New York State Department of Environmental Conservation

Periodic Review Report

Fort Edward Landfill Site
Fort Edward, New York
Site Number 558001

September 2024

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CONTENTS

Tables

Figures

Appendices

Acronyms and Abbreviations

Arcadis	Arcadis of New York, Inc.
BODR	Basis of Design Report
BSGV	Bioaccumulation-based Sediment Guidance Value
Cabot	Cabot Corporation
Calgon	Calgon Carbon Corporation
CC	Champlain Canal
CCT	Clarifier Catch Tank
COC	contaminant of concern
CWTS	constructed wetland treatment system
DER-10	DER-10: Technical Guidance for Site Investigation and Remediation
EC	Engineering Control
EW	extraction well
GAC	granular activated carbon
GE	General Electric, Inc.
GFFC	Glens Falls Feeder Canal
gpm	gallons per minute
HRP	HRP Engineering P.C.
IC	Institutional Control
IPC	inclined plate clarifier
IRM	Interim Remedial Measure
J	The concentration is an approximate value.
MW	monitoring well
mg/Kg	milligram per kilogram
mg/L	milligram per liter
ng/L	nanogram per liter
6 NYCRR	Title 6 of the New York Codes, Rules and Regulations
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
O&M	operation and maintenance
OM&M	Operation, Maintenance, and Monitoring

PCB	polychlorinated biphenyl
PFAS	per- and polyfluoroalkyl substances
PFOA	perfluorooctanoic acid
PFOS	perfluorooctane sulfonic acid
PRR	Periodic Review Report
RAO	remedial action objective
RSO	Remedial System Optimization
RSSCT	Rapid Small-Scale Column Testing
SC	site characterization
SCO	Soil Cleanup Objective
SGV	sediment guidance value
Site	Fort Edward Landfill located in Fort Edward, New York
SIM	Selective Ion Monitoring
SMP	Site Management Plan
SPDES	State Pollutant Discharge Elimination System
TDS	total dissolved solids
TMW	temporary monitoring well
TOC	total organic carbon
TSS	total suspended solids
µg/Kg	micrograms per kilogram
µg/L	micrograms per liter
USEPA	United States Environmental Protection Agency
VOC	volatile organic compound

Executive Summary

This Periodic Review Report (PRR) is a required element of the remedial program and the August 2015 Site Management Plan (HRP Engineering P.C. [HRP] 2015a) for the Fort Edward Landfill located in Fort Edward, New York (hereinafter referred to as the "Site") (Figure 1). The Site is currently in the New York State Inactive Hazardous Waste Disposal Site Remedial Program, Site Number 558001, which is administered by the New York State Department of Environmental Conservation (NYSDEC). As the standby consultant, Arcadis of New York, Inc. (Arcadis) is submitting this PRR for the following reporting period: January 1, 2018, through April 1, 2024. Arcadis was assigned the project in August 2016.

The site remediation activities conducted by Arcadis were implemented in conformance with DER-10: Technical Guidance for Site Investigation and Remediation (DER-10) (NYSDEC 2010). This PRR was prepared in accordance with the NYSDEC DER-10.

General Electric, Inc. (GE) historically disposed of approximately 850 tons of polychlorinated biphenyl (PCB)-containing scrap capacitors at the Site. This waste represents approximately 79% of the total hazardous waste identified. As a result of the 1980 "Seven Site Agreement" with the NYSDEC, GE produced a report in 1983 recommending encapsulation of the landfill within a slurry wall and cap; however, operation continued until 1991, and the proposed remedy was not initiated. Due to the extended operation of this landfill and the given problems associated with a similar encapsulation remedy used at the adjacent Kingsbury Landfill (Site Number 558008), the 1983 Remedial Design proposal was modified. The modified remedy included the construction of a low permeable landfill cap, a leachate collection system, and a pre-treatment building with final treatment in three constructed wetland treatment system (CWTS) cells (Cell 1, Cell 2, and Cell 3) and a polishing pond.

Based on remedial and pre-design investigations, it was concluded that landfill-derived contaminants, including PCBs, were migrating from the Site through the pathways of groundwater and leachate seepage to surface water. PCBs have been noted in wells upgradient of the landfill, downgradient of the landfill, and in the footprint of the landfill historically and currently. It was determined that the environmental condition of the Site had been impacted by per- and polyfluoroalkyl substances (PFAS), volatile organic compounds (VOCs), PCBs, and iron from the Site's historical use as a landfill.

As part of the corrective measures process, a series of leachate collection and treatment system upgrades were implemented based on recommendations in a 2015 Remedial System Optimization Report (HRP 2015b). The Remedial System Optimization upgrades were fully operational in April 2017. However, based on system monitoring data, the current remedial measures do not meet all of the Site remedial action objectives.

Beginning in November 2019, Arcadis completed a treatment system evaluation to assess the effectiveness of the treatment system to reduce PFAS, VOCs, PCBs, and metals in treatment plant water prior to discharge to the Glens Falls Feeder Canal. This evaluation included contaminant mass balance evaluations to better understand the processes occurring within the treatment system. Data gathered from Rapid Small-Scale Column Testing and chemical augmentation treatability testing was utilized to develop a preliminary conceptual design of the treatment system upgrade. The design was presented to the NYSDEC in a Basis of Design Report (BODR) (Arcadis 2022b). The conceptual design in the BODR was approved by the NYSDEC in August 2022.

Interim Remedial Measures (IRMs) were implemented based on the conceptual design presented within the BODR (Arcadis 2022b). IRM construction was initiated in March 2023, following approval of the Work Assignment Amendment in January 2023 (NYSDEC 2023), and implemented in multiple stages. The IRM

startup sampling was completed in March 2023, the details of which will be provided in the forthcoming IRM Report.

Since the implementation of the IRM, the treatment system effluent has not exceeded the Fort Edward State Pollutant Discharge Elimination System Equivalency Permit limits, with the exception of iron in December 2023.

1 Site Overview

The Fort Edward Landfill, which is located at 45 Leavy Hollow Lane in the Town of Fort Edward, New York (Figure 1) (hereinafter referred to as the "Site"), is roughly 50 acres and contains an approximately 30-acre mixed-waste landfill. The Site is bounded by the Glens Falls Feeder Canal (GFFC) to the northeast; by a wooded area, private residences, and commercial businesses (Burgoyne Avenue) to the northwest; by Leavy Hollow Lane and private residences to the west and southwest; by farm fields to the south and east; and by a bike path to the east (Figure 2).

The geology underlying the Site consists of a variable thickness of glacially deposited soil underlain by black shale bedrock. The glacial soil consists of delta sands and interbedded sand-clay lenses. The deltaic sediments overlay lacustrine clay and glacial till (HRP Engineering P.C. [HRP] 2015a). On-site monitoring wells (MWs) are screened in the shallow delta sands (MW-1, MW-2, MW-5, MW-6, MW-7, and MW-8), the interbedded sand and clay (MW-2A, MW-6A, MW-12A, and MW-12B), the deeper lacustrine clays (EXMW-34, MW-1A, MW-6B, MW-9, MW-11, MW-13A, MW-13B, MW14A, MW-14B, MW-15, MW-16, and MW-17), and shale (MW-1D). The extraction wells (EWs) (EW-1, EW-2, and EW-3) are screened at the landfill waste/delta sand interface.

The landfill contains non-hazardous municipal waste and hazardous industrial waste, including polychlorinated biphenyl (PCB)-containing electrical components and solvents. The landfill requires continued site management, including operation, maintenance, and monitoring (OM&M) of the active leachate collection and treatment system, which has been in operation since late 1998.

1.1 Site Description

Topography in the immediate vicinity of the Site is characterized by undulating hills interspersed with slopes and small depressions. The eastern portion of the Site is distinguished as a flat, low-lying area that contains several substantial wetlands. A gravel road provides access to the top of the landfill and the wetland expansion areas to the east. Nearby residences are located to the south and the west.

1.2 Site History

From 1969 to 1982, the Site was used for the disposal of approximately 70% municipal waste and approximately 30% PCB-containing scrap capacitor waste from General Electric, Inc., as well as solvents (HRP 2015a). Following a rise in public concern regarding the use of PCBs in the late 1970s, investigation began on the Site, among others, and the Site was placed on the New York State (NYS) Registry of Inactive Hazardous Waste Sites (Site Number 558001).

In 1984, the NYS Department of Environmental Conservation (NYSDEC) approved plans and specifications for a containment remedy for the landfill but allowed the Town of Fort Edward to receive non-hazardous municipal waste until a waste management system was implemented. The landfill was closed in 1991, and a temporary soil cap was installed over the waste materials between 1990 and 1993 (HRP 2015a).

1.3 Landfill Closure and Remedial Activities

The landfill was covered with a multi-layer cap in 1997 and 1998. Prior to installation of the final cover system, the entire landfill was rough graded. Over 110,000 cubic yards of stripped soils and excavated materials were

relocated and compacted along with 46,000 cubic yards of imported structural fill. The landfill consisted of the following major components (HRP 2014):

- A gas collection system consisting of a 760-foot subsurface cut-off trench, a gas cutoff barrier, cap vents, header piping, 120 gas monitoring piezometers, and seven activated carbon vapor treatment units;
- A leachate collection system consisting of three EWs; stone-filled collection trenches; a 2,300-linear foot, watertight, polyvinyl chloride sheet-pile cutoff wall; over 1,000 feet of gravity drainpipe and force mains, and related connections to the leachate treatment system;
- Three 1.5-acre constructed wetland treatment system (CWTS), configured to operate in parallel, where Phragmites Australis was used to perform phytoremediation of remaining leachate contaminants;
- Construction of an additional 2 acres of wetlands, in addition to the CWTS cells, required due to wetland disturbance from CWTS construction and landfill closure activities;
- Installation of the 29.75-acre landfill cover, which included a multi-layered cover system, drainage swales, culverts, channels, downchutes, slope stabilization, aggregate roadways, gabion basket barriers, and stilling basins; and
- Final restoration work, which included placing topsoil and seed over 32 acres and installing 6,000 feet of security fence.

The leachate collection and treatment system was designed by URS beginning in 1995, and construction began in July 1997, in parallel to the landfill cap construction. The original on-site leachate collection and treatment system, which discharges treated water to the GFFC to the northeast of the Site (HRP 2014), consisted of:

- A groundwater/leachate collection trench and three EWs for plume control;
- An air stripper for the treatment of volatile organic compounds (VOCs);
- A holding tank;
- Three CWTS cells consisting of phragmites and engineered soil;
- A polishing pond; and
- The implementation of site controls, including fencing and groundwater monitoring.

The remedial system began operating in September 1998. In October 1998, the air stripper was taken off-line since the VOCs were sufficiently being removed by the CWTS. The operation and maintenance (O&M) of the treatment system and groundwater monitoring responsibilities were assigned to AECOM in June 2007. O&M responsibilities were then transferred from AECOM to Aztech Technologies, Inc. in May 2009. Monitoring and maintenance reporting responsibilities were transferred to HRP in 2011, with Aztech Technologies, Inc. still maintaining on-site OM&M activities (HRP 2014).

The leachate collection and treatment system was operational for several years until the conveyance system was unable to convey the leachate to the pre-treatment building. The following improvements were implemented between 2011 and 2015:

- Installation of a new 6-inch high density polyethylene force main from the collection trench well, EW-4, and the three EWs (EW-1 through EW-3) to the pre-treatment building to increase the conveyance capacity;
- Repair of the EWs and associated controls;
- Re-development of the EWs;
- Installation of a new telemetry control system;

- Installation of a new roadway to the polishing pond;
- Installation of a new 4-inch high density polyethylene line from the CWTS effluent collection sump (EW-5) to the inlet of the polishing pond;
- Reconstruction of the outlet level control structure of the polishing pond to prevent short circuiting of the pond, which included replacing the existing corrugated metal outlet structure with a polyethylene pipe;
- Construction of an approximately 21-foot by 41-foot pre-engineered steel building addition to house the new process equipment; and
- Placement of the clarifier unit, sludge thickening tank, and catch clarifier tank within the new building addition.

In August 2015, HRP prepared a Remedial System Optimization (RSO) Report (HRP 2015b), which was submitted to the NYSDEC. The RSO plan presented in the report outlined the necessary tasks required to improve the existing leachate collection and treatment system. HRP prepared a Site Management Plan (SMP), which was submitted to the NYSDEC in August 2015 (HRP 2015a).

In consultation with the NYSDEC and based on the 2015 RSO Report (HRP 2015b), Arcadis of New York, Inc. (Arcadis) implemented a series of leachate collection and treatment system upgrades from October 2016 through April 2017. The collection system upgrades included removing several feet of sludge (predominately iron-based) from the EW-4 sump and upgrading the extraction pump. The treatment system upgrades included the addition of an inclined plate clarifier (IPC) and sludge pretreatment upstream of the CWTS (Cells 1, 2, and 3) and the Polishing Pond to reduce iron concentrations in the treatment system effluent. Improvements to the CWTS included installing cleanouts to allow for jetting of the CWTS piping network, installation of a bypass pipe between CWTS Cells 2 and 3, and modifications to the CWTS level control chambers to allow easier adjustments to water levels in each treatment cell. The RSO upgrades were fully operational in April 2017. A summary of the RSO upgrades was presented in the last PRR (Arcadis 2018a), and complete details of the RSO upgrades were presented to the NYSDEC in a RSO Report (Arcadis 2018b).

Since the RSO implementation, system and groundwater monitoring data have indicated that the existing treatment system still does not meet Site remedial action objectives (RAOs) nor the State Pollutant Discharge Elimination System (SPDES) Equivalency Permit when EW-1, EW-2, EW-3, and leachate collection sump EW-4 are online. Upon completion of the RSO, only the leachate from collection sump EW-4 (which has a lower contaminant load than the other EWs) could be treated to the existing Fort Edward SPDES Equivalency Permit limits, with the exception of iron.

At the request of the NYSDEC, Arcadis conducted a series of evaluations to identify and evaluate alternatives for upgrading the Site's current leachate (e.g., leachate and impacted groundwater) collection and treatment system. The evaluation program consisted of three phases:

- **Phase 1: Leachate Collection and Treatment System Characterization** – Evaluate whether the existing treatment system can meet current effluent limitations for iron, PCBs, and VOCs. Also assess the concentrations and fate of per- and polyfluoroalkyl substances (PFAS) at various stages in the treatment process.
- **Phase 2: Treatment System Upgrade** – Design and install treatment system upgrades to allow for the treatment of all contaminants to current or revised effluent limitations.
- **Phase 3: Evaluation of Leachate Collection System Functionality and CWTS Status** – Conduct subsurface investigations to evaluate leachate capture and downgradient water quality along the eastern side of the landfill and in/downgradient of the existing CWTS cells.

The results of the Phase 1 characterization (Arcadis 2020) and Phase 3 evaluation (Arcadis 2022a) were presented to the NYSDEC under separate cover. The treatment system design and upgrades (Phase 2) were implemented under an Interim Remedial Measure (IRM) beginning in April 2023. The results of the IRM will be presented under a separate cover to the NYSDEC. A summary of Phase 1, 2, and 3 data are presented in Section 3.

2 Treatment System Evaluations and Upgrades

Beginning in November 2019, Arcadis completed a treatment system evaluation to assess the effectiveness of the treatment system to reduce PFAS, VOCs, PCBs, and metals in treatment plant water prior to discharge to the GFFC.

2.1 Phase 1

The Phase 1 evaluation was performed in November 2019 and included a mass balance of PFAS, VOCs, PCBs, and metals to assess potential data gaps and better understand the processes occurring within the treatment system. The evaluation focused on the processes within the treatment building as they are the main components of the treatment system. The processes outside and downstream of the treatment building were not included in the Phase 1 evaluation as they were fully understood from numerous previous sampling events and investigations (Arcadis 2022b). Based on the analytical results and data collected during the mass balance assessment, PFAS, VOCs, PCBs, and metals were not being treated and/or reduced to meet all applicable NYSDEC Guidance Values, Proposed NYS Maximum Contaminant Levels, NYSDEC Class GA Standards, or SPDES Equivalency Permit standards prior to leaving the treatment building.

2.2 Phase 2

Phase 2 consisted of a preliminary design of the treatment system upgrade. Based on the results of the Phase 1 treatment system evaluation, Arcadis subsequently performed the following tasks to evaluate optimization strategies for the design of a leachate treatment system upgrade.

- Rapid Small-Scale Column Testing (RSSCT) of granular activated carbon (GAC) to evaluate the most effective GAC composition and residence time for removal of PFAS (and VOCs/PCBs) downgradient of the IPC; and
- An evaluation of chemical augmentation and post-IPC filtration for further reduction of iron and manganese concentrations in the system effluent.

2.2.1 Rapid Small-Scale Column Testing

In consultation with the NYSDEC, Arcadis conducted performance-based testing of liquid-phase GAC for PFAS, VOCs, PCBs, iron, and manganese removal at the Site using RSSCT. Arcadis subcontracted Engineering Performance Solutions, LLC to perform the RSSCT. Analytical testing on select samples submitted by Engineering Performance Solutions, LLC was performed by Eurofins TestAmerica, a NYSDEC Call Out Laboratory. RSSCTs were completed in two phases. The objective of the first phase was to identify an effective GAC media to remove total organic carbon (TOC), with RSSCTs performed for DSR-A and DSR-C media manufactured by Calgon Carbon Corporation (Calgon). The carbon that performed best in Phase 1 was used as a pre-filter for Phase 2 testing. During Phase 2, RSSCTs were performed for three GAC media: Filtrasorb 400 (F400), manufactured by Calgon, Norit GAC400 (GAC400), manufactured by Cabot Corporation (Cabot), and AquaCarb 1240C, manufactured by Evoqua Water Technologies, each of which have tested favorably for PFAS based on previous experience. Based on the results of the RSSCT, Calgon DSR-C was selected for the pre-treatment of TOC, VOCs, and PCBs, and Cabot GAC400 was selected for the treatment of PFAS.

2.2.2 Treatability Testing

An on-site treatability bench test was developed to improve manganese removal. Hypochlorite (bleach) was compared to sodium permanganate as an oxidant to improve iron and manganese removal from the leachate. During the on-site bench testing, the treatment program was simulated and then the chemical dosages were varied to understand the chemistry and dosage impact. Results of the treatability study were presented in the Arcadis Basis of Design Report (BODR) (Arcadis 2022b). Based on the results of the treatability study, the optimum treatment was determined to be using sodium permanganate to oxidize the iron and manganese to provide optimum precipitation. No changes were recommended to the existing dosing for flocculant or coagulant.

2.2.3 Basis of Design

Data gathered from the RSSCT and chemical augmentation treatability testing was utilized to develop a preliminary conceptual design of the treatment system upgrade. The design was presented to the NYSDEC in the BODR (Arcadis 2022b). As presented in the BODR, the leachate treatment system upgrade was designed to meet four main criteria:

- Provide treatment to meet the SPDES Equivalency Permit requirements for all applicable constituents of concern, with the exception of 1,4-dioxane (see constraints below).
- Allow for the direct discharge of treated leachate from the treatment system effluent into the GFFC, thus by-passing the CWTS and Polishing Pond.
- Be capable of treating influent leachate flows into the treatment system from less than 1 gallons per minute (gpm) (i.e., when all EWs are between batch discharge cycles) to 30 gpm (when all EWs are batch discharging simultaneously). The average leachate generation is approximately 15 gpm.
- Maximize operation of the treatment system both during and after the upgrade. The leachate collection system does not have storage capacity so leachate collection stops when the treatment system is not operating.

The conceptual design in the BODR (Arcadis 2022b) was approved by NYSDEC in August 2022. Implementation of the design was conducted under an IRM beginning in March 2023. A summary of the IRM construction and startup testing is presented in Section 3.4.

2.3 Phase 3

The Phase 3 Site Characterization (SC) activities were conducted between November 2019 and March 2021. The objectives of the Phase 3 SC were to:

- Evaluate leachate capture and downgradient groundwater quality along the eastern side of the landfill.
- Investigate the CWTS cells for the presence of VOCs, PCBs, and PFAS in soil and groundwater.
- Assess the capability of the current system to contain leachate.

Soil samples were collected from 13 soil borings to further evaluate subsurface conditions on the eastern side of the landfill and CWTS cells. One sediment sample was collected from the Unnamed Pond (Figure 2) to evaluate impacts to sediment within the surface water expression immediately downgradient of the landfill.

Six temporary monitoring wells (TMWs) (TMW-1A, TMW-1B, TMW-2A, TMW-2B, TMW-3A, and TMW-3B) and nine new permanent groundwater MWs (MW-12A, MW-12B, MW-13A, MW-13B, MW-14A, MW-14B MW-15, MW-16, and MW-17) were installed at varying depths to evaluate the vertical and horizontal extent of groundwater contamination downgradient of the landfill.

