0.36 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
1,1-Dichloroethene	5.0	0.42 U	1.0 U	0.47 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	3.0	0.54 U	1.0 U	0.32 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
2-Butanone	50	1.1 U	5.0 U	1.3 U	5.0 U	5.0 U	2.3 J			20 U		
Acetone	50	2.3 U	5.0 U	11	15	17	12			50 U		
Benzene	1.0	0.39 U	1.0 U	0.32 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	5.0	1.1 U	1.0 U	0.62 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U
Chloroethane	5.0	0.83 U	1.0 U	0.66 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroform	7.0	0.33 U	1.6	1.0	1.1	1.2	4.7	8.6	1.4 J	3.0	2.2	3.02
Chloromethane	5.0	0.34 U	1.0 U	0.54 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	5.0	0.29 U	1.0 U	0.35 U	1.0 U	1.0 U	0.5 U			1.0 U		
Tetrachloroethene	5.0	0.48 U	1.0 U	0.27 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
Toluene	5.0	0.36 U	1.0 U	0.37 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5.0	0.46 U	1.0 U	0.28 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U

Definitions:
* - NYSDEC Principal Organic Contaminant Standard of 5 µg/L applies to this compound.
µg/L - microgram per liter
D - Sample was diluted.
J - Compound was detected below the reporting limit or concentration is estimated for TICS.
NYSDEC - New York State Department of Environmental Conservation
U - The compound was not detected at the indicated concentration.

Notes:
1. Concentrations detected above the NYSDEC Class GA Standard are highlighted in yellow.
2. Blank space indicates sample not analyzed for that compound.
3. TW-X is a duplicate sample collected at TW-15.

TABLE 5-3
SUMMARY OF GROUNDWATER DETECTIONS (VOCS)
GLADDING CORDAGE SITE
SOUTH OTSELIC, NEW YORK
NYSDEC SITE NO. 7-09-009

Sample ID	NYSDEC Class	TW-6I	TW-6I	TW-6I	TW-6I	TW-6I	TW-6I	TW-6I	TW-6I	TW-6I	TW-6I	TW-6I
Sampling Date	GA Standard	9/6/2007	10/17/2008	6/25/2009	3/23/2010	6/21/2011	7/24/2012	10/29/2013	5/6/2015	9/30/2016	10/24/2017	3/26/2019
Volatile Organic Compounds (µg/L)												
1,1,1-Trichloroethane	5.0	0.32 U	1.3	0.4 U	1.0 U	1.0 U	3.2	2.2	2.4	1.0 U	0.54 J	0.43 J
1,1-Dichloroethane	5.0*	0.38 U	1.0 U	0.36 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
1,1-Dichloroethene	5.0	0.42 U	1.0 U	0.47 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	3.0	0.54 U	1.0 U	0.32 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
2-Butanone	50	1.1 U	5.0 U	1.3 U	5.0 U	5.0 U	2.1 J			20 U		
Acetone	50	2.3 U	4.4 J	11	18	14	16			50 U		
Benzene	1.0	0.39 U	1.0 U	0.32 U	0.99 J	1.1	0.5 U	1.0 U	1.5	2.5	1.0 U	1.0 U
Carbon Tetrachloride	5.0	1.1 U	1.0 U	0.62 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U
Chloroethane	5.0	0.83 U	1.0 U	0.66 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroform	7.0	0.33 U	1.0 U	0.34 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloromethane	5.0	0.34 U	1.0 U	0.54 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	5.0	0.29 U	4.1	0.35 U	1.0 U	1.0 U	0.5 U			1.0 U		
Tetrachloroethene	5.0	0.48 U	2.4	0.27 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
Toluene	5.0	0.36 U	1.0 U	0.37 U	1.0 U	1.0 U	0.5 U	1.0 U	0.15 J	1.0 U	0.18 J	1.0 U
Trichloroethene	5.0	0.46 U	1.2	0.28 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U

Sample ID	NYSDEC Class	TW-6D	TW-6D	TW-6D	TW-6D	TW-6D	TW-6D	TW-6D	TW-6D	TW-6D	TW-6D	TW-6D
Sampling Date	GA Standard	9/6/2007	10/17/2008	6/25/2009	3/23/2010	6/21/2011	7/24/2012	10/29/2013	5/6/2015	9/30/2016	10/24/2017	3/26/2019
Volatile Organic Compounds (µg/L)												
1,1,1-Trichloroethane	5.0	0.32 U	1.0 U	0.4 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
1,1-Dichloroethane	5.0*	0.38 U	1.0 U	0.36 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
1,1-Dichloroethene	5.0	0.42 U	1.0 U	0.47 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	3.0	0.54 U	1.0 U	0.32 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	1.0 U	2.0 U
2-Butanone	50	1.1 U	5.0 U	1.3 U	5.0 U	5.0 U	1.9 J			20 U		
Acetone	50	2.3 U	5.0 U	21	9.5	16	13			50 U		
Benzene	1.0	0.39 U	1.0 U	1.0	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	5.0	1.1 U	1.0 U	0.62 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U
Chloroethane	5.0	0.83 U	1.0 U	0.66 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroform	7.0	0.33 U	1.0 U	0.34 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloromethane	5.0	0.34 U	1.0 U	0.54 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	5.0	0.29 U	1.0 U	0.35 U	1.0 U	1.0 U	0.5 U			1.0 U		
Tetrachloroethene	5.0	0.48 U	1.0 U	0.27 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
Toluene	5.0	0.36 U	1.0 U	0.37 U	1.0 U	1.0 U	0.5 U	1.0 U	0.11 J	1.0 U	1.0 U	1.0 U
Trichloroethene	5.0	0.46 U	1.0 U	0.28 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U

Definitions:
* - NYSDEC Principal Organic Contaminant Standard of 5 µg/L applies to this compound.
µg/L - microgram per liter
D - Sample was diluted.
J - Compound was detected below the reporting limit or concentration is estimated for TICS.
NYSDEC - New York State Department of Environmental Conservation
U - The compound was not detected at the indicated concentration.

Notes:
1. Concentrations detected above the NYSDEC Class GA Standard are highlighted in yellow.
2. Blank space indicates sample not analyzed for that compound.
3. TW-X is a duplicate sample collected at TW-15.

TABLE 5-3
SUMMARY OF GROUNDWATER DETECTIONS (VOCS)
GLADDING CORDAGE SITE
SOUTH OTSELIC, NEW YORK
NYSDEC SITE NO. 7-09-009

Sample ID Sampling Date	NYSDEC Class GA Standard	TW-7S 9/6/2007	TW-7S 10/17/2008	TW-7S 6/25/2009	TW-7S 3/23/2010	TW-7S 6/21/2011	TW-7S 7/24/2012	TW-7S 10/29/2013	TW-7S 5/6/2015	TW-7S 9/30/2016	TW-7S 10/24/2017	TW-7S 3/26/2019
Volatile Organic Compounds (µg/L)												
1,1,1-Trichloroethane	5.0	8.2	18	7.8	6.8	5.0	11	12	5.1	6.6	6.8	3.9
1,1-Dichloroethane	5.0*	0.38 U	1.0 U	0.36 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
1,1-Dichloroethene	5.0	0.42 U	1.0 U	0.47 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	3.0	0.54 U	1.0 U	0.32 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U		
2-Butanone	50	1.1 U	5.0 U	1.3 U	5.0 U	5.0 U	2.9 J			20 U		
Acetone	50	2.3 U	3.3 J	22	12	19	15			50 U		
Benzene	1.0	0.39 U	1.0 U	0.32 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	5.0	1.1 U	2.6	0.62 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U
Chloroethane	5.0	0.83 U	1.0 U	0.66 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroform	7.0	0.33 U	1.0 U	0.34 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloromethane	5.0	0.34 U	1.0 U	0.54 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	5.0	0.29 U	1.0 U	0.35 U	1.0 U	1.0 U	0.5 U			1.0 U		
Tetrachloroethene	5.0	0.48 U	1.0 U	0.27 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
Toluene	5.0	0.36 U	1.0 U	0.37 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5.0	0.46 U	1.0 U	0.28 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U

Sample ID Sampling Date	NYSDEC Class GA Standard	TW-7I 9/6/2007	TW-7I 10/17/2008	TW-7I 6/25/2009	TW-7I 3/23/2010	TW-7I 6/21/2011	TW-7I 7/24/2012	TW-7I 10/29/2013	TW-7I 5/6/2015	TW-7I 9/30/2016	TW-7I 10/24/2017	TW-7I 3/26/2019
Volatile Organic Compounds (µg/L)												
1,1,1-Trichloroethane	5.0	0.32 U	1.5	0.4 U	2.2	0.69 J	1.6	2.0 U	1.1 J	1.1	1.4 J	0.94 J
1,1-Dichloroethane	5.0*	0.38 U	1.0 U	0.36 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
1,1-Dichloroethene	5.0	0.42 U	1.0 U	0.47 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	3.0	0.54 U	1.0 U	0.32 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U		
2-Butanone	50	1.1 U	5.0 U	1.3 U	5.0 U	5.0 U	1.8 J			20 U		
Acetone	50	2.3 U	5.0 U	15	17	21	11			50 U		
Benzene	1.0	0.39 U	1.0 U	0.32 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	5.0	1.1 U	1.0 U	0.62 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U
Chloroethane	5.0	0.83 U	1.0 U	0.66 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroform	7.0	0.33 U	1.0 U	0.34 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloromethane	5.0	0.34 U	1.0 U	0.54 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	5.0	0.29 U	1.0 U	0.35 U	1.0 U	1.0 U	0.5 U			1.0 U		
Tetrachloroethene	5.0	0.48 U	1.0 U	0.27 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
Toluene	5.0	0.36 U	1.0 U	0.37 U	1.0 U	1.0 U	0.5 U	1.0 U	0.11 J	1.0 U	1.0 U	1.0 U
Trichloroethene	5.0	0.46 U	1.0 U	0.28 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U

Definitions:
* - NYSDEC Principal Organic Contaminant Standard of 5 µg/L applies to this compound.
µg/L - microgram per liter
D - Sample was diluted.
J - Compound was detected below the reporting limit or concentration is estimated for TICS.
NYSDEC - New York State Department of Environmental Conservation
U - The compound was not detected at the indicated concentration.

Notes:
1. Concentrations detected above the NYSDEC Class GA Standard are highlighted in yellow.
2. Blank space indicates sample not analyzed for that compound.
3. TW-X is a duplicate sample collected at TW-15.

TABLE 5-3
SUMMARY OF GROUNDWATER DETECTIONS (VOCS)
GLADDING CORDAGE SITE
SOUTH OTSELIC, NEW YORK
NYSDEC SITE NO. 7-09-009

Sample ID Sampling Date	NYSDEC Class GA Standard	TW-7D 9/6/2007	TW-7D 10/17/2008	TW-7D 6/25/2009	TW-7D 3/23/2010	TW-7D 6/21/2011	TW-7D 7/24/2012	TW-7D 10/29/2013	TW-7D 5/6/2015	TW-7D 9/30/2016	TW-7D 10/26/2017	TW-7D 3/26/2019
Volatile Organic Compounds (µg/L)												
1,1,1-Trichloroethane	5.0	21	3.8	9.1	5.2	4.5	4.4	5.9	10	1.1	1.4 J	0.65 J
1,1-Dichloroethane	5.0*	0.38 U	1.0 U	0.36 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
1,1-Dichloroethene	5.0	4.8 J	1.0 U	0.47 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	3.0	0.54 U	1.0 U	0.32 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U		
2-Butanone	50	1.1 U	5.0 U	1.3 U	5.0 U	5.0 U	2.4 J			20 U		
Acetone	50	2.3 U	5.0 U	17	18	14	13			50 U		
Benzene	1.0	0.39 U	1.0 U	0.32 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	5.0	1.1 U	1.0 U	0.62 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U
Chloroethane	5.0	0.83 U	1.0 U	0.66 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroform	7.0	0.33 U	1.0 U	0.34 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloromethane	5.0	0.34 U	1.0 U	0.54 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	5.0	0.29 U	1.0 U	0.35 U	1.0 U	1.0 U	0.5 U			1.0 U		
Tetrachloroethene	5.0	0.48 U	1.0 U	0.27 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
Toluene	5.0	0.36 U	1.0 U	0.37 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5.0	0.46 U	1.0 U	0.28 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U

Sample ID Sampling Date	NYSDEC Class GA Standard	TW-9I 6/25/2009	TW-9I 3/23/2010	TW-9I 6/21/2011	TW-9I 7/24/2012	TW-9I 10/29/2013	TW-9I 5/6/2015	TW-9I 9/30/2016	TW-9I 10/26/2017	TW-9I 3/26/2019
Volatile Organic Compounds (µg/L)										
1,1,1-Trichloroethane	5.0	5.5	4.3	4.2	4.2	4.0	3.0	1.0 U	0.4 J	2.92
1,1-Dichloroethane	5.0*	0.36 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
1,1-Dichloroethene	5.0	0.47 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	3.0	0.32 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U		
2-Butanone	50	1.3 U	5.0 U	5.0 U	2.6 J			20 U		
Acetone	50	17	14	19	16			50 U		
Benzene	1.0	0.32 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	21	1.0 U
Carbon Tetrachloride	5.0	0.62 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U
Chloroethane	5.0	0.66 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroform	7.0	0.34 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloromethane	5.0	0.54 U	1.0 U	1.0 U	0.41 J	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	5.0	0.35 U	1.0 U	1.0 U	0.5 U			1.0 U		
Tetrachloroethene	5.0	0.27 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
Toluene	5.0	0.37 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5.0	0.28 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U

Definitions:
* - NYSDEC Principal Organic Contaminant Standard of 5 µg/L applies to this compound.
µg/L - microgram per liter
D - Sample was diluted.
J - Compound was detected below the reporting limit or concentration is estimated for TICS.
NYSDEC - New York State Department of Environmental Conservation
U - The compound was not detected at the indicated concentration.

Notes:
1. Concentrations detected above the NYSDEC Class GA Standard are highlighted in yellow.
2. Blank space indicates sample not analyzed for that compound.
3. TW-X is a duplicate sample collected at TW-15.

TABLE 5-3
SUMMARY OF GROUNDWATER DETECTIONS (VOCS)
GLADDING CORDAGE SITE
SOUTH OTSELIC, NEW YORK
NYSDEC SITE NO. 7-09-009

Sample ID Sampling Date	NYSDEC Class GA Standard	TW-9D 6/25/2009	TW-9D 3/23/2010	TW-9D 6/21/2011	TW-9D 7/24/2012	TW-9D 10/29/2013	TW-9D 5/6/2015	TW-9D 9/30/2016	TW-9D 10/24/2017	TW-9D 3/26/2019	TW-10D 6/25/2009
Volatile Organic Compounds (µg/L)											
1,1,1-Trichloroethane	5.0	0.4 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	3.3	2.0 U	2.0 U	0.53 J
1,1-Dichloroethane	5.0*	0.36 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U	0.36 U
1,1-Dichloroethene	5.0	0.47 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U	0.47 U
1,4-Dichlorobenzene	3.0	0.32 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U			0.32 U
2-Butanone	50	1.3 U	5.0 U	5.0 U	1.9 J			20 U			1.3 U
Acetone	50	9.1	13	3.6 J	14			50 U			19
Benzene	1.0	0.32 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	1.6	1.0 U	0.32 U
Carbon Tetrachloride	5.0	0.62 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U	0.62 U
Chloroethane	5.0	0.66 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.66 U
Chloroform	7.0	0.34 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.34 U
Chloromethane	5.0	0.54 U	1.0 U	1.0 U	0.4 J	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.54 U
cis-1,2-Dichloroethene	5.0	0.35 U	1.0 U	1.0 U	0.5 U			1.0 U			0.35 U
Tetrachloroethene	5.0	0.27 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U	0.27 U
Toluene	5.0	0.37 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.37 U
Trichloroethene	5.0	0.28 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U	0.28 U

Sample ID Sampling Date	NYSDEC Class GA Standard	TW-12I 9/6/2007	TW-12I 10/17/2008	TW-12I 6/25/2009	TW-12I 3/23/2010	TW-12I 6/21/2011	TW-12I 7/24/2012	TW-12I 10/29/2013	TW-12I 5/6/2015	TW-12I 9/30/2016	TW-12I 10/24/2017	TW-12I 3/26/2019
Volatile Organic Compounds (µg/L)												
1,1,1-Trichloroethane	5.0	0.32 U	1.0 U	0.4 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	1.7 J	2.5
1,1-Dichloroethane	5.0*	0.38 U	1.0 U	0.36 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	1.0 U	2.0 U
1,1-Dichloroethene	5.0	0.42 U	1.0 U	0.47 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	1.0 U	2.0 U
1,4-Dichlorobenzene	3.0	0.54 U	1.0 U	0.32 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U		
2-Butanone	50	1.1 U	5.0 U	1.3 U	5.0 U	5.0 U	1.8 J			20 U		
Acetone	50	2.3 U	5.0 U	10	21	13	12			50 U		
Benzene	1.0	0.39 U	1.0 U	0.32 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	5.0	1.1 U	1.0 U	0.62 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U
Chloroethane	5.0	0.83 U	1.0 U	0.66 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroform	7.0	0.33 U	1.0 U	0.34 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloromethane	5.0	0.34 U	1.0 U	0.54 U	1.0 U	1.0 U	0.43 J	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	5.0	0.29 U	1.0 U	0.35 U	1.0 U	1.0 U	0.5 U			1.0 U		
Tetrachloroethene	5.0	0.48 U	1.0 U	0.27 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
Toluene	5.0	0.36 U	1.0 U	0.37 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5.0	0.46 U	1.0 U	0.28 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U

Definitions:
* - NYSDEC Principal Organic Contaminant Standard of 5 µg/L applies to this compound.
µg/L - microgram per liter
D - Sample was diluted.
J - Compound was detected below the reporting limit or concentration is estimated for TICS.
NYSDEC - New York State Department of Environmental Conservation
U - The compound was not detected at the indicated concentration.

Notes:
1. Concentrations detected above the NYSDEC Class GA Standard are highlighted in yellow.
2. Blank space indicates sample not analyzed for that compound.
3. TW-X is a duplicate sample collected at TW-15.

TABLE 5-3
SUMMARY OF GROUNDWATER DETECTIONS (VOCS)
GLADDING CORDAGE SITE
SOUTH OTSELIC, NEW YORK
NYSDEC SITE NO. 7-09-009

Sample ID Sampling Date	NYSDEC Class GA Standard	TW-12D 9/6/2007	TW-12D 6/25/2009	TW-12D 3/23/2010	TW-12D 6/21/2011	TW-12D 7/24/2012	TW-12D 10/29/2013	TW-12D 5/6/2015	TW-12D 9/30/2016	TW-12D 10/24/2017	TW-12D 3/26/2019
Volatile Organic Compounds (µg/L)											
1,1,1-Trichloroethane	5.0	0.32 U	0.4 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	0.48 J	0.5 J
1,1-Dichloroethane	5.0*	0.38 U	0.36 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
1,1-Dichloroethene	5.0	0.42 U	0.47 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	3.0	0.54 U	0.32 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U		
2-Butanone	50	1.1 U	1.3 U	5.0 U	5.0 U	2.8 J			20 U		
Acetone	50	2.3 U	14	13	11	18			50 U		
Benzene	1.0	0.39 U	0.32 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	5.0	1.1 U	0.62 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U
Chloroethane	5.0	0.83 U	0.66 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroform	7.0	0.33 U	0.34 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloromethane	5.0	0.34 U	0.54 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	5.0	0.29 U	0.35 U	1.0 U	1.0 U	0.5 U			1.0 U		
Tetrachloroethene	5.0	0.48 U	0.27 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
Toluene	5.0	0.36 U	0.37 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5.0	0.46 U	0.28 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U

Sample ID Sampling Date	NYSDEC Class GA Standard	TW-14S 9/6/2007	TW-14S 10/17/2008	TW-14S 6/25/2009	TW-14S 3/23/2010	TW-14S 6/21/2011	TW-14S 7/24/2012	TW-14S 10/29/2013	TW-14S 5/6/2015	TW-14S 9/30/2016	TW-14S 10/25/2017	TW-14S 3/26/2019
Volatile Organic Compounds (µg/L)												
1,1,1-Trichloroethane	5.0	0.32 U	68	0.4 U	16	12	21	10	4.5	50	34	29
1,1-Dichloroethane	5.0*	0.38 U	5.8	1.2	0.64 J	0.55 J	0.95 J	2.0 U	2.0 U	5.3	1.5 J	0.76 J
1,1-Dichloroethene	5.0	0.42 U	1.0 U	0.47 U	1.0 U	0.67 J	0.5 U	2.0 U	2.0 U	1.0 U	0.47 J	0.38 J
1,4-Dichlorobenzene	3.0	0.54 U	1.0 U	0.32 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U		
2-Butanone	50	1.1 U	5.0 U	1.3 U	5.0 U	5.0 U	2.0 J			20 U		
Acetone	50	2.3 U	5.0 U	14	16	18	14			50 U		
Benzene	1.0	0.39 U	1.0 U	0.32 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	5.0	1.1 U	1.0 U	0.62 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U
Chloroethane	5.0	0.83 U	1.0 U	0.66 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroform	7.0	0.33 U	1.0 U	0.34 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloromethane	5.0	0.34 U	1.0 U	0.54 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	5.0	0.29 U	1.0 U	0.35 U	1.0 U	1.0 U	0.5 U			1.0 U		
Tetrachloroethene	5.0	0.48 U	1.0 U	0.27 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
Toluene	5.0	0.36 U	1.0 U	0.37 U	1.0 U	1.0 U	0.5 U	1.0 U	0.15 J	1.0 U	1.0 U	1.0 U
Trichloroethene	5.0	0.46 U	1.0 U	0.28 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U

Definitions:
* - NYSDEC Principal Organic Contaminant Standard of 5 µg/L applies to this compound.
µg/L - microgram per liter
D - Sample was diluted.
J - Compound was detected below the reporting limit or concentration is estimated for TICS.
NYSDEC - New York State Department of Environmental Conservation
U - The compound was not detected at the indicated concentration.

Notes:
1. Concentrations detected above the NYSDEC Class GA Standard are highlighted in yellow.
2. Blank space indicates sample not analyzed for that compound.
3. TW-X is a duplicate sample collected at TW-15.

TABLE 5-3
SUMMARY OF GROUNDWATER DETECTIONS (VOCS)
GLADDING CORDAGE SITE
SOUTH OTSELIC, NEW YORK
NYSDEC SITE NO. 7-09-009



Sample ID	NYSDEC Class	TW-14I	TW-14I	TW-14I	TW-14I	TW-14I	TW-14I	TW-14I	TW-14I	TW-14I	TW-14I	TW-14I
Sampling Date	GA Standard	9/6/2007	10/17/2008	6/25/2009	3/23/2010	6/21/2011	7/24/2012	10/29/2013	5/6/2015	9/30/2016	10/25/2017	3/26/2019
Volatile Organic Compounds (µg/L)												
1,1,1-Trichloroethane	5.0	39	95	83	82	87	76	59	57	65	51	36.9
1,1-Dichloroethane	5.0*	0.38 U	2.8	3.2	3.2	3.5	2.6	2.1	2.0 J	2.4	2.4	1.34 J
1,1-Dichloroethene	5.0	3.7 J	1.5	0.47 U	2.1	4.4	1.4	2.0 U	1.1 J	1.3	1.1 J	0.71 J
1,4-Dichlorobenzene	3.0	0.54 U	1.0 U	0.32 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U		
2-Butanone	50	1.1 U	5.0 U	1.3 U	5.0 U	5.0 U	2.2 J			20 U		
Acetone	50	2.3 U	5.0 U	13	17	20	16			50 U		
Benzene	1.0	0.39 U	1.0 U	0.32 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	5.0	1.1 U	1.0 U	0.62 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U
Chloroethane	5.0	0.83 U	1.0 U	0.66 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroform	7.0	0.33 U	1.0 U	0.34 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloromethane	5.0	0.34 U	1.0 U	0.54 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	5.0	0.29 U	1.0 U	0.35 U	1.0 U	1.0 U	0.5 U			1.0 U		
Tetrachloroethene	5.0	0.48 U	1.0 U	0.27 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
Toluene	5.0	0.36 U	1.0 U	0.37 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5.0	0.46 U	1.0 U	0.28 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U

Sample ID	NYSDEC Class	TW-14D	TW-14D	TW-14D	TW-14D	TW-14D	TW-14D	TW-14D	TW-14D	TW-14D	TW-14D	TW-14D
Sampling Date	GA Standard	9/6/2007	10/17/2008	6/25/2009	3/23/2010	6/21/2011	7/24/2012	10/29/2013	5/6/2015	9/30/2016	10/25/2017	3/26/2019
Volatile Organic Compounds (µg/L)												
1,1,1-Trichloroethane	5.0	42	18	0.4 U	9.1	12	11	56	10	6.5	7.5	8.45
1,1-Dichloroethane	5.0*	0.38 U	1.0 U	0.36 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	0.39 J	2.0 U
1,1-Dichloroethene	5.0	7.2	1.0 U	0.47 U	1.0 U	0.67 J	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	3.0	0.54 U	1.0 U	0.32 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U		
2-Butanone	50	1.1 U	5.0 U	1.3 U	5.0 U	5.0 U	2.2 J			20 U		
Acetone	50	2.3 U	5.0 U	15	18	25	17			50 U		
Benzene	1.0	0.39 U	1.0 U	0.32 U	1.0 U	1.0 U	0.5 U	1.0 U	5.7	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	5.0	1.1 U	1.0 U	0.62 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U
Chloroethane	5.0	0.83 U	1.0 U	0.66 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroform	7.0	0.33 U	1.0 U	0.34 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloromethane	5.0	0.34 U	1.0 U	0.54 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	5.0	0.29 U	1.0 U	0.35 U	1.0 U	1.0 U	0.5 U			1.0 U		
Tetrachloroethene	5.0	0.48 U	1.0 U	0.27 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U
Toluene	5.0	0.36 U	1.0 U	0.37 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5.0	0.46 U	1.0 U	0.28 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U

Definitions:
* - NYSDEC Principal Organic Contaminant Standard of 5 µg/L applies to this compound.
µg/L - microgram per liter
D - Sample was diluted.
J - Compound was detected below the reporting limit or concentration is estimated for TICS.
NYSDEC - New York State Department of Environmental Conservation
U - The compound was not detected at the indicated concentration.

Notes:
1. Concentrations detected above the NYSDEC Class GA Standard are highlighted in yellow.
2. Blank space indicates sample not analyzed for that compound.
3. TW-X is a duplicate sample collected at TW-15.

TABLE 5-3
SUMMARY OF GROUNDWATER DETECTIONS (VOCs)
GLADDING CORDAGE SITE
SOUTH OTSELIC, NEW YORK
NYSDEC SITE NO. 7-09-009

Sample ID Sampling Date	NYSDEC Class GA Standard	TW-15 9/6/2007	TW-15 10/17/2008	TW-15 6/25/2009	TW-15 3/23/2010	TW-15 6/21/2011	TW-15 7/24/2012	TW-15 10/29/2013	TW-15 5/6/2015	TW-15 9/30/2016	TW-15 10/26/2017	TW-X-DUP 10/26/2017	TW-15 3/26/2019	TW-X-DUP 3/26/2019
Volatile Organic Compounds (µg/L)														
1,1,1-Trichloroethane	5.0	17	84 D	95	97	89	85	9.4	32	14	16	16	35.9	37
1,1-Dichloroethane	5.0*	0.38 U	3.3	3.4	4.1	3.8	3.4	2.0 U	1.6	1.0 U	1.1 J	1.2 J	1.63 J	1.54 J
1,1-Dichloroethene	5.0	4.6 J	2.0	1.8	2.7	5.9	2.0	2.0 U	0.93	1.0 U	0.46 J	0.45 J	0.87 J	0.97 J
1,4-Dichlorobenzene	3.0	0.54 U	1.0 U	0.32 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U		1.0 U		
2-Butanone	50	1.1 U	5.0 U	1.3 U	5.0 U	5.0 U	2.9 J			20 U				
Acetone	50	2.3 U	5.0 U	9.7	15	35	17			50 U				
Benzene	1.0	0.39 U	1.0 U	0.32 U	1.0 U	1.0 U	0.5 U	1.0 U	13	1.3	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	5.0	1.1 U	1.0 U	0.62 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	5.0 U	2.0	2.0 U	2.0 U	2.0 U
Chloroethane	5.0	0.83 U	1.0 U	0.66 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0	2.0 U	2.0 U	2.0 U
Chloroform	7.0	0.33 U	1.0 U	0.34 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0	2.0 U	2.0 U	2.0 U
Chloromethane	5.0	0.34 U	1.0 U	0.54 U	1.0 U	1.0 U	0.48 J	2.0 U	2.0 U	2.0 U	2.0	2.0 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	5.0	0.29 U	1.0 U	0.35 U	1.0 U	1.0 U	0.5 U			1.0 U				
Tetrachloroethene	5.0	0.48 U	1.0 U	0.27 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Toluene	5.0	0.36 U	1.0 U	0.37 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5.0	0.46 U	1.0 U	0.28 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U

Definitions:
* - NYSDEC Principal Organic Contaminant Standard of 5 µg/L applies to this compound.
µg/L - microgram per liter
D - Sample was diluted.
J - Compound was detected below the reporting limit or concentration is estimated for TICS.
NYSDEC - New York State Department of Environmental Conservation
U - The compound was not detected at the indicated concentration.

Notes:
1. Concentrations detected above the NYSDEC Class GA Standard are highlighted in yellow.
2. Blank space indicates sample not analyzed for that compound.
3. TW-X is a duplicate sample collected at TW-15.

TABLE 5-4
SUMMARY OF GROUNDWATER DETECTIONS (PFAS/1,4-DIOXANE)
GLADDING CORDAGE SITE
SOUTH OTSELIC, NEW YORK
NYSDEC SITE NO. 7-09-009

Sample ID Sample Date	USEPA LIFETIME HEALTH ADVISORY	NYSDEC GUIDANCE VALUE	TW-3S 10/25/2017	TW-3I 10/25/2017	TW-3D 10/25/2017	TW-4I 10/25/2017	TW-5S 10/25/2017	TW-5I 10/25/2017	TW-5D 10/25/2017
Perfluorinated Alkyl Substances (ng/L)									
Perfluorobutanesulfonic acid (PFBS)	--	100	2.0 U	2.0 U	2.0 U	2.0 U	2.12	4.61	2.0 U
Perfluorohexanesulfonic acid (PFHxS)	--	100	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.08 J	2.0 U
Perfluoroheptanoic acid (PFHpA)	--	100	6.74 J	2.0 U	2.0 U	2.0 U	0.93 J	0.83 J	0.87 J
Perfluorooctanoic acid (PFOA)	70	10*	1.55 J	2.0 U	1.92 J	2.0 U	3.86	3.64	8.72
Perfluorooctanesulfonic acid (PFOS)	70	10*	2.9 J	1.96 J	3.4	2.0 U	7.41	7.45	6.72
Perfluorononanoic acid (PFNA)	--	100	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total PFOA + PFOS	70	--	4.45	1.96	5.32	ND	11.27	11.09	15.44
Total PFAS	--	500	11.19	1.96	5.32	ND	14.32	17.61	16.31
1,4-Dioxane (ug/L)	--	1.0*	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.38 J	0.4 U

Sample ID Sample Date	USEPA LIFETIME HEALTH ADVISORY	NYSDEC GUIDANCE VALUE	TW-6S 10/24/2017	TW-6I 10/24/2017	TW-6D 10/24/2017	TW-7S 10/24/2017	TW-7I 10/24/2017	TW-7D 10/24/2017	TW-9I 10/24/2017
Perfluorinated Alkyl Substances (ng/L)									
Perfluorobutanesulfonic acid (PFBS)	--	100	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.95 J
Perfluorohexanesulfonic acid (PFHxS)	--	100	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.57
Perfluoroheptanoic acid (PFHpA)	--	100	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.88
Perfluorooctanoic acid (PFOA)	70	10*	2.0 U	1.48 J	2.0 U	2.0 U	2.0 U	2.0 U	30.1
Perfluorooctanesulfonic acid (PFOS)	70	10*	4.14	2.76	3.25	1.67 J	2.22	2.03	28.3
Perfluorononanoic acid (PFNA)	--	100	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total PFOA + PFOS	70	--	4.14	4.24	3.25	1.67	2.22	2.03	58.4
Total PFAS	--	500	4.14	4.24	3.25	1.67	2.22	2.03	67.8
1,4-Dioxane (ug/L)	--	1.0*	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U

Definitions:

µg/L - microgram per liter

ng/L - nanogram per liter

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

NYSDEC - New York State Department of Environmental Conservation

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

USEPA - United States Environmental Protection Agency

* - The New York State Maximum Contaminant Level.

Notes:

1. Concentrations detected above the United States Environmental Protection Agency Lifetime Health Advisory are highlighted in orange.
2. Concentrations detected above the NYSDEC Guidance Value are highlighted in yellow.
3. TW-X is a duplicate sample collected at TW-15.

TABLE 5-4
SUMMARY OF GROUNDWATER DETECTIONS (PFAS/1,4-DIOXANE)
GLADDING CORDAGE SITE
SOUTH OTSELIC, NEW YORK
NYSDEC SITE NO. 7-09-009

Sample ID Sample Date	USEPA LIFETIME HEALTH ADVISORY	NYSDEC GUIDANCE VALUE	TW-9D 10/24/2017	TW-12I 10/24/2017	TW-12D 10/24/2017	TW-14S 10/25/2017	TW-14I 10/25/2017	TW-14D 10/25/2017	TW-15 10/25/2017	TW-X-DUP ⁽¹⁾ 10/25/2017
Perfluorinated Alkyl Substances (ng/L)										
Perfluorobutanesulfonic acid (PFBS)	--	100	2.0 U	2.0 U	2.0 U	2.8	2.0 U	2.0 U	2.0 U	2.0 U
Perfluorohexanesulfonic acid (PFHxS)	--	100	2.94	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Perfluoroheptanoic acid (PFHpA)	--	100	2.4	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Perfluorooctanoic acid (PFOA)	70	10*	13.7	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	10.2	10.2
Perfluorooctanesulfonic acid (PFOS)	70	10*	32.1	2.0 U	2.0 U	3.94	2.0 U	2.0 U	2.0 U	2.0 U
Perfluorononanoic acid (PFNA)	--	100	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 PFOA + PFOS	70	--	45.8	ND	ND	3.94	ND	ND	10.2	10.2
Total PFAS	--	500	51.14	ND	ND	6.74	ND	ND	10.2	10.2
1,4-Dioxane (ug/L)	--	1.0*	0.4 U	0.4 U	0.57	0.40 U	0.48	0.4 U	3.2	2.7

Definitions:

µg/L - microgram per liter

ng/L - nanogram per liter

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

NYSDEC - New York State Department of Environmental Conservation

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

USEPA - United States Environmental Protection Agency

* - The New York State Maximum Contaminant Level.

Notes:

1. Concentrations detected above the United States Environmental Protection Agency Lifetime Health Advisory are highlighted in orange.
2. Concentrations detected above the NYSDEC Guidance Value are highlighted in yellow.
3. TW-X is a duplicate sample collected at TW-15.

TABLE 5-5
SUMMARY OF GROUNDWATER TREATMENT SYSTEM VOCS (INFLUENT - RW-1)
GLADDING CORDAGE SITE
SOUTH OTSELIC, NEW YORK
NYSDEC SITE NO. 7-09-009

Sample ID Sampling Date	NYSDEC Class GA Standard	RW-1 1/30/2017	RW-1 2/27/2017	RW-1 3/23/2017	RW-1 4/26/2017	RW-1 5/24/2017	RW-1 6/29/2017	RW-1 7/31/2017	RW-1 8/28/2017	RW-1 9/20/2017	RW-1 10/23/2017	RW-1 10/25/2017	RW-1 10/26/2017	RW-1 11/28/2017	RW-1 12/29/2017
Volatile Organic Compounds (µg/L)															
1,1,1-Trichloroethane	5.0	35	34	40	30	31	35	30	41	39	34	37	37	38	41
1,1,2,2-Tetrachloroethane	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	1.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0*	1.5 J	1.5 J	1.7 J	1.4 J	1.4 J	1.5 J	1.4 J	1.8 J	1.6 J	1.6 J	1.8 J	1.8 J	1.9 J	1.7 J
1,1-Dichloroethene	5.0	0.86 J	1.7 J	0.99 J	0.65 J	0.69 J	0.74 J	0.77 J	0.98 J	0.83 J	0.74 J	0.74 J	0.74 J	0.98 J	0.97 J
1,2-Dichlorobenzene	3.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	2.0 U
1,2-Dichloropropane	1.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	3.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	3.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Benzene	1.0	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	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	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	2.0 U
Bromomethane	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	7.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	2.0 U
Ethyl Benzene	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	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	5.0 U
o-Xylene	5.0*	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	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	1.0 U
trans-1,2-Dichloroethene	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	2.0 U
Trichloroethene	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	2.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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		37.36	37.2	42.69	32.05	33.09	37.24	32.17	43.78	41.43	36.34	39.54	39.54	40.88	43.67

Definitions:
* - NYSDEC Principal Organic Contaminant Standard of 5 µg/L applies to this compound.
µg/L - microgram per liter
F1 - MS and/or MSD recovery exceeds control limits
J - Compound was detected below the reporting limit or concentration is estimated for TICS.
NYSDEC - New York State Department of Environmental Conservation
U - The compound was not detected at the indicated concentration.

Notes:
1. Concentrations detected above the NYSDEC Class GA Standard are highlighted in yellow.

TABLE 5-5
SUMMARY OF GROUNDWATER TREATMENT SYSTEM VOCS (INFLUENT - RW-1)
GLADDING CORDAGE SITE
SOUTH OTSELIC, NEW YORK
NYSDEC SITE NO. 7-09-009

Sample ID Sampling Date	NYSDEC Class GA Standard	RW-1 1/29/2018	RW-1 2/26/2018	RW-1 3/29/2018	RW-1 6/22/2018	RW-1 7/29/2018	RW-1 8/27/2018	RW-1 9/27/2018	RW-1 10/19/2018	RW-1 11/26/2018	RW-1 12/16/2018
Volatile Organic Compounds (µg/L)											
1,1,1-Trichloroethane	5.0	38	40	37	41	42 J	45	47	47	35	35
1,1,2,2-Tetrachloroethane	5.0	2.0 U	2.0 U	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	1.0	2.0 U	2.0 U	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	5.0*	1.5 J	1.6 J	1.3 J	1.9 J	1.7 J	1.8 J	1.6 J	1.7 J	1.6 J	1.7 J
1,1-Dichloroethene	5.0	0.84 J	0.87 J	0.77 J	0.85 J	0.79 J	1.0 J	0.99 J	1.0 J	0.96 J	0.98 J
1,2-Dichlorobenzene	3.0	2.0 U	2.0 U	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
1,2-Dichloropropane	1.0	2.0 U	2.0 U	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	3.0	2.0 U	2.0 U	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	3.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Benzene	1.0	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
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
Bromomethane	5.0	5.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.6 J	0.9 J
Carbon Tetrachloride	5.0	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	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	7.0	2.0 U	2.0 U	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	5.0	2.0 U	2.0 UR-06	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
Ethyl Benzene	5.0	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	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	10	2.0 U	2.0 U	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	5.0	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	5.0*	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	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	5.0	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	5.0	2.0 U	2.0 U	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
Trichloroethene	5.0	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	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	2.0	2.0 U	2.0 U	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		40.34	42.47	39.07	43.75	44.49	47.8	49.59	49.7	38.16	38.58

Definitions:
* - NYSDEC Principal Organic Contaminant Standard of 5 µg/L applies to this compound.
µg/L - microgram per liter
F1 - MS and/or MSD recovery exceeds control limits
J - Compound was detected below the reporting limit or concentration is estimated for TICS.
NYSDEC - New York State Department of Environmental Conservation
U - The compound was not detected at the indicated concentration.