Groundwater samples were collected from new and existing wells in the monitoring network during four events, as indicated below:

- January 2020: TMW-1A, TMW-1B, TMW-2A, TMW-2B, TMW-3A, TMW-3B, MW-5, MW-6, MW-9, MW-11, MW-13A, MW-13B, MW-14A, MW-14B, MW-15, MW-16, and MW-17;
- February 2020: MW-5, MW-6, MW-9, MW-11, MW-13A, MW-13B, MW-14A, MW-14B, MW-15, MW-16, and MW-17; and
- March and May 2021: MW-5, MW-6, MW-9, MW-12A, and MW-12B.

Surface water samples were collected from the surface water expression immediately downgradient of the landfill (Unnamed Pond) in May 2021 to evaluate if landfill constituents were present within the water body.

The location and elevation of new and existing MWs were surveyed in December 2019. A second survey was completed following the installation of the MW-12 cluster in February 2021. Soil and sediment samples collected during the Phase 3 SC activities either contained concentrations of VOCs, PCBs, and/or metals less than the applicable Title 6 of the New York Codes, Rules and Regulations (6 NYCRR) Part 375 Commercial Soil Cleanup Objective (SCO) or NYSDEC sediment guidance value (SGV) or were not detected. In addition, PFAS and 1,4-dioxane in soil and sediment were either not detected or they were detected at concentrations less than the current NYSDEC SCO or NYSDEC SGV. Based on these data, soil and sediment do not appear to be significantly impacted by historical Site activities and are not considered to be a significant contributor to groundwater or surface water contamination at the Site. In addition, soil within and below the CWTS cells does not appear to be significantly impacted from long-term discharges from the treatment plant.

Based on groundwater data, the maximum concentrations of VOCs, metals, PFAS, and 1,4-dioxane were detected in samples collected from MWs screened in the deltaic sands and silts and located immediately downgradient from the landfill (MW-5, MW-6, MW-12A, and MW-12B). Based on historical drilling logs and data collected during the SC, groundwater is likely in contact with the base of the waste mass in the unlined landfill and is discharging through the waste mass and higher permeability delta sand and silt unit on the eastern edge of the landfill. The discharge results in a surface water expression (Unnamed Pond) that is contaminated with PFAS and 1,4-dioxane. Therefore, the current leachate collection system is not capturing leachate discharging in the region of MW-5, MW-6, and the MW-12 cluster, specifically.

PFAS was detected in the TMWs installed in CWTS Cells 1, 2 and 3. Except for MW-16, downgradient of Cell 1, the groundwater samples collected downgradient from the CWTS did not contain concentrations of PFAS, suggesting the CWTS liners in Cells 2 and 3 are not compromised. Since MW-14A and MW-14B (located upgradient of Cell 1) did not contain PFAS, but MW-16 did contain PFAS, the source of PFAS to groundwater in the vicinity of MW-16 could be Cell 1.

Hydraulic conductivity tests were performed on four MWs (MW-6, MW-7, MW-12A, and MW-12B) to estimate the hydraulic properties in the water bearing zone beneath the landfill. Based on the test results, the mean hydraulic conductivity was calculated to be approximately 7 feet per day. The test data was then used to assess the groundwater flux and estimate that a perimeter drainage system would need to collect approximately 100 gpm

upgradient of the landfill and 40 gpm downgradient of the landfill to lower the water table so that groundwater is no longer in contact with the landfill waste mass.

2.4 Interim Remedial Measures Upgrade

In January 2023, the NYSDEC approved a Work Assignment Amendment (NYSDEC 2023) to implement the IRM to improve the treatment of VOCs, PCBs, metals, and PFAS. IRM construction was initiated in March 2023. The following modifications to the treatment system were performed:

- Replacement of the existing flat bottom Clarifier Catch Tank (CCT) with a cone bottom tank to enhance solids removal prior to mechanical filtration;
- Installation of a transfer pump, mechanical filtration, and a GAC filtration piping manifold and associated equipment;
- Installation of a mechanical disc filtration unit as pre-GAC treatment;
- Installation of two bag filtration vessels as pre-GAC treatment;
- Installation of two lead GAC vessels for the primary removal of TOC, metals, VOCs, and PCBs and two lag GAC vessels for PFAS removal/polishing prior to discharge;
- Replacement of the existing reciprocating air compressor with a rotary screw type to support additional air demand requirements;
- Replacement of the existing Flocculant Tank to accommodate the required floor space for the GAC vessel addition;
- Upgrade of the controls and instrumentation to allow for the automated addition of treatment amendments (i.e., Catch Tank level control, transfer pump, air compressor, chemical dosing, and pressure transmitters) using feedback from instrumentation and to facilitate communications between the existing and upgraded equipment; and
- Addition of a new Walchem electromagnetic chemical metering pump to dose Aries 2925 sequestering agent at a rate of 100 parts per million into the IPC effluent prior to the CCT to prevent precipitation of dissolved iron.

The new system components were brought online individually throughout 2023 as each step of the system upgrade was completed. Following initial startup testing, the GAC vessels were online in November 2023, triggering the start of the IRM sampling program to monitor the effectiveness of the treatment system.

Based on the results of the IRM sampling, the upgraded system is effective at removing VOCs, PCBs, PFAS, and metals from process water so that discharge from the treatment plant does not exceed the SPDES Equivalency Permit standards, with the occasional exception of iron. Treatment system sampling data are discussed in Section 6.

2.5 Current Status

Leachate and groundwater recovered from EW-1, EW-2, EW-3, and leachate collection well EW-4 are pumped to the treatment plant at a combined average total flow rate of approximately 13 gpm. As shown on the Process and Instrumentation Diagram (Appendix A), when the leachate enters the treatment plant, it is first treated with sodium permanganate to oxidize the iron. The leachate then enters the inlet mixing chambers of the IPC, where

coagulant and flocculant amendments are added. At the discharge of the IPC, sequestrant is dosed to prevent any remaining iron from prematurely fouling the bag filters and carbon vessels. After passing through the IPC, the treated water is discharged via gravity to the CCT. The CCT is a 1,000-gallon, cone-bottom tank with bottom and side discharge pipes. The primary discharge pump (P-401) is plumbed to the side of the tank and is controlled based on a level transmitter inside the CCT. A smaller secondary discharge pump (P-402) is connected to the bottom of the CCT cone and discharges any accumulated sludge to the inlet of the IPC daily to limit the buildup of sludge in the bottom of the tank. The primary discharge pump starts when the CCT water level reaches 2.5 feet and stops when the level reaches 1-foot. The pump speed is controlled by a variable frequency drive and the program logic controller (PLC) to maintain a discharge flow rate of approximately 30 gpm. After the water leaves the CCT, it is pumped to an automated 15-micron disc filter (DF-801), followed by a series of bag filters (BF-801/802). The bag filters protect the carbon vessels from premature fouling due to iron. Currently, the lead bag filter is 25 microns and the lag bag filter is 5 microns. Following the bag filters, process water is piped into a series of four 2,000-gallon carbon vessels. The first two vessels (GAC-801/802) are filled with Calgon DSR-C carbon for the removal of TOC and treatment of VOCs and PCBs, and the second two vessels (GAC-803/804) are filled with Cabot GAC400 carbon for the treatment of PFAS. The carbon vessels are connected through a manifold for individual control of process water to each vessel to optimize system performance and maintenance activities.

Following the carbon, the water exits the building through an underground 2-inch force main to a common sump (EW-5). Water collected in EW-5 discharges via gravity through a check valve to a channel that discharges to the GFFC.

As shown in the Process and Instrumentation Diagram, sludge that accumulates in the IPC is pumped by a feed pump to the Sludge Thickener Tank. The sludge is retained in the tank until the solids settle to the bottom. Flocculant is added to the tank, and air is used to mix the tank to enhance sludge processing. Water is then decanted from the sludge and directed to the Decant Tank, where it is then pumped back to the inlet of the IPC.

Solids in the Sludge Thickener Tank are pumped to the filter press for processing. The sludge is pumped into the filter press at increasing pressures up to 90 pounds per square inch (psi). The filter press retains the solids and returns the filtrate to the Decant Tank. For final sludge processing, compressed air (up to 100 psi) is applied to the sludge that is retained in the filter press plates (i.e., blow down). The blow down procedure compresses the sludge to remove additional filtrate liquid. Blow down is continued (for approximately one hour) until the volume of water being returned from the filter press approaches zero. At the end of the blow down cycle, the filter press is opened and the dried filter cakes (approximately 20% solids) are removed and placed into UN-approved 55-gallon drums for off-site transportation and disposal.

Treatment plant O&M and performance monitoring are described further in Section 5 and Section 6, respectively.

3 Landfill Cap Damage

In November 2022, GreenSpark Solar and their subcontractors began construction of a 5-megawatt solar array on the cap of the Site. The solar array was being constructed by GreenSpark Solar for AC Power 9, LLC in accordance with the NYSDEC-approved Solar Array Engineering Report (LaBella, 2021).

On December 23, 2022, Arcadis was conducting O&M activities related to leachate collection well EW-4 and observed active erosion occurring on the landfill cap in the southeast corner of the landfill. The erosion was observed on the western edge of a downchute drainage swale (later defined as Downchute 5 in the Draft Construction Completion Report [Arcadis 2024]) and continued down-slope approximately 200 feet to where the downchute emptied into a culvert that passes underneath a landfill cap access road. Sediment accumulation was observed at the culvert inlet and in the landfill perimeter drainage swale at the culvert pipe outlet. Landfill cap material was observed collapsing into the erosion channel, being washed downgradient into the culvert pipe, and extending to the GFFC. Arcadis also observed ponding in several mid-cap swales where the riprap had been removed and replaced with corrugated underdrain piping and stone for leveling pads used for the solar panel installation.

At the request of the NYSDEC, Arcadis prepared inspection and repair plans to assess the landfill damage and to restore the landfill drainage system and cap to previous conditions. Landfill inspection, repair, and construction activities were conducted by LaBella (a NYSDEC Standby Contractor) beginning December 30, 2022. Oversight of construction activities was performed by Arcadis. Details of the repairs were provided in the Draft Construction Completion Report (Arcadis 2024).

At the request of the NYSDEC, Arcadis collected sediment, surface water, and groundwater samples in February 2023 to evaluate whether sediment released during a landfill cap erosion event contained landfill-related contaminants of concern (COCs), and to assess if the sediment deposition impacted surface water and groundwater quality in the surrounding areas. Results from the sampling event indicated that the landfill cap erosion event did not appear to have resulted in the release of landfill-related COCs to the Site drainages and surrounding surface water and groundwater. Results from the sampling event were provided to the NYSDEC in the Fort Edward Landfill 2023 Erosion Response Sampling Report (Arcadis 2023a).

The following major activities were performed between December 30, 2022, and November 6, 2023:

- Inspecting and repairing tears or punctures to the swale geotextile fabric and underlying geomembrane liner;
- Regrading swale subbase material and screening and replacing riprap within the swale;
- Repairing Downchute 5, including the new geomembrane liner and new gabion mattresses;
- Removing sediment from the landfill perimeter swale;
- Upgrading the midcap drainage system to direct iron-laden water to the leachate treatment system; and
- Restoring the vegetative soil cover and biodegradable soil stabilization matting.

4 Remedy Performance, Effectiveness, and Protectiveness

4.1 Remedial Action Objectives

The RAOs for the Site are outlined in the August 2015 SMP (HRP 2015a). The RAOs are based on NYSDEC Division of Environmental Remediation requirements and include the following elements:

Groundwater RAOs

RAOs for Public Health Protection:

- Prevent the ingestion of groundwater with contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of, volatiles from contaminated groundwater.

RAOs for Environmental Protection:

- Restore the groundwater aquifer to pre-disposal/pre-release conditions, to the extent practicable.
- Prevent the discharge of contaminants to surface water.
- Remove the source of ground or surface water contamination.

Soil RAOs

RAOs for Public Health Protection:

- Prevent ingestion/direct contact with contaminated soil.
- Prevent the inhalation of, or exposure from, contaminants volatilizing from contaminants in soil.

RAOs for Environmental Protection:

- Prevent the migration of contaminants that would result in groundwater or surface water contamination.

Surface Water RAOs

RAOs for Public Health Protection:

- Prevent the ingestion of water impacted by contaminants.
- Prevent contact with, or inhalation of, contaminants from impacted water bodies.
- Prevent surface water contamination that may result in fish advisories.

RAOs for Environmental Protection:

- Restore the surface water to ambient water quality criteria for the COCs.
- Prevent impacts to biota from ingestion/direct contact with surface water that may cause toxicity and impacts from bioaccumulation through the marine or aquatic food chain.

Sediment RAOs

RAOs for Public Health Protection:

- Prevent direct contact with contaminated sediments.
- Prevent surface water contamination that may result in fish advisories.

RAOs for Environmental Protection:

- Prevent releases of contaminant(s) from sediments that would result in surface water levels in excess of ambient water quality criteria.
- Prevent impacts to biota from ingestion/direct contact with sediments that may cause toxicity or impacts from bioaccumulation through the marine or aquatic food chain.
- Restore the sediments to pre-release/background conditions to the extent feasible.

Soil Vapor RAOs

RAOs for Public Health Protection:

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings.

4.2 Institutional and Engineering Controls

An Institutional and Engineering Control (IC/EC) Plan is provided in the August 2015 SMP (HRP 2015a). The IC/EC Plan provides procedures for implementation and management of the controls for the Site.

4.2.1 Institutional Controls

ICs at the Site consist of:

- The property may be used for commercial use provided that the long-term ECs and ICs included in the SMP (HRP 2015a) are employed.
- The SMP and all documents within the SMP must be adhered to.
- All ECs must be inspected at a frequency and in a manner defined in the SMP.
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDEC and the Health Department to render it safe for use as drinking water or for commercial use, and the user must first notify and obtain written approval to do so from the NYSDEC.
- Groundwater and other environmental or public health monitoring must be performed as defined in the SMP.
- Data and information pertinent to Site management must be reported at the frequency and in a manner defined in the SMP.
- All future activities that will disturb remaining contaminated material must be conducted in accordance with the SMP.
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP.
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP.

- Access to the Site must be provided to agents, employees, or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions and performance of the SMP requirements.
- The potential for vapor intrusion must be evaluated for any buildings developed in the area within the IC boundaries noted as the property boundaries in the SMP, and any potential impacts that are identified must be monitored or mitigated.
- Vegetable gardens and farming on the Site are prohibited.

4.2.2 Engineering Controls

ECs at the Site consist of:

- Fencing/access control;
- A landfill cover system; and
- A leachate collection and groundwater treatment system.

5 Operation and Maintenance

The current OM&M Manual was prepared by Arcadis in February 2020 (Arcadis 2020a). The SMP (HRP 2015a) and OM&M Manual will be revised and updated in 2024 to include IRM upgrades and incorporate changes to the sampling program.

5.1 System Operation and Maintenance

The following sections summarize the leachate collection and treatment system O&M program. Arcadis has performed the Site O&M, including maintenance of the leachate collection and treatment system, since 2017. However, system O&M activities and schedules were modified during implementation of the RSO and various treatment system upgrades described in Section 3.

In general, the treatment system has operated continuously, with brief shutdown periods due to scheduled O&M and/or alarm conditions and non-routine maintenance activities.

O&M site visits consist of inspecting the system, recording the operating parameters, system sampling, processing sludge, and investigating/troubleshooting any alarm conditions. System alarm verification is performed remotely via desktop software. The O&M data generated during each monthly visit are summarized in monthly progress reports. A summary of the O&M-related tasks is provided below.

Weekly System O&M Inspections:

- Inspecting all vessels, tanks, pipes, and fittings for leaks;
- Checking the air compressor oil level and pressure to assure proper operation;
- Inspecting the pneumatic transfer pumps for proper operation and repairing/cleaning, as needed;
- Replacing the bag filters and containerizing spent filters for off-site disposal;
- Monitoring and recording the system gauge readings to determine if the system is operating within the designed operational ranges;
- Maintaining the chemical metering pumps and change-out chemical drums, as needed;
- Mixing batches of flocculant;
- Transferring sludge from the IPC to the thickener tank; and
- Processing sludge from the thickener tank through the filter press and containerizing the filter press cake material (as described in Section 2.5).

Monthly System O&M Inspections:

- Inspecting and cleaning of the IPC, as needed;
- Recording the total volume of leachate recovered and the average recovery flow rates;
- Inspecting the EW operation and cleaning the pumps, as needed;
- Collecting system influent samples and submitting them for laboratory analysis of site-specific COCs (results are summarized in Section 6.2.1);

- Collecting system mid-treatment samples (post-catch tank, post GAC-801, post GAC-803) and submitting them for laboratory analysis of site-specific COCs (results are summarized in Section 6.2.2); and
- Collecting system effluent samples (GAC-804) and submitting them for laboratory analysis of site-specific COCs (results are summarized in Section 6.2.3).

Site Maintenance:

- Mowing the area around the treatment building and CWTS and trimming phragmites to limit the growth of the plants in the CWTS.
- Mowing the landfill cap annually.
- Cleaning the french drain collection system piping and force main piping between the leachate collection well EW-4 and the treatment plant annually with a high-pressure jetting machine to remove scale and sludge. Water, scale, and sludge removed from the piping is processed through the treatment plant.
- Inspecting and repairing the landfill perimeter fencing and gates, as needed.

5.2 System Operational Data

The system operational data for January 1, 2018, through April 1, 2024, is summarized in Tables 1 and 2. Total extracted leachate flow readings were collected from individual EW flowmeters and are summarized in Table 1. Average leachate flows and EW recovery rates are summarized in Table 2. A cumulative total of 42,760,468 gallons of leachate was recovered by the system from January 1, 2018, through April 1, 2024. This total flow corresponds to an average recovery rate of approximately 12.9 gpm. Cumulative and average recovery flowrates, respectively, for each EW are provided below:

- EW-1: 125,193 gallons, 0.0 gpm (EW-1 began full-time operation in November 2023 with an average rate of 0.1 gpm);
- EW-2: 202,885 gallons, 0.1 gpm;
- EW-3: 650,055 gallons, 0.2 gpm; and
- EW-4: 41,782,335 gallons, 12.6 gpm.

Sludge generation began in March 2017. The total volume of filter press cakes generated and processed through the treatment system from January 1, 2018, through April 1, 2024, totaled 234 drums. Based on the concentrations of PCBs in the sludge, the filter cakes are profiled and disposed as a Toxic Substances Control Act waste. Manifests are tracked using the United States Environmental Protection Agency (USEPA) Hazardous Waste Electronic Manifest (e-Manifest) System, and the waste stream is currently processed and disposed by Environmental Waste Minimization Inc. at the Wayne Landfill in Belleville, Michigan.

6 Performance and Effectiveness Monitoring

Performance and effectiveness monitoring are currently completed in accordance with the 2015 SMP (HRP 2015a), 2020 OM&M Manual (Arcadis 2020a), and in consultation with NYSDEC. The OM&M Manual will be revised and updated in 2024 to reflect the IRM upgrades and will include updated sampling locations and the requirements for evaluation of the leachate collection and treatment system, groundwater, surface water, and sediment in accordance with the December 2022 Work Assignment Amendment (Arcadis 2022d).

6.1 Leachate Collection System

Leachate collection system samples are currently collected from EW-1, EW-2, EW-3, and leachate collection well EW-4 on a quarterly basis. Samples are analyzed for VOCs, PCBs, metals, total dissolved solids (TDS), total suspended solids (TSS), and TOC. Sampling for PFAS and 1,4-dioxane began in 2021. Tables 3 through 6 show the quarterly sampling results from March 2018 to March 2024 at the leachate EWs and leachate collection well.

6.1.1 Per- and Polyfluoroalkyl Substances

PFAS, including perfluorooctane sulfonic acid (PFOS) and perfluorooctanoic acid (PFOA) were detected in all three EWs and the leachate collection well. Generally, EW-1 had the highest PFAS concentrations and EW-4 had the lowest concentrations. PFOA concentrations ranged from 7.2 nanograms per liter (ng/L) (EW-4) in December 2023 to 1,200 ng/L (EW-1) in March 2024. PFOS concentrations ranged from 2.9 J (estimated) ng/L (EW-1) in September 2022 to 79 ng/L (also at EW-1) in March 2024. No Fort Edward SPDES Equivalency Permit limit exists for any PFAS compound.