Notes:
1. Concentrations detected above the NYSDEC Class GA Standard are highlighted in yellow.

TABLE 5-5
SUMMARY OF GROUNDWATER TREATMENT SYSTEM VOCS (INFLUENT - RW-1)
GLADDING CORDAGE SITE
SOUTH OTSELIC, NEW YORK
NYSDEC SITE NO. 7-09-009

Sample ID Sampling Date	NYSDEC Class GA Standard	RW-1 1/21/2019	RW-1 2/14/2019	RW-1 3/26/2019	RW-1 4/30/2019	RW-1 5/20/2019	RW-1 6/22/2019	RW-1 7/26/2019	RW-1 8/15/2019	RW-1 9/26/2019	RW-1 10/25/2019	RW-1 11/22/2019	RW-1 12/12/2019
Volatile Organic Compounds (µg/L)													
1,1,1-Trichloroethane	5.0	36.1	39.4	32.3	42.6	35.4	35.3	34.4	42.8	40.9	34.4	33.6	40.7
1,1,2,2-Tetrachloroethane	5.0	2.0 U	2.0 U	2.0 U	2.0 U	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	1.0	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0*	1.37 J	1.4 J	1.02 J	1.58 J	1.26 J	1.3 J	1.34 J	1.36 J	1.78 J	1.48 J	1.55	1.65 J
1,1-Dichloroethene	5.0	3.39 J	0.79 J	0.7 J	1.08 J	0.86 J	0.86 J	0.77 J	0.73 J	1.08 J	0.82 J	0.89	0.85 J
1,2-Dichlorobenzene	3.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	3.0 U	3.0 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
1,2-Dichloropropane	1.0	2.0 U	2.0 U	2.0 U	2.0 U	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	3.0	2.0 U	2.0 U	2.0 U	2.0 U	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	3.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Benzene	1.0	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
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
Bromomethane	5.0	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	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	7.0	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	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
Ethyl Benzene	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.13 J
m/p-Xylenes	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.63 J
Methyl tert-butyl Ether	10	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	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	5.0*	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.21 J
Tetrachloroethene	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	3.0 U
Toluene	5.0	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	0.37 J
trans-1,2-Dichloroethene	5.0	2.0 U	2.0 U	2.0 U	2.0 U	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
Trichloroethene	5.0	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	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	2.0	2.0 U	2.0 U	2.0 U	2.0 U	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		42.86	43.59	34.02	45.26	37.52	37.46	36.51	44.89	43.76	36.7	36.04	43.2

Definitions:
* - NYSDEC Principal Organic Contaminant Standard of 5 µg/L applies to this compound.
µg/L - microgram per liter
F1 - MS and/or MSD recovery exceeds control limits
J - Compound was detected below the reporting limit or concentration is estimated for TICS.
NYSDEC - New York State Department of Environmental Conservation
U - The compound was not detected at the indicated concentration.

Notes:
1. Concentrations detected above the NYSDEC Class GA Standard are highlighted in yellow.

TABLE 5-5
SUMMARY OF GROUNDWATER TREATMENT SYSTEM VOCS (INFLUENT - RW-1)
GLADDING CORDAGE SITE
SOUTH OTSELIC, NEW YORK
NYSDEC SITE NO. 7-09-009

Sample ID Sampling Date	NYSDEC Class GA Standard	RW-1 1/13/2020	RW-1 2/6/2020	RW-1 3/12/2020	RW-1 4/15/2020
Volatile Organic Compounds (µg/L)					
1,1,1-Trichloroethane	5.0	38.1	35.6	31	37
1,1,2,2-Tetrachloroethane	5.0	2.0 U	2.0 U	0.5 U	1.0 U
1,1,2-Trichloroethane	1.0	2.0 U	2.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5.0*	1.5 J	1.44 J	1.2	1.4
1,1-Dichloroethene	5.0	0.81 J	0.78 J	1.0 U	0.89 J
1,2-Dichlorobenzene	3.0	3.0 U	3.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	2.0 U	2.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1.0	2.0 U	2.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3.0	2.0 U	2.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3.0	2.0 U	2.0 U	1.0 U	1.0 U
Benzene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	2.0 U	2.0 U	0.5 U	1.0 U
Bromoform	50	2.0 U	2.0 U	1.0 U	1.0 U
Bromomethane	5.0	2.0 U	2.0 U	2.0 U	1.0 U
Carbon Tetrachloride	5.0	2.0 U	2.0 U	5.0 U	1.0 U
Chlorobenzene	5.0	2.0 U	2.0 U	1.0 U	1.0 U
Chloroethane	5.0	2.0 U	2.0 U	2.0 U	1.0 U
Chloroform	7.0	2.0 U	2.0 U	2.0 U	1.0 U
Chloromethane	5.0	2.0 U	2.0 U	2.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	2.0 U	2.0 U	0.5 U	1.0 U
Ethyl Benzene	5.0	2.0 U	2.0 U	1.0 U	1.0 U
m/p-Xylenes	5.0	2.0 U	2.0 U	2.0 U	2.0 U
Methyl tert-butyl Ether	10	2.0 U	2.0 U	1.0 U	1.0 U
Methylene Chloride	5.0	5.0 U	5.0 U	5.0 U	1.0 U
o-Xylene	5.0*	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5.0	2.0 U	2.0 U	1.0 U	1.0 U F1
Toluene	5.0	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5.0	2.0 U	2.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	2.0 U	2.0 U	0.5 U	1.0 U
Trichloroethene	5.0	2.0 U	2.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5.0	2.0 U	2.0 U	2.0 U	1.0 U
Vinyl Chloride	2.0	2.0 U	2.0 U	2.0 U	1.0 U
Total VOCs		40.41	37.82	32.2	39.29

Definitions:
* - NYSDEC Principal Organic Contaminant Standard of 5 µg/L applies to this compound.
µg/L - microgram per liter
F1 - MS and/or MSD recovery exceeds control limits
J - Compound was detected below the reporting limit or concentration is estimated for TICS.
NYSDEC - New York State Department of Environmental Conservation
U - The compound was not detected at the indicated concentration.

Notes:
1. Concentrations detected above the NYSDEC Class GA Standard are highlighted in yellow.

TABLE 5-6
SUMMARY OF GROUNDWATER TREATMENT SYSTEM VOCs (INFLUENT - RW-2)
GLADDING CORDAGE SITE
SOUTH OTSELIC, NEW YORK
NYSDEC SITE NO. 7-09-009

Sample ID Sampling Date	NYSDEC Class GA Standard	RW-2 1/30/2017	RW-2 2/27/2017	RW-2 3/23/2017	RW-2 4/26/2017	RW-2 5/24/2017	RW-2 6/29/2017	RW-2 7/31/2017	RW-2 8/28/2017	RW-2 9/20/2017	RW-2 10/23/2017	RW-2 10/25/2017	RW-2 11/28/2017	RW-2 12/29/2017
Volatile Organic Compounds (µg/L)														
1,1,1-Trichloroethane	5.0	30	29	33	26	27	31	25	41	32	28	36	30	32
1,1,2,2-Tetrachloroethane	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	1.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0*	0.63 J	0.66 J	0.76 J	0.63 J	0.65 J	0.75 J	0.64 J	1.0 J	0.72 J	0.66 J	0.9 J	0.82 J	0.71 J
1,1-Dichloroethene	5.0	0.65 J	1.1 J	0.71 J	0.51 J	0.57 J	0.55 J	0.65 J	0.92 J	0.61 J	0.6 J	0.8 J	0.66 J	0.72 J
1,2-Dichlorobenzene	3.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	1.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	3.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	3.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Benzene	1.0	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	7.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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
Ethyl Benzene	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	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	5.0*	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	2.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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		31.28	30.76	34.47	27.14	28.22	32.3	26.29	42.92	33.33	29.26	37.7	31.48	33.43

Definitions:
* - NYSDEC Principal Organic Contaminant Standard of 5 µg/L applies to this compound.
µg/L - microgram per liter
F1 - MS and/or MSD recovery exceeds control limits
J - Compound was detected below the reporting limit or concentration is estimated for TICS.
NYSDEC - New York State Department of Environmental Conservation
U - The compound was not detected at the indicated concentration.

Notes:
1. Concentrations detected above the NYSDEC Class GA Standard are highlighted in yellow.

TABLE 5-6
SUMMARY OF GROUNDWATER TREATMENT SYSTEM VOCs (INFLUENT - RW-2)
GLADDING CORDAGE SITE
SOUTH OTSELIC, NEW YORK
NYSDEC SITE NO. 7-09-009

Sample ID Sampling Date	NYSDEC Class GA Standard	RW-2 1/29/2018	RW-2 2/27/2018	RW-2 3/29/2018	RW-2 6/22/2018	RW-2 7/29/2018	RW-2 8/27/2018	RW-2 9/27/2018	RW-2 10/19/2018	RW-2 11/26/2018	RW-2 12/16/2018
Volatile Organic Compounds (µg/L)											
1,1,1-Trichloroethane	5.0	30	32	29	50	49	51	43	37	29	29
1,1,2,2-Tetrachloroethane	5.0	2.0 U	2.0 U	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	1.0	2.0 U	2.0 U	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	5.0*	0.63 J	0.73 J	0.64 J	1.4 J	1.3 J	1.3 J	0.92 J	0.89 J	0.76 J	0.78 J
1,1-Dichloroethene	5.0	0.61 J	0.67 J	0.57 J	1.2 J	0.93 J	1.1 J	0.92 J	0.85 J	0.75 J	0.75 J
1,2-Dichlorobenzene	3.0	2.0 U	2.0 U	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
1,2-Dichloropropane	1.0	2.0 U	2.0 U	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	3.0	2.0 U	2.0 U	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	3.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Benzene	1.0	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
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
Bromomethane	5.0	5.0 U	2.0 U	5.0 U	5.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.62 J	0.65 J
Carbon Tetrachloride	5.0	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	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	7.0	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	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
Ethyl Benzene	5.0	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	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	10	2.0 U	2.0 U	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	5.0	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	5.0*	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	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	5.0	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	5.0	2.0 U	2.0 U	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
Trichloroethene	5.0	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	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	2.0	2.0 U	2.0 U	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		31.24	33.4	30.21	52.6	51.23	53.4	44.84	38.74	30.51	30.53

Definitions:
* - NYSDEC Principal Organic Contaminant Standard of 5 µg/L applies to this compound.
µg/L - microgram per liter
F1 - MS and/or MSD recovery exceeds control limits
J - Compound was detected below the reporting limit or concentration is estimated for TICS.
NYSDEC - New York State Department of Environmental Conservation
U - The compound was not detected at the indicated concentration.

Notes:
1. Concentrations detected above the NYSDEC Class GA Standard are highlighted in yellow.

TABLE 5-6
SUMMARY OF GROUNDWATER TREATMENT SYSTEM VOCs (INFLUENT - RW-2)
GLADDING CORDAGE SITE
SOUTH OTSELIC, NEW YORK
NYSDEC SITE NO. 7-09-009

Sample ID Sampling Date	NYSDEC Class GA Standard	RW-2 1/21/2019	RW-2 2/14/2019	RW-2 3/26/2019	RW-2 4/30/2019	RW-2 5/20/2019	RW-2 6/22/2019	RW-2 7/26/2019	RW-2 8/15/2019	RW-2 9/26/2019	RW-2 10/25/2019	RW-2 11/22/2019	RW-2 12/12/2019
Volatile Organic Compounds (µg/L)													
1,1,1-Trichloroethane	5.0	27.8	40.2	28	43.2	29.2	29.5	27.9	34.2	38.4	26.9	25.8	32.6
1,1,2,2-Tetrachloroethane	5.0	2.0 U	2.0 U	2.0 U	2.0 U	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	1.0	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0*	0.67 J	0.9 J	0.54 J	1.0 J	0.63 J	0.7 J	2.0 U	0.67 J	1.05 J	0.73 J	0.73 J	0.79 J
1,1-Dichloroethene	5.0	4.1	0.78 J	0.61 J	1.05 J	0.68 J	0.66 J	0.67 J	0.57 J	0.95 J	0.73 J	0.69 J	0.68 J
1,2-Dichlorobenzene	3.0	2.0 U	2.0 U	2.0 U	2.0 U	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
1,2-Dichloropropane	1.0	2.0 U	2.0 U	2.0 U	2.0 U	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	3.0	2.0 U	2.0 U	2.0 U	2.0 U	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	3.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Benzene	1.0	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
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
Bromomethane	5.0	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	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	7.0	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	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
Ethyl Benzene	5.0	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	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	10	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	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	5.0*	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	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
Trichloroethene	5.0	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	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	2.0	2.0 U	2.0 U	2.0 U	2.0 U	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		32.57	41.88	29.15	45.25	30.51	30.86	28.57	35.44	40.4	28.36	27.22	34.07

Definitions:
* - NYSDEC Principal Organic Contaminant Standard of 5 µg/L applies to this compound.
µg/L - microgram per liter
F1 - MS and/or MSD recovery exceeds control limits
J - Compound was detected below the reporting limit or concentration is estimated for TICS.
NYSDEC - New York State Department of Environmental Conservation
U - The compound was not detected at the indicated concentration.

Notes:
1. Concentrations detected above the NYSDEC Class GA Standard are highlighted in yellow.

TABLE 5-6
SUMMARY OF GROUNDWATER TREATMENT SYSTEM VOCs (INFLUENT - RW-2)
GLADDING CORDAGE SITE
SOUTH OTSELIC, NEW YORK
NYSDEC SITE NO. 7-09-009

Sample ID Sampling Date	NYSDEC Class GA Standard	RW-2 1/13/2020	RW-2 2/6/2020	RW-2 3/12/2020	RW-2 4/15/2020
Volatile Organic Compounds (µg/L)					
1,1,1-Trichloroethane	5.0	28.4	29.9	26	24
1,1,2,2-Tetrachloroethane	5.0	2.0 U	2.0 U	0.5 U	1.0 U
1,1,2-Trichloroethane	1.0	2.0 U	2.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5.0*	0.65 J	0.7 J	1.0 U	0.62 J
1,1-Dichloroethene	5.0	0.57 J	0.64 J	1.0 U	0.6 J
1,2-Dichlorobenzene	3.0	2.0 U	2.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	2.0 U	2.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1.0	2.0 U	2.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3.0	2.0 U	2.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3.0	2.0 U	2.0 U	1.0 U	1.0 U
Benzene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	2.0 U	2.0 U	0.5 U	1.0 U
Bromoform	50	2.0 U	2.0 U	1.0 U	1.0 U
Bromomethane	5.0	2.0 U	2.0 U	2.0 U	1.0 U
Carbon Tetrachloride	5.0	2.0 U	2.0 U	5.0 U	1.0 U
Chlorobenzene	5.0	2.0 U	2.0 U	1.0 U	1.0 U
Chloroethane	5.0	2.0 U	2.0 U	2.0 U	1.0 U
Chloroform	7.0	2.0 U	2.0 U	2.0 U	1.0 U
Chloromethane	5.0	2.0 U	2.0 U	2.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	2.0 U	2.0 U	0.50 U	1.0 U
Ethyl Benzene	5.0	2.0 U	2.0 U	1.0 U	1.0 U
m/p-Xylenes	5.0	2.0 U	2.0 U	2.0 U	2.0 U
Methyl tert-butyl Ether	10	2.0 U	2.0 U	1.0 U	1.0 U
Methylene Chloride	5.0	5.0 U	5.0 U	5.0 U	1.0 U
o-Xylene	5.0*	2.0 U	2.0 U	1.0 U	1.0 U
Tetrachloroethene	5.0	2.0 U	2.0 U	1.0 U	1.0 U
Toluene	5.0	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5.0	2.0 U	2.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	2.0 U	2.0 U	0.5 U	1.0 U
Trichloroethene	5.0	2.0 U	2.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5.0	2.0 U	2.0 U	2.0 U	1.0 U
Vinyl Chloride	2.0	2.0 U	2.0 U	2.0 U	1.0 U
Total VOCs		29.62	31.24	26	25.22

Definitions:
* - NYSDEC Principal Organic Contaminant Standard of 5 µg/L applies to this compound.
µg/L - microgram per liter
F1 - MS and/or MSD recovery exceeds control limits
J - Compound was detected below the reporting limit or concentration is estimated for TICS.
NYSDEC - New York State Department of Environmental Conservation
U - The compound was not detected at the indicated concentration.

Notes:
1. Concentrations detected above the NYSDEC Class GA Standard are highlighted in yellow.

TABLE 5-7
SUMMARY OF GROUNDWATER TREATMENT SYSTEM PFAS/1,4-DIOXANE
GLADDING CORDAGE SITE
SOUTH OTSELIC, NEW YORK
NYSDEC SITE NO. 7-09-009

Sample ID Sampling Date	USEPA LIFETIME HEALTH ADVISORY	NYSDEC GUIDANCE VALUE	RW-1		RW-2		EFF(46HZ)		DUP-1 ¹
			10/25/2017	9/26/2019	10/25/2017	9/26/2019	10/25/2017	9/26/2019	9/26/2019
Perfluorinated Alkyl Substances									
Perfluorobutanesulfonic Acid (PFBS)	--	100	1.99 J	1.16 J	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Perfluorohexanesulfonic Acid (PFHxS)	--	100	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Perfluoroheptanoic Acid (PFHpA)	--	100	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Perfluorooctanoic Acid (PFOA)	70	10*	3.72	1.26 J	0.89 J	2.0 U	1.32 J	2.0 U	2.0 U
Perfluorooctanesulfonic Acid (PFOS)	70	10*	2.15	1.47 EMPC	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Perfluorononanoic acid (PFNA)	--	100	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0
Total PFOA + PFOS	70	--	5.87	2.73	0.89	ND	1.32	ND	ND
Total PFAS	--	500	7.86	3.89	0.89	ND	1.32	ND	ND
1,4 Dioxane by Method 8270 SIM (µg/L)	--	1.0*	0.29 J	0.19 U	0.4 U	0.19 U	0.4 U	0.19 U	0.19 U

Definitions:

EMPC - The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

µg/L - microgram per liter

ng/L - nanograms per Liter

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

ND - Non-detect

NYSDEC - New York State Department of Environmental Conservation

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

USEPA - United States Environmental Protection Agency

* - The New York State Maximum Contaminant Level.

Notes:

1. Concentrations detected above the United States Environmental Protection Agency Lifetime Health Advisory are highlighted in orange.
2. Concentrations detected above the NYSDEC Guidance Value are highlighted in yellow.
3. DUP-1 is a duplicate sample collected at EFF (46 HZ).

TABLE 5-8
SUMMARY OF GROUNDWATER TREATMENT SYSTEM VOCS (EFFLUENT)
GLADDING CORDAGE SITE
SOUTH OTSELIC, NEW YORK
NYSDEC SITE NO. 7-09-009



Sample ID Sampling Date	NYSDEC Class GA Standard	EFF(46HZ) 1/30/2017	EFF(46HZ) 2/27/2017	EFF(46HZ) 3/23/2017	EFF(46HZ) 4/26/2017	EFF(46HZ) 5/24/2017	EFF(46HZ) 6/29/2017	EFF(46HZ) 7/31/2017	EFF(46HZ) 8/28/2017	EFF(46HZ) 9/20/2017	EFF(46HZ) 10/23/2017	EFF(46HZ) 10/25/2017	EFF(46HZ) 11/28/2017	EFF(46HZ) 12/29/2017
Volatile Organic Compounds (µg/L)														
1,1,1-Trichloroethane	5.0	1.0 U	1.0 U	1.0 U	1.0 U	0.22	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	1.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0*	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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-Dichlorobenzene	3.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	1.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	3.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	3.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Benzene	1.0	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	7.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	0.66 J	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	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	5.0*	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	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
Trichloroethene	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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	2.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	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		ND	ND	0.66	ND	0.22	ND	ND	ND	ND	ND	ND	ND	ND

Definitions:
* - NYSDEC Principal Organic Contaminant Standard of 5 µg/L applies to this compound.
µg/L - microgram per liter
J - Compound was detected below the reporting limit or concentration is estimated for TICS.
NA - Not analyzed
ND - Non-detect
NYSDEC - New York State Department of Environmental Conservation
U - The compound was not detected at the indicated concentration.

Notes:
1. Concentrations detected above the NYSDEC Class GA Standard are highlighted in yellow.

TABLE 5-8
SUMMARY OF GROUNDWATER TREATMENT SYSTEM VOCS (EFFLUENT)
GLADDING CORDAGE SITE
SOUTH OTSELIC, NEW YORK
NYSDEC SITE NO. 7-09-009

Sample ID Sampling Date	NYSDEC Class GA Standard	EFF(46HZ) 1/29/2018	EFF(46HZ) 1/30/2018	EFF(46HZ) 2/26/2018	EFF(46HZ) 3/29/2018	EFF(46HZ) 6/22/2018	EFF(46HZ) 7/29/2018	EFF(46HZ) 8/28/2018	EFF(46HZ) 9/27/2018	EFF(46HZ) 10/19/2018	EFF(46HZ) 11/26/2018	EFF(46HZ) 12/16/2018
Volatile Organic Compounds (µg/L)												
1,1,1-Trichloroethane	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1,2,2-Tetrachloroethane	5.0	2.0 U	2.0 U	2.0 U	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	1.0	2.0 U	2.0 U	2.0 U	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	5.0*	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	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-Dichlorobenzene	3.0	2.0 U	2.0 U	2.0 U	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
1,2-Dichloropropane	1.0	2.0 U	2.0 U	2.0 U	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	3.0	2.0 U	2.0 U	2.0 U	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	3.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Benzene	1.0	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
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
Bromomethane	5.0	2.0 U	5.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.82 J	0.93 J
Carbon Tetrachloride	5.0	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	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	7.0	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	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
Dibromochloromethane	50	2.0 U	NA	NA	NA	NA	NA	NA	NA	2.0 U	2.0 U	2.0 U
Ethyl Benzene	5.0	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	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	10	2.0 U	2.0 U	2.0 U	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	5.0	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	5.0*	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	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	5.0	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	5.0	2.0 U	2.0 U	2.0 U	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	5.0 U	2.0 U	2.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.0 U
Trichloroethene	5.0	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	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	2.0	2.0 U	2.0 U	2.0 U	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		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.82	0.93

Definitions:
* - NYSDEC Principal Organic Contaminant Standard of 5 µg/L applies to this compound.
µg/L - microgram per liter
J - Compound was detected below the reporting limit or concentration is estimated for TICS.
NA - Not analyzed
ND - Non-detect
NYSDEC - New York State Department of Environmental Conservation
U - The compound was not detected at the indicated concentration.

Notes:
1. Concentrations detected above the NYSDEC Class GA Standard are highlighted in yellow.

TABLE 5-8
SUMMARY OF GROUNDWATER TREATMENT SYSTEM VOCS (EFFLUENT)
GLADDING CORDAGE SITE
SOUTH OTSELIC, NEW YORK
NYSDEC SITE NO. 7-09-009

Sample ID Sampling Date	NYSDEC Class GA Standard	EFF(46HZ) 1/21/2019	EFF(46HZ) 2/14/2019	EFF(46HZ) 3/26/2019	EFF(46HZ) 4/30/2019	EFF(46HZ) 5/20/2019	EFF(46HZ) 6/22/219	EFF(46HZ) 7/26/2019	EFF(46HZ) 8/15/2019	EFF(46HZ) 9/26/2019	EFF(46HZ) 10/25/2019	EFF(46HZ) 11/22/2019	EFF(46HZ) 12/12/2019
Volatile Organic Compounds (µg/L)													
1,1,1-Trichloroethane	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1,2,2-Tetrachloroethane	5.0	2.0 U	2.0 U	2.0 U	2.0 U	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	1.0	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0*	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	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-Dichlorobenzene	3.0	2.0 U	2.0 U	2.0 U	2.0 U	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
1,2-Dichloropropane	1.0	2.0 U	2.0 U	2.0 U	2.0 U	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	3.0	2.0 U	2.0 U	2.0 U	2.0 U	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	3.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Benzene	1.0	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
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
Bromomethane	5.0	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	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	7.0	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	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
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
Ethyl Benzene	5.0	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	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	10	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	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	5.0*	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	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
Trichloroethene	5.0	2.0 U	2.0 U	2.0 U	2.0 U	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	5.0	2.0 U	2.0 U	2.0 U	2.0 U	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	2.0	2.0 U	2.0 U	2.0 U	2.0 U	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		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Definitions:
* - NYSDEC Principal Organic Contaminant Standard of 5 µg/L applies to this compound.
µg/L - microgram per liter
J - Compound was detected below the reporting limit or concentration is estimated for TICS.
NA - Not analyzed
ND - Non-detect
NYSDEC - New York State Department of Environmental Conservation
U - The compound was not detected at the indicated concentration.

Notes:
1. Concentrations detected above the NYSDEC Class GA Standard are highlighted in yellow.

TABLE 5-8
SUMMARY OF GROUNDWATER TREATMENT SYSTEM VOCS (EFFLUENT)
GLADDING CORDAGE SITE
SOUTH OTSELIC, NEW YORK
NYSDEC SITE NO. 7-09-009

Sample ID Sampling Date	NYSDEC Class GA Standard	EFF(46HZ) 1/13/2020	EFF(46HZ) 2/6/2020	EFF(46HZ) 3/12/2020	EFF(46HZ) 4/15/2020
Volatile Organic Compounds (µg/L)					
1,1,1-Trichloroethane	5.0	2.0 U	2.0 U	2.0 U	2.0 U
1,1,2,2-Tetrachloroethane	5.0	2.0 U	2.0 U	2.0 U	2.0 U
1,1,2-Trichloroethane	1.0	2.0 U	2.0 U	2.0 U	2.0 U
1,1-Dichloroethane	5.0*	2.0 U	2.0 U	2.0 U	2.0 U
1,1-Dichloroethene	5.0	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	3.0	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
1,2-Dichloropropane	1.0	2.0 U	2.0 U	2.0 U	2.0 U
1,3-Dichlorobenzene	3.0	2.0 U	2.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	3.0	2.0 U	2.0 U	2.0 U	2.0 U
Benzene	1.0	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
Bromoform	50	2.0 U	2.0 U	2.0 U	2.0 U
Bromomethane	5.0	2.0 U	2.0 U	2.0 U	2.0 U
Carbon Tetrachloride	5.0	2.0 U	2.0 U	2.0 U	2.0 U
Chlorobenzene	5.0	2.0 U	2.0 U	2.0 U	2.0 U
Chloroethane	5.0	2.0 U	2.0 U	2.0 U	2.0 U
Chloroform	7.0	2.0 U	2.0 U	2.0 U	2.0 U
Chloromethane	5.0	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
Dibromochloromethane	50	2.0 U	2.0 U	2.0 U	2.0 U
Ethyl Benzene	5.0	2.0 U	2.0 U	2.0 U	2.0 U
m/p-Xylenes	5.0	2.0 U	2.0 U	2.0 U	2.0 U
Methyl tert-butyl Ether	10	2.0 U	2.0 U	2.0 U	2.0 U
Methylene Chloride	5.0	5.0 U	5.0 U	5.0 U	5.0 U
o-Xylene	5.0*	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	5.0	2.0 U	2.0 U	2.0 U	2.0 U
Toluene	5.0	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5.0	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
Trichloroethene	5.0	2.0 U	2.0 U	2.0 U	2.0 U
Trichlorofluoromethane	5.0	2.0 U	2.0 U	2.0 U	2.0 U
Vinyl Chloride	2.0	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		ND	ND	ND	ND

Definitions:
* - NYSDEC Principal Organic Contaminant Standard of 5 µg/L applies to this compound.
µg/L - microgram per liter
J - Compound was detected below the reporting limit or concentration is estimated for TICS.
NA - Not analyzed
ND - Non-detect
NYSDEC - New York State Department of Environmental Conservation
U - The compound was not detected at the indicated concentration.

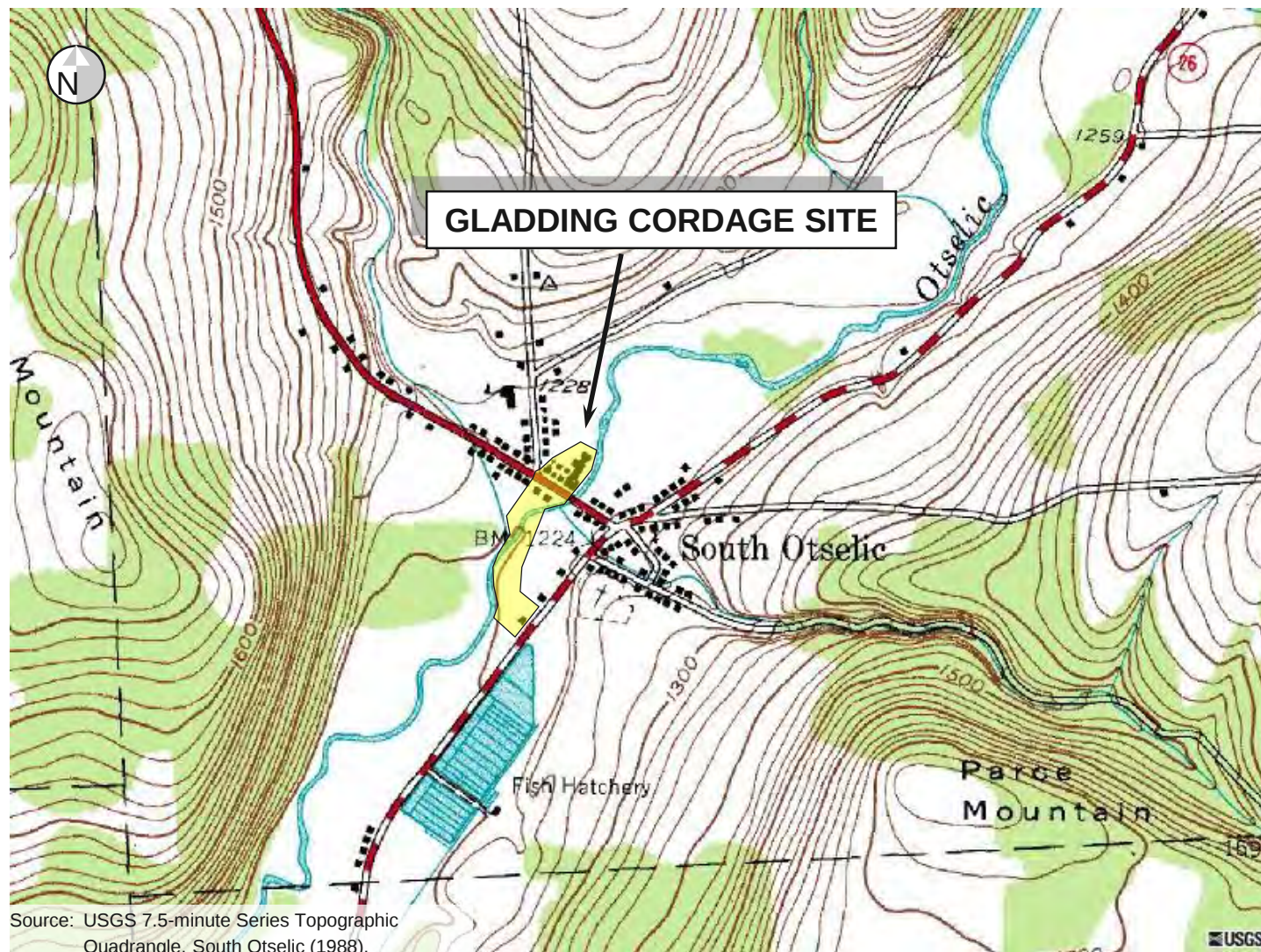
Notes:
1. Concentrations detected above the NYSDEC Class GA Standard are highlighted in yellow.

FIGURES



Figure 2-1 Site Location

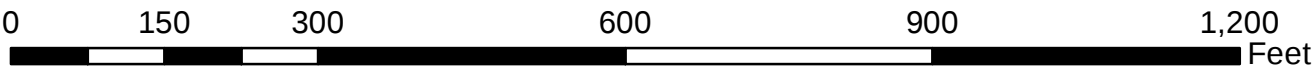
Gladding Cordage Site
South Otselic, New York
NYSDEC Site 7-09-009



Source: USGS 7.5-minute Series Topographic
Quadrangle, South Otselic (1988).

0 2,000 ft





- Legend**
- Monitoring Well
 - Recovery Well
 - Approximate Site Boundary

NYSDEC STANDBY CONTRACT NO. D009804-11
GLADDING CORDAGE SITE 7-09-009
SOUTH OTSELIC, NEW YORK

PERIODIC REVIEW REPORT

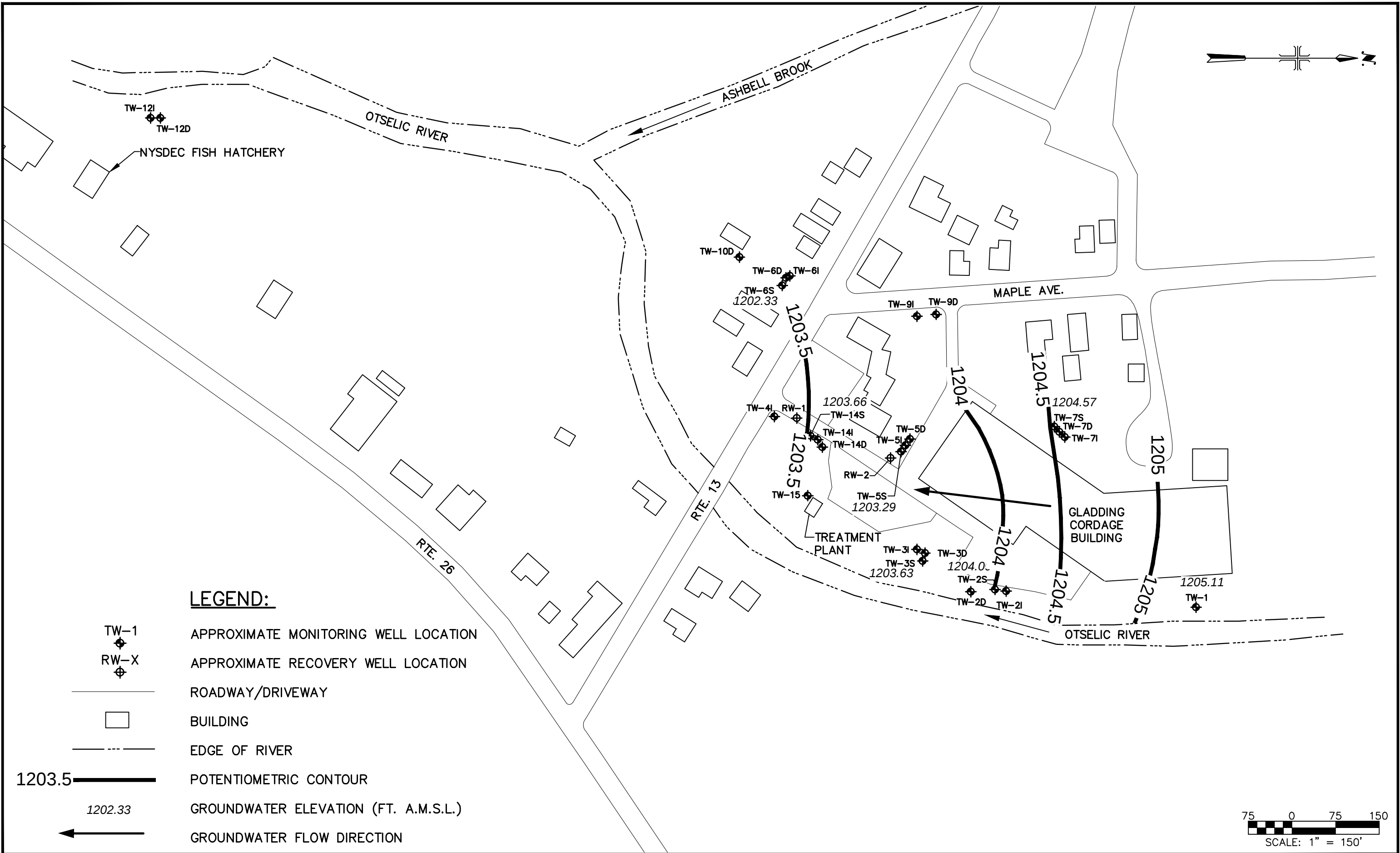
MONITORING WELL LOCATIONS



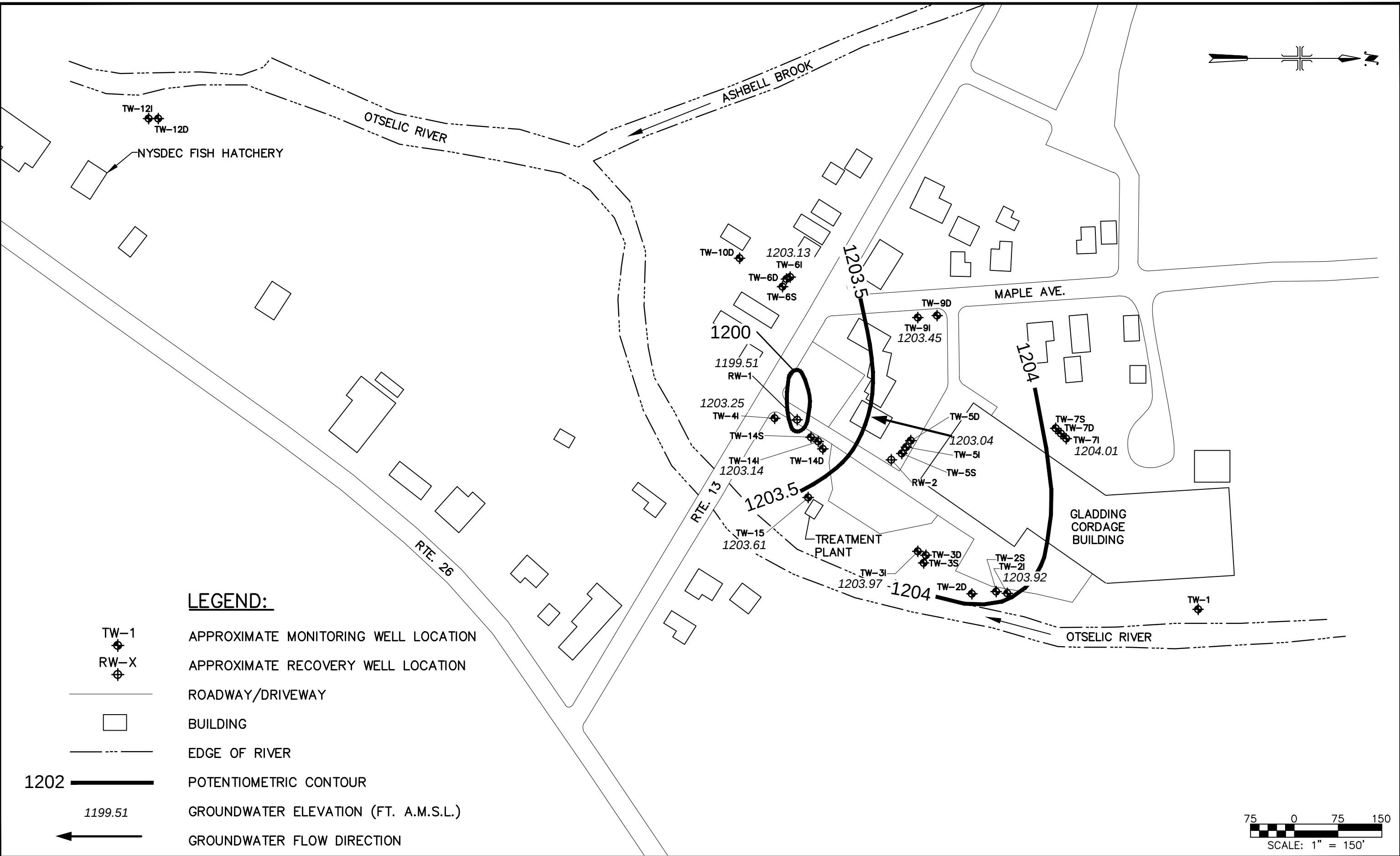
Design & Consultancy
for natural and
built assets