6.1.2 Volatile Organic Compounds

VOCs were detected in every quarterly sample collected from EW-1 and EW-3 and in all but two of the quarterly samples collected from EW-2 during the quarterly sampling events between March 2018 and March 2024. Generally, the highest VOCs levels were reported at leachate EW-1. Cis-1,2-dichloroethene and vinyl chloride concentrations at EW-1 exceeded their respective Fort Edward SPDES Equivalency Permit limits of 30 micrograms per liter (µg/L) and 50 µg/L, during each quarterly sampling event. Cis-1,2-dichloroethene exceedances at EW-1 ranged from 170 µg/L in both October 2023 and March 2024 to 1,500 µg/L in May 2020 and vinyl chloride exceedances ranged from 370 µg/L in March 2024 to 3,600 D (diluted) µg/L in June 2022. No other VOCs exceeded Fort Edward SPDES Equivalency Permit limits at EW-1, and no VOCs exceeded Fort Edward SPDES Equivalency Permit limits at the other two leachate EWs (EW-2 and EW-3). Several VOCs, including BTEX compounds (benzene, toluene, ethylbenzene, and xylenes) and chlorinated solvents, were reported at EW-1, EW-2, and EW-3 but were detected at low-level concentrations and/or a Fort Edward SPDES Equivalency Permit limit does not exist for them. As shown in Table 6, VOCs were only detected at leachate collection well EW-4 during six of the 20 quarterly sampling events between March 2018 and March 2024. All VOCs detected at EW-4 were detected at low-level concentrations and totaled less than 3 µg/L, with the exception of the VOC results at EW-4 in November 2020. Concentrations of chloroform and dichloromethane (280 µg/L and 81 µg/L, respectively) at EW-4 exceeded their respective Fort Edward SPDES Equivalency Permit limits of 150 µg/L and 50 µg/L in November 2020.

6.1.3 1,4-Dioxane

1,4-Dioxane was detected at all three leachate EWs and the leachate collection well. 1,4-Dioxane detections at the leachate EWs ranged from 32 µg/L in March 2024 (in both EW-2 and EW-3) to 130 J µg/L in May 2021 (EW-1). As shown in Table 6, 1,4-dioxane was detected at leachate collection well EW-4 ranging from 0.37 µg/L in December 2023 to a concentration of 3.6 J µg/L in May 2021. No Fort Edward SPDES Equivalency Permit limit exists for 1,4-dioxane.

6.1.4 Polychlorinated Biphenyls

PCBs, specifically Aroclors 1016, 1221, 1232, and 1242 were detected in at least one of the three leachate EWs and the leachate collection well. As shown in Table 3, PCBs were detected in the samples collected from EW-1 during each quarterly sampling event. The highest PCB concentrations were detected at leachate EW-1 in March 2024 (33,100 µg/L). All PCB detections at the remaining two leachate EWs (EW-2 and EW-3) and the leachate collection well (EW-4) were low concentrations of less than 4 µg/L. As shown in Table 4, PCBs were detected at EW-2 during six of the quarterly monitoring events between March 2018 and March 2024, and total PCB concentrations ranged from 0.0746 J µg/L in December 2022 to 2 µg/L in March 2022. As shown in Table 5, PCBs were detected at EW-3 during five of the quarterly monitoring events, and total PCB concentrations ranged from 0.155 J µg/L in March 2024 to 2.5 µg/L in November 2021. As shown in Table 6, PCBs were detected at EW-4 during 16 of the 20 quarterly sampling events between March 2018 and March 2024 (PCBs were not detected in June 2018, March 2019, May 2020, and March 2022). Total PCB concentrations at EW-4 ranged from 0.0874 J µg/L in June 2023 to 3.0 µg/L in November 2020. No Fort Edward SPDES Equivalency Permit limit exists for any PCBs.

6.1.5 Metals

Tables 3 through Table 6 show the quarterly sampling results from March 2018 to March 2024 for metals at the leachate EWs and leachate collection well. Arsenic, barium, cadmium, cobalt, copper, iron, lead, nickel, vanadium, and/or zinc were detected in the samples from EW-1, EW-2, EW-3, and leachate collection well EW-4 at concentrations greater than the corresponding Fort Edward SPDES Equivalency Permit limit. The exceedances are outlined below:

- Arsenic exceeded the 0.15 milligrams per liter (mg/L) Fort Edward SPDES Equivalency Permit limit at leachate collection well EW-4 in November 2020 with a concentration of 4.54 mg/L. This was the only SPDES exceedance observed for arsenic.
- Barium exceeded the 3.5 mg/L Fort Edward SPDES Equivalency Permit limit at leachate collection well EW-4 in November 2020 with a concentration of 11.1 mg/L. This was the only SPDES exceedance observed for barium.
- Cadmium concentrations exceeded the 0.001 mg/L Fort Edward SPDES Equivalency Permit limit for cadmium at EW-1 in November 2020 (0.0058 mg/L) and December 2023 (0.0021 J mg/L) and at EW-3 in December 2023 (0.0021 J mg/L).
- Cobalt concentrations exceeded the 0.005 mg/L Fort Edward SPDES Equivalency Permit limit for cobalt in multiple quarterly samples collected at EW-1, EW-2, EW-3, and leachate collection well EW-4. Cobalt exceedances ranged from 0.005 J mg/L (EW-2) in November 2019 to 0.0998 mg/L (EW-4) in November 2020.

- Copper concentrations exceeded the 0.024 mg/L Fort Edward SPDES Equivalency Permit limit for copper in the quarterly samples collected at EW-1, EW-2, EW-3, and leachate collection well EW-4. Copper exceedances ranged from 0.025 mg/L (EW-2) in June 2022 to 0.377 mg/L (EW-4) in November 2020.
- Iron concentrations exceeded the 0.3 mg/L Fort Edward SPDES Equivalency Permit limit for iron in each of the quarterly samples collected at EW-1, EW-2, EW-3, and leachate collection well EW-4. Iron exceedances ranged from 2.3 mg/L (EW-4) in June 2018 to 29,800 mg/L (EW-4) in November 2020.
- Lead concentrations exceeded the 0.0032 mg/L Fort Edward SPDES Equivalency Permit limit for lead in the quarterly samples collected at EW-1, EW-2, EW-3, and leachate collection well EW-4. Lead exceedances ranged from 0.0035 J mg/L (EW-4) in November 2019 to 0.354 J (EW-4) in November 2020.
- Nickel concentrations met or exceeded the 0.0096 mg/L Fort Edward SPDES Equivalency Permit limit for nickel in the quarterly samples collected at EW-1, EW-2, and leachate collection well EW-4. Nickel exceedances ranged from 0.0096 J mg/L (EW-2) in November 2021 to 0.74 J (EW-4) in November 2020.
- Vanadium concentrations met or exceeded the 0.0014 mg/L Fort Edward SPDES Equivalency Permit limit for vanadium in the quarterly samples collected at EW-1, EW-2, EW-3, and leachate collection well EW-4. Vanadium exceedances ranged from 0.0014 mg/L (EW-2) in June 2022 to 0.407 J (EW-4) in November 2020.
- Zinc concentrations exceeded the 0.17 mg/L Fort Edward SPDES Equivalency Permit limit for zinc in the quarterly samples collected from EW-1 in June 2018 (0.21 mg/L) and November 2020 (0.463 mg/L), EW-2 in November 2019 (0.616 mg/L), and EW-4 in November 2020 (2.33 mg/L).

6.1.6 Total Dissolved Solids and Total Suspended Solids

Tables 3 through 6 show the quarterly sampling results from March 2018 to March 2024 for TDS and TSS at the leachate EWs and leachate collection well. TDS and TSS concentrations exceeded the Fort Edward SPDES Equivalency Permit limit of 500 mg/L and 50 mg/L, respectively, in the leachate EWs and the leachate collection well. TDS was detected above the 500 mg/L Fort Edward SPDES Equivalency Permit limit at EW-1 and EW-2 during each quarterly sampling event, except in September 2022 when the samples were not analyzed for TDS. TDS levels at EW-3 exceeded the Fort Edward Equivalency Permit limit during each quarterly sampling event, except for November 2021, June 2022, September 2022 (samples were not analyzed for TDS), October 2023, and March 2024. TDS exceedances in the leachate EWs ranged from 510 mg/L (EW-3) in June 2023 to 1,510 mg/L (EW-1) in November 2019 and May 2021. TDS concentrations at leachate collection well EW-4 only exceeded the Fort Edward SPDES Equivalency Permit limit in November 2020 (586 mg/L).

Similar to TDS, TSS was not analyzed during the September 2022 quarterly sampling event. TSS at EW-1 exceeded the Fort Edward Equivalency Permit limit during each quarterly sampling event, except in March 2019, November 2021, March 2023, and June 2023. TSS levels at EW-2 exceeded the Fort Edward Equivalency Permit limit during each quarterly sampling event, except in May 2020, November 2020, November 2021, October 2023, and March 2024. TSS levels at EW-3 exceeded the Fort Edward Equivalency Permit limit during each quarterly sampling event, except in March 2022. TSS exceedances in the leachate EWs ranged from 56 mg/L (EW-2) in March 2022 to 690 mg/L (EW-3) in March 2024. TSS was detected above the Fort Edward SPDES Equivalency Permit limit at EW-4 in the quarterly samples collected in November 2020 (4,040 mg/L), June 2022 (260 mg/L), December 2022 (60 mg/L), March 2023 (89 mg/L), and June 2023 (120 mg/L).

6.1.7 Total Organic Carbon

Tables 3 through 6 show the March 2024 TOC results at the leachate EWs and leachate collection well. TOC was not analyzed prior to the March 2024 sampling event. Concentrations ranged from were 2.4 mg/L at EW-4 to 92 mg/L at EW-1. No Fort Edward SPDES Equivalency Permit limit exists for TOC.

6.2 Leachate Treatment System

Between 2017 and 2023, the leachate entered the treatment plant (influent) and was treated for iron and solids removal through chemical amendments and the IPC. After treatment in the IPC, the water was discharged by gravity to the CCT. From there, water was pumped in batches to the CWTS (Cell 3 and Cell 2, respectively) for additional treatment. Water discharged from Cell 2 was pumped to the inlet of the Polishing Pond for additional clarification. The water that discharged from the Polishing Pond (Polishing Pond Effluent) was the final effluent of the treatment system. The effluent then discharged by gravity to the GFFC.

Following implementation of the IRM in November 2023, as described in Section 2.4, additional filtration and GAC treatment was added to the treatment system, and the discharge sampling point changed from the Polishing Pond to the final stage of the updated treatment system process (post GAC-804). Currently, sample location GAC-804 is the treatment plant effluent location and is representative of process water that is discharged to the GFFC. No samples are currently collected from the CWTS or Polishing Pond. The analytical data presented below are provided in the order of sequence that leachate is processed through the treatment system.

The treatment system effluent limitations are provided in Appendix L of the SMP (HRP 2015a). Prior to discharge to the GFFC, effluent concentrations are compared against SPDES Equivalency Permit limits. The effluent limitations are generally based on the NYSDEC, Division of Water, Technical and Operational Guidance Series (1.1.1), “Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations,” dated June 1998 (NYSDEC 1998), using water class A, A-S, AA, AA-S, B, C (source of drinking water with fish propagation) – Type H(WS), and A(C).

6.2.1 Influent Analytical Results

The quarterly influent concentrations of PFAS, VOCs, 1,4-dioxane, PCBs, metals, TDS, TSS, and TOC in leachate are provided in Table 7 and discussed below.

Table 7 shows PFAS, including PFOS and PFOA, were reported in each of the four quarterly influent samples where PFAS was analyzed (May 2021, September 2022, December 2023, and March 2024). PFOS concentrations ranged from 4.3 J ng/L (September 2022) to 10 ng/L (December 2023), and PFOA concentrations ranged from 14 ng/L (September 2022) to 46 ng/L (December 2023).

As shown in Table 7, VOCs were detected in the March 2018, June and September 2018, March and November 2019, November 2021, September 2022, June, October and December 2023, and March 2024 quarterly influent samples. However, no VOCs were detected at concentrations exceeding their corresponding Fort Edward SPDES Equivalency Permit limit. Total VOC detections ranged from 0.27 J µg/L (June 2018) to 12.9 µg/L (December 2023).

Quarterly influent samples were analyzed for 1,4-dioxane Selective Ion Monitoring (SIM) in May 2021, September 2022, December 2023, and March 2024. 1,4-Dioxane SIM concentrations ranged from 1.5 µg/L in March 2024 to 3.9 J µg/L in May 2021.

As shown in Table 7, PCBs were detected in each of the quarterly influent samples, except for the March 2022 samples. Aroclors 1016, 1221, and 1232 were the only aroclors detected in the quarterly influent samples. Total PCB detections ranged from 0.0856 J µg/L (June 2023) to 8.4 µg/L (November 2019).

Iron and lead were detected in the quarterly influent samples at concentrations greater than their corresponding Fort Edward SPDES Equivalency Permit limits. Iron concentrations exceeded the 0.3 mg/L Fort Edward SPDES Equivalency Permit limit in each of the quarterly influent samples and ranged from 4.1 mg/L (October 2018) to 98 mg/L (March 2018). Lead concentrations only exceeded the 0.0032 mg/L Fort Edward SPDES Equivalency Permit limit in November 2020 (0.0039 J mg/L) and November 2021 (0.0045 J mg/L).

TDS and TSS were detected in each of the quarterly influent samples, with the exception of the September 2022 samples, when TDS and TSS were not analyzed, and in the October 2023 samples where TSS was not detected. TDS concentrations only exceeded the Fort Edward SPDES Equivalency Permit limit in November 2023 (557 mg/L) and TSS concentrations only exceeded the limit in March 2018 and March 2019 with concentrations of 180 mg/L and 82 mg/L, respectively.

TOC was analyzed for in May, September, and November 2021, December 2023, and March 2024 and concentrations ranged from 2.8 mg/L (September 2021) to 4.8 mg/L (December 2023).

6.2.2 Mid-Treatment Analytical Results

6.2.2.1 Clarifier Catch Tank

Table 8 shows the results for PFAS, VOCs, 1,4-dioxane, PCBs, metals, TDS, TSS and TOC in the quarterly samples collected from the CCT from March 2018 to March 2024.

PFAS, including PFOS and PFOA, were detected in each of the four CCT samples where PFAS was analyzed (May 2021, September 2022, December 2023, and March 2024). PFOS concentrations ranged from 6.04 ng/L (May 2021) to 9.6 ng/L (December 2023), and PFOA concentrations ranged from 15 ng/L (September 2022) to 34.4 ng/L (May 2021).

As shown in Table 8, VOCs were detected in 14 of the 20 quarterly samples collected from the CCT, however, no VOCs were reported at concentrations exceeding their corresponding Fort Edward SPDES Equivalency Permit limit. Total VOC detections ranged from 0.17 J µg/L (October 2018) to 19.01 µg/L (May 2021).

1,4-Dioxane SIM was analyzed for and detected in the CCT samples in May 2021 (6.5 J µg/L), September 2022 (2.9 µg/L), and March 2024 (2.5 µg/L).

PCBs were detected in each of the quarterly samples collected from CCT, except in the March 2019 and March 2022 samples. Aroclors 1016, 1221, and 1232 were the only PCBs detected in the CCT samples and ranged from 0.135 J µg/L in March 2023 to 7.2 µg/L in November 2019.

Tables 7 and 8 show that, compared to influent concentrations, there is no significant reduction in VOCs or PCBs resulting from treatment in the IPC.

Copper, iron, lead, nickel, and zinc were detected in the quarterly samples collected from the CCT at concentrations greater than their corresponding Fort Edward SPDES Equivalency Permit limits. The exceedances are detailed below:

- Copper concentrations exceeded the 0.024 mg/L Fort Edward SPDES Equivalency Permit limit in June 2018 (0.046 mg/L) and November 2020 (0.187 mg/L).
- Iron concentrations exceeded the 0.3 mg/L Fort Edward SPDES Equivalency Permit limit in each samples collected between March 2018 and March 2024. Exceedances ranged from 0.58 mg/L in September 2018 to 32.3 mg/L in May 2020.
- Lead exceeded the 0.0032 mg/L Fort Edward SPDES Equivalency Permit limit once, in November 2020, with a concentration of 0.0102 mg/L.
- Nickel concentrations exceeded the 0.0096 mg/L Fort Edward SPDES Equivalency Permit for the samples collected in June, September, and October 2018, March 2019, May 2020, and November 2020. Concentrations ranged from 0.011 mg/L in June and September 2018 to 0.16 mg/L in November 2020.
- Zinc exceeded the 0.17 mg/L Fort Edward SPDES Equivalency Permit limit once, in November 2020, with a concentration of 0.602 mg/L.

Tables 7 and 8 show that, compared to influent concentrations, treatment from the IPC has reduced iron concentrations. Iron concentrations in each quarterly CCT sample were less than the iron levels reported in the corresponding influent sample. The average iron reduction rate was observed to be 59%.

TDS concentrations were detected above the Fort Edward SPDES Equivalency Permit limit during three of the quarterly sampling events. Specifically, TDS concentrations exceeded the 500 mg/L Fort Edward Equivalency Permit limit in November 2019 (502 mg/L), May 2020 (540 mg/L), and November 2020 (537 mg/L). TSS concentrations were detected above the Fort Edward SPDES Equivalency Permit limit during two quarterly sampling events. Specifically, TSS exceeded the 50 mg/L Fort Edward SPDES Equivalency Permit limit in May 2020 (75.6 mg/L) and November 2020 (803 mg/L). TSS was not detected in the CCT samples collected in November 2019, November 2021, March 2023, October 2023, and December 2023.

The CCT samples were analyzed for TOC during the May, September, and November 2021, December 2023, and March 2024 quarterly sampling events and concentrations ranged from 2.9 mg/L in September 2021 to 13 mg/L in December 2023.

6.2.2.2 Cell 3

Samples from Cell 3 can be collected from two locations; where water discharges into Cell 3 and enters the bypass pipe that connects Cell 3 to Cell 2 (Cell 3 Bypass), or from the Cell 3 level control chamber (Cell 3 Chamber). Prior to installation of the bypass pipe, and prior to the Cell 3 water level reaching the invert of the newly installed bypass pipe, no samples were collected from this location. Therefore, samples from Cell 3 prior to June 2017 were collected from the Cell 3 Chamber. Table 9 shows a summary of the results for PFAS, VOCs, 1,4-dioxane, PCBs, metals, TDS and TSS in the quarterly samples collected from Cell 3 from March 2018 to October 2023. Samples were no longer collected at Cell 3 after October 2023 due to implementation of the treatment system IRM.

Table 9 shows PFOS and PFOA were detected in both of the quarterly Cell 3 samples analyzed for PFAS. PFOS concentrations were 3.91 ng/L in May 2021 and 3.6 J ng/L in September 2022 and PFOA concentrations were 26.2 ng/L in May 2021 and 13 ng/L in September 2022.

VOCs were detected in the March, June, and October 2018, March and November 2019, November 2021, September 2022, and October 2023 quarterly Cell 3 samples. VOCs were not detected in any of the other quarterly samples collected from Cell 3 and no VOCs were reported at concentrations exceeding their

corresponding Fort Edward SPDES Equivalency Permit limit. Total VOC detections ranged from 0.15 J µg/L in October 2018 to 36.58 J µg/L in June 2018.

The quarterly Cell 3 samples were only analyzed for 1,4-dioxane SIM in May 2021 and September 2022. As shown in Table 9, 1,4-dioxane concentrations were 3.8 J µg/L in May 2021 and 2.2 µg/L in September 2022.

PCBs were detected in the March, June, and October 2018, March 2019, September 2021, and October 2023 quarterly Cell 3 samples. PCBs were not detected in any of the other quarterly Cell 3 samples. Aroclors 1016 and 1232 were the only aroclors detected in the quarterly Cell 3 samples. Total PCB detections ranged from 0.0920 J µg/L in October 2023 to 0.82 µg/L in September 2021.

Table 9 shows iron is the only metal to exceed its corresponding Fort Edward SPDES Equivalency Permit limit in the quarterly Cell 3 samples. Iron exceeded the limit in each of the quarterly Cell 3 samples, with the exception of the March 2018, November 2019, and May 2021 samples. Iron exceedances ranged from 0.388 mg/L in May 2020 to 9.6 mg/L in November 2020.

TDS was detected in each of the quarterly samples collected from Cell 3. However, concentrations only met or exceeded the 500 mg/L Fort Edward SPDES Equivalency Permit limit in June 2018, and May and November 2020 with concentrations of 500 mg/L, 539 mg/L, and 813 mg/L, respectively. TSS was detected in the June, September, and October 2018, March 2019, November 2020, September 2021, and June and December 2022 samples but at concentrations less than its 50 mg/L Fort Edward SPDES Equivalency Permit limit. TSS was not detected in any of the other quarterly Cell 3 samples and detections ranged from 2.6 mg/L in June 2022 to 16 mg/L in June 2018.

6.2.2.3 Cell 2

Samples from Cell 2 are collected where Cell 2 discharges into the Cell 2 level control chamber. Water that is discharged from the treatment plant enters Cell 2 from the Cell 2/3 bypass pipe. As indicated in Section 6.2.2.2, water did not start flowing through the Cell 2/3 bypass pipe until June 2017. Table 10 shows a summary of the results for PFAS, VOCs, 1,4-dioxane, PCBs, metals, TDS and TSSs in the quarterly samples collected from Cell 2 from March 2018 to June 2023.

The May 2021 sample was the only quarterly Cell 2 sample analyzed for PFAS. As shown in Table 10, PFOS and PFOA were detected at concentrations of 3.28 ng/L and 20.5 ng/L, respectively.