FIGURE
2-3

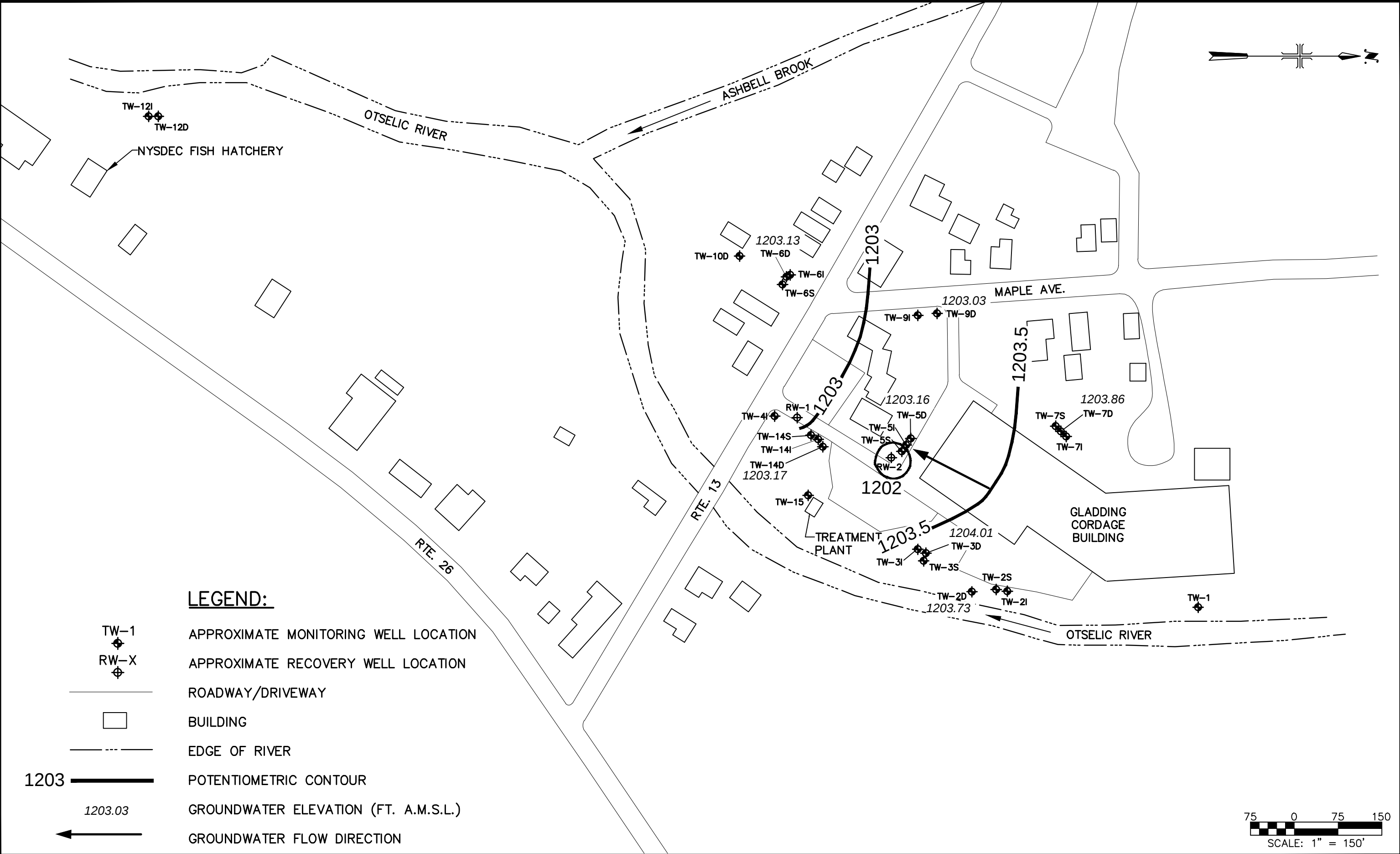
USER: J\MULLINS FILENAME: G:\ACAD\PROJ\00266406.0000\FIGURES\2019\FIGURE 4-2 SHALLOW POT 3-12-19.DWG SAVE DATE: 5/15/2019 5:40 PM PLOT DATE: 5/15/2019 5:41 PM



USER: J\MULLINS FILENAME: G:\ACAD\PROJ\00266406.0000\FIGURES\2019\FIGURE 4-3 INTERMEDIATE POT 3-12-19.DWG SAVE DATE: 4/22/2019 11:48 AM PLOT DATE: 4/22/2019 11:50 AM



USER: J.MULLINS FILENAME: G:\ACAD\PROJ\00266406.0000\FIGURES\2019\FIGURE 4-4 DEEP POT 3-12-19.DWG SAVE DATE: 5/15/2019 6:38 PM PLOT DATE: 5/15/2019 6:38 PM



APPENDIX A

O&M Checklists



Gladding Cordage
South Otselec, New York
NYSDEC Site #709009

Date 4-26-17
Inspector L. Whalen
Time 0745

Treatment System Operation		Alarms	
System On (Y/N)	<u>Y</u>	A/C Fail (Y/N)	<u>N</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>

Recovery Wells	RW-1	RW-2
Flow Rate (GPM)	<u>25.0</u>	<u>23.6</u>
Total Flow (Gallons)		
Water Level (Feet Above Probe)	<u>31.10</u>	<u>56.59</u>
Probe Depth (Feet BTOC)	<u>40.00</u>	<u>65.00</u>

Air Stripper			
Blower VFD Setting (Hertz)	<u>46.0</u>	Intake/Exhaust Piping OK? (Y/N)	<u>N</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>54°</u>

Heat Exchanger			
Heat (On/Off)	<u>on</u>	Building Temperature (F)	<u>77°</u>
Heat Exchanger Flow (GPM)	<u>0.0</u>	Heat Exchanger Pressure (PSI)	<u>1.5</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>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:

Sampled: RW-1 - 0630
RW-2 - 0635
EFF 46 HZ - 0640

- Building check inside/out 0650

- Trimmed / mowed needed non wet areas 0700

- Turned Electric heat down to low / will turn off next month

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 5-24-17
Inspector L. Whalen
Time 12:48

Engineering 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

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)

24.5

23.4

Total Flow (Gallons)

Water Level (Feet Above Probe)

30.33

55.62

Probe Depth (Feet BTOC)

40.00

65.00

Blower

Blower VFD Setting (Hertz)

46.0

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°)

53°

Heat Exchanger

Heat (On/Off)

ON OFF

Building Temperature (F)

71°

Heat Exchanger Flow (GPM)

0.0

Heat Exchanger Pressure (PSI)

1.3

General Building Site

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)

Y

Sampled: RW-1 - 12:20
RW-2 - 12:25
EFF 46 HZ - 12:30

System Check : 12:48

Mowed Grass : 13:00pm

Well check : 1400

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 6-29-17
Inspector L. Whalen
Time 0730

Plant Start System Operation		Alarms	
System On (Y/N)	<u>Y</u>	A/C Fail (Y/N)	<u>N</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>

Rainwater Grade	
Flow Rate (GPM)	<u>19.7</u>
Total Flow (Gallons)	<u>24.1</u>
Water Level (Feet Above Probe)	<u>30.20</u>
Probe Depth (Feet BTOP)	<u>40.00</u>
	<u>55.60</u>
	<u>65.00</u>

Air Piping	
Blower VFD Setting (Hertz)	<u>46.0</u>
System Pressure (inches water)	<u>10.1</u>
Influent/Effluent Piping OK? (Y/N)	<u>Y</u>
Intake/Exhaust Piping OK? (Y/N)	<u>Y</u>
Water Leaks (Y/N)	<u>N</u>
Water Temperature (F°)	<u>57°</u>

Heat Exchangers	
Heat (On/Off)	<u>off</u>
Heat Exchanger Flow (GPM)	<u>2.3</u>
Building Temperature (F)	<u>69°</u>
Heat Exchanger Pressure (PSI)	<u>1.4</u>

General Building/Site	
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>

Mowed Grass - 0600 - 0730

Cleaned Air Stripper - 0800 - 1100

System check - 11:30

Sampled: RW-1 - 1330
RW-2 - 1340
EFF 46-HZ - 1350

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 7-31-17
Inspector C. Whalen
Time 1325

Gladding Cordage Operation		Alarms	
System On (Y/N)	<u>Y</u>	A/C Fail (Y/N)	<u>N</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>

Recovery Data		Flow	
Flow Rate (GPM)	<u>15.9</u>		<u>23.7</u>
Total Flow (Gallons)			
Water Level (Feet Above Probe)	<u>30.55</u>		<u>55.51</u>
Probe Depth (Feet BTOC)	<u>40.00</u>		<u>65.00</u>

Blower Settings		Intake/Exhaust Piping	
Blower VFD Setting (Hertz)	<u>46.0</u>	Intake/Exhaust Piping OK? (Y/N)	<u>Y</u>
System Pressure (inches water)	<u>9.9</u>	Water Leaks (Y/N)	<u>N</u>
Influent/Effluent Piping OK? (Y/N)	<u>Y</u>	Water Temperature (F°)	<u>58°</u>

Heat Exchanger		Building Temperature	
Heat (On/Off)	<u>off</u>	Building Temperature (F)	<u>68°</u>
Heat Exchanger Flow (GPM)	<u>0.0</u>	Heat Exchanger Pressure (PSI)	<u>1.4</u>

General Building Site		Circuit Breakers	
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>

Samples : RW-1 - 1120
RW-2 - 1125
HEEF 46 #2 - 1130

mowed grass / trimmed a few bushes

Gladding Cordage
South Otsellc, New York
NYSDEC Site #709009

Date 8-28-17
Inspector L. Whalen
Time 0730

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

	RW-1	RW-2
Flow Rate (GPM)	<u>16.5</u>	<u>23.8</u>
Total Flow (Gallons)		
Water Level (Feet Above Probe)	<u>29.94</u>	<u>55.07</u>
Probe Depth (Feet BTOC)	<u>40.00</u>	<u>65.00</u>

Air Stripper

Blower VFD Setting (Hertz)	<u>46.0</u>	Intake/Exhaust Piping OK? (Y/N)	<u>Y</u>
System Pressure (inches water)	<u>10.3</u>	Water Leaks (Y/N)	<u>N</u>
Influent/Effluent Piping OK? (Y/N)	<u>Y</u>	Water Temperature (F°)	<u>58.9°</u>

Heat Exchanger

Heat (On/Off)	<u>off</u>	Building Temperature (F)	<u>68°</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>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 Restart - 0600
UPS Reset 0600

Mowed Grass - 0610

Sampled RW-1 - 0714
RW-2 - 0714
EFF 46 HZ - 0718

System / Well check - 0730

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 9-20-17
Inspector L. Whalen
Time 0800

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

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

Flow Rate (GPM)

16.4

Total Flow (Gallons)

24.0

Water Level (Feet Above Probe)

29.40

Probe Depth (Feet BTOC)

40.00

54.82

65.00

Blower VFD Setting (Hertz)

46.0

System Pressure (inches water)

10.2

Influent/Effluent Piping OK? (Y/N)

Y

Intake/Exhaust Piping OK? (Y/N)

Y

Water Leaks (Y/N)

N

Water Temperature (F°)

54.0

Heat (On/Off)

on

Heat Exchanger Flow (GPM)

0.0

Building Temperature (F)

61.1°

Heat Exchanger Pressure (PSI)

1.3

Building Condition OK? (Y/N)

Y

Grass Mowed (Y/N)

Y

Monitoring Wells OK? (Y/N)

Y

Circuit Breakers Checked (Y/N)

Y

Outfall Condition OK? (Y/N)

Y

Samples Collected (Y/N)

Y

System Restart / UPS Reset - 0620

Mowed Grass - 0630

Samples collected - RW-1 - 0740

RW-2 - 0745

EFF-46-HZ - 0750

System Check - 0800

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 10-23-17
Inspector L. White
Time 0645

System On (Y/N)

Y

A/C Fail (Y/N)

N

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

Flow Rate (GPM)

15.9

23.2

Total Flow (Gallons)

29.72

34.67

Water Level (Feet Above Probe)

40.00

65.00

Probe Depth (Feet BTOC)

Blower VFD Setting (Hertz)

46.0

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°)

53°

Heat (On/Off)

on

Building Temperature (F)

61°

Heat Exchanger Flow (GPM)

0.0

Heat Exchanger Pressure (PSI)

1.3

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)

Y

Sampled: RW-1 - 0610

RW-2 - 0615

0620 0615

EFF 46 HZ - 0620

System check - 0630

mowed grass - 0640

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 11/28/17
Inspector JRW
Time 10:00

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

	RW-1	RW-2
Flow Rate (GPM)	<u>15.9</u>	<u>23.7</u>
Total Flow (Gallons)		
Water Level (Feet Above Probe)	<u>31.1</u>	<u>55.49</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>59</u>
Heat Exchanger Flow (GPM)	<u>2.3</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>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

collect RW-1 1030
RW-2 1035
eff 4647 1040

- Pull Flow meter for RW-1 Looks OK / clean.
- need to check settings in PLC.

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 12-29-17
Inspector L. White
Time 11:32

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

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

Flow Rate (GPM) 17.6
Total Flow (Gallons) 23.9
Water Level (Feet Above Probe) 31.5
Probe Depth (Feet BTOP) 40.00

55.74
65.00

Blower VFD Setting (Hertz) 46.0
System Pressure (inches water) 11.0
Influent/Effluent Piping OK? (Y/N) Y

Intake/Exhaust Piping OK? (Y/N) Y
Water Leaks (Y/N) N
Water Temperature (F°) 53.2

Heat (On/Off) ON
Heat Exchanger Flow (GPM) 0.0

Building Temperature (F) 68°
Heat Exchanger Pressure (PSI) 1.4

Building Condition OK? (Y/N) Y
Grass Mowed (Y/N) N
Monitoring Wells OK? (Y/N) NA

Circuit Breakers Checked (Y/N) Y
Outfall Condition OK? (Y/N) Y
Samples Collected (Y/N) Y

Samples Collected - RW-1 - 10:45 am

RW-2 - 10:50 am

EPF 46 HZ - 11:00 am

System check - 11:30

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 2-26-18
Inspector L. Whalen
Time 0710

System On (Y/N)	<u>Y</u>	A/C Fail (Y/N)	<u>N</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>

Flow Rate (GPM)	<u>19.3</u>	<u>23.7</u>
Total Flow (Gallons)		
Water Level (Feet Above Probe)	<u>32.69</u>	<u>57.37</u>
Probe Depth (Feet BTOC)	<u>40.00</u>	<u>65.00</u>

Blower VFD Setting (Hertz)	<u>46.0</u>	Intake/Exhaust Piping OK? (Y/N)	<u>Y</u>
System Pressure (inches water)	<u>10.7</u>	Water Leaks (Y/N)	<u>Y</u>
Influent/Effluent Piping OK? (Y/N)	<u>Y</u>	Water Temperature (F°)	<u>57.4°</u>

Heat (On/Off)	<u>On</u>	Building Temperature (F)	<u>69°</u>
Heat Exchanger Flow (GPM)	<u>2.43</u>	Heat Exchanger Pressure (PSI)	<u>9.6</u>

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>

Samples collected

RW-1	
RW-1-MS	-0630
RW-1-MSD	

RW-2	-0640
EFF 46 HZ	-0650

Small leak from Vent stack (water on floor)
Removed turn couc and reset it (tightened it down) (leak stopped)

walked wells and checked flush mounts

System check and building check.
Outfall is good

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 5/23/2018
Inspector J. Wyckoff
Time 7:40

Treatment System Operation

System On (Y/N)	Yes
RW-1 On (Y/N)	Yes
RW-2 On (Y/N)	Yes
Blower On (Y/N)	Yes
Sump Pump On (Y/N)	No

Alarms

A/C Fail (Y/N)	No
RW-1 (Y/N)	No
RW-2 (Y/N)	No
Blower Pressure (Y/N)	No
Sump Level (Y/N)	No

Recovery Wells

RW-1

RW-2

Flow Rate (GPM)	19.1	23.6
Total Flow (Gallons)	Not Reported	Not Reported
Water Level (Feet Above Probe)	30.16	55.70
Probe Depth (Feet BTOC)	40.00	65.00

Air Stripper

Blower VFD Setting (Hertz)	46	Intake/Exhaust Piping OK? (Y/N)	Yes
System Pressure (inches water)	9.9	Water Leaks (Y/N)	No
Influent/Effluent Piping OK? (Y/N)	Yes	Water Temperature (°F)	52°

Heat Exchanger

Heat (On/Off)	Off	Building Temperature (°F)	68°
Heat Exchanger Flow (GPM)	0.00	Heat Exchanger Pressure (PSI)	0.8

General Building/Site

Building Condition OK? (Y/N)	Yes	Circuit Breakers Checked (Y/N)	Yes
Grass Mowed (Y/N)	Yes	Outfall Condition OK? (Y/N)	Yes
Monitoring Wells OK? (Y/N)	Yes	Samples Collected (Y/N)	No

Notes:

Utility pole repairs completed on May 21 and electrical repairs complete today.
System restarted after repairs completed.

Walked Grounds

Inspected Wells

Inspected Outfall

System Check

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 6/22/2018
Inspector L. Whalen
Time 8:30

Treatment System Operation

System On (Y/N)	Yes
RW-1 On (Y/N)	Yes
RW-2 On (Y/N)	Yes
Blower On (Y/N)	Yes
Sump Pump On (Y/N)	No

Alarms

A/C Fail (Y/N)	No
RW-1 (Y/N)	No
RW-2 (Y/N)	No
Blower Pressure (Y/N)	No
Sump Level (Y/N)	No

Recovery Wells

	RW-1
Flow Rate (GPM)	18.3
Total Flow (Gallons)	Not Reported
Water Level (Feet Above Probe)	28.82
Probe Depth (Feet BTOC)	40.00

	RW-2
	23.5
	Not Reported
	54.75
	65.00

Air Stripper

Blower VFD Setting (Hertz)	46	Intake/Exhaust Piping OK? (Y/N)	Yes
System Pressure (inches water)	10.3	Water Leaks (Y/N)	No
Influent/Effluent Piping OK? (Y/N)	Yes	Water Temperature (°F)	52.5°

Heat Exchanger

Heat (On/Off)	Off	Building Temperature (°F)	64°
Heat Exchanger Flow (GPM)	0.00	Heat Exchanger Pressure (PSI)	1.3

General Building/Site

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

Notes:

Sampled: RW-1	-	0630
RW-1-MS	-	0630
RW-1-MSD	-	0630
RW-2	-	0640
EFF 46 HZ	-	0650

Walked Grounds

Inspected Wells

Inspected Outfall

System Check

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 7/29/2018
Inspector L. Whalen
Time 9:40

Treatment System Operation

System On (Y/N) Yes
RW-1 On (Y/N) Yes
RW-2 On (Y/N) Yes
Blower On (Y/N) Yes
Sump Pump On (Y/N) No

Alarms

A/C Fail (Y/N) No
RW-1 (Y/N) No
RW-2 (Y/N) No
Blower Pressure (Y/N) No
Sump Level (Y/N) No

Recovery Wells

RW-1

Flow Rate (GPM) 18.4
Total Flow (Gallons) Not Reported
Water Level (Feet Above Probe) 29.26
Probe Depth (Feet BTOC) 40.00

RW-2

23.5
Not Reported
55.36
65.00

Air Stripper

Blower VFD Setting (Hertz) 46 Intake/Exhaust Piping OK? (Y/N) Yes
System Pressure (inches water) 10.0 Water Leaks (Y/N) No
Influent/Effluent Piping OK? (Y/N) Yes Water Temperature (°F) 55

Heat Exchanger

Heat (On/Off) Off Building Temperature (°F) NR
Heat Exchanger Flow (GPM) 0.00 Heat Exchanger Pressure (PSI) 1.2

General Building/Site

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

Notes:

Sampled: RW-1 - 1110
RW-1-MS - 1110
RW-1-MSD - 1110
RW-2 - 1115
EFF 46 HZ - 1120

System Restart (0950) - Power failure readings (AC Fail)

System Start up (0951)

Trimmed Grass

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 8/27/2018
Inspector L. Whalen
Time 9:40

Treatment System Operation

System On (Y/N) Yes
RW-1 On (Y/N) Yes
RW-2 On (Y/N) Yes
Blower On (Y/N) Yes
Sump Pump On (Y/N) No

Alarms

A/C Fail (Y/N) No
RW-1 (Y/N) No
RW-2 (Y/N) No
Blower Pressure (Y/N) No
Sump Level (Y/N) No

Recovery Wells**RW-1****RW-2**

Flow Rate (GPM) 19.6 23.9
Total Flow (Gallons) Not Reported Not Reported
Water Level (Feet Above Probe) 29.52 55.32
Probe Depth (Feet BTOC) 40.00 65.00

Air Stripper

Blower VFD Setting (Hertz) 46 Intake/Exhaust Piping OK? (Y/N) Yes
System Pressure (inches water) 9.2 Water Leaks (Y/N) No
Influent/Effluent Piping OK? (Y/N) Yes Water Temperature (°F) 58

Heat Exchanger

Heat (On/Off) On Building Temperature (°F) 73°
Heat Exchanger Flow (GPM) 0.00 Heat Exchanger Pressure (PSI) 1.5

General Building/Site

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

Notes:

Sampled: RW-1 - 0900
RW-1-MS - 0900
RW-1-MSD - 0900

RW-2 - 0910
EFF 46 HZ - 0920

System Restart at 0830

Mowed Grass

System Check at 0940

Well Check at 1000

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 9/5/2018
Inspector L. Whalen
Time 12:18

Treatment System Operation

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

Alarms

A/C Fail (Y/N)	<u>No</u>
RW-1 (Y/N)	<u>Yes</u>
RW-2 (Y/N)	<u>No</u>
Blower Pressure (Y/N)	<u>No</u>
Sump Level (Y/N)	<u>No</u>

Recovery Wells**RW-1****RW-2**

Flow Rate (GPM)	<u>0</u>	<u>24.4</u>
Total Flow (Gallons)	<u>Not Reported</u>	<u>Not Reported</u>
Water Level (Feet Above Probe)	<u>29.34</u>	<u>54.89</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>Yes</u>
System Pressure (inches water)	<u>9.7</u>	Water Leaks (Y/N)	<u>No</u>
Influent/Effluent Piping OK? (Y/N)	<u>Yes</u>	Water Temperature (°F)	<u>63°</u>

Heat Exchanger

Heat (On/Off)	<u>On</u>	Building Temperature (°F)	<u>75°</u>
Heat Exchanger Flow (GPM)	<u>2.49</u>	Heat Exchanger Pressure (PSI)	<u>NR</u>

General Building/Site

Building Condition OK? (Y/N)	<u>Yes</u>	Circuit Breakers Checked (Y/N)	<u>Yes</u>
Grass Mowed (Y/N)	<u>No</u>	Outfall Condition OK? (Y/N)	<u>Yes</u>
Monitoring Wells OK? (Y/N)	<u>Yes</u>	Samples Collected (Y/N)	<u>No</u>

Notes:

System Restart: 1218

System Check: 1230

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 9/27/2018
Inspector L. Whalen
Time 13:35

Treatment System Operation

System On (Y/N)	Yes
RW-1 On (Y/N)	Yes
RW-2 On (Y/N)	Yes
Blower On (Y/N)	Yes
Sump Pump On (Y/N)	No

Alarms

A/C Fail (Y/N)	No
RW-1 (Y/N)	Yes
RW-2 (Y/N)	No
Blower Pressure (Y/N)	No
Sump Level (Y/N)	No

Recovery Wells

RW-1

Flow Rate (GPM)	NA
Total Flow (Gallons)	Not Reported
Water Level (Feet Above Probe)	30.83
Probe Depth (Feet BTOC)	40.00

RW-2

Flow Rate (GPM)	24.6
Total Flow (Gallons)	Not Reported
Water Level (Feet Above Probe)	56.36
Probe Depth (Feet BTOC)	65.00

Air Stripper

Blower VFD Setting (Hertz)	46	Intake/Exhaust Piping OK? (Y/N)	Yes
System Pressure (inches water)	10.1	Water Leaks (Y/N)	No
Influent/Effluent Piping OK? (Y/N)	Yes	Water Temperature (°F)	58°

Heat Exchanger

Heat (On/Off)	Off	Building Temperature (°F)	64.7°
Heat Exchanger Flow (GPM)	0.00	Heat Exchanger Pressure (PSI)	1.3

General Building/Site

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

Notes:

Sampled: RW-1	-	1500
RW-1-MS	-	1500
RW-1-MSD	-	1500

RW-2	-	1510
EFF 46 HZ	-	1515

System Restart: 1340

Mowed Grass: 1340 to 1440

System Check: 1530

Well Field Check: 1600

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 10/5/2018
Inspector L. Whalen
Time 14:12:00 PM

Treatment System Operation

System On (Y/N) Yes
RW-1 On (Y/N) Yes
RW-2 On (Y/N) Yes
Blower On (Y/N) Yes
Sump Pump On (Y/N) No

Alarms

A/C Fail (Y/N) No
RW-1 (Y/N) Yes
RW-2 (Y/N) No
Blower Pressure (Y/N) No
Sump Level (Y/N) No

Recovery Wells

RW-1

RW-2

Flow Rate (GPM) NA 24.6
Total Flow (Gallons) Not Reported Not Reported
Water Level (Feet Above Probe) 30.82 56.36
Probe Depth (Feet BTOC) 40.00 65.00

Air Stripper

Blower VFD Setting (Hertz) 46 Intake/Exhaust Piping OK? (Y/N) Yes
System Pressure (inches water) 10.0 Water Leaks (Y/N) No
Influent/Effluent Piping OK? (Y/N) Yes Water Temperature (°F) 60.9°

Heat Exchanger

Heat (On/Off) Off Building Temperature (°F) 63°
Heat Exchanger Flow (GPM) 0.00 Heat Exchanger Pressure (PSI) 1.2

General Building/Site

Building Condition OK? (Y/N) Yes Circuit Breakers Checked (Y/N) Yes
Grass Mowed (Y/N) No Outfall Condition OK? (Y/N) Yes
Monitoring Wells OK? (Y/N) Yes Samples Collected (Y/N) No

Notes:

Sytem Restart: 1415

System Check: 1420

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 10/14/2018
Inspector L. Whalen
Time 12:30

Treatment System Operation

System On (Y/N)	Yes
RW-1 On (Y/N)	Yes
RW-2 On (Y/N)	Yes
Blower On (Y/N)	Yes
Sump Pump On (Y/N)	No

Alarms

A/C Fail (Y/N)	No
RW-1 (Y/N)	Yes
RW-2 (Y/N)	No
Blower Pressure (Y/N)	No
Sump Level (Y/N)	No

Recovery Wells

RW-1

RW-2

Flow Rate (GPM)	NA	24.7
Total Flow (Gallons)	Not Reported	Not Reported
Water Level (Feet Above Probe)	30.43	56.04
Probe Depth (Feet BTOC)	40.00	65.00

Air Stripper

Blower VFD Setting (Hertz)	46	Intake/Exhaust Piping OK? (Y/N)	Yes
System Pressure (inches water)	10.2	Water Leaks (Y/N)	No
Influent/Effluent Piping OK? (Y/N)	Yes	Water Temperature (°F)	53.5°

Heat Exchanger

Heat (On/Off)	On	Building Temperature (°F)	56°
Heat Exchanger Flow (GPM)	2.52	Heat Exchanger Pressure (PSI)	9.9

General Building/Site

Building Condition OK? (Y/N)	Yes	Circuit Breakers Checked (Y/N)	Yes
Grass Mowed (Y/N)	No	Outfall Condition OK? (Y/N)	Yes
Monitoring Wells OK? (Y/N)	Yes	Samples Collected (Y/N)	No

Notes:

Sytem Restart: 1215
Turned System Heat on
System Check: 1230
Well Field Check: 1240

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 10/19/2018
Inspector L. Whalen
Time 8:40

Treatment System Operation

System On (Y/N)	Yes
RW-1 On (Y/N)	Yes
RW-2 On (Y/N)	Yes
Blower On (Y/N)	Yes
Sump Pump On (Y/N)	No

Alarms

A/C Fail (Y/N)	No
RW-1 (Y/N)	Yes
RW-2 (Y/N)	No
Blower Pressure (Y/N)	No
Sump Level (Y/N)	No

Recovery Wells

	RW-1	RW-2
Flow Rate (GPM)	NA	24.5
Total Flow (Gallons)	Not Reported	Not Reported
Water Level (Feet Above Probe)	30.49	55.81
Probe Depth (Feet BTOC)	40.00	65.00

Air Stripper

Blower VFD Setting (Hertz)	46	Intake/Exhaust Piping OK? (Y/N)	Yes
System Pressure (inches water)	10.7	Water Leaks (Y/N)	No
Influent/Effluent Piping OK? (Y/N)	Yes	Water Temperature (°F)	48.7°

Heat Exchanger

Heat (On/Off)	On	Building Temperature (°F)	68°
Heat Exchanger Flow (GPM)	0.00	Heat Exchanger Pressure (PSI)	1.4

General Building/Site

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

Notes:

Sampled: RW-1	815
RW-1-MS	815
RW-1-MSD	815

RW-2	825
EFF 46 HZ	830

System Restart: 0645

System Check: 0840

Turned Electric heat on for Winter season.

Trimmed brush around building and some small areas.

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 11/26/2018
Inspector L. Whalen
Time 8:30

Treatment System Operation

System On (Y/N) Yes
RW-1 On (Y/N) Yes
RW-2 On (Y/N) Yes
Blower On (Y/N) Yes
Sump Pump On (Y/N) No

Alarms

A/C Fail (Y/N) No
RW-1 (Y/N) Yes
RW-2 (Y/N) No
Blower Pressure (Y/N) No
Sump Level (Y/N) No

Recovery Wells

RW-1

RW-2

Flow Rate (GPM) NA 23.5
Total Flow (Gallons) Not Reported Not Reported
Water Level (Feet Above Probe) 30.59 55.77
Probe Depth (Feet BTOC) 40.00 65.00

Air Stripper

Blower VFD Setting (Hertz) 46 Intake/Exhaust Piping OK? (Y/N) Yes
System Pressure (inches water) 10.4 Water Leaks (Y/N) No
Influent/Effluent Piping OK? (Y/N) Yes Water Temperature (°F) 58.3°

Heat Exchanger

Heat (On/Off) On Building Temperature (°F) 69°
Heat Exchanger Flow (GPM) 0.00 Heat Exchanger Pressure (PSI) 1.4

General Building/Site

Building Condition OK? (Y/N) Yes Circuit Breakers Checked (Y/N) Yes
Grass Mowed (Y/N) No Outfall Condition OK? (Y/N) Yes
Monitoring Wells OK? (Y/N) Yes Samples Collected (Y/N) Yes

Notes:

Sampled: RW-1 800
RW-1-MS 800
RW-1-MSD 800

RW-2 810
EFF 46 HZ 815

System Check: 0830

Well Field Check: 0850

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 12/5/2018
Inspector L. Whalen
Time 13:50

Treatment System Operation

System On (Y/N) Yes
RW-1 On (Y/N) Yes
RW-2 On (Y/N) Yes
Blower On (Y/N) Yes
Sump Pump On (Y/N) No

Alarms

A/C Fail (Y/N) No
RW-1 (Y/N) Yes
RW-2 (Y/N) No
Blower Pressure (Y/N) No
Sump Level (Y/N) No

Recovery Wells

RW-1

RW-2

Flow Rate (GPM) NA 24.6
Total Flow (Gallons) Not Reported Not Reported
Water Level (Feet Above Probe) 32.03 56.93
Probe Depth (Feet BTOC) 40.00 65.00

Air Stripper

Blower VFD Setting (Hertz) 46 Intake/Exhaust Piping OK? (Y/N) Yes
System Pressure (inches water) 10.6 Water Leaks (Y/N) No
Influent/Effluent Piping OK? (Y/N) Yes Water Temperature (°F) 50°

Heat Exchanger

Heat (On/Off) On Building Temperature (°F) 63.2
Heat Exchanger Flow (GPM) 2.41 Heat Exchanger Pressure (PSI) 10

General Building/Site

Building Condition OK? (Y/N) Yes Circuit Breakers Checked (Y/N) Yes
Grass Mowed (Y/N) No Outfall Condition OK? (Y/N) Yes
Monitoring Wells OK? (Y/N) Yes Samples Collected (Y/N) No

Notes:

System Restart: 1330
Well Field Check: 1340
System Check: 1350

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 12/16/2018
Inspector L. Whalen
Time 16:50

Treatment System Operation

System On (Y/N) Yes
RW-1 On (Y/N) Yes
RW-2 On (Y/N) Yes
Blower On (Y/N) Yes
Sump Pump On (Y/N) No

Alarms

A/C Fail (Y/N) No
RW-1 (Y/N) Yes
RW-2 (Y/N) No
Blower Pressure (Y/N) No
Sump Level (Y/N) No

Recovery Wells

RW-1

RW-2

Flow Rate (GPM) NA 23.7
Total Flow (Gallons) Not Reported Not Reported
Water Level (Feet Above Probe) 30.33 55.28
Probe Depth (Feet BTOC) 40.00 65.00

Air Stripper

Blower VFD Setting (Hertz) 46 Intake/Exhaust Piping OK? (Y/N) Yes
System Pressure (inches water) 10.5 Water Leaks (Y/N) No
Influent/Effluent Piping OK? (Y/N) Yes Water Temperature (°F) 51.6°

Heat Exchanger

Heat (On/Off) On Building Temperature (°F) 69.2°
Heat Exchanger Flow (GPM) 2.49 Heat Exchanger Pressure (PSI) 10.2

General Building/Site

Building Condition OK? (Y/N) Yes Circuit Breakers Checked (Y/N) Yes
Grass Mowed (Y/N) No Outfall Condition OK? (Y/N) Yes
Monitoring Wells OK? (Y/N) Yes Samples Collected (Y/N) Yes

Notes:

Sampled: RW-1 - 1600
RW-1-MS - 1600
RW-1-MSD - 1600

RW-2 - 1610
EFF 46 HZ - 1615

Site walk and well inspection: 1625

System inspection: 1650

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 1/12/2019
Inspector L. Whalen
Time 22:23

Treatment System Operation

System On (Y/N)	<u>Yes</u>
RW-1 On (Y/N)	<u>Yes</u>
RW-2 On (Y/N)	<u>Yes</u>
Blower On (Y/N)	<u>Yes</u>
Sump Pump On (Y/N)	<u>No</u>

Alarms

A/C Fail (Y/N)	<u>No</u>
RW-1 (Y/N)	<u>Yes</u>
RW-2 (Y/N)	<u>No</u>
Blower Pressure (Y/N)	<u>No</u>
Sump Level (Y/N)	<u>No</u>

Recovery Wells

RW-1

RW-2

Flow Rate (GPM)	<u>0</u>	<u>22.1</u>
Total Flow (Gallons)	<u>Not Reported</u>	<u>Not Reported</u>
Water Level (Feet Above Probe)	<u>31.71</u>	<u>56.42</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>Yes</u>
System Pressure (inches water)	<u>10.9</u>	Water Leaks (Y/N)	<u>No</u>
Influent/Effluent Piping OK? (Y/N)	<u>Yes</u>	Water Temperature (°F)	<u>45.1°</u>

Heat Exchanger

Heat (On/Off)	<u>On</u>	Building Temperature (°F)	<u>59°</u>
Heat Exchanger Flow (GPM)	<u>2.47</u>	Heat Exchanger Pressure (PSI)	<u>10.4</u>

General Building/Site

Building Condition OK? (Y/N)	<u>Yes</u>	Circuit Breakers Checked (Y/N)	<u>Yes</u>
Grass Mowed (Y/N)	<u>No</u>	Outfall Condition OK? (Y/N)	<u>Yes</u>
Monitoring Wells OK? (Y/N)	<u>Yes</u>	Samples Collected (Y/N)	<u>No</u>

Notes:

System Reset: 1015
System Check: 1030

Gladding Cordage South Otselic, New York NYSDEC Site #709009		Date <u>1/18/2019</u> Inspector <u>L. Whalen</u> Time <u>14:00</u>	
Treatment System Operation		Alarms	
System On (Y/N)	<u>Yes</u>	A/C Fail (Y/N)	<u>No</u>
RW-1 On (Y/N)	<u>Yes</u>	RW-1 (Y/N)	<u>Yes</u>
RW-2 On (Y/N)	<u>Yes</u>	RW-2 (Y/N)	<u>No</u>
Blower On (Y/N)	<u>Yes</u>	Blower Pressure (Y/N)	<u>No</u>
Sump Pump On (Y/N)	<u>No</u>	Sump Level (Y/N)	<u>No</u>
Recovery Wells		RW-1	RW-2
Flow Rate (GPM)	<u>0</u>		<u>22.9</u>
Total Flow (Gallons)	<u>Not Reported</u>		<u>Not Reported</u>
Water Level (Feet Above Probe)	<u>30.88</u>		<u>55.77</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>Yes</u>
System Pressure (inches water)	<u>10.6</u>	Water Leaks (Y/N)	<u>No</u>
Influent/Effluent Piping OK? (Y/N)	<u>Yes</u>	Water Temperature (°F)	<u>51.1°</u>
Heat Exchanger			
Heat (On/Off)	<u>On</u>	Building Temperature (°F)	<u>61°</u>
Heat Exchanger Flow (GPM)	<u>2.47</u>	Heat Exchanger Pressure (PSI)	<u>10.1</u>
General Building/Site			
Building Condition OK? (Y/N)	<u>Yes</u>	Circuit Breakers Checked (Y/N)	<u>Yes</u>
Grass Mowed (Y/N)	<u>No</u>	Outfall Condition OK? (Y/N)	<u>Yes</u>
Monitoring Wells OK? (Y/N)	<u>Yes</u>	Samples Collected (Y/N)	<u>No</u>
Notes:			
System Reset: 1355			
System Restart: 1355			
System Check: 1400			
Building Check: 1415			
Outfall Check: 1415			

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 1/21/2019
Inspector L. Whalen
Time 12:55

Treatment System Operation

System On (Y/N)	Yes
RW-1 On (Y/N)	Yes
RW-2 On (Y/N)	Yes
Blower On (Y/N)	Yes
Sump Pump On (Y/N)	No

Alarms

A/C Fail (Y/N)	No
RW-1 (Y/N)	Yes
RW-2 (Y/N)	No
Blower Pressure (Y/N)	No
Sump Level (Y/N)	No

Recovery Wells

	RW-1	RW-2
Flow Rate (GPM)	0	22.7
Total Flow (Gallons)	Not Reported	Not Reported
Water Level (Feet Above Probe)	30.67	55.72
Probe Depth (Feet BTOC)	40.00	65.00

Air Stripper

Blower VFD Setting (Hertz)	46	Intake/Exhaust Piping OK? (Y/N)	Yes
System Pressure (inches water)	11.1	Water Leaks (Y/N)	No
Influent/Effluent Piping OK? (Y/N)	Yes	Water Temperature (°F)	48.6°

Heat Exchanger

Heat (On/Off)	On	Building Temperature (°F)	67°
Heat Exchanger Flow (GPM)	2.50	Heat Exchanger Pressure (PSI)	10.2

General Building/Site

Building Condition OK? (Y/N)	Yes	Circuit Breakers Checked (Y/N)	Yes
Grass Mowed (Y/N)	No	Outfall Condition OK? (Y/N)	Yes
Monitoring Wells OK? (Y/N)	Yes	Samples Collected (Y/N)	Yes

Notes:

Sampled: RW-1	-	1230
RW-1-MS	-	1230
RW-1-MSD	-	1230

RW-2	-	1240
EFF 46 HZ	-	1245

Site walk and well inspection: 1315

System inspection: 1255

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 2/11/2019
Inspector L. Whalen
Time 11:00

Treatment System Operation

System On (Y/N)	Yes
RW-1 On (Y/N)	Yes
RW-2 On (Y/N)	Yes
Blower On (Y/N)	Yes
Sump Pump On (Y/N)	No

Alarms

A/C Fail (Y/N)	No
RW-1 (Y/N)	Yes
RW-2 (Y/N)	No
Blower Pressure (Y/N)	No
Sump Level (Y/N)	No

Recovery Wells**RW-1****RW-2**

Flow Rate (GPM)	0
Total Flow (Gallons)	Not Reported
Water Level (Feet Above Probe)	32.11
Probe Depth (Feet BTOC)	40.00

Flow Rate (GPM)	22.7
Total Flow (Gallons)	Not Reported
Water Level (Feet Above Probe)	56.55
Probe Depth (Feet BTOC)	65.00

Air Stripper

Blower VFD Setting (Hertz)	46
System Pressure (inches water)	10.8
Influent/Effluent Piping OK? (Y/N)	Yes

Intake/Exhaust Piping OK? (Y/N)	Yes
Water Leaks (Y/N)	No
Water Temperature (°F)	58°

Heat Exchanger

Heat (On/Off)	Off
Heat Exchanger Flow (GPM)	0.00

Building Temperature (°F)	69°
Heat Exchanger Pressure (PSI)	1.3

General Building/Site

Building Condition OK? (Y/N)	Yes
Grass Mowed (Y/N)	NA
Monitoring Wells OK? (Y/N)	Yes

Circuit Breakers Checked (Y/N)	Yes
Outfall Condition OK? (Y/N)	Yes
Samples Collected (Y/N)	Yes

Notes:

System Restart: 1000

Samples Collected	RW-1 (MS/MSD) - 1120
	RW-2 - 1130
	EFF 46 HZ - 1135

Replaced RW-1 flow meter with new one. RW-1 still trips into alarm (no readings) Arcadis employees will look into PLC problems.