As shown in Table 10, VOCs were only detected in the March and October 2018 samples, but at concentrations less than their corresponding Fort Edward SPDES Equivalency Permit limit. VOCs were not detected in any of the other 14 quarterly samples collected from Cell 2. Cis-1,2-dichloroethene was the only VOC detected in the March 2018 sample at a concentration of 0.64 J µg/L and chloroform and chloromethane were the only VOCs detected in the October 2018 Cell 2 sample at concentrations of 0.60 µg/L and 0.61 µg/L, respectively.

PCBs were detected in samples collected from Cell 2 in November 2020, September 2021, and March 2023. PCBs were not detected in any of the remaining quarterly Cell 2 samples. Aroclors 1016 and 1232 were the only aroclors detected and the total PCB concentrations ranged from 0.0850 J µg/L in March 2023 to 0.52 µg/L in November 2020.

1,4-Dioxane SIM was detected at a concentration of 2.7 J µg/L in the May 2021 quarterly sample. None of the other quarterly samples collected from Cell 2 were analyzed for 1,4-dioxane SIM.

Table 10 shows iron was the only metal to exceed its corresponding Fort Edward SPDES Equivalency Permit limit in the quarterly Cell 2 samples. Iron exceeded its 0.3 mg/L Fort Edward SPDES Equivalency Permit limit in each of the quarterly Cell 2 samples with exceedances ranging from 0.928 mg/L in November 2019 to 12 mg/L in December 2022.

Lastly, TDS was detected in each of the quarterly samples collected from Cell 2 but at concentrations less than its 500 mg/L Fort Edward SPDES Equivalency Permit limit. TDS concentrations ranged 350 mg/L in March 2019 and March 2023 to 490 mg/L in September 2018. TSS was detected in all the quarterly Cell 2 samples except for the samples collected November 2019, November 2020, May and November 2021, and March and June 2023. TSS detections ranged from 2.8 mg/L in March 2018 and March 2019 to 13 mg/L in June 2018, below the Fort Edward SPDES Equivalency Permit limit of 50 mg/L.

6.2.2.4 Cell 1

Cell 1 has not been used as part of the leachate treatment system since prior to September 2016. Therefore, analytical samples are not collected from this cell on a regular basis. However, due to precipitation events and potential groundwater infiltration into the treatment cell, Cell 1 continues to discharge into collection well EW-5. Table 11 shows a summary of the results for PFAS, VOCs, 1,4-dioxane, PCBs, metals, TDS and TSS in the quarterly samples collected from Cell 1 from March 2018 to June 2023.

The May 2021 sample was the only quarterly Cell 1 sample analyzed for PFAS. As shown in Table 11, PFAS, including PFOS and PFOA, were detected with PFOS concentrations of 2.78 ng/L and PFOA concentrations of 15.2 ng/L.

As shown in Table 11, VOCs were not detected in any of the quarterly samples collected from Cell 1. PCBs were only detected in the May 2021 quarterly sample. Aroclor 1016 was the only aroclor detected in the May 2021 sample at a concentration of 0.23 J µg/L.

Table 11 shows 1,4-dioxane SIM was detected at a concentration of 1.9 J µg/L in the May 2021 quarterly Cell 1 sample. None of the other quarterly samples collected from Cell 1 were analyzed for 1,4-dioxane SIM.

Metals were detected at concentrations greater than their corresponding Fort Edward SPDES Equivalency Permit limit in the Cell 1 quarterly samples, specifically, arsenic, cadmium, cobalt, copper, iron, lead, nickel, vanadium, and zinc. The exceedances are outlined below:

- Arsenic concentrations exceeded the 0.15 mg/L Fort Edward SPDES Equivalency Permit limit in September 2021 with a concentration of 0.165 mg/L.
- Cadmium concentrations exceeded the 0.001 mg/L Fort Edward SPDES Equivalency Permit limit in September 2021 with a concentration of 0.0023 mg/L.
- Cobalt concentrations exceeded the 0.005 mg/L Fort Edward SPDES Equivalency Permit limit in June 2018 and May and September 2021 with concentrations of 0.051 µg/L, 0.021 µg/L, and 0.106 mg/L, respectively.
- Copper concentrations exceeded the 0.024 mg/L Fort Edward SPDES Equivalency Permit limit in September 2021 with a concentration of 0.0848 mg/L.
- Iron concentrations exceeded the 0.3 mg/L Fort Edward SPDES Equivalency Permit limit in seven of the 13 quarterly samples collected from Cell 1, ranging from 0.64 mg/L (March 2018) to 526 mg/L (September 2021).
- Lead concentrations exceeded the 0.0032 mg/L Fort Edward SPDES Equivalency Permit limit in May 2021 (0.0043 J mg/L) and September 2021 (0.0891 mg/L).

- Nickel concentrations exceeded the 0.0096 mg/L Fort Edward SPDES Equivalency Permit limit in five of the 13 quarterly samples collected from Cell 1. Exceedances ranged from 0.015 mg/L (June 2022) to 0.122 mg/L (September 2021).
- Vanadium concentrations exceeded the 0.014 mg/L Fort Edward SPDES Equivalency Permit limit in September 2021 with a concentration of 0.0715 mg/L.
- Zinc concentrations exceeded the 0.17 mg/L Fort Edward SPDES Equivalency Permit limit in June 2018 and May and September 2021 with concentrations of 0.28 mg/L, 0.17 mg/L, and 6.7 mg/L, respectively.

As shown in Table 11, TDS was detected in all of the quarterly samples collected from Cell 1. However, TDS concentrations only exceeded the 500 mg/L Fort Edward SPDES Equivalency Permit limit in October 2018 with a concentration of 560 mg/L. TSS was detected in seven of the 13 quarterly samples, but only exceeded the 50 mg/L Fort Edward SPDES Equivalency Permit limit in the May 2021 and September 2021 with concentrations of 274 mg/L and 591 mg/L, respectively.

6.2.2.5 GAC-801

GAC-801 was installed in November 2023 following the implementation of the IRM as described in section 2.4. Table 12 shows a summary of the results for PFAS, VOCs, 1,4-dioxane, PCBs, metals, and TOC from the quarterly samples collected from GAC-801 in December 2023 and March 2024.

As shown in Table 12, PFOA (1.7 µg/L) was the only PFAS detection in the December 2023 sample and no PFAS was detected in the sample collected from GAC-801 in March 2024. VOCs were not detected in the quarterly sample collected from GAC-801 in December 2023 and acetone (2.6 µg/L), a common laboratory contaminant, was the only VOC detection in the GAC-801 March 2024 sample. Table 12 also shows 1,4-dioxane was detected at a concentration of 1.4 µg/L in the December 2023 sample, but was not detected in the quarterly sample in March 2024. PCBs were not detected in either December 2023 or March 2024. Metals were detected during both sampling events, but iron is the only metal that exceeded its Fort Edward SPDES Equivalency Permit limit, in both the December 2023 and March 2024, with concentrations of 0.64 mg/L and 0.56 mg/L, respectively. Lastly, TOC was detected at concentrations of 7.1 mg/L and 3.1 mg/L in December 2023 and March 2024, respectively.

6.2.2.6 GAC-802

GAC-802 was installed in November 2023 following the implementation of the IRM as described in section 2.4. Table 13 shows a summary of the results for PFAS, VOCs, 1,4-dioxane, PCBs, metals, and TOC in the quarterly samples collected from GAC-802 in December 2023 and March 2024.

As shown in Table 13, PFAS, VOCs, 1,4-dioxane, and PCBs were not detected in the quarterly samples collected from GAC-802 in December 2023 or March 2024. Multiple metals were detected during both sampling events, but only iron exceeded the Fort Edward SPDES Equivalency Permit limit in March 2024 with a concentration of 0.47 mg/L. TOC was detected at concentrations of 4.5 mg/L and 1.7 mg/L in the December 2023 and March 2024 samples, respectively.

6.2.2.7 GAC-803

Similar to GAC-801 and GAC-802, GAC-803 was also installed in November 2023 following the implementation of the IRM. Table 14 provides the results of the quarterly samples collected from GAC-803 in December 2023 and March 2024 for PFAS, VOCs, 1,4-dioxane, PCBs, TOC, and metals.

As shown in Table 14, perfluorobutane sulfonic acid (1.4 µg/L) was the only PFAS compound detected in the December 2023 GAC-803 sample, and no PFAS compounds were detected in the March 2024 sample. No VOCs were detected in the December 2023 sample, and acetone (2.0 J µg/L), a common laboratory contaminant, was the only VOC detected in the March 2024 sample. 1,4-dioxane was not detected in the December 2023 sample, but was detected at a concentration of 2.2 µg/L in March 2024. Similar to the GAC-802 samples, PCBs were not detected in either sample and iron remained the only metal to exceed the Fort Edward SPDES Equivalency Permit limit with concentrations of 0.34 mg/L and 0.48 mg/L in December 2023 and March 2024, respectively. TOC was reported at 3.7 mg/L in December 2023 and 2.2 mg/L in March 2024.

6.2.3 Effluent Samples Analytical Results

6.2.3.1 GAC-804

GAC-804, installed in November 2023, is currently the treatment plant effluent location discharging to the GFFC. Table 15 shows a summary of the results for PFAS, VOCs, 1,4-dioxane, PCBs, metals, TDS, TSS, and TOC in the quarterly samples collected from GAC-804 in December 2023 and March 2024.

As shown in Table 15, perfluorobutane sulfonic acid (1.0 µg/L) was the only PFAS compound detection in either sample. No VOCs, PCBs or TSS were detected in the quarterly samples collected in December 2023 or March 2024. 1,4-Dioxane was not detected in the December 2023 sample and was detected at a concentration of 0.59 µg/L in the March 2024 sample. Iron exceeded the 0.3 mg/L Fort Edward SPDES Equivalency Permit limit in December 2023 with a concentration of 0.38 mg/L. No other metals exceeded their corresponding Fort Edward SPDES Equivalency Permit limits in either December 2023 or March 2024. TDS was detected in both the December 2023 and March 2024 samples at concentrations of 240 mg/L and 340 mg/L, respectively, which did not exceed the 500 mg/L Fort Edward SPDES Equivalency Permit limit. TOC was reported at concentrations of 2.2 mg/L and 1.3 mg/L in the December 2023 and March 2024 samples, respectively.

6.2.3.2 Polishing Pond Effluent

The results for PFAS, VOCs, 1,4-dioxane, PCBs, metals, TDS and TSS in the Polishing Pond effluent samples are provided in Table 16. The Polishing Pond was the effluent location until November 2023.

Table 16 shows PFAS, including PFOS and PFOA, were detected in the May 2021 and September 2022 Polishing Pond effluent samples. The remaining 16 quarterly Polishing Pond effluent samples were not analyzed for PFAS. PFOS and PFOA concentrations were 4.13 ng/L and 24 ng/L in May 2021 and 6.3 ng/L and 18 ng/L in September 2022, respectively.

As shown in Table 16, VOCs were detected in six of the 18 quarterly Polishing Pond Effluent samples but at concentrations less than their corresponding Fort Edward SPDES Equivalency Permit limit. Detected Total VOC concentrations ranged from 0.3 J (June 2018) to 262 (March 2018).

1,4-Dioxane SIM was reported at concentrations of 2.3 J µg/L in May 2021 and 1.4 µg/L in September 2022. None of the other 16 Polishing Pond effluent samples were analyzed for 1,4-dioxane SIM.

PCBs, specifically aroclor 1232, was detected in two of the 18 quarterly Polishing Pond effluent samples at concentrations of 1.3 µg/L and 0.63 µg/L in the November 2020 and September 2021, respectively.

Table 16 shows multiple metal detections, but iron was the only metal to exceed its corresponding Fort Edward SPDES Equivalency Permit limit in the quarterly Polishing Pond effluent samples. Iron was detected at concentrations greater than 0.3 mg/L in each of the quarterly Polishing Pond effluent samples. Iron exceedances ranged from 0.55 mg/L (March 2018) to 6.6 mg/L (October 2023).

Lastly, TDS was detected in each of the Polishing Pond effluent quarterly samples it was sampled for (TDS and TSS were not analyzed for in September 2022) but at concentrations less than the 500 mg/L Fort Edward SPDES Equivalency Permit limit. TDS concentrations ranged from 260 mg/L (March 2019) to 450 mg/L (March 2018). TSS was detected in 13 Polishing Pond effluent samples, but only exceeded the 50 mg/L Fort Edward SPDES Equivalency Permit limit in October 2023 with a concentration of 110 mg/L.

7 Semi-Annual Groundwater and System Sampling

Groundwater, surface water, sediment, and soil monitoring was conducted in May 2021 and September 2022 in accordance with the five-quarter sampling frequency defined in the site SMP (HRP 2015a). Soil monitoring was dropped from the sampling program during the November/December 2023 monitoring event in consultation with the NYSDEC. The data were provided to the NYSDEC in three annual Groundwater Monitoring Reports (Arcadis 2021, 2022c, 2023b). The tables and figures from the three Groundwater Monitoring Reports are provided in Appendices B, C, and D.

7.1 Groundwater and System Sampling

During the three sampling events, 22 MWs (MW-1, MW-1A, MW-1D, MW-2, MW-2A, MW-5, MW-6, MW-6A, MW-6B, MW-7, MW-8, MW-9, MW-11, MW-12A, MW-12B, MW-13A, MW-13B, MW-14A, MW-14B, MW-15, MW-16, and MW-17), three EWs (EW-1 through EW-3), and leachate collection well EW-4 (Appendix B – Figure B2) were sampled. The next scheduled groundwater sampling event will be in First Quarter 2025.

Prior to sampling each well, a depth-to-water measurement is taken using an electronic water level indicator. Appendix B – Table B1, Appendix C – Table C1, and Appendix D – Table D1 summarize the depths to groundwater measured during the three sampling events. Potentiometric contours based on groundwater levels in 2021, 2022, and 2023 measured in MWs screened in the shallow deltaic sand unit (listed in Section 2) are presented on Appendix B – Figure B2, Appendix C – Figure C2, and Appendix D – Figure D2, respectively. As shown on these figures, the direction of groundwater flow is generally toward the east-southeast, consistent with previous measurements. The May 2021, September 2022, and November and December 2023 groundwater sampling results are outlined below.

Each MW was sampled in accordance with USEPA low-flow groundwater sampling techniques, using either a bladder pump or a peristaltic pump, each with single-use disposable tubing. Prior to use at each MW, the bladder pump was decontaminated in an Alconox bath followed by a perfluorinated compound-free water rinse. Grab samples were collected at each EW and the leachate collection well using dedicated polyvinyl chloride disposable bailers.

Prior to sampling, groundwater was pumped through a flow cell equipped with a multi-parameter probe (e.g., YSI®) and temperature, conductivity, pH, turbidity, dissolved oxygen, and oxidation-reduction potential measurements were recorded on groundwater sampling purge logs. All groundwater samples were collected in laboratory-provided containers in decreasing order of volatility. Samples were packed on ice, placed in coolers, and submitted under chain-of-custody procedures to Con-Test for analysis of PFAS, Target Compound List VOCs, Target Analyte List metals and mercury, PCBs, TDS, and TSS.

7.1.1 Per- and Polyfluoroalkyl Substances

2021

The May 2021 analytical data for PFAS is summarized in Appendix B – Table B7. As shown in Table B7, perfluorohexanoic acid, perfluorobutanoic acid, perfluoropentanoic acid, perfluoroheptanoic acid, and 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2) were reported at concentrations exceeding their respective then-

current NYSDEC SGVs, and PFOA and PFOS were reported at levels greater than their respective NYSDEC SGVs and/or USEPA Lifetime Health Advisory limit in May 2021. The exceedances are outlined below:

- Perfluorohexanoic acid concentrations exceeded the then-current NYSDEC SGV of 100 ng/L at MW-5 (103 ng/L) and EW-1 (401 ng/L).
- Perfluorobutanoic acid concentrations exceeded the then-current NYSDEC SGV of 100 ng/L at EW-1 (131 ng/L).
- Perfluoropentanoic acid concentrations exceeded the then-current NYSDEC SGV of 100 ng/L at MW-16 (134 ng/L) and EW-1 (226 ng/L).
- Perfluoroheptanoic acid concentrations exceeded the then-current NYSDEC SGV of 100 ng/L at EW-1 (150 ng/L).
- 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2) concentrations exceeded the then-current NYSDEC SGV of 100 ng/L at MW-16 (881 ng/L).
- PFOA concentrations exceeded the then-current NYSDEC SGV of 10 ng/L at eight MWs (MW-1, MW-2, MW-5, MW-6A, MW-9, MW-12A, MW-12B, and MW-16), all three EWs (EW-1, EW-2, and EW-3), and the leachate collection well (EW-4). PFOA levels also exceeded the USEPA Lifetime Health Advisory limit of 70 ng/L at MW-5 (141 ng/L) and EW-1 (1,140 ng/L). Exceedances ranged from 10.4 ng/L at MW-1 to 1,140 ng/L at EW-1.
- PFOS concentrations exceeded the then-current NYSDEC SGV of 10 ng/L at five MWs (MW-2, MW-5, MW-6, MW-12A, and MW-16) and all three leachate EWs (EW-1, EW-2, and EW-3). PFOS levels also exceeded the USEPA Lifetime Health Advisory limit of 70 ng/L at MW-5 (80.7 ng/L). Exceedances ranged from 11.2 ng/L at MW-6 to 80.7 ng/L at MW-5.
- Total PFOA and PFOS concentrations exceeded the then-current NYSDEC SGV of 10 ng/L at nine MWs (MW-1, MW-2, MW-5, MW-6, MW-6A, MW-9, MW-12A, MW-12B, and MW-16), all three EWs (EW-1, EW-2, and EW-3), and the leachate collection well (EW-4). Total PFOA and PFOS levels also exceeded the USEPA Lifetime Health Advisory limit of 70 ng/L at three MWs (MW-5, MW-12A, and MW-16) and two EWs (EW-1 and EW-2). Exceedances ranged from 15.71 ng/L at MW-1 to 1,200.5 ng/L at EW-1.

2022

The September 2022 analytical data for PFAS is summarized in Appendix C – Table C6. As shown in Table C6, PFOA and PFOS were reported at concentrations exceeding their respective NYSDEC Guidance Values for Human Health during the 2022 sampling event. Details of the exceedances are described below:

- PFOA exceeded the NYSDEC Guidance Value for Human Health of 6.7 ng/L at 12 MWs (MW-1, MW-2, MW-5, MW-6, MW-6A, MW-7, MW-9, MW-12A, MW-12B, MW-15, MW-16, and EXMW-34), all three EWs (EW-1, EW-2, and EW-3), and the leachate collection well (EW-4). Exceedances ranged from 7.6 J ng/L at MW-7 to 120 ng/L at MW-5.
- PFOS exceeded the NYSDEC Guidance Value for Human Health of 2.7 ng/L at eight MWs (MW-1, MW-2, MW-5, MW-6, MW-6A, MW-9, MW-12A, and MW-12B), all three EWs (EW-1, EW-2, and EW-3), and the leachate collection well (EW-4). Exceedances ranged from 2.9 J ng/L at EW-1 to 60 ng/L at MW-5.

2023

The November and December 2023 analytical data for PFAS is summarized in Appendix D – Table D6. As shown in Table D6, PFOA and PFOS were detected at concentrations exceeding their respective NYSDEC Guidance Values for Human Health during the 2023 sampling event. Details of the exceedances are described below:

- PFOA exceeded the NYSDEC Guidance Value for Human Health of 6.7 ng/L at 11 MWs (MW-1, MW-2, MW-5, MW-6, MW-6A, MW-9, MW-12A, MW-12B, MW-15, MW-16, and EXMW-34), all three EWs (EW-1, EW-2, and EW-3), and the leachate collection well (EW-4). Exceedances ranged from 7.2 ng/L at EW-4 to 1,000 ng/L at EW-1.
- PFOS exceeded the NYSDEC Guidance Value for Human Health of 2.7 ng/L at eight MWs (MW-1, MW-2, MW-5, MW-6, MW-6A, MW-12A, MW-12B, MW-16), all three EWs (EW-1, EW-2, and EW-3), and the leachate collection well (EW-4). Exceedances ranged from 5.3 ng/L at MW-6 to 52 ng/L at MW-5 during the 2023 sampling event.

7.1.2 Volatile Organic Compounds

2021

The May 2021 analytical data for VOCs are summarized in Appendix B – Table B2 and on Figure Appendix B – Figure B3. VOCs were detected at concentrations greater than the NYSDEC Class GA Standards in four downgradient MWs (MW-5, MW-12A, MW-12B, and MW-17), one cross-gradient MW (MW-6), and in all three EWs (EW-1, EW-2, and EW-3), as summarized below:

- Acetone (140 µg/L) and vinyl chloride (320 µg/L) in the sample from MW-5;
- Benzene (1.8 µg/L) and chlorobenzene (14 µg/L) in the sample from MW-6;
- Benzene (1.3 J µg/L) in the sample from MW-12A;
- Benzene (1.1 J µg/L) in the sample from MW-12B;
- Ethylbenzene (33 µg/L) and isopropylbenzene (9.0 J µg/L) in the sample from MW-17;
- Benzene (9.7 J µg/L), chlorobenzene (12 µg/L), cis-1,2-dichloroethene (390 µg/L), toluene (13 µg/L), vinyl chloride (560 µg/L), and total xylenes (25 µg/L) in the sample from EW-1;
- Benzene (3.4 µg/L) in the sample from EW-2; and
- Benzene (2.4 µg/L), chlorobenzene (19 µg/L), and 1,4-dichlorobenzene (5.4 µg/L) in the sample from EW-3.

2022

The September 2022 analytical data for VOCs are summarized in Appendix C – Table C2 and on Appendix C – Figure C3. VOCs were detected at concentrations greater than the NYSDEC Class GA Standards at three downgradient MWs (MW-5, MW-12A, and MW-12B), two cross-gradient MWs (MW-6 and MW-6A), and at all three EWs (EW-1, EW-2, and EW-3), as summarized below:

- Benzene (2.7 µg/L), chlorobenzene (6.1 µg/L), vinyl chloride (210 µg/L), and total xylenes (5.8 µg/L) in the sample from MW-5;
- Benzene (2.6 µg/L) and chlorobenzene (15 µg/L) in the sample from MW-6;
- 1,3-Dichlorobenzene (3.2 µg/L) and 1,4-dichlorobenzene (3.5 µg/L) in the sample from MW-6A;

- Benzene (1.9 µg/L) in the sample from MW-12A;
- Benzene (3.2 µg/L) in the sample from MW-12B;
- Cis-1,2-dichloroethene (450 µg/L) and vinyl chloride (2,300 µg/L) in the sample from EW-1;
- Benzene (1.3 J µg/L) in the sample from EW-2; and
- Acetone (51 µg/L), benzene (2.8 µg/L), chlorobenzene (20 µg/L), 1,4-dichlorobenzene (5.0 µg/L), and 1,4-dioxane (42 J µg/L), in the sample from EW-3.

2023

The November and December 2023 analytical data for VOCs are summarized in Appendix D – Table D2. VOCs were detected at concentrations greater than the NYSDEC Class GA Standards at three downgradient MWs (MW-5, MW-12A, and MW-12B), two cross-gradient MWs (MW-6 and MW-6A), and at all three EWs (EW-1, EW-2, and EW-3), as summarized below:

- Chlorobenzene (5.9 J µg/L) and vinyl chloride (190 µg/L) in the sample from MW-05;
- Benzene (2.0 µg/L) and chlorobenzene (12 µg/L) in the sample from MW-06;
- 1,3-Dichlorobenzene (3.6 µg/L) and 1,4-dichlorobenzene (4.5 µg/L) in the sample from MW-06A;
- 1,4-Dioxane (43 J µg/L) in the sample from MW-012A;
- 1,4-Dioxane (75 µg/L) and benzene (2.9 µg/L) in the sample from MW-012B;
- 1,4-Dioxane (70 µg/L) and benzene (2.6 µg/L) in the duplicate sample from MW-012B;
- 2-Butanone (93 J µg/L), acetone (78 J µg/L), benzene (12 J µg/L), chlorobenzene (9.5 J µg/L), cis-1,2-dichloroethene (340 µg/L), toluene (22 J µg/L), and vinyl chloride (840 µg/L) in the sample from EW-1;
- Benzene (3.4 µg/L) in the sample from EW-2; and
- 1,4-Dichlorobenzene (3.9 µg/L), benzene (2.4 µg/L), and chlorobenzene (16 µg/L) in the sample from EW-3.

Total VOC concentrations in groundwater samples collected from May 1995 to November and December 2023 are presented in Appendix D – Table D3. As shown in Table D3, the total VOC concentrations at upgradient MWs (MW-1, MW-1A, MW-1D, and MW-8) have generally decreased or remained at low or non-detectable levels from 2010 through 2023, with the exception of the 2016 sample from MW-1A (451 µg/L). No VOCs were detected at MW-1 and MW-1A during the May 2021, September 2022, or December and November 2023 sampling events, and VOCs have not been detected since 2004 for MW-1 (2.0 µg/L) and since 2016 for MW-1A (451 µg/L). The 2016 result for MW-1A may be anomalous because no VOCs have been detected at MW-1A since 2016, and prior to 2016, the maximum concentration of total VOCs in MW-1A was 11.0 µg/L in 1995. VOCs were detected in the groundwater from MW-1D and MW-8 at low concentrations of 2.0 µg/L and 0.21 µg/L, respectively, during the 2023 sampling event. As shown in Table D3, VOCs were not detected at MW-1D or MW-8 during the 2021 or 2022 sampling events and, prior to 2023, had not been detected since 2015 for MW-1D (1.1 µg/L) and 2013 for MW-8 (4.4 µg/L).

As shown in Appendix D – Table D3, the total VOC concentrations at cross-gradient MWs (MW-2, MW-2A, MW-6, MW-6A, MW-6B, and MW-7) have been generally consistent since 2007, with the exception of MW-6B. Total VOCs were 23.3 µg/L in the sample collected from MW-6B in 2022. However, VOCs were not detected at MW-6B during the 2021 or 2023 sampling events, and prior to 2022, had not been detected since 2004 (4.0 µg/L) and 2015 (0.94 µg/L). VOCs were not detected in samples collected from MW-2 and MW-2A in 2021, 2022, or 2023 and have not been detected since 2004 (5.0 µg/L) and 2011 (6.7 µg/L) for MW-2 and 2004 (4.0 µg/L) and 2017

(0.28 µg/L estimated) for MW-2A. At MW-6A, VOC concentrations increased from 8.0 µg/L to 67.7 µg/L between 2007 and 2011 but decreased to 12.71 µg/L in May 2021, non-detectable levels in September 2022, and 17.76 µg/L in November 2023. At MW-7, VOCs were reported at low concentrations of 0.37 µg/L and 0.23 µg/L in 2022 and 2023, respectively, and were not detected during the 2021 sampling event. VOC levels at MW-7 have not risen above 5.0 µg/L since 1999, with the exception of in 2011, when VOCs were detected at 11 µg/L. MW-6 total VOC concentrations have remained relatively constant between 2007 and 2012 (at approximately 23 µg/L) but increased slightly to 40.75 µg/L in 2015 and then decreased to 19 µg/L in 2021 and 15.94 µg/L in 2022. The 2023 MW-6 total VOC result (20.14 µg/L) slightly increased from the concentrations reported in 2021 (19 µg/L) and 2022 (15.94 µg/L) but remained below all other concentrations reported at MW-6 since October 2008 (23 µg/L).

As shown in Appendix D – Table D3, the total VOC concentrations at downgradient MWs (MW-5, MW-9, and MW-11) have been generally consistent since 2007. The remaining downgradient MWs (MW-12A, MW-12B, MW-13A, MW-13B, MW-14A, MW-14B, MW-15, MW-16, and MW-17) were installed in 2021, and VOC concentrations at these wells have fluctuated since their installation. At MW-5, VOC concentrations have increased from 8,641 µg/L to 50,271 µg/L between 1995 and 2001 but have since exhibited a decreasing trend, with the exception of the January 2015 result (1,858 µg/L). This decreasing trend continued in the 2021, 2022, and 2023 sampling events. As shown in Table D3, total VOC concentrations at MW-5 decreased to 461.6 µg/L in May 2021 and continued decreasing to 238.88 µg/L in 2022 and 195.9 µg/L in 2023. VOCs were not detected in the samples from MW-9, MW-13A, MW-13B, MW-14A, MW-14B, or MW-15 in the 2021, 2022, or 2023 sampling events. VOCs have not been detected at MW-9 since 2004 (4.0 µg/L) and 2017 (5.2 µg/L). VOCs were also not detected at MW-11 in 2021. MW-11 was not sampled in 2022 or 2023 because it was dry during the September 2022 and November 2023 sampling events. Total VOCs were detected at a low concentration of 0.65 µg/L at MW-16 in September 2022 but were not detected in May 2021 and November 2023. As shown in Table D3, VOCs were detected at MW-12A and MW-12B in 2021, 2022, and 2023. Total VOC concentrations at MW-12A and MW-12B decreased from 2021 to 2022 and then increased during the 2023 sampling event. At MW-12A, total VOC concentrations decreased from 9.07 µg/L in 2021 to 4.45 µg/L in 2022 and then increased to 45.12 µg/L in November 2023. At MW-12B, total VOC concentrations decreased from 7.0 µg/L in 2021 to 4.53 µg/L in 2022 and then increased to 82.78 µg/L in November 2023. VOCs were detected at MW-17 in 2021, 2022, and 2023; however, total VOC concentrations decreased from the 2021 to 2023 sampling events. Total VOCs were reported at 442 µg/L in May 2021 and declined significantly to 5.23 µg/L in November 2023.

As shown in Appendix D – Table D3, total VOC concentrations at EW-1 through EW-3 have generally increased since 2013, but VOCs levels at EW-2 have been decreasing since 2017 (72.4 µg/L). EWs were not in operation in 2016 and were brought back online in May 2017 intermittently. The decreasing trend at EW-2 continued in 2021 and 2022, and total VOC concentrations decreased to 15.21 µg/L in 2021 and 8.28 µg/L in 2022. However, the total VOC concentration at EW-2 increased to 13.5 µg/L in 2023 but remained below the concentrations reported in 2017 (72.37 µg/L), 2018 (65.59 µg/L), and 2021 (15.21 µg/L). Total VOC concentrations at EW-1 were 1,054.7 µg/L, 2,750 µg/L, and 1,395 µg/L during the 2021, 2022, and 2023 sampling events, respectively. Total VOC concentrations at EW-3 were 36.66 µg/L, 123.31 µg/L, and 37.04 µg/L during the 2021, 2022, and 2023 sampling events, respectively.

As shown in Appendix D – Table D3, VOCs were detected at a low concentration of 1.01 µg/L at leachate collection well EW-4 during the September 2022 sampling event but were not detected in May 2021 or December 2023. Prior to 2021, EW-4 had not been analyzed for VOCs since 2017. The September 2022 total VOCs result at EW-4 (1.01 µg/L) was less than both of the previous VOC detections reported in August 2017 (3.99 µg/L) and in October 2013 (1.2 µg/L).

7.1.3 1,4-Dioxane

2021

The May 2021 analytical data for 1,4-dioxane is summarized in Appendix B – Table B7. As shown in Table B7, 1,4 dioxane was reported at concentrations exceeding the then-current NYSDEC SGV of 1.0 µg/L in the samples collected from six MWs (MW-5, MW-6, MW-6A, MW-9, MW-12A, and MW-12B), all three EWs (EW-1, EW-2, and EW-3), and the leachate collection well (EW-4) during the 2021 sampling event. Exceedances ranged from 1.5 µg/L at MW-9 to 130 µg/L at EW-1. With the exception of the exceedances reported at MW-6 and MW-6A, all 1,4-dioxane exceedances reported in May 2021 decreased in September 2022.

2022 and 2023

The September 2022 and November and December 2023 analytical data for 1,4-dioxane are summarized in Appendix C – Table C6 and Appendix D – Table D6, respectively. 1,4-Dioxane exceeded the 0.35 µg/L NYSDEC Guidance Value for Human Health at MW-5, MW-6, MW-6A, MW-9, MW-12A, MW-12B, MW-16, and EXMW-34, all three EWs (EW-1, EW-2, and EW-3), and the leachate collection well (EW-4) during the 2022 and 2023 sampling events. As shown in Tables C6 and D6, exceedances ranged from 1.0 µg/L at MW-16 to 96 µg/L at MW-12B in 2022 and 0.37 µg/L at EW-4 to 110 µg/L at EW-1 in 2023. With the exception of the exceedances reported at EXMW-34 and EW-1, all 1,4-dioxane exceedances decreased from the 2022 sampling event to the 2023 sampling event.

7.1.4 Polychlorinated Biphenyls

2021

The May 2021 analytical data for PCBs is summarized in Appendix B – Table B4 and on Appendix B – Figure B3. PCBs were detected at concentrations greater than the NYSDEC Class GA Standards in the groundwater sampled from cross-gradient MW-6, all three EWs (EW-1, EW-2, and EW-3), and the leachate collection well (EW-4). Aroclor 1232 was detected at MW-6 (0.79 µg/L), EW-3 (1.9 µg/L), and EW-4 (1.1 µg/L), and Aroclor 1016 was detected at EW-1 (8,600 µg/L) and EW-2 (0.3 J µg/L), exceeding the NYSDEC Class GA Standard of 0.09 µg/L for total PCBs. No other PCB detections or exceedances were reported during the 2021 sampling event.

2022

The September 2022 analytical data for PCBs is summarized in Appendix C – Table C4 and on Appendix C – Figure C3. Aroclor 1016 was detected at EW-1 (1,300 µg/L) and leachate collection well EW-4 (0.3 µg/L), exceeding the NYSDEC Class GA Standard of 0.09 µg/L for total PCBs. No other PCB detections or exceedances were reported during the 2022 sampling event.

2023

The November and December 2023 analytical data for PCBs is summarized in Appendix D – Table D4. Similar to the September 2022 sampling event, Aroclor 1016 was detected at EW-1 (173 µg/L) and leachate collection well EW-4 (0.31 µg/L), exceeding the NYSDEC Class GA Standard of 0.09 µg/L for total PCBs. No other PCB detections or exceedances were reported during the 2023 sampling event.

As shown in Appendix B – Table B4, Aroclors 1232 and 1016 were the only PCBs to exceed Class GA standards and the only PCBs detected in 2021. As shown in Appendix C – Table C4 and Appendix D – Table D4,

respectively, Aroclor 1016 was the only PCB to exceed Class GA standards and the only PCB detected during the 2022 and 2023 sampling events. As shown in Tables B4, C4, and D4, all PCB exceedances reported in 2021, 2022, and 2023 were within the historical range of results at each respective location, except for the 2021 PCB result at EW-1 (8,600 µg/L). However, PCBs at EW-1 declined significantly during both the 2022 (1,300 µg/L) and 2023 (173 µg/L) sampling events. As shown in Tables B4, C4 and D4, PCBs were detected at MW-6 and EW-2 and EW-3 in 2021 but were not detected at these locations in 2022 and 2023. PCBs were reported at EW-1 and EW-4 in the 2021, 2022, and 2023 sampling events. However, as shown in Tables B4 and D4, PCB concentrations at EW-1 decreased by an order of magnitude from 2021 (8,600 µg/L) to 2023 (173 µg/L), and the December 2023 PCB result at EW-1 (173 µg/L) was the lowest concentration reported at that well since 2010 (49 µg/L). The September 2022 and December 2023 total PCBs results at EW-4 (0.30 µg/L and 0.31 µg/L, respectively) were lower than all historical concentrations reported at that well, except for the 2018 PCB result (0.28 µg/L), and the May 2021 result was lower than all historical PCB results, except for the 2017 (0.68 µg/L) and 2018 (0.28 µg/L) concentrations.

As shown in Appendix B – Table B4, Appendix C – Table C4, and Appendix D – Table D4 , respectively, PCBs were not detected in any of the samples collected from the groundwater MWs during the 2022 or 2023 sampling events, and Aroclor 1232, which was detected at MW-6 (0.79 µg/L), was the only PCB detection at a groundwater MW in 2021. However, as shown in Table D3, PCBs have historically been detected in both upgradient and downgradient groundwater samples since 2012. The absence of PCBs in the 2022 and 2023 samples and the reduced presence of PCBs in the 2021 samples may be explained by differences in groundwater sampling techniques. In 2016, groundwater samples were collected by purging multiple well volumes using an electric submersible sample pump prior to sample collection. The 2021, 2022, and 2023 groundwater sampling was performed in accordance with USEPA low-flow sampling techniques. This method limits drawdown and disturbance in the well during purging and sampling. Therefore, the higher concentrations of PCBs may correspond to sampling events where more aggressive purging techniques were used, which could mobilize PCBs that were entrained (particulates/soil) in the sand pack of the MW and/or the surrounding formation.

7.1.5 Metals

2021

Metals data for the 2021 groundwater sampling event are summarized in Appendix B – Table B5. Iron, magnesium, manganese, and sodium were detected at concentrations exceeding their respective NYSDEC Class GA Standards during the May 2021 sampling event. The exceedances are outlined below:

- Iron concentrations at 12 groundwater MWs (MW-2, MW-2A, MW-6, MW-6A, MW-6B, MW-7, MW-9, MW-12A, MW-12B, MW-13A, MW-14B, and MW-17), all three EWs (EW-1, EW-2, and EW-3), and the leachate collection well (EW-4) exceeded the NYSDEC Class GA Standard of 0.3 mg/L for iron. Exceedances ranged from 0.457 mg/L at MW-13A to 146 mg/L at MW-7.
- Magnesium concentrations at seven groundwater MWs (MW-6A, MW-9, MW-12A, MW-12B, MW-15, MW-16, and MW-17) and all three leachate EWs (EW-1, EW-2, and EW-3) exceeded the NYSDEC Class GA Standard of 35 mg/L for magnesium. Exceedances ranged from 37 mg/L at EW-3 to 142 mg/L at MW-9.
- Manganese concentrations at eight groundwater MWs (MW-2, MW-2A, MW-6, MW-6A, MW-7, MW-12A, MW-12B, and MW-16), two EWs (EW-1 and EW-2), and the leachate collection well (EW-4) exceeded the NYSDEC Class GA Standard of 0.3 mg/L for manganese. Exceedances ranged from 0.304 mg/L at MW-2A to 2.94 mg/L at MW-7.

- Sodium concentrations at 16 groundwater MWs (MW-1, MW-1A, MW-1D, MW-2A, MW-6A, MW-6B, MW-9, MW-12A, MW-12B, MW-13A, MW-13B, MW-14A, MW-14B, MW-15, MW-16, and MW- 17), all three EWs (EW-1, EW-2, and EW-3), and the leachate collection well (EW-4) exceeded the NYSDEC Class GA Standard of 20 mg/L for sodium. Exceedances ranged from 20 mg/L at MW-1A to 234 mg/L at EW-1.

2022

Metals data for the 2022 groundwater sampling event are summarized in Appendix C – Table C5. Antimony, iron, magnesium, manganese, and sodium were detected at concentrations exceeding their respective NYSDEC Class GA Standards during the September 2022 sampling event. The exceedances are outlined below:

- Antimony concentrations at seven groundwater MWs (MW-1, MW-2A, MW-5, MW-6, MW-6A, MW-7, and MW-8), all three EWs (EW-1, EW-2, and EW-3), and the leachate collection well (EW-4) exceeded the NYSDEC Class GA Standard of 0.003 mg/L for antimony. Exceedances ranged from 0.0098 J mg/L at MW-8 to 0.034 J mg/L at MW-6.
- Iron concentrations at 15 groundwater MWs (MW-1D, MW-2, MW-2A, MW-5, MW-6, MW-6A, MW-6B, MW-7, MW-9, MW-12A, MW-12B, MW-13A, MW-14B, MW-17, and EXMW-34), all three EWs (EW-1, EW-2, and EW-3), and the leachate collection well (EW-4) exceeded the NYSDEC Class GA Standard of 0.3 mg/L for iron. Exceedances ranged from 0.41 mg/L at MW-13A to 130 mg/L at EW-3.
- Magnesium concentrations at eight groundwater MWs (MW-5, MW-6A, MW-9, MW-12A, MW-12B, MW-15, MW-16, and MW-17) and all three EWs (EW-1, EW-2, and EW-3) exceeded the NYSDEC Class GA Standard of 35 mg/L for magnesium. Exceedances ranged from 37 mg/L at EW-3 to 130 mg/L at MW-9.
- Manganese concentrations at eight groundwater MWs (MW-5, MW-6, MW-6A, MW-7, MW-12A, MW-12B, MW-16, and EXMW-34), two leachate EWs (EW-1 and EW-2), and the leachate collection well (EW-4) exceeded the NYSDEC Class GA Standard of 0.3 mg/L for manganese. Exceedances ranged from 0.32 mg/L at EXMW-34 to 2.1 mg/L at MW-7.
- Sodium concentrations at 19 groundwater MWs (MW-1, MW-1A, MW-1D, MW-2, MW-2A, MW-5, MW-6A, MW-6B, MW-9, MW-12A, MW-12B, MW-13A, MW-13B, MW-14A, MW-14B, MW-15, MW-16, MW-17, and EXMW-34), all three EWs (EW-1, EW-2, and EW-3), and the leachate collection well (EW-4) exceeded the NYSDEC Class GA Standard of 20 mg/L for sodium. Exceedances ranged from 21 mg/L in the duplicate sample of MW-1A to 220 mg/L at MW-5.