Building cleaned and tools picked up.

Turned down ceiling heater a quarter turn.

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 2/15/2019
Inspector J. Wyckoff/L. Whalen
Time 11:30

Treatment System Operation

System On (Y/N)	<u>Yes</u>
RW-1 On (Y/N)	<u>Yes</u>
RW-2 On (Y/N)	<u>Yes</u>
Blower On (Y/N)	<u>Yes</u>
Sump Pump On (Y/N)	<u>No</u>

Alarms

A/C Fail (Y/N)	<u>No</u>
RW-1 (Y/N)	<u>No</u>
RW-2 (Y/N)	<u>No</u>
Blower Pressure (Y/N)	<u>No</u>
Sump Level (Y/N)	<u>No</u>

Recovery Wells

RW-1

RW-2

Flow Rate (GPM)	<u>17</u>	<u>22.2</u>
Total Flow (Gallons)	<u>Not Reported</u>	<u>Not Reported</u>
Water Level (Feet Above Probe)	<u>30.53</u>	<u>55.64</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>Yes</u>
System Pressure (inches water)	<u>10.2</u>	Water Leaks (Y/N)	<u>No</u>
Influent/Effluent Piping OK? (Y/N)	<u>Yes</u>	Water Temperature (°F)	<u>50.1°</u>

Heat Exchanger

Heat (On/Off)	<u>Off</u>	Building Temperature (°F)	<u>68°</u>
Heat Exchanger Flow (GPM)	<u>Off</u>	Heat Exchanger Pressure (PSI)	<u>Off</u>

General Building/Site

Building Condition OK? (Y/N)	<u>Yes</u>	Circuit Breakers Checked (Y/N)	<u>Yes</u>
Grass Mowed (Y/N)	<u>NA</u>	Outfall Condition OK? (Y/N)	<u>Yes</u>
Monitoring Wells OK? (Y/N)	<u>Yes</u>	Samples Collected (Y/N)	<u>No</u>

Notes:

Blower Motor Greased: 0800

PLC Reset for new RW-1 Flow Meter: 0800

RW-2 Flow Test: 0900

RW-1 Flow Test: 0930

PLC Calibration for RW-1 Flow Meter: 1000

System Restart: 1030

Heat Exchanger heat pump not working; needs new motor as dead mouse in fan cooked the motor.

Heat Exchanger temporarily turned off and ceiling heater turned on.

System Check: 1130

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 3/14/2019
Inspector J. Wyckoff/L. Whalen
Time 11:31

Treatment System Operation

System On (Y/N)	<u>Yes</u>
RW-1 On (Y/N)	<u>Yes</u>
RW-2 On (Y/N)	<u>Yes</u>
Blower On (Y/N)	<u>Yes</u>
Sump Pump On (Y/N)	<u>No</u>

Alarms

A/C Fail (Y/N)	<u>No</u>
RW-1 (Y/N)	<u>No</u>
RW-2 (Y/N)	<u>No</u>
Blower Pressure (Y/N)	<u>No</u>
Sump Level (Y/N)	<u>No</u>

Recovery Wells

RW-1

RW-2

Flow Rate (GPM)	<u>16.8</u>
Total Flow (Gallons)	<u>Not Reported</u>
Water Level (Feet Above Probe)	<u>30.11</u>
Probe Depth (Feet BTOC)	<u>40.00</u>

	<u>22.2</u>
	<u>Not Reported</u>
	<u>54.79</u>
	<u>65.00</u>

Air Stripper

Blower VFD Setting (Hertz)	<u>46</u>
System Pressure (inches water)	<u>10.4</u>
Influent/Effluent Piping OK? (Y/N)	<u>Yes</u>

Intake/Exhaust Piping OK? (Y/N)	<u>Yes</u>
Water Leaks (Y/N)	<u>No</u>
Water Temperature (°F)	<u>50°</u>

Heat Exchanger

Heat (On/Off)	<u>On</u>
Heat Exchanger Flow (GPM)	<u>2.45</u>

Building Temperature (°F)	<u>60.2°</u>
Heat Exchanger Pressure (PSI)	<u>10.4</u>

General Building/Site

Building Condition OK? (Y/N)	<u>Yes</u>
Grass Mowed (Y/N)	<u>No</u>
Monitoring Wells OK? (Y/N)	<u>Yes</u>

Circuit Breakers Checked (Y/N)	<u>Yes</u>
Outfall Condition OK? (Y/N)	<u>Yes</u>
Samples Collected (Y/N)	<u>No</u>

Notes:

Replaced blower motor fan in heater.

Installed new filter in fan unit.

Installed new 5 lb. ABC Fire Extinguisher.

System Check: 0900

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 3/26/2019
Inspector J. Mullins/A. Thomas
Time 10:20

Treatment System Operation

System On (Y/N)	<u>Yes</u>
RW-1 On (Y/N)	<u>Yes</u>
RW-2 On (Y/N)	<u>Yes</u>
Blower On (Y/N)	<u>Yes</u>
Sump Pump On (Y/N)	<u>No</u>

Alarms

A/C Fail (Y/N)	<u>No</u>
RW-1 (Y/N)	<u>No</u>
RW-2 (Y/N)	<u>No</u>
Blower Pressure (Y/N)	<u>No</u>
Sump Level (Y/N)	<u>No</u>

Recovery Wells**RW-1****RW-2**

Flow Rate (GPM)	<u>17.1</u>
Total Flow (Gallons)	<u>Not Reported</u>
Water Level (Feet Above Probe)	<u>31.38</u>
Probe Depth (Feet BTOC)	<u>40.00</u>

	<u>22.2</u>
	<u>Not Reported</u>
	<u>56.00</u>
	<u>65.00</u>

Air Stripper

Blower VFD Setting (Hertz)	<u>46</u>
System Pressure (inches water)	<u>10.7</u>
Influent/Effluent Piping OK? (Y/N)	<u>Yes</u>

Intake/Exhaust Piping OK? (Y/N)	<u>Yes</u>
Water Leaks (Y/N)	<u>No</u>
Water Temperature (°F)	<u>50°</u>

Heat Exchanger

Heat (On/Off)	<u>Off</u>
Heat Exchanger Flow (GPM)	<u>0.00</u>

Building Temperature (°F)	<u>63.2°</u>
Heat Exchanger Pressure (PSI)	<u>1.2</u>

General Building/Site

Building Condition OK? (Y/N)	<u>Yes</u>
Grass Mowed (Y/N)	<u>No</u>
Monitoring Wells OK? (Y/N)	<u>Yes</u>

Circuit Breakers Checked (Y/N)	<u>Yes</u>
Outfall Condition OK? (Y/N)	<u>Yes</u>
Samples Collected (Y/N)	<u>Yes</u>

Notes:

Samples Collected	RW-1	- 1035
	RW-1-MS	- 1035
	RW-1-MSD	- 1035
	RW-2	- 1045
	EFF 46 HZ	- 1050

Site walk and well inspection: All wells in good condition

System inspection: No issues

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 3/26/2019
Inspector L. Whalen
Time 1:40

Treatment System Operation

System On (Y/N) Yes
RW-1 On (Y/N) Yes
RW-2 On (Y/N) Yes
Blower On (Y/N) Yes
Sump Pump On (Y/N) No

Alarms

A/C Fail (Y/N) No
RW-1 (Y/N) No
RW-2 (Y/N) No
Blower Pressure (Y/N) No
Sump Level (Y/N) No

Recovery Wells

RW-1

RW-2

Flow Rate (GPM) 17.7
Total Flow (Gallons) Not Reported
Water Level (Feet Above Probe) 32.39
Probe Depth (Feet BTOC) 40.00

22.3
Not Reported
57.41
65.00

Air Stripper

Blower VFD Setting (Hertz) 46
System Pressure (inches water) 10.4
Influent/Effluent Piping OK? (Y/N) Yes

Intake/Exhaust Piping OK? (Y/N) Yes
Water Leaks (Y/N) No
Water Temperature (°F) 53°

Heat Exchanger

Heat (On/Off) Off
Heat Exchanger Flow (GPM) NA

Building Temperature (°F) 71°
Heat Exchanger Pressure (PSI) 1.3

General Building/Site

Building Condition OK? (Y/N) Yes
Grass Mowed (Y/N) No
Monitoring Wells OK? (Y/N) Yes

Circuit Breakers Checked (Y/N) Yes
Outfall Condition OK? (Y/N) Yes
Samples Collected (Y/N) No

Notes:

System Restart: 1325

System Check: 1340

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 4/7/2019
Inspector L. Whalen
Time 1345

Treatment System Operation

System On (Y/N) Yes
RW-1 On (Y/N) Yes
RW-2 On (Y/N) Yes
Blower On (Y/N) Yes
Sump Pump On (Y/N) No

Alarms

A/C Fail (Y/N) No
RW-1 (Y/N) No
RW-2 (Y/N) No
Blower Pressure (Y/N) No
Sump Level (Y/N) No

Recovery Wells

RW-1

RW-2

Flow Rate (GPM) 17.3 21.2
Total Flow (Gallons) Not Reported Not Reported
Water Level (Feet Above Probe) 31.71 56.06
Probe Depth (Feet BTOC) 40.00 65.00

Air Stripper

Blower VFD Setting (Hertz) 46 Intake/Exhaust Piping OK? (Y/N) Yes
System Pressure (inches water) 10.1 Water Leaks (Y/N) No
Influent/Effluent Piping OK? (Y/N) Yes Water Temperature (°F) 58°

Heat Exchanger

Heat (On/Off) Off Building Temperature (°F) 78°
Heat Exchanger Flow (GPM) 0.0 Heat Exchanger Pressure (PSI) 1.5

General Building/Site

Building Condition OK? (Y/N) Yes Circuit Breakers Checked (Y/N) Yes
Grass Mowed (Y/N) No Outfall Condition OK? (Y/N) Yes
Monitoring Wells OK? (Y/N) Yes Samples Collected (Y/N) No

Notes:

System Restart: 1345

System Check: 1405

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 4/29/2019
Inspector L. Whalen
Time 0650

Treatment System Operation

System On (Y/N)	Yes
RW-1 On (Y/N)	Yes
RW-2 On (Y/N)	Yes
Blower On (Y/N)	Yes
Sump Pump On (Y/N)	No

Alarms

A/C Fail (Y/N)	No
RW-1 (Y/N)	No
RW-2 (Y/N)	No
Blower Pressure (Y/N)	No
Sump Level (Y/N)	No

Recovery Wells

RW-1

Flow Rate (GPM)	17.2
Total Flow (Gallons)	Not Reported
Water Level (Feet Above Probe)	31.06
Probe Depth (Feet BTOC)	40.00

RW-2

Flow Rate (GPM)	21.6
Total Flow (Gallons)	Not Reported
Water Level (Feet Above Probe)	55.89
Probe Depth (Feet BTOC)	65.00

Air Stripper

Blower VFD Setting (Hertz)	46	Intake/Exhaust Piping OK? (Y/N)	Yes
System Pressure (inches water)	10.9	Water Leaks (Y/N)	No
Influent/Effluent Piping OK? (Y/N)	Yes	Water Temperature (°F)	44°

Heat Exchanger

Heat (On/Off)	Off	Building Temperature (°F)	60°
Heat Exchanger Flow (GPM)	0.0	Heat Exchanger Pressure (PSI)	1.5

General Building/Site

Building Condition OK? (Y/N)	Yes	Circuit Breakers Checked (Y/N)	Yes
Grass Mowed (Y/N)	No	Outfall Condition OK? (Y/N)	Yes
Monitoring Wells OK? (Y/N)	Yes	Samples Collected (Y/N)	Yes

Notes:

System Restart: 0600

Collected Samples: RW-1 (MS/MSD) - 0620

RW-2 - 0630

EFF 46 - HZ - 0635

System Check: 1340

Building Check: 0700 Turned wall heater back up a little. 25° out- will check again next week

Date	5/20/2019
Inspector	L. Whalen
Time	1030

Date	6/21/2019
Inspector	L. Whalen
Time	0900

Alarms

A/C Fail (Y/N)	No
RW-1 (Y/N)	No
RW-2 (Y/N)	No
Blower Pressure (Y/N)	No
Sump Level (Y/N)	No

RW-2

21.7
<u>Not Reported</u>
56.42
<u>65.00</u>

Blower VFD Setting (Hertz)	46	Intake/Exhaust Piping OK? (Y/N)	Yes
System Pressure (inches water)	10.1	Water Leaks (Y/N)	No
Influent/Effluent Piping OK? (Y/N)	Yes	Water Temperature (°F)	58°

Heat (On/Off)	Off	Building Temperature (°F)	62.1°
Heat Exchanger Flow (GPM)	0.0	Heat Exchanger Pressure (PSI)	0.0

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

Building/ System Check: 0645
Samples Collected: RW-1 (MS/MSD) - 0710
RW-2 - 0720
EFF-46 HZ - 0725
Grass mowed: 0745
System Check: 0850

Gladding Cordage		Date 7/26/2019	
South Otselic, New York		Inspector L. Whalen	
NYSDEC Site #709009		Time	
Treatment System Operation		Alarms	
System On (Y/N)	<u>Yes</u>	A/C Fail (Y/N)	<u>No</u>
RW-1 On (Y/N)	<u>Yes</u>	RW-1 (Y/N)	<u>No</u>
RW-2 On (Y/N)	<u>Yes</u>	RW-2 (Y/N)	<u>No</u>
Blower On (Y/N)	<u>Yes</u>	Blower Pressure (Y/N)	<u>No</u>
Sump Pump On (Y/N)	<u>No</u>	Sump Level (Y/N)	<u>Y</u>
Recovery Wells		RW-1	RW-2
Flow Rate (GPM)	<u>16.9</u>	<u>21.8</u>	
Total Flow (Gallons)	<u>Not Reported</u>	<u>Not Reported</u>	
Water Level (Feet Above Probe)	<u>29.12</u>	<u>54.16</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>Yes</u>
System Pressure (inches water)	<u>10.5</u>	Water Leaks (Y/N)	<u>No</u>
Influent/Effluent Piping OK? (Y/N)	<u>Yes</u>	Water Temperature (°F)	<u>59°</u>
Heat Exchanger			
Heat (On/Off)	<u>On</u>	Building Temperature (°F)	<u>69°</u>
Heat Exchanger Flow (GPM)	<u>2.41</u>	Heat Exchanger Pressure (PSI)	<u>10.7</u>
General Building/Site			
Building Condition OK? (Y/N)	<u>Yes</u>	Circuit Breakers Checked (Y/N)	<u>Yes</u>
Grass Mowed (Y/N)	<u>Yes</u>	Outfall Condition OK? (Y/N)	<u>Yes</u>
Monitoring Wells OK? (Y/N)	<u>Yes</u>	Samples Collected (Y/N)	<u>Yes</u>
Notes:			
Samples Collected: RW-1 (MS/MSD) - 0710			
RW-2 - 0720			
EFF-46 HZ - 0725			
Grass mowed: 0730 to 0830			
HVAC System Install - 1120 (working)			
Sump pump is broken (Jeremy is going to order a new one.)			

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 8/15/2019
Inspector L. Whalen
Time 1045

Treatment System Operation

System On (Y/N)	<u>Yes</u>
RW-1 On (Y/N)	<u>Yes</u>
RW-2 On (Y/N)	<u>Yes</u>
Blower On (Y/N)	<u>Yes</u>
Sump Pump On (Y/N)	<u>No</u>

Alarms

A/C Fail (Y/N)	<u>No</u>
RW-1 (Y/N)	<u>No</u>
RW-2 (Y/N)	<u>No</u>
Blower Pressure (Y/N)	<u>No</u>
Sump Level (Y/N)	<u>Yes</u>

Recovery Wells**RW-1****RW-2**

Flow Rate (GPM)	<u>16.8</u>	<u>21.7</u>
Total Flow (Gallons)	<u>Not Reported</u>	<u>Not Reported</u>
Water Level (Feet Above Probe)	<u>28.79</u>	<u>54.03</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>Yes</u>
System Pressure (inches water)	<u>9.9</u>	Water Leaks (Y/N)	<u>No</u>
Influent/Effluent Piping OK? (Y/N)	<u>Yes</u>	Water Temperature (°F)	<u>59°</u>

Heat Exchanger

Heat (On/Off)	<u>On</u>	Building Temperature (°F)	<u>67°</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>Yes</u>	Circuit Breakers Checked (Y/N)	<u>Yes</u>
Grass Mowed (Y/N)	<u>Yes</u>	Outfall Condition OK? (Y/N)	<u>Yes</u>
Monitoring Wells OK? (Y/N)	<u>Yes</u>	Samples Collected (Y/N)	<u>Yes</u>

Notes:

Building/ System Check: 0745

Samples Collected: RW-1 (MS/MSD) - 0830

RW-2 - 0840

EFF-46 HZ - 0850

New Sump Pump install - 0915

Grass mowed: 1000

System Check: 1045

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 9/26/2019
Inspector J. Mullins
Time 0925

Treatment System Operation

System On (Y/N)	No
RW-1 On (Y/N)	No
RW-2 On (Y/N)	No
Blower On (Y/N)	No
Sump Pump On (Y/N)	No

Alarms

A/C Fail (Y/N)	No
RW-1 (Y/N)	No
RW-2 (Y/N)	No
Blower Pressure (Y/N)	No
Sump Level (Y/N)	No

Recovery Wells**RW-1****RW-2**

Flow Rate (GPM)	17.1	23.5
Total Flow (Gallons)	Not Reported	Not Reported
Water Level (Feet Above Probe)	28.03	53.89
Probe Depth (Feet BTOC)	40.00	65.00

Air Stripper

Blower VFD Setting (Hertz)	46	Intake/Exhaust Piping OK? (Y/N)	Yes
System Pressure (inches water)	10.0	Water Leaks (Y/N)	No
Influent/Effluent Piping OK? (Y/N)	Yes	Water Temperature (°F)	59°

Heat Exchanger

Heat (On/Off)	Off	Building Temperature (°F)	61.6°
Heat Exchanger Flow (GPM)	0.0	Heat Exchanger Pressure (PSI)	1.2

General Building/Site

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

Notes:

Building/ System Check: 0920

Samples Collected: RW-1 (MS/MSD) - 0950

RW-2 - 1000

EFF-46 HZ - 1005

DUP-1 (EFF46) - 0000

System offline on arrival; emerging compounds sampling also performed (See COC).