2023

Metals data for the 2023 groundwater sampling event are summarized in Appendix D – Table D5. Arsenic, barium, iron, magnesium, manganese, and sodium were detected at concentrations exceeding their respective NYSDEC Class GA Standards during the November and December 2023 sampling event. The exceedances are outlined below:

- Arsenic concentrations at leachate EW-2 (0.072 mg/L) and EW-3 (0.10 mg/L) exceeded the NYSDEC Class GA Standard of 0.025 mg/L for arsenic.
- Barium concentrations at leachate EW-3 (1.7 mg/L) exceeded the NYSDEC Class GA Standard of 1 mg/L for barium.
- Iron concentrations at 15 groundwater MWs (MW-2, MW-2A, MW-5, MW-6, MW-6A, MW-6B, MW-7, MW-9, MW-12A, MW-12B, MW-13B, MW-14A, MW-14B, MW-17, and EXMW-34), all three EWs (EW-1, EW-2, and

EW-3), and the leachate collection well (EW-4) exceeded the NYSDEC Class GA Standard of 0.3 mg/L for iron. Exceedances ranged from 0.31 mg/L at MW-6B to 370 mg/L at EW-3.

- Magnesium concentrations at eight groundwater MWs (MW-5, MW-6A, MW-9, MW-12A, MW-12B, MW-15, MW-16, and MW-17) and all three EWs (EW-1, EW-2, and EW-3) exceeded the NYSDEC Class GA Standard of 35 mg/L for magnesium. Exceedances ranged from 36 mg/L at EW-3 to 110 mg/L at MW-9.
- Manganese concentrations at nine groundwater MWs (MW-2, MW-5, MW-6, MW-6A, MW-7, MW-12A, MW-12B, MW-16, and EXMW-34), all three EWs (EW-1, EW-2, and EW-3), and the leachate collection well (EW-4) exceeded the NYSDEC Class GA Standard of 0.3 mg/L for manganese. Exceedances ranged from 0.38 mg/L at EW-3 to 2.1 mg/L at MW-12A.
- Sodium concentrations at 19 groundwater MWs (MW-1, MW-1A, MW-1D, MW-2, MW-2A, MW-5, MW-6A, MW-6B, MW-9, MW-12A, MW-12B, MW-13A, MW-13B, MW-14A, MW-14B, MW-15, MW-16, MW-17, and EXMW-34), all three EWs (EW-1, EW-2, and EW-3), and the leachate collection well (EW-4) exceeded the NYSDEC Class GA Standard of 20 mg/L for sodium. Exceedances ranged from 22 mg/L at MW-1A to 200 mg/L at EW-1.

As shown in Appendix B – Table B5, Appendix C – Table C5, and Appendix D – Table D5, respectively, iron, magnesium, manganese, and sodium were detected at concentrations exceeding their respective NYSDEC Class GA standards during the May 2021, September 2022, and November and December 2023 sampling events. Antimony was reported at levels exceeding its NYSDEC Class GA standard during the 2022 sampling event but not in the 2021 or 2023 sampling events. Arsenic and barium were reported at levels greater than their respective Class GA standards in 2023 but not in 2021 or 2022.

Historical data trends for iron are summarized in Appendix D – Table D3. As shown on Appendix B – Figure B7, iron concentrations in samples from upgradient MWs have generally been decreasing since 2007. With the exception of the sample from MW-1D (3.2 mg/L) in 2022, the concentrations of iron in all upgradient MWs (MW-1, MW-1A, MW-1D, and MW-8) remained below the NYSDEC Class GA Standard for iron during the 2021, 2022, and 2023 sampling events. The iron results at the cross-gradient MWs (MW-2, MW-2A, MW-6, MW-6A, MW-6B, and MW-7), EWs (EW-1, EW-2, and EW-3), and leachate collection well (EW-4) exceeded the NYSDEC Class GA Standard during the 2021, 2022, and 2023 sampling events. Iron concentrations in the samples from downgradient MWs (MW-9, MW-12A, MW-12B, MW-14B, and MW-17) were greater than the NYSDEC Class GA Standard for iron in 2021, 2022, and 2023. Downgradient MW-5 and EXMW-34 exceeded the Class GA Standard for iron in 2022 and 2023 and were not sampled in 2021. The iron results at downgradient MW-13B and MW-14A exceeded the NYSDEC Class GA Standard for iron in 2023 but not in 2021 or 2022. Iron at downgradient MW-13A was reported at levels greater than the NYSDEC Class GA Standard for iron in 2021 and 2022 but not in 2023. Iron concentrations at downgradient MW-15 and MW-16 did not exceed the NYSDEC Class GA standard for iron in 2021, 2022, or 2023. Iron levels at MW-11 were also not reported at concentrations greater than the NYSDEC Class GA Standard for iron in May 2021, and it was not sampled in 2022 or 2023.

7.1.6 General Chemistry

The May 2021 analytical data for TDS and TSS is summarized in Appendix B – Table B6. As shown in Table B6, TDS concentrations ranged from 121 mg/L (MW-1A duplicate) to 1,510 mg/L (EW-1), and TSS concentrations ranged from non-detect (MW-1, MW-1A, MW-1D, MW-8, MW-9, MW-14A, MW-14B, and MW-15) to 85.2 mg/L (MW-7) in May 2021. In general, the lowest concentrations of TDS and TSS were reported in samples from the upgradient monitoring locations, and the highest concentrations were reported in samples from the downgradient monitoring locations. TDS

concentrations ranged from 300 mg/L (EW-4) to 1,300 mg/L (EW-1), and TSS concentrations ranged from 11 mg/L (EW-4) to 470 mg/L (EW-3) in the leachate sampled from EW-1, EW-2, EW-3, and collection well EW-4 in December 2023. TDS and TSS were not analyzed during the September 2022 sampling event.

7.2 Surface Water and Sediment Sampling

Surface water and sediment samples were collected in accordance with the SMP (HRP 2015a). In 2021 and 2022, six collocated surface water and sediment samples were collected at the following locations: Unnamed Pond, Polishing Pond Influent, Polishing Pond Effluent, and three locations within the GFFC (GFFC1, GFFC2, and GFFC3). In 2023, seven collocated surface water and sediment samples were collected at the following locations: Unnamed Pond 1 and 2, three locations within the GFFC (GFFC1, GFFC2, and GFFC3), and two locations with the Champlain Canal (CC) (CC1 and CC2). For all sampling events, surface water samples were analyzed for VOCs, PCBs, metals, PFAS, and 1,4-dioxane. Sediment samples were analyzed for VOCs, PCBs, metals, and PFAS.

7.2.1 Surface Water Sampling Results

Surface water sample analytical results are discussed below and are summarized in Appendix B – Tables B7 through B11.

Prior to collecting surface water samples, pH, conductivity, turbidity, dissolved oxygen, temperature, and oxidation-reduction potential were measured using a water quality meter and recorded on surface water sampling logs. Surface water samples were collected by slowly submerging dedicated, unpreserved sample containers in surface water to minimize disturbance of any sediment or vegetation during sampling. The samples were then poured into the required sample containers.

7.2.1.1 Per- and Polyfluoroalkyl Substances

2021

The May 2021 analytical data for PFAS is summarized in Appendix B – Table B12. As shown in Table B12, PFOA, PFOS, and total PFOS and PFOA and were detected at concentrations exceeding their respective NYSDEC Guidance Values for Human Health during the 2021 sampling event. Details of the exceedances are described below:

- PFOA concentrations exceeded the then-current NYSDEC SGV of 10 ng/L in three of the six surface water samples (Unnamed Pond, Polishing Pond Influent, and Polishing Pond Effluent). PFOA levels also exceeded the USEPA Lifetime Health Advisory limit of 70 ng/L in the Unnamed Pond (87.9 ng/L) sample. Exceedances ranged from 21.9 ng/L in the Polishing Pond Influent duplicate sample to 87.9 ng/L in the Unnamed Pond sample.
- PFOS concentrations exceeded the then-current NYSDEC SGV of 10 ng/L only in the Unnamed Pond (28.7 ng/L) sample.
- Total PFOA and PFOS concentrations exceeded the then-current NYSDEC SGV of 10 ng/L in three of the six surface water samples (Unnamed Pond, Polishing Pond Influent, and Polishing Pond Effluent). Total PFOA and PFOS levels also exceeded the USEPA Lifetime Health Advisory limit of 70 ng/L in the Unnamed Pond (116.6 ng/L) sample. Exceedances ranged from 25.69 ng/L in the Polishing Pond Influent duplicate sample to 116.6 ng/L in the Unnamed Pond sample.

PFAS concentrations detected at the GFFC (GFFC1, GFFC2, and GFFC3) did not exceed the NYSDEC Class GA Standards or USEPA Lifetime Health Advisory Limits.

2022 and 2023

The September 2022 and November and December 2023 analytical data for PFAS are summarized in Appendix C – Table C10 and Appendix D – Table D10, respectively. PFOS was not detected at concentrations greater than its NYSDEC Aquatic Life Chronic or Acute Guidance Values of 160,000 ng/L and 710,000 ng/L, respectively, in any of the surface water samples collected in 2022 or 2023.

7.2.1.2 Volatile Organic Compounds

2021

The May 2021 surface water sample analytical results for VOCs are summarized in Appendix B – Table B8. As shown in Table B8, VOCs did not exceed NYSDEC Aquatic Life Chronic or Acute Standards in any of the surface water samples collected in 2021. VOCs were not detected at any surface water locations sampled in May 2021, except for the sample from the Unnamed Pond, where low concentrations of acetone (3.6 J µg/L) were reported.

2022

The September 2022 surface water sample analytical results for VOCs are summarized in Appendix C – Table C7. As shown in Table C7, VOCs did not exceed NYSDEC Aquatic Life Chronic or Acute Standards in any of the surface water samples collected in 2022. VOCs were not detected in the Polishing Pond Effluent, GFFC1, and GFFC3 samples during the 2022 sampling event. Acetone was reported in the Unnamed Pond, Polishing Pond Influent, and GFFC2 surface water samples at concentrations ranging from 2.7 J µg/L (Polishing Pond Influent duplicate) to 10 J µg/L (Unnamed Pond). Low level concentrations of benzene (0.5 J µg/L), chlorobenzene (1.0 J µg/L), 1,4-dichlorobenzene (0.3 J µg/L), isopropylbenzene (0.2 J µg/L), methyl tert-butyl ether (0.9 J µg/L), and toluene (0.4 J µg/L) were also detected in the sample collected from the Unnamed Pond in September 2022.

2023

The November and December 2023 surface water sample analytical results for VOCs are summarized in Appendix D – Table D7. As shown in Table D7, no VOCs exceeded the NYSDEC Aquatic Life Chronic or Acute Standards in 2023.

7.2.1.3 1,4-Dioxane

2021

The May 2021 analytical data for 1,4-dioxane is summarized in Appendix B – Table B12. 1,4-Dioxane was detected at concentrations exceeding the then-current NYSDEC SGV of 1.0 µg/L in the samples collected from the Unnamed Pond (10 µg/L), Polishing Pond Influent (2.3 µg/L), Polishing Pond Influent duplicate (2.6 µg/L), and the Polishing Pond Effluent (2.7 µg/L) samples. 1,4-Dioxane was not detected from the samples collected at the GFFC (GFFC1, GFFC2, and GFFC3).

2022 and 2023

The September 2022 and November and December 2023 analytical data for 1,4-dioxane are summarized in Appendix C – Table C10 and Appendix D – Table D10, respectively. 1,4-Dioxane was not detected at concentrations greater than its NYSDEC Aquatic Life Chronic or Acute Guidance Values of 18,000 ng/L and 160,000 ng/L, respectively, in any of the surface water samples collected in 2022 or 2023.

7.2.1.4 Polychlorinated Biphenyls

The May 2021, September 2022, and November and December 2023 surface water sample analytical results for PCBs are summarized in Appendix B – Table B9, Appendix C – Table C8, and Appendix D – Table D8, respectively. As shown in Tables B9, C8, and D8, PCBs were not detected in any surface water samples during the 2021, 2022, and 2023 sampling events.

7.2.1.5 Metals

2021

The May 2021 surface water sample analytical results for metals are summarized in Appendix B – Table B10. Metals were detected in one or more of the surface water samples collected during the May 2021 sampling event, including aluminum, barium, calcium, chromium, cobalt, copper, iron, magnesium, manganese, nickel, potassium, sodium, vanadium, and zinc. As shown in Table B10, concentrations of aluminum and iron exceeded the corresponding NYSDEC Aquatic Life Chronic and Acute Standards for one or more sampling locations. Details of the exceedances are summarized below:

- Aluminum concentrations exceeded the NYSDEC Aquatic Life Chronic Standard of 0.1 mg/L in the Polishing Pond Effluent, GFFC1, GFFC2, and GFFC3 samples. Exceedances ranged from 0.126 J mg/L (GFFC2) to 1.59 mg/L (Polishing Pond Effluent).
- Iron concentrations exceeded the NYSDEC Aquatic Life Chronic and Acute Standards of 0.3 mg/L in each of the surface water samples collected in May 2021 (Unnamed Pond, Polishing Pond Influent, Polishing Pond Effluent, GFFC1, GFFC2, and GFFC3). Exceedances ranged from 0.248 mg/L (GFFC1) to 2.59 mg/L (Unnamed Pond).

2022

The September 2022 surface water sample analytical results for metals are summarized in Appendix C – Table C9. Metals were detected in one or more of the surface water samples collected during the September 2022 sampling event, including aluminum, antimony, barium, calcium, cobalt, iron, magnesium, manganese, nickel, potassium, selenium, sodium, vanadium, and zinc. As show in Table C9, concentrations of selenium and iron exceeded the corresponding NYSDEC Aquatic Life Chronic and Acute Standards for one or more sampling locations. Details of the exceedances are summarized below:

- Selenium concentrations exceeded the NYSDEC Aquatic Life Chronic Standard of 0.0046 mg/L only at the Polishing Pond Influent (0.016 J mg/L) sample.
- Iron concentrations exceeded the NYSDEC Aquatic Life Chronic and Acute Standard of 0.3 mg/L in five of the six surface water samples (Unnamed Pond, Polishing Pond Influent, Polishing Pond Effluent, GFFC2, and GFFC3). Exceedances ranged from 0.33 mg/L (GFFC3) to 37 mg/L (Unnamed Pond).

2023

The November and December 2023 surface water sample analytical results for metals are summarized in Appendix D – Table D9. Metals were detected in one or more of the surface water samples collected during the 2023 sampling event, including aluminum, barium, calcium, cobalt, copper, iron, magnesium, manganese, nickel, potassium, silver, sodium, and zinc. As show in Table D9, concentrations of aluminum, cobalt, iron, and silver exceeded the corresponding NYSDEC Aquatic Life Chronic and Acute Standards for one or more sampling locations. Details of the exceedances are summarized below:

- Aluminum concentrations exceeded the NYSDEC Aquatic Life Chronic Standard of 0.1 mg/L in four of the seven 2023 surface water samples (Unnamed Pond-2, GFFC2, CC1, and CC2). Exceedances ranged from 0.16 mg/L (CC1) to 2.8 mg/L (CC2).
- Cobalt concentrations slightly exceeded the NYSDEC Aquatic Life Chronic Standard of 0.005 mg/L only in the GFFC2 (0.0056 J mg/L) sample.
- Iron concentrations exceeded the NYSDEC Aquatic Life Chronic and Acute Standard of 0.3 mg/L in six of the seven surface water samples (Unnamed Pond-1, Unnamed Pond-2, GFFC1, GFFC2, CC1, and CC2). Exceedances ranged from 0.62 mg/L (GFFC1) to 22 mg/L (Unnamed Pond-1).
- Silver concentrations exceeded the NYSDEC Aquatic Life Chronic and Acute Standards of 0.0001 mg/L and 0.00406 mg/L, respectively, in three of the seven surface water samples (GFFC3, CC1, and CC2). Exceedances ranged from 0.0044 J mg/L (GFFC3) to 0.0051 J mg/L (CC2).

7.2.1.6 General Chemistry

The May 2021 analytical data for TDS and TSS at the Polishing Pond Effluent is summarized in Appendix B – Table B11. As shown in Table B11, the Polishing Pond Effluent sample contained TDS and TSS concentrations at 381 mg/L and 40.8 mg/L, respectively. The surface water samples collected in 2022 and 2023 were not analyzed for TDS or TSS.

7.2.2 Sediment Sampling Results

Sediment sample analytical results are discussed below and are summarized in Appendix B – Tables B13 through B16, Appendix C – Tables C11 through C14, and Appendix D – Tables D11 through D14.

Sediment samples were collected immediately following the collection of the surface water samples (Section 7.2.1). Sediment samples were collected from a depth of 0 to 0.5 feet below the sediment surface and placed directly into laboratory-provided sample jars.

7.2.2.1 Per- and Polyfluoroalkyl Substances

2021

The May 2021 sediment sample analytical results for PFAS are summarized in Appendix B – Table B16. As indicated in Table B16, all six of the sediment sample locations contained PFAS at concentrations greater than the respective laboratory reporting limits. Total PFOA and PFOS concentrations ranged from 0.08 micrograms per kilogram (µg/Kg) (GFFC1) to 2.05 µg/Kg (Unnamed Pond).

2022

The September 2022 sediment sample analytical results for PFAS are summarized in Appendix C – Table C14. As indicated in Table C14, PFAS were detected in four of the six sediment samples collected in 2022. Total PFOA and PFOS concentrations ranged from 0.12 J µg/Kg (GFFC1) to 1.3 µg/Kg (Unnamed Pond) in the sediment samples where PFAS was reported. PFAS were not detected in the Polishing Pond Influent, Polishing Pond Influent duplicate, or GFFC3 sediment samples collected during the 2022 sampling event.

2023

The November and December 2023 sediment sample analytical results for PFAS are summarized in Appendix D – Table D14. As indicated in Table D14, six of the seven sediment sample locations contained PFAS at concentrations greater than the respective laboratory reporting limits. PFAS were not detected in the CC1 sediment sample.

There are currently no regulatory standards or guidance values for PFAS in sediment.

7.2.2.2 Volatile Organic Compounds

2021

The May 2021 sediment sample analytical results for VOCs are summarized in Appendix B – Table B13. As shown in Table B13, VOCs were detected in all six sediment samples but at concentrations less than NYSDEC Freshwater Class A and Class C Sediment SGVs and Wildlife Bioaccumulation-based SGVs (BSGVs). Acetone and 2-butanone were the only VOCs detected in the sediment samples collected during the 2021 sampling event. Acetone was reported at low concentrations in all six sediment samples, ranging from 0.013 milligrams per kilogram (mg/Kg) (GFFC2) to 0.12 mg/Kg (GFFC3). Low levels of 2-butanone were also detected in the Polishing Pond Influent (0.017 J mg/Kg) and GFFC3 (0.028 J mg/Kg) samples.

2022

The September 2022 sediment sample analytical results for VOCs are summarized in Appendix C – Table C11. As shown in Table C11, VOCs were detected in four of the six sediment samples (Unnamed Pond, Polishing Pond Influent, Polishing Pond Effluent, and GFFC2) but at concentrations less than NYSDEC Freshwater Class A and Class C Sediment SGVs and Wildlife BSGVs. No VOCs were detected in the GFFC1 and GFFC3 samples during the 2022 sampling event. Acetone, 2-butanone, chlorobenzene, and 1,4-dichlorobenzenewere the only VOCs detected in the sediment samples collected during the 2022 sampling event. Acetone was reported at low concentrations in the Unnamed Pond (0.022 J mg/Kg), Polishing Pond Influent (0.17 J mg/Kg), Polishing Pond Influent duplicate (0.13 J), and Polishing Pond Effluent (0.032 J mg/Kg) sediment samples. Low concentrations of 2-butanone were found in the Polishing Pond Influent (0.037 J mg/Kg), Polishing Pond Influent duplicate (0.026 J), and GFFC2 (0.018 J mg/Kg) samples. Low levels of chlorobenzene (0.0017 J mg/Kg) and 1,4-dichlorobenzene (0.0013 J mg/Kg) were also reported in the sediment sample from the Unnamed Pond.

2023

The November and December 2023 sediment sample analytical results for VOCs are summarized in Appendix D – Table D11. As shown in Table D11, VOCs were detected in three of the seven sediment samples (Unnamed Pond-1 duplicate, GFFC2, and GFFC3) but at concentrations less than NYSDEC Freshwater Class A and Class C Sediment SGVs and Wildlife BSGVs. No VOCs were detected in the original Unnamed Pond-1 sample or in the

GFFC1, CC1, and CC2 sediment samples during the 2023 sampling event. 1,4-Dioxane SIM was detected in the sample from Unnamed Pond-2 (0.026 J). Acetone and methyl acetate were the only other VOCs detected in the sediment samples collected during the 2023 sampling event. Acetone was reported at low concentrations in the Unnamed Pond-1 duplicate (1.4 J mg/Kg) and GFFC3 (0.013 J mg/Kg) sediment samples. Low levels of methyl acetate were also found in the Unnamed Pond-1 duplicate (0.93 J mg/Kg) sample and in the sediment sample collected from GFFC2 (0.018 J mg/Kg).

7.2.2.3 Polychlorinated Biphenyls

2021

The May 2021 sediment sample analytical results for PCBs are summarized in Appendix B – Table B14. As shown in Table B14, PCBs were not detected in any of the six sediment samples collected in 2021.

2022

The September 2022 sediment sample analytical results for PCBs are summarized in Appendix C – Table C12. As shown in Table C12, Aroclor 1242 was reported at a concentration exceeding the NYSDEC Freshwater Class A SGV of 0.1 mg/Kg and NYSDEC Wildlife BSGV of 0.0041 mg/Kg for total PCBs in the sediment sample collected from GFFC1 (0.13 mg/Kg). No other aroclors were reported in the GFFC1 sample, and PCBs were not detected in any of the other five sediment samples (Unnamed Pond, Polishing Pond Influent, Polishing Pond Effluent, GFFC2, and GFFC2) collected in 2022.

2023

The November and December 2023 sediment sample analytical results for PCBs are summarized in Appendix D – Table D12. As shown in Table D12, Aroclors 1248 and 1254 were detected in the GFFC1, GFFC3, CC1, and CC2 sediment samples. Aroclor 1260 was also detected in the sediment sample from GFFC3. Total PCB concentrations exceeded the NYSDEC Freshwater Class A SGV of 0.1 mg/Kg and the NYSDEC Wildlife BSGV of 0.0041 mg/Kg in four of the five sediment samples: at GFFC1 (0.44 mg/kg), GFFC3 (0.477 J mg/Kg), CC1 (0.228 J mg/kg), and CC2 (0.267 J mg/kg). PCBs were not detected in the sediment sample collected from GFFC2 in 2023.

7.2.2.4 Metals

2021

The May 2021 sediment sample analytical results for metals are summarized in Appendix B – Table B15. Metals were detected in all six sediment samples collected in 2021. As shown in Table B15, concentrations of arsenic, lead, mercury, nickel, silver, and zinc exceeded the respective NYSDEC Freshwater Class A and Class C SGVs in one or more sampling locations. Details of the exceedances are summarized below:

- Arsenic concentrations exceeded the NYSDEC Freshwater Class A SGV of 10 mg/Kg in the Polishing Pond Influent duplicate (23.7 mg/Kg) and GFFC3 (12.2 mg/Kg) samples, and the Class C SGV of 33 mg/Kg at the Polishing Pond Influent (47.3 mg/Kg) sample.
- Lead concentrations exceeded the NYSDEC Freshwater Class A SGV of 36 mg/Kg in the GFFC1 (74.8 mg/Kg) and GFFC3 (40.1 mg/Kg) samples.
- Mercury concentrations exceeded the NYSDEC Freshwater Class A SGV of 0.2 mg/Kg only in the GFFC1 (0.49 mg/Kg) sample.

- Nickel concentrations exceeded the NYSDEC Freshwater Class A SGV of 23 mg/Kg only in the GFFC3 (25.9 mg/Kg) sample.
- Silver concentrations exceeded the NYSDEC Freshwater Class A SGV of 1.0 mg/Kg only in the GFFC3 (1.4 mg/Kg) sample.
- Zinc concentrations exceeded the NYSDEC Freshwater Class A SGV of 120 mg/Kg only in the GFFC3 (139 mg/Kg) sample.

Metal concentrations detected at the Unnamed Pond, Polishing Pond Effluent, and GFFC2 did not exceed the Freshwater Class A and Class C SGVs.

2022

The September 2022 sediment sample analytical results for metals are summarized in Appendix C – Table C13. Metals were detected in all six sediment samples collected in 2022. As shown in Table C13, concentrations of chromium, lead, mercury, nickel, silver, and zinc exceeded the respective NYSDEC Freshwater Class A and Class C SGVs in one or more sampling locations. Details of the exceedances are summarized below:

- Chromium concentrations slightly exceeded the NYSDEC Freshwater Class A SGV of 43 mg/Kg in the Polishing Pond Influent duplicate (44 J mg/Kg) sample. It was detected in the parent sample (24 J mg/Kg) but not at a concentration exceeding the SGV.
- Lead concentrations exceeded the NYSDEC Freshwater Class A SGV of 36 mg/Kg in the GFFC1 (52 mg/Kg) and GFFC2 (46 mg/Kg) samples.
- Mercury concentrations exceeded the NYSDEC Freshwater Class A SGV of 0.2 mg/Kg in the GFFC2 (0.32 mg/Kg) sample.
- Nickel concentrations exceeded the NYSDEC Freshwater Class A SGV of 23 mg/Kg in the Polishing Pond Influent duplicate (32 J mg/Kg) and Polishing Pond Effluent (27 mg/Kg) samples.
- Silver concentrations exceeded the NYSDEC Freshwater Class A SGV of 1.0 mg/Kg and the Class C SGV of 2.2 mg/Kg in the GFFC2 (6.8 J mg/Kg) sample.
- Zinc concentrations exceeded the NYSDEC Freshwater Class A SGV of 120 mg/Kg in the GFFC2 (190 J mg/Kg) sample.

Metal concentrations detected at the Unnamed Pond, Polishing Pond Influent, and GFFC3 did not exceed the Freshwater Class A or Class C SGVs.

2023

The November and December 2023 sediment sample analytical results for metals are summarized in Appendix D – Table D13. Metals were detected in all seven sediment samples collected in 2023. As shown in Table D13, concentrations of arsenic, cadmium, lead, mercury, nickel, silver, and zinc exceeded the respective NYSDEC Freshwater Class A and Class C SGVs in one or more sampling locations. Details of the exceedances are summarized below:

- Arsenic concentrations slightly exceeded the NYSDEC Freshwater Class A SGV of 10 mg/Kg only in the GFFC2 (12 mg/Kg) sample.
- Cadmium concentrations slightly exceeded the NYSDEC Freshwater Class A SGV of 1 mg/Kg in the Unnamed Pond-2 (1.5 J mg/Kg), GFFC1 (1.6 mg/Kg), and GFFC3 (1.3 mg/Kg) samples.

- Lead concentrations exceeded the NYSDEC Freshwater Class A SGV of 36 mg/Kg in the Unnamed Pond-2 (68 mg/Kg) and GFFC1 (50 mg/Kg) samples.
- Mercury concentrations exceeded the NYSDEC Freshwater Class A SGV of 0.2 mg/Kg only in the Unnamed Pond-2 (0.28 mg/Kg) sample.
- Nickel concentrations exceeded the NYSDEC Freshwater Class A SGV of 23 mg/Kg only in the Unnamed Pond-1 (25 mg/Kg) sample.
- Silver concentrations exceeded the NYSDEC Freshwater Class A SGV of 1 mg/Kg only in the GFFC1 (1.5 mg/Kg) sample.
- Zinc concentrations exceeded the NYSDEC Freshwater Class A SGV of 120 mg/Kg in the Unnamed Pond-2 (130 mg/Kg), GFFC1 (170 mg/Kg), and GFFC2 (180 mg/Kg) samples.

Metal concentrations detected in the Unnamed Pond-1 duplicate, CC1, and CC2 sediment samples did not exceed the Freshwater Class A or Class C SGVs.

7.3 Soil Sampling

Soil sample analytical results are discussed below and are summarized in Appendix B – Tables B17 through B20, and Appendix C – Tables C15 through C18.

Soil samples were collected during the 2021 and 2022 sampling events from the three CWTCs (Cell 1, Cell 2, and Cell 3). A soil auger was used to collect samples from a depth of approximately 0.5 to 2.0 feet below ground surface, homogenized in a steel bowl and placed into laboratory provided sample jars. Soil samples were not collected during the December 2023 sampling event in accordance with the January 2023 Work Assignment Amendment (NYSDEC 2023).

7.3.1 Per- and Polyfluoroalkyl Substances

The 2021 and 2022 soil sample analytical results for PFAS are summarized in Appendix B – Table B20 and Appendix C – Table C18, respectively. As indicated in Tables B20 and C18, PFAS were detected in each of the three soil samples but at concentrations that did not exceed the NYSDEC 6 NYCRR Part 375 Commercial Use soil guidance values of 500 µg/Kg for PFOA or 440 µg/Kg for PFOS in 2021 and 2022. Total PFOA and PFOS concentrations declined from the May 2021 sampling event to the September and October 2022 sampling event. Total PFOA and PFOS ranged from 0.648 µg/Kg (Cell 1) to 4.82 µg/Kg (Cell 3) in 2021 and decreased to between 0.17 J µg/Kg (Cell 1) and 0.57 J µg/Kg (Cell 3) in 2022. The Cell 1 sample contained the lowest total PFOA and PFOS concentrations and the Cell 3 sample contained the highest total PFOA and PFOS concentrations during the 2021 and 2022 sampling events.

7.3.2 Volatile Organic Compounds

2021

The May 2021 soil sample analytical results for VOCs are summarized in Appendix B – Table B17. As indicated in Table B17, VOCs were detected in two of the three soil samples but at concentrations less than their NYSDEC 6 NYCRR Part 375 Commercial Use SCO for VOCs. Low level concentrations of acetone were detected in the Cell 2 (0.32 J mg/Kg) and Cell 3 (1.0 mg/Kg) soil samples collected in 2021. Low concentrations of 2-butanone

(0.23 J mg/Kg) were also detected in the Cell 3 soil sample. No other VOCs were detected in the Cell 2 and Cell 3 samples, and no VOCs were detected in the soil sample collected from Cell 1.

2022

The September and October 2022 soil sample analytical results for VOCs are summarized in Appendix C – Table C15. As indicated in Table C15, VOCs were detected in two of the three soil samples but at concentrations less than their NYSDEC 6 NYCRR Part 375 Commercial Use SCO for VOCs. Low level concentrations of methyl acetate were detected in the Cell 2 (0.75 J mg/Kg) and Cell 3 (0.62 J mg/Kg) soil samples collected in 2022. No other VOCs were detected in the Cell 2 and Cell 3 samples, and no VOCs were detected in the soil sample collected from Cell 1.

7.3.3 Polychlorinated Biphenyls

2021

The May 2021 soil sample analytical results for PCBs are summarized in Appendix B – Table B18. As shown in Table B18, Aroclor 1016 concentrations exceeded the NYSDEC 6 NYCRR Part 375 Commercial Use SCO of 1.0 mg/Kg for total PCBs in the Cell 3 (4.0 mg/Kg) soil sample. As shown in Table B18, no other PCBs were detected in the soil sample collected from Cell 3, and no PCBs were detected in the soil samples collected from Cell 1 and Cell 2.

2022

The September and October 2022 soil sample analytical results for PCBs are summarized in Appendix C – Table C16. As shown in Table C16, PCBs did not exceed NYSDEC 6 NYCRR Part 375 Commercial Use SCO at any of the three soil sample locations. Aroclors 1254 and 1260 were detected in the Cell 2 soil sample and Aroclor 1260 was detected in the Cell 3 soil sample but at concentrations less than the NYSDEC 6 NYCRR Part 375 Commercial Use soil guidance value of 1.0 mg/Kg for total PCBs. No other PCBs were detected in the Cell 2 and Cell 3 samples, and no PCBs were detected in the Cell 1 soil sample. Total PCB concentrations were 0.20 J mg/Kg at Cell 2 and 0.062 J mg/Kg at Cell 3 in 2021.

7.3.4 Metals

The May 2021 and September and October 2022 soil sample analytical results for metals are summarized in Appendix B – Table B19 and Appendix C – Table C17, respectively. Metals, including aluminum, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, sodium, vanadium, and zinc, were detected in one or more soil samples in 2021 and 2022. Antimony, silver, and thallium were also reported at concentrations greater than their respective laboratory reporting limits during the 2022 sampling event. As shown in Tables B19 and C17, metals were not detected at concentrations exceeding the NYSDEC 6 NYCRR Part 375 Commercial Use SCO at any of the three soil sampling locations in 2021 or 2022.

8 Summary and Recommendations

The following sections summarize the leachate collection and treatment system operation and performance and groundwater data conclusions for the January 1, 2018, to April 1, 2024 reporting period.

8.1 Performance Summary

Since 2017, the rate of leachate being collected and treated through the treatment system increased from approximately 3 gpm to an average of approximately 14 gpm due to improvements to the leachate collection system and EWs. In addition, the influent concentrations of VOCs, PCBs, and metals increased significantly, primarily due to contributions from EW-1.

Treatment plant upgrades accounted for an average iron reduction of 60% through the CCT, with up to 76% iron removal through additional treatment in the Polishing Pond while it was operating. A summary of the contaminant reduction from the IRM upgrades to the treatment system will be presented in the forthcoming IRM report. Based on data from the IRM startup testing, the upgraded system is effective at removing VOCs, PCBs, and PFAS from the treatment plant influent. Iron removal has improved since implementation of the IRM; however there have been detections of iron at concentrations greater than the respective SPDES equivalency discharge standard.

Total concentrations of VOCs appear to be decreasing within the MW network. In addition, PCB concentrations have dropped to non-detect levels in all upgradient and downgradient MWs, except for groundwater samples from MW-6 in 2018 and 2021. VOCs and/or PCBs were detected in the samples from EW-1 and EW-3. EW-2 and leachate collection well EW-4 had detections of VOCs and/or PCBs in the majority of samples collected between 2018 and 2024. Consistent with previous years, the maximum concentrations of VOCs and PCBs were reported in the samples from EW-1. None of the surface water samples collected from the Site or the GFFC contained VOCs at concentrations greater than the applicable NYSDEC Standards or PCBs at concentrations greater than the laboratory quantitation limits. The sediment samples from GFFC1, GFFC3, CC1, and CC2 in 2023 contained concentrations of PCBs exceeding NYSDEC Freshwater Class A SGV and the NYSDEC Wildlife BSGV.

A total of five metals were detected in groundwater at concentrations exceeding the NYSDEC Class GA Standards, with iron and sodium concentrations exceeding the standards in the majority of the wells. In general, most of the detected metals in groundwater remain consistent with historical results. Surface water samples contained iron, magnesium, and sodium concentrations greater than the NYSDEC Class GA Standards.

PFAS sampling began in 2017 at the request of the NYSDEC. In the 2021, 2022, and 2023 groundwater sampling events, PFOS and/or PFOA were detected at concentrations greater than the then-current NYSDEC standards or guidance values in samples from eight or more downgradient MWs, three EWs, and the leachate collection well and the surface water samples from Unnamed Pond and the Polishing Pond. The maximum concentration of PFOA was in the sample from EW-1 in 2021 (1,140 ng/L), and the maximum concentration of PFOS was in the sample from MW-5 in 2021 (80.7 ng/L).

8.2 Comparison to Remedial Action Objectives

In general, the RAOs presented in Section 4 of this report are being met with respect to human health because the ICs for the Site prohibit the use of groundwater from the Site and the ECs prevent exposure, ingestion, or direct contact with contaminated media. VOCs have not been detected in surface water samples from the

Polishing Pond since 2017 and since the implementation of the IRM, the treatment system effluent has not exceeded the Fort Edward SPDES Equivalency Permit limits, with the exception of iron in December 2023.

The RAOs are not being met for environmental protection since there continue to be concentrations of VOCs, PCBs, metals, and/or PFAS greater than the respective NYSDEC standards or guidance values in groundwater and surface water samples from the Site.

The following conclusions discuss the effectiveness, and deficiencies, of the Site's remedial system in comparison to the applicable Site RAOs:

- RAO 1 – Prevent ingestion of groundwater outside of the landfill boundaries with contaminant levels exceeding drinking water standards:
  - Residential and commercial properties adjacent to the landfill have been connected to the municipal water supply, thereby preventing the ingestion of impacted groundwater from private wells immediately adjacent to the Site. Downgradient MW samples have also shown minimal or non-detect concentrations below the applicable standards for VOCs, PCBs, and most metals (excluding iron, manganese, magnesium, and sodium).
- RAO 2 – Prevent contact with or inhalation of volatiles from contaminated groundwater:
  - Inhalation and contact with impacted vapors have been minimized by supplying homes adjacent to the landfill with municipal water. Groundwater or vapor intrusion impacts have not been observed in the vicinity of the homes adjacent to the landfill, based on the soil vapor intrusion investigation (HRP 2013).
- RAO 3 – Prevent the discharge of contaminants to surface water:
  - Data from the 2018 to 2024 reporting period indicate that the leachate collection and treatment system upgrades have improved the effectiveness of leachate recovery from the subsurface at the Site. This is demonstrated through the following metrics:
    - EW-1, which contains the highest concentrations of total VOCs and PCBs, can now be operated and the discharge treated through the treatment system.
    - The average leachate recovery rate has increased from approximately 9 gpm in 2018 to approximately 14 gpm in 2024.

Effluent from the treatment system has remained below the Fort Edward SPDES Equivalency Permit limit, with the exception of iron quarterly through December 2023 and TSS in October 2023. However, groundwater quality in the MW network continues to indicate that leachate is not being fully captured by the collection system and continues to impact the surrounding groundwater and despite the treatment plant upgrades, the metals concentrations (primarily iron) in the leachate treatment system effluent continue to exceed the SPDES equivalent discharge limitations, with the exception of March 2024.

The ECs are functioning as designed but are still not effectively capturing and fully treating leachate at the site. Therefore, certification of the remedy is not possible at this time. The IC/EC Certification Forms are provided in Appendix E. The reporting period outlined in the IC/EC Certification is from April 30, 2020 to April 30, 2023, however, the period was extended in consultation with the NYSDEC to be between January 1, 2018 through April 1, 2024.

8.3 Recommendations

8.3.1 Short-Term

The recommendations and planned action items for future Site operations are presented below. System operation and performance monitoring will continue to focus on optimizing the iron removal and overall treatment efficiency of the existing collection system network and the associated treatment systems.

The following items are recommended to further optimize the leachate recovery and treatment system:

- Evaluate the existing SPDES equivalency effluent standards to determine if they should be amended following implementation of the IRM.
- Continue to optimize treatment system operations to reduce iron concentrations in the treatment system effluent.

The following recommendation is suggested for the Monitoring Program:

- Update the SMP with the upgraded treatment system established in 2023, in consultation with NYSDEC.

8.3.2 Long-Term

The following items should be considered to improve the long-term O&M and monitoring of the Site:

- Complete the SC described in the Schedule 1 Scope of Work (Arcadis 2022d) to evaluate the groundwater and leachate both entering and bypassing the existing leachate collection system. The work will include the following activities:
  - Installation of new MWs (including replacement well MW-11);
  - Installation of piezometers within and below the landfill waste;
  - Installation of standard penetration borings and hydraulic profiling tool borings;
  - Performance of hydraulic conductivity testing; and
  - Preparation of a Leachate Collection System Evaluation Report.