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 10/25/2019
Inspector L. Whalen
Time 0900

Treatment System Operation

System On (Y/N)	Yes
RW-1 On (Y/N)	Yes
RW-2 On (Y/N)	Yes
Blower On (Y/N)	Yes
Sump Pump On (Y/N)	No

Alarms

A/C Fail (Y/N)	No
RW-1 (Y/N)	No
RW-2 (Y/N)	No
Blower Pressure (Y/N)	No
Sump Level (Y/N)	No

Recovery Wells

RW-1

RW-2

Flow Rate (GPM)	16.8	22.2
Total Flow (Gallons)	Not Reported	Not Reported
Water Level (Feet Above Probe)	30.27	55.22
Probe Depth (Feet BTOC)	40.00	65.00

Air Stripper

Blower VFD Setting (Hertz)	46	Intake/Exhaust Piping OK? (Y/N)	Yes
System Pressure (inches water)	10.9	Water Leaks (Y/N)	No
Influent/Effluent Piping OK? (Y/N)	Yes	Water Temperature (°F)	59°

Heat Exchanger

Heat (On/Off)	Off	Building Temperature (°F)	63°
Heat Exchanger Flow (GPM)	12.4	Heat Exchanger Pressure (PSI)	11.1

General Building/Site

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

Notes:

Samples Collected:	RW-1 (MS/MSD):	0730
	RW-2:	0745
	EFF-46 Hz:	0800

Grass Mowed around building: 0830

System Check: 0900

Heat turned on (Main Unit) Set at 68°

Corner heater turned on low

Replaced batteries in HVAC Temp. gauge

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 11/1/2019
Inspector L. Whalen
Time 1100

Treatment System Operation

System On (Y/N) Yes
RW-1 On (Y/N) Yes
RW-2 On (Y/N) Yes
Blower On (Y/N) Yes
Sump Pump On (Y/N) No

Alarms

A/C Fail (Y/N) No
RW-1 (Y/N) No
RW-2 (Y/N) No
Blower Pressure (Y/N) No
Sump Level (Y/N) No

Recovery Wells

RW-1

RW-2

Flow Rate (GPM) 17.6 22.7
Total Flow (Gallons) Not Reported Not Reported
Water Level (Feet Above Probe) 34.00 59.50
Probe Depth (Feet BTOC) 40.00 65.00

Air Stripper

Blower VFD Setting (Hertz) 46.0 Intake/Exhaust Piping OK? (Y/N) Yes
System Pressure (inches water) 10.4 Water Leaks (Y/N) No
Influent/Effluent Piping OK? (Y/N) Yes Water Temperature (°F) 56.1°

Heat Exchanger

Heat (On/Off) On Building Temperature (°F) 58°
Heat Exchanger Flow (GPM) 2.4 Heat Exchanger Pressure (PSI) 11.3

General Building/Site

Building Condition OK? (Y/N) Yes Circuit Breakers Checked (Y/N) Yes
Grass Mowed (Y/N) No Outfall Condition OK? (Y/N) Yes
Monitoring Wells OK? (Y/N) Yes Samples Collected (Y/N) No

Notes:

System Restart: 1045

System Check: 1100

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 11/8/2019
Inspector L. Whalen
Time 1000

Treatment System Operation

System On (Y/N)	Yes
RW-1 On (Y/N)	Yes
RW-2 On (Y/N)	Yes
Blower On (Y/N)	Yes
Sump Pump On (Y/N)	No

Alarms

A/C Fail (Y/N)	No
RW-1 (Y/N)	No
RW-2 (Y/N)	No
Blower Pressure (Y/N)	No
Sump Level (Y/N)	No

Recovery Wells

RW-1

RW-2

Flow Rate (GPM)	16.7	22.5
Total Flow (Gallons)	Not Reported	Not Reported
Water Level (Feet Above Probe)	30.55	55.70
Probe Depth (Feet BTOC)	40.00	65.00

Air Stripper

Blower VFD Setting (Hertz)	46.0	Intake/Exhaust Piping OK? (Y/N)	Yes
System Pressure (inches water)	10.7	Water Leaks (Y/N)	No
Influent/Effluent Piping OK? (Y/N)	Yes	Water Temperature (°F)	58°

Heat Exchanger

Heat (On/Off)	On	Building Temperature (°F)	68°
Heat Exchanger Flow (GPM)	2.45	Heat Exchanger Pressure (PSI)	11.1

General Building/Site

Building Condition OK? (Y/N)	Yes	Circuit Breakers Checked (Y/N)	Yes
Grass Mowed (Y/N)	No	Outfall Condition OK? (Y/N)	Yes
Monitoring Wells OK? (Y/N)	Yes	Samples Collected (Y/N)	No

Notes:

System Startup: 0915

System Check: 1000

Cut old telephone pole out

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 11/22/2019
Inspector L. Whalen
Time 0930

Treatment System Operation

System On (Y/N) Yes
RW-1 On (Y/N) Yes
RW-2 On (Y/N) Yes
Blower On (Y/N) Yes
Sump Pump On (Y/N) No

Alarms

A/C Fail (Y/N) No
RW-1 (Y/N) No
RW-2 (Y/N) No
Blower Pressure (Y/N) No
Sump Level (Y/N) No

Recovery Wells

RW-1

RW-2

Flow Rate (GPM) 16.0 22.4
Total Flow (Gallons) Not Reported Not Reported
Water Level (Feet Above Probe) 29.46 54.60
Probe Depth (Feet BTOC) 40.00 65.00

Air Stripper

Blower VFD Setting (Hertz) 46.0 Intake/Exhaust Piping OK? (Y/N) Yes
System Pressure (inches water) 10.3 Water Leaks (Y/N) No
Influent/Effluent Piping OK? (Y/N) Yes Water Temperature (°F) 59°

Heat Exchanger

Heat (On/Off) On Building Temperature (°F) 70°
Heat Exchanger Flow (GPM) 0.0 Heat Exchanger Pressure (PSI) 1.5

General Building/Site

Building Condition OK? (Y/N) Yes Circuit Breakers Checked (Y/N) Yes
Grass Mowed (Y/N) No Outfall Condition OK? (Y/N) Yes
Monitoring Wells OK? (Y/N) Yes Samples Collected (Y/N) Yes

Notes:

Samples Collected: RW-1 (MS/MSD): 0840
RW-2: 0850
EFF 46-Hz: 0900

System Check: 0930

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 12/1/2019
Inspector L. Whalen
Time 1050

Treatment System Operation

System On (Y/N) Yes
RW-1 On (Y/N) Yes
RW-2 On (Y/N) Yes
Blower On (Y/N) Yes
Sump Pump On (Y/N) No

Alarms

A/C Fail (Y/N) No
RW-1 (Y/N) No
RW-2 (Y/N) No
Blower Pressure (Y/N) No
Sump Level (Y/N) No

Recovery Wells

RW-1

RW-2

Flow Rate (GPM) 16.1 20.2
Total Flow (Gallons) Not Reported Not Reported
Water Level (Feet Above Probe) 29.88 55.09
Probe Depth (Feet BTOC) 40.00 65.00

Air Stripper

Blower VFD Setting (Hertz) 46.0 Intake/Exhaust Piping OK? (Y/N) Yes
System Pressure (inches water) 10.1 Water Leaks (Y/N) No
Influent/Effluent Piping OK? (Y/N) Yes Water Temperature (°F) 49°

Heat Exchanger

Heat (On/Off) On Building Temperature (°F) 68°
Heat Exchanger Flow (GPM) 1.14 Heat Exchanger Pressure (PSI) 4.8

General Building/Site

Building Condition OK? (Y/N) Yes Circuit Breakers Checked (Y/N) Yes
Grass Mowed (Y/N) No Outfall Condition OK? (Y/N) Yes
Monitoring Wells OK? (Y/N) Yes Samples Collected (Y/N) No

Notes:

System Restart: 1040

System Check: 1050

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 12/12/2019
Inspector L. Whalen
Time 0930

Treatment System Operation

System On (Y/N) Yes
RW-1 On (Y/N) Yes
RW-2 On (Y/N) Yes
Blower On (Y/N) Yes
Sump Pump On (Y/N) No

Alarms

A/C Fail (Y/N) No
RW-1 (Y/N) No
RW-2 (Y/N) No
Blower Pressure (Y/N) No
Sump Level (Y/N) No

Recovery Wells

RW-1

RW-2

Flow Rate (GPM) 16.1 22.5
Total Flow (Gallons) Not Reported Not Reported
Water Level (Feet Above Probe) 31.66 56.12
Probe Depth (Feet BTOC) 40.00 65.00

Air Stripper

Blower VFD Setting (Hertz) 46.0 Intake/Exhaust Piping OK? (Y/N) Yes
System Pressure (inches water) 11.1 Water Leaks (Y/N) No
Influent/Effluent Piping OK? (Y/N) Yes Water Temperature (°F) 48°

Heat Exchanger

Heat (On/Off) Off Building Temperature (°F) 70°
Heat Exchanger Flow (GPM) 0.0 Heat Exchanger Pressure (PSI) 1.5

General Building/Site

Building Condition OK? (Y/N) Yes Circuit Breakers Checked (Y/N) Yes
Grass Mowed (Y/N) No Outfall Condition OK? (Y/N) Yes
Monitoring Wells OK? (Y/N) Yes Samples Collected (Y/N) Yes

Notes:

Site Walk: 0830

Samples Collected: RW-1 (MS/MSD): 900
RW-2: 910
EFF 46 Hz: 915

System Inspection: 0930

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 1-13-20
Inspector L. Whalen
Time 0710

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

	RW-1	RW-2
Flow Rate (GPM)	<u>16.7</u>	<u>22.5</u>
Total Flow (Gallons)		
Water Level (Feet Above Probe)	<u>31.88</u>	<u>56.12</u>
Probe Depth (Feet BTOC)	<u>40.00</u>	<u>65.00</u>

Air Stripper

Blower VFD Setting (Hertz)	<u>46.0</u>	Intake/Exhaust Piping OK? (Y/N)	<u>Y</u>
System Pressure (inches water)	<u>10.7</u>	Water Leaks (Y/N)	<u>N</u>
Influent/Effluent Piping OK? (Y/N)	<u>Y</u>	Water Temperature (F°)	<u>48°</u>

Heat Exchanger

Heat (On/Off)	<u>OFF</u>	Building Temperature (F)	<u>70°</u>
Heat Exchanger Flow (GPM)	<u>0.0</u>	Heat Exchanger Pressure (PSI)	<u>1.5</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>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:

Samples collected RW-1 m/mso - 0630
RW-2 - 0640
EFF 46 HZ - 0650

System Inspection - 0710

Exit light install - 1300

Well/Field check - 1400

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 2-6-20
Inspector L. Whalen
Time 0930

Treatment System Operation		Alarms	
System On (Y/N)	<u>Y</u>	A/C Fail (Y/N)	<u>N</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>

Recovery Wells	RW-1	RW-2
Flow Rate (GPM)	<u>16.0</u>	<u>21.3</u>
Total Flow (Gallons)		
Water Level (Feet Above Probe)	<u>29.67</u>	<u>54.60</u>
Probe Depth (Feet BTOC)	<u>40.00</u>	<u>65.00</u>

Air Stripper	
Blower VFD Setting (Hertz)	<u>46.0</u>
System Pressure (inches water)	<u>10.6</u>
Influent/Effluent Piping OK? (Y/N)	<u>Y</u>
Intake/Exhaust Piping OK? (Y/N)	<u>Y</u>
Water Leaks (Y/N)	<u>N</u>
Water Temperature (F°)	<u>48°</u>

Heat Exchanger	
Heat (On/Off)	<u>OFF</u>
Heat Exchanger Flow (GPM)	<u>0.0</u>
Building Temperature (F)	<u>70°</u>
Heat Exchanger Pressure (PSI)	<u>1.5</u>

General Building/Site	
Building Condition OK? (Y/N)	<u>Y</u>
Grass Mowed (Y/N)	<u>N</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:

Well Inspection 0800

Samples Collected RW-1 (ms/msd) - 0840
RW-2 - 0850
EFF 46 HZ - 0855

System Check 0930

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 03/12/20
Inspector BH
Time 1000

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

RW-1

RW-2

Flow Rate (GPM) - Total Flow 71637850
Total Flow (Gallons) Flow rate 4.5 15.9
Water Level (Feet Above Probe) 31.82
Probe Depth (Feet BTOC) ~~28.00~~ 47.5

77686811
4.5 21.4
56.48
~~52.00~~ 48.25

See attached
system diagrams

Air Stripper

Blower VFD Setting (Hertz)	<u>46.0</u>
System Pressure (inches water)	<u>10</u>
Influent/Effluent Piping OK? (Y/N)	<u>Y</u>

Intake/Exhaust Piping OK? (Y/N)	<u>Y</u>
Water Leaks (Y/N)	<u>N</u>
Water Temperature (°F)	<u>50°F</u>

Heat Exchanger

Heat (On/Off)	<u>On</u>
Heat Exchanger Flow (GPM)	

Building Temperature (°F)	<u>70°F</u>
Heat Exchanger Pressure (PSI)	<u>1.6</u>

General Building/Site

Building Condition OK? (Y/N)	<u>Y</u>
Grass Mowed (Y/N)	<u>N/A</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:

Sampled: RW-1 - 1040
RW-1-MS - 1045
RW-1-MSD - 1050

RW-2 - 1055
EFF 46 HZ - 1035

Site walk and well inspection:

System inspection:

Gladding Cordage
South Otselic, New York
NYSDEC Site #709009

Date 4-15-20

Inspector BIT

Time 1700

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

RW-1

Flow Rate (GPM) 14.9
Total Flow (Gallons) 72267611
Water Level (Feet Above Probe) 30.07 W1-LVL
Probe Depth (Feet BTOC) ?

RW-2

20.2
78543035
55.52 W2-LVL
?

Air Stripper

Blower VFD Setting (Hertz) 460
System Pressure (inches water) 10
Influent/Effluent Piping OK? (Y/N) Y

Intake/Exhaust Piping OK? (Y/N) Y
Water Leaks (Y/N) N
Water Temperature (°F) 50

Heat Exchanger

Heat (On/Off) On
Heat Exchanger Flow (GPM) ?

Building Temperature (°F) 70
Heat Exchanger Pressure (PSI) 1.5

General Building/Site

Building Condition OK? (Y/N) Y
Grass Mowed (Y/N) Y
Monitoring Wells OK? (Y/N) Y

Circuit Breakers Checked (Y/N) Y
Outfall Condition OK? (Y/N) Y
Samples Collected (Y/N) Y

Notes:

Sampled: RW-1 - 1730
RW-1-MS - 1735
RW-1-MSD - 1740

RW-2 - 1745
EFF 46 HZ - 1750

Site walk and well inspection: All OK

System inspection: All OK, need grease gun & grease for blower

APPENDIX B

Site Photolog



Project Photographs

Gladding Cordage – NYSDEC Site No. 7-09-009
Appendix B



Photo: 1

Date:
10/25/2017

Description:
Monitoring well TW-1

Location:
East of Gladding Cordage
building



Photo: 2

Date:
10/25/2017

Description:
TW-2 monitoring well
cluster

Location:
East of Gladding Cordage
building

Project Photographs

Gladding Cordage – NYSDEC Site No. 7-09-009
Appendix B



Photo: 3

Date:
10/25/2017

Description:
TW-3 monitoring well
cluster

Location:
Southeast of Gladding
Cordage building



Photo: 4

Date:
10/25/2017

Description:
Monitoring well TW-4I

Location:
Corner of Route 13 and
roadway

Project Photographs

Gladding Cordage – NYSDEC Site No. 7-09-009
Appendix B



Photo: 5

Date:
10/25/2017

Description:
TW-5 monitoring well
cluster

Location:
Behind church and South of
Gladding Cordage building



Photo: 6

Date:
10/25/2017

Description:
Monitoring well TW-6S

Location:
West of House 129

Project Photographs

Gladding Cordage – NYSDEC Site No. 7-09-009
Appendix B



Photo: 7

Date:
10/25/2017

Description:
Monitoring well TW-6I

Location:
East of Town Hall



Photo: 8

Date:
10/25/2017

Description:
Monitoring well TW-6D

Location:
Between TW-6S and TW-6I

Project Photographs

Gladding Cordage – NYSDEC Site No. 7-09-009
Appendix B



Photo: 9

Date:
10/25/2017

Description:
TW-7 monitoring well
cluster

Location:
West of Gladding Cordage
building



Photo: 10

Date:
10/25/2017

Description:
Monitoring well TW-9I

Location:
On Maple Avenue and
behind church

Project Photographs

Gladding Cordage – NYSDEC Site No. 7-09-009
Appendix B



Photo: 11

Date:
10/25/2017

Description:
Monitoring well TW-9D

Location:
On Maple Avenue and
behind church



Photo: 12

Date:
10/25/2017

Description:
Monitoring well TW-10D

Location:
In Town Park and adjacent
to pavilion

Project Photographs

Gladding Cordage – NYSDEC Site No. 7-09-009
Appendix B



Photo: 13

Date:
10/25/2017

Description:
TW-12 monitoring well
cluster

Location:
West of NYSDEC Fish
Hatchery building



Photo: 14

Date:
10/25/2017

Description:
Monitoring well TW-14S

Location:
Southeast of church in
grassy area

Project Photographs

Gladding Cordage – NYSDEC Site No. 7-09-009
Appendix B



Photo: 15

Date:
10/25/2017

Description:
Monitoring well TW-14I

Location:
Southeast of church in
grassy area



Photo: 16

Date:
10/25/2017

Description:
Monitoring well TW-14D

Location:
Southeast of church in
grassy area

Project Photographs

Gladding Cordage – NYSDEC Site No. 7-09-009
Appendix B



Photo: 17

Date:
10/25/2017

Description:
Monitoring well TW-15

Location:
Adjacent to Treatment
System building

APPENDIX C

IC/EC Certification Form





Enclosure 1
Engineering Controls - Standby Consultant/Contractor Certification Form



Site Details		Box 1	
Site No.	709009		
Site Name 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, 2017 to April 15, 2020			
		YES	NO
1.	Is the information above correct?	☒	☐
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?	☐	☒
3.	To your knowledge has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
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?	☐	☒
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?	☐	☒

		Box 2	
		YES	NO
6.	Is the current site use consistent with the use(s) listed below? Unrestricted, Residential, Restricted-Residential, Commercial, and Industrial	☒	☐
7.	Are all ICs/ECs in place and functioning as designed?	☒	☐
IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and 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

Parcel

Owner

Institutional Control

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

Parcel

Engineering Control

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

Professional Engineer Signature

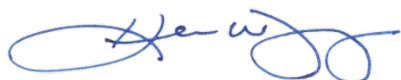
I certify that all information in Boxes 2 through 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Kevin W. Jay at Arcadis of New York, Inc.
print name

855 Route 146, Suite 210

Clifton Park, NY 12065
(print business address)

I am certifying as a Professional Engineer.



Signature of Professional Engineer



Stamp
(Required for PE)

February 10, 2021
Date

Arcadis CE, Inc.

855 Route 146

Suite 210

Clifton Park, New York 12065

Tel 518 250 7300

Fax 518 250 7301

www.arcadis.com

A decorative graphic consisting of three thin orange lines. One line is horizontal, extending from the left edge of the page towards the right. Two other lines are diagonal, starting from the bottom left and extending towards the top right, intersecting the horizontal line.