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Tables

Table 1
Leachate Collection System Recovery Volumes
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Month	EW-1	EW-2	EW-3	EW-4	Monthly Flow
Jan-18	13,935	6,878	48,360	926,676	**995,849**
Feb-18	12,241	5,837	43,680	732,347	**794,105**
Mar-18	4,717	6,217	48,360	692,433	**751,727**
Apr-18	0	6,399	46,800	839,900	**893,099**
May-18	0	5,136	48,360	716,292	**769,788**
Jun-18	0	1,720	46,800	208,961	**257,481**
Jul-18	1	742	48,360	67,972	**117,075**
Aug-18	0	6,294	48,360	770,666	**825,320**
Sep-18	0	1,997	14,040	228,153	**244,190**
Oct-18	0	4,101	0	412,426	**416,527**
Nov-18	0	0	0	232,259	**232,259**
Dec-18	0	0	0	401,639	**401,639**
2018 Total	**30,894**	**45,321**	**393,120**	**6,229,724**	**6,699,059**
Jan-19	0	0	0	452,991	**452,991**
Feb-19	0	0	0	549,935	**549,935**
Mar-19	0	0	0	491,065	**491,065**
Apr-19	0	0	0	347,357	**347,357**
May-19	0	0	0	26,755	**26,755**
Jun-19	0	0	0	132,270	**132,270**
Jul-19	0	0	0	0	**0**
Aug-19	0	0	0	0	**0**
Sep-19	0	0	0	0	**0**
Oct-19	3,791	1,098	0	563,937	**568,826**
Nov-19	12,597	4,138	12,192	739,558	**768,485**
Dec-19	7,164	4,323	12,730	823,687	**847,904**
2019 Total	**23,552**	**9,559**	**24,922**	**4,127,555**	**4,185,588**
Jan-20	0	4,290	10,009	621,887	**636,186**
Feb-20	0	3,704	0	716,109	**719,813**
Mar-20	932	3,738	0	725,624	**730,294**
Apr-20	0	2,880	0	491,042	**493,922**
May-20	0	4,068	0	830,724	**834,792**
Jun-20	0	3,845	0	640,455	**644,300**
Jul-20	0	3,879	0	567,176	**571,055**
Aug-20	0	3,833	0	524,503	**528,336**
Sep-20	0	4,566	0	597,669	**602,235**
Oct-20	0	5,011	0	700,638	**705,649**
Nov-20	0	5,084	0	661,219	**666,303**
Dec-20	0	5,026	0	684,887	**689,913**
2020 Total	**932**	**49,924**	**10,009**	**7,761,933**	**7,822,798**
Jan-21	0	3,540	0	542,357	**545,897**
Feb-21	315	4,560	7,373	652,549	**664,797**
Mar-21	9,379	4,929	11,380	765,494	**791,182**
Apr-21	8,248	3,669	6,630	534,596	**553,143**
May-21	9,658	4,821	6,661	694,561	**715,701**
Jun-21	6,714	3,910	9,673	509,008	**529,305**
Jul-21	0	3,312	7,338	390,138	**400,788**
Aug-21	0	283	2,863	619,652	**622,798**

Table 1
Leachate Collection System Recovery Volumes
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Month	EW-1	EW-2	EW-3	EW-4	Monthly Flow
Sep-21	0	4,728	6,826	612,985	**624,539**
Oct-21	0	5,202	7,583	469,190	**481,975**
Nov-21	0	4,517	6,656	499,805	**510,978**
Dec-21	0	4,623	6,884	646,434	**657,941**
2021 Total	**34,314**	**48,094**	**79,867**	**6,936,769**	**7,099,044**
Jan-22	0	4,677	7,051	651,344	**663,072**
Feb-22	0	3,882	5,640	605,628	**615,150**
Mar-22	0	3,978	5,869	633,675	**643,522**
Apr-22	0	3,878	6,153	735,476	**745,507**
May-22	0	4,031	6,320	782,226	**792,577**
Jun-22	0	3,460	5,155	712,507	**721,122**
Jul-22	0	1,374	5,119	659,186	**665,679**
Aug-22	0	0	5,503	672,636	**678,139**
Sep-22	0	0	5,391	611,717	**617,108**
Oct-22	0	0	4,530	479,373	**483,903**
Nov-22	0	0	4,088	681,775	**685,863**
Dec-22	0	0	4,068	670,802	**674,870**
2022 Total	**0**	**25,280**	**64,887**	**7,896,345**	**7,986,512**
Jan-23	0	0	7,029	752,836	**759,865**
Feb-23	0	0	6,094	606,288	**612,382**
Mar-23	0	0	6,366	677,114	**683,480**
Apr-23	0	0	7,185	592,470	**599,655**
May-23	0	0	6,889	629,657	**636,546**
Jun-23	0	0	7,166	590,522	**597,688**
Jul-23	0	1	5,601	565,447	**571,049**
Aug-23	11	472	6,032	640,796	**647,311**
Sep-23	2,768	3,056	4,825	610,248	**620,897**
Oct-23	6,658	3,725	3,789	600,200	**614,372**
Nov-23	5,440	3,502	3,105	424,842	**436,889**
Dec-23	6,589	4,053	3,633	659,687	**673,962**
2023 Total	**21,466**	**14,809**	**67,714**	**7,350,107**	**7,454,096**
Jan-24	5,624	3,536	3,335	518,403	**530,898**
Feb-24	4,982	3,522	3,609	467,323	**479,436**
Mar-24	3,429	2,840	2,592	494,176	**503,037**
2024 Total	**14,035**	**9,898**	**9,536**	**1,479,902**	**1,513,371**
Grand Total	**125,193**	**202,885**	**650,055**	**41,782,335**	**42,760,468**

Table 2
Extraction Well Flow Rates
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Month	EW-1	EW-2	EW-3	EW-4	Total
Jan-18	0.3	0.2	1.1	20.8	**22.3**
Feb-18	0.3	0.1	1.1	18.2	**19.7**
Mar-18	0.1	0.1	1.1	15.5	**16.8**
Apr-18	0.0	0.1	1.1	19.4	**20.7**
May-18	0.0	0.1	1.1	16.0	**17.2**
Jun-18	0.0	0.0	1.1	4.8	**6.0**
Jul-18	0.0	0.0	1.1	1.5	**2.6**
Aug-18	0.0	0.1	1.1	17.3	**18.5**
Sep-18	0.0	0.0	0.3	5.3	**5.7**
Oct-18	0.0	0.1	0.0	9.2	**9.3**
Nov-18	0.0	0.0	0.0	5.4	**5.4**
Dec-18	0.0	0.0	0.0	9.0	**9.0**
2018 AVG.	0.1	0.1	0.7	11.9	**12.8**
Jan-19	0.0	0.0	0.0	10.1	**10.1**
Feb-19	0.0	0.0	0.0	13.6	**13.6**
Mar-19	0.0	0.0	0.0	11.0	**11.0**
Apr-19	0.0	0.0	0.0	8.0	**8.0**
May-19	0.0	0.0	0.0	0.6	**0.6**
Jun-19	0.0	0.0	0.0	3.1	**3.1**
Jul-19	0.0	0.0	0.0	0.0	**0.0**
Aug-19	0.0	0.0	0.0	0.0	**0.0**
Sep-19	0.0	0.0	0.0	0.0	**0.0**
Oct-19	0.1	0.0	0.0	12.6	**12.7**
Nov-19	0.3	0.1	0.3	17.1	**17.8**
Dec-19	0.2	0.1	0.3	18.5	**19.0**
2019 AVG.	0.0	0.0	0.0	7.9	**8.0**
Jan-20	0.0	0.1	0.2	13.9	**14.3**
Feb-20	0.0	0.1	0.0	17.1	**17.2**
Mar-20	0.0	0.1	0.0	16.3	**16.4**
Apr-20	0.0	0.1	0.0	11.4	**11.4**
May-20	0.0	0.1	0.0	18.6	**18.7**
Jun-20	0.0	0.1	0.0	14.8	**14.9**
Jul-20	0.0	0.1	0.0	12.7	**12.8**
Aug-20	0.0	0.1	0.0	11.7	**11.8**
Sep-20	0.0	0.1	0.0	13.8	**13.9**
Oct-20	0.0	0.1	0.0	15.7	**15.8**
Nov-20	0.0	0.1	0.0	15.3	**15.4**
Dec-20	0.0	0.1	0.0	15.3	**15.5**
2020 AVG.	0.0	0.1	0.0	14.7	**14.8**
Jan-21	0.0	0.1	0.0	12.1	**12.2**
Feb-21	0.0	0.1	0.2	16.2	**16.5**
Mar-21	0.2	0.1	0.3	17.1	**17.7**
Apr-21	0.2	0.1	0.2	12.4	**12.8**
May-21	0.2	0.1	0.1	15.6	**16.0**
Jun-21	0.2	0.1	0.2	11.8	**12.3**
Jul-21	0.0	0.1	0.2	8.7	**9.0**
Aug-21	0.0	0.0	0.1	13.9	**14.0**

Table 2
Extraction Well Flow Rates
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Month	EW-1	EW-2	EW-3	EW-4	Total
Sep-21	0.0	0.1	0.2	14.2	**14.5**
Oct-21	0.0	0.1	0.2	10.5	**10.8**
Nov-21	0.0	0.1	0.2	11.6	**11.8**
Dec-21	0.0	0.1	0.2	14.5	**14.7**
2021 AVG.	0.1	0.1	0.2	13.2	**13.5**
Jan-22	0.0	0.1	0.2	14.6	**14.9**
Feb-22	0.0	0.1	0.1	15.0	**15.3**
Mar-22	0.0	0.1	0.1	14.2	**14.4**
Apr-22	0.0	0.1	0.1	17.0	**17.3**
May-22	0.0	0.1	0.1	17.5	**17.8**
Jun-22	0.0	0.1	0.1	16.5	**16.7**
Jul-22	0.0	0.0	0.1	14.8	**14.9**
Aug-22	0.0	0.0	0.1	15.1	**15.2**
Sep-22	0.0	0.0	0.1	14.2	**14.3**
Oct-22	0.0	0.0	0.1	10.7	**10.8**
Nov-22	0.0	0.0	0.1	15.8	**15.9**
Dec-22	0.0	0.0	0.1	15.0	**15.1**
2022 AVG.	0.0	0.0	0.1	15.0	**15.2**
Jan-23	0.0	0.0	0.2	16.9	**17.0**
Feb-23	0.0	0.0	0.2	15.0	**15.2**
Mar-23	0.0	0.0	0.1	15.2	**15.3**
Apr-23	0.0	0.0	0.2	13.7	**13.9**
May-23	0.0	0.0	0.2	14.1	**14.3**
Jun-23	0.0	0.0	0.2	13.7	**13.8**
Jul-23	0.0	0.0	0.1	12.7	**12.8**
Aug-23	0.0	0.0	0.1	14.4	**14.5**
Sep-23	0.1	0.1	0.1	14.1	**14.4**
Oct-23	0.1	0.1	0.1	13.4	**13.8**
Nov-23	0.1	0.1	0.1	9.8	**10.1**
Dec-23	0.1	0.1	0.1	14.8	**15.1**
2023 AVG.	0.0	0.0	0.1	14.0	**14.2**
Jan-24	0.1	0.1	0.1	11.6	**11.9**
Feb-24	0.1	0.1	0.1	11.2	**11.5**
Mar-24	0.1	0.1	0.1	11.1	**11.3**
2024 AVG.	0.1	0.1	0.1	11.3	**11.5**
Grand AVG.	0.0	0.1	0.2	12.6	**12.9**

Table 3
Treatment System Analytical Data - EW-1
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	9/25/2018	10/22/2018	3/26/2019	11/26/2019	5/26/2020	11/24/2020	5/18/2021	9/21/2021
Per- and Polyfluoroalkyl Substances (ng/L)											
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (HFPO-DA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2H, 2H, 3H, 3H-perfluorodecanoic acid (7:3 FTCA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2H, 2H, 3H, 3H-perfluorohexanoic acid (3:3 FTCA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2H, 2H, 3H, 3H-perfluorooctanoic acid (5:3 FTCA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4:2 Fluorotelomer sulfonate (4:2 FTS)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**2.12 J**	NA
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.62 U	NA
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CL-PF3ONS)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Ethyl perfluorooctane sulfonamide (N-EtFOSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Ethyl perfluorooctane sulfonamide ethanol (N-EtFOSE)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**51.1**	NA
N-Methyl perfluorooctane sulfonamide (N-MeFOSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	NA	NA	NA	NA	NA	NA	NA	NA	4.06 U	NA
Nonafluoro-3,6-Dioxaheptonic Acid (NFDHA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro (2-Ethoxyethane) Sulfonic Acid (PFEESA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro-3-methoxypropanoic aci (PFMPA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro-4-Methoxybutanic acid (PFMBA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutane sulfonic acid (PFBS)	--	NA	NA	NA	NA	NA	NA	NA	NA	**9.97 B**	NA
Perfluorobutanoic acid (PFBA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**131 B**	NA
Perfluorodecane sulfonic acid (PFDS)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.62 U	NA
Perfluorodecanoic acid (PFDA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.62 U	NA
Perfluorododecane sulfonic acid (PFDOS)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorododecanoic acid (PFDoA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.62 U	NA
Perfluoroheptane sulfonic acid (PFHpS)	--	NA	NA	NA	NA	NA	NA	NA	NA	**1.83**	NA
Perfluoroheptanoic acid (PFHpA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**150 B**	NA
Perfluorohexane sulfonic acid (PFHxS)	--	NA	NA	NA	NA	NA	NA	NA	NA	**32.6**	NA
Perfluorohexanoic acid (PFHxA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**401**	NA
Perfluorononane sulfonic acid (PFNS)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**2.24**	NA
Perfluorooctane sulfonamide (PFOSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.62 U	NA
Perfluorooctane sulfonic acid (PFOS)	--	NA	NA	NA	NA	NA	NA	NA	NA	**60.5 B**	NA
Perfluorooctanoic acid (PFOA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**1,140**	NA
Perfluoropentane sulfonic acid (PFPeSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Page 9.

Table 3
Treatment System Analytical Data - EW-1
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	9/25/2018	10/22/2018	3/26/2019	11/26/2019	5/26/2020	11/24/2020	5/18/2021	9/21/2021
Per- and Polyfluoroalkyl Substances (ng/L) (cont.)											
Perfluoropentanoic acid (PFPeA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**226**	NA
Perfluorotetradecanoic acid (PFTeDA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.62 U	NA
Perfluorotridecanoic acid (PFTrDA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.62 U	NA
Perfluoroundecanoic acid (PFUdA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.62 U	NA
Volatile Organic Compounds (ug/L)											
1,1,1,2-Tetrachloroethane	--	1.2 U	2.4 U	1.2 U	1.2 U	5.4 U	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	--	1.3 U	2.6 U	1.3 U	1.3 U	4 U	2.0 U	50 U	50 U	10 U	10 U
1,1,2,2-Tetrachloroethane	--	NA	NA	NA	NA	NA	2.0 UT	50 U	50 U	10 U	10 U
1,1,2-trichloro-1,2,2-trifluoroethane	--	2 U	3.9 U	2 U	2 U	6.4 U	2.0 U	50 U	50 U	10 U	10 U
1,1,2-Trichloroethane	--	2.4 U	4.7 U	2.4 U	2.4 U	3.2 U	2.0 U	50 U	50 U	10 U	10 U
1,1-Dichloroethane	30	1.6 U	3.2 U	1.6 U	1.6 U	3.2 U	2.0 U	50 U	50 U	10 U	10 U
1,1-Dichloroethene	--	**8 JD**	4.2 U	**5.1 JD**	**4.7 JD**	6.4 U	**3.2**	50 U	50 U	10 U	**6.2 J**
1,2,3-Trichlorobenzene	--	1.4 U	2.8 U	1.4 U	1.4 U	11 U	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	--	1.9 U	3.8 U	1.9 U	1.9 U	8 U	2.0 UT	50 U	50 U	10 U	10 U
1,2-Dibromo-3-chloropropane	--	3.7 U	7.4 U	3.7 U	3.7 U	11 U	2.0 U	50 U	50 U	10 U	10 U
1,2-Dibromoethane	--	1.5 U	3 U	1.5 U	1.5 U	3.8 U	2.0 U	50 U	50 U	10 U	10 U
1,2-Dichlorobenzene	--	1.7 U	3.4 U	1.7 U	1.7 U	3.2 U	2.0 U	50 U	50 U	10 U	10 U
1,2-Dichloroethane	--	1.9 U	3.9 U	1.9 U	1.9 U	8.2 U	2.0 U	50 U	50 U	10 U	10 U
1,2-Dichloropropane	--	1.3 U	2.6 U	1.3 U	1.3 U	4 U	2.0 U	50 U	50 U	10 U	10 U
1,3-Dichlorobenzene	--	1.7 U	3.4 U	1.7 U	1.7 U	2.4 U	2.0 U	50 U	50 U	10 U	10 U
1,4-Dichlorobenzene	--	1.5 U	3 U	1.5 U	1.5 U	2.6 U	**0.72 J**	50 U	50 U	10 U	10 U
1,4-Dioxane	--	260 U	530 U	260 U	260 U	450 U	NA	NA	NA	NA	NA
2-Butanone (MEK)	--	24 U	47 U	24 U	**100 JD**	39 U	10 U	500 U	500 U	100 U	100 U
4-Methyl-2-Pentanone	--	15 U	29 U	15 U	15 U	33 U	**43**	250 U	250 U	**45 J**	50 U
Acetone	--	97 U	190 U	97 U	97 U	76 U	**23**	500 U	500 U	100 U	100 U
Benzene	--	**6.5 JD**	2.4 U	**4.7 JD**	**3.1 JD**	3.6 U	**7.7**	50 U	50 U	**9.7 J**	10 U
Bromochloromethane	--	2.2 U	4.5 U	2.2 U	2.2 U	6.4 U	NA	NA	NA	NA	NA
Bromodichloromethane	--	3 U	5.9 U	3 U	3 U	3.2 U	2.0 U	50 U	50 U	10 U	10 U
Bromoform	--	2.1 U	4.2 U	2.1 U	2.1 U	9.2 U	2.0 U	50 U	50 U	10 U	10 U
Bromomethane	--	9.4 U	19 U	9.4 U	9.4 U	16 U	2.0 U	50 U	50 U	10 U	10 U
Carbon Disulfide	--	10 U	20 U	10 U	10 U	89 U	2.0 U	50 U	50 U	10 U	10 U
Carbon Tetrachloride	--	2.5 U	4.9 U	2.5 U	2.5 U	2.2 U	2.0 U	50 U	50 U	10 U	10 U
CFC-11	--	1.5 U	2.9 U	1.5 U	1.5 U	6.6 U	2.0 U	50 U	50 U	10 U	10 U

See Notes on Page 9.

Table 3
Treatment System Analytical Data - EW-1
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	9/25/2018	10/22/2018	3/26/2019	11/26/2019	5/26/2020	11/24/2020	5/18/2021	9/21/2021
Volatile Organic Compounds (ug/L) (cont.)											
CFC-12	--	2.8 U	5.7 U	2.8 U	2.8 U	5.2 U	**4.2**	50 U	50 U	10 U	10 U
Chlorobenzene	--	**8.8 JD**	3.2 U	**3.7 JD**	**2.1 JD**	3 U	**5.6**	50 U	50 U	**12**	10 U
Chlorodibromomethane	--	1 U	2.1 U	1 U	1 U	4.2 U	2.0 U	50 U	50 U	10 U	10 U
Chloroethane	20	2.8 U	5.6 U	2.8 U	2.8 U	7 U	2.0 U	50 U	50 U	10 U	10 U
Chloroform	150	NA	NA	NA	NA	NA	2.0 U	50 U	50 U	10 U	10 U
Chloromethane	--	NA	NA	NA	NA	NA	2.0 U	50 U	50 U	10 U	10 U
cis-1,2-Dichloroethene	30*	**1,200 D**	**850 D**	**890 D**	**970 D**	**770 D**	**450**	**1,500**	**800**	**390**	**1,100**
cis-1,3-Dichloropropene	--	1.2 U	2.4 U	1.2 U	1.2 U	2.6 U	2.0 U	50 U	50 U	10 U	10 U
Cyclohexane	--	2.5 U	5 U	2.5 U	**9.9 JD**	31 U	2.0 U	50 U	50 U	10 U	10 U
Dichloromethane	50	32 U	64 U	32 U	32 U	6.8 U	2.0 U	50 U	50 U	10 U	10 U
Ethylbenzene	--	**2.7 JD**	**4.2 JD**	**4.3 JD**	**2.5 JD**	2.6 U	**2.8**	50 U	50 U	10 U	10 U
Isopropylbenzene	--	1.2 U	2.4 U	**1.3 JD**	1.2 U	3.4 U	**1.4 J**	50 U	50 U	10 U	10 U
m&p-Xylenes	--	**10 JD**	**16 JD**	**13 JD**	**9.8 JD**	6.0 U	NA	NA	NA	NA	NA
Methyl Acetate	--	4.2 U	8.4 U	4.2 U	4.2 U	8.4 U	10 U	130 U	130 U	25 U	25 U
Methyl N-Butyl Ketone (2-Hexanone)	--	15 U	30 U	15 U	15 U	30 U	10 U	250 U	250 U	50 U	50 U
Methylcyclohexane	--	6.3 U	13 U	6.3 U	6.3 U	4.0 U	**0.59 J**	50 U	50 U	10 U	10 U
Methyl-tert-butylether	--	0.9 U	1.8 U	**3.8 JD**	0.9 U	5.0 U	2.0 U	50 U	50 U	10 U	10 U
o-Xylene	--	1.3 U	**4.6 JD**	**1.6 JD**	**1.6 JD**	3.4 U	NA	NA	NA	NA	NA
Styrene (Monomer)	--	1.5 U	3 U	1.5 U	1.5 U	2.2 U	2.0 U	50 U	50 U	10 U	10 U
Tetrachloroethene	--	2.7 U	5.4 U	2.7 U	2.7 U	3.6 U	2.0 U	50 U	50 U	10 U	10 U
Toluene	--	**3.0 JD**	**5.4 JD**	**5.5 JD**	**2.8 JD**	2.8 U	**9.2**	50 U	50 U	**13**	10 U
Total Xylenes	--	30 UD	60 UD	**13 JD**	30 UD	60 UD	**30**	100 U	100 U	**25**	20 U
trans-1,2-Dichloroethene	30*	**18 D**	**7.8 JD**	**8.3 JD**	**7.2 JD**	6.2 U	**4.3**	50 U	50 U	10 U	10 U
trans-1,3-Dichloropropene	--	1.1 U	2.2 U	1.1 U	1.1 U	4.6 U	2.0 U	50 U	50 U	10 U	10 U
Trichloroethene	--	2 U	4 U	2 U	2 U	4.8 U	2.0 U	50 U	50 U	10 U	10 U
Vinyl chloride	50	**1,500 D**	**1,200 D**	**1,700 D**	**1,400 D**	**1,500 D**	**630**	**2,400**	**1,700**	**560**	**3,300**
Total VOCs	--	**2,757 JD**	**2,088 JD**	**2,641.3 JD**	**2,513.7 JD**	**2,270 D**	**1,185.71**	**3,900**	**2,500**	**1,054.7**	**4,406.2 J**
1,4-Dioxane SIM (ug/L)											
1,4-Dioxane	--	NA	NA	NA	NA	NA	NA	NA	NA	**130 JH**	NA
Polychlorinated biphenyls (ug/L)											
Aroclor 1016	--	**2,500 D**	**14,000 D**	**870 D**	**4,400 D**	**240 D**	40 U	**610**	**5,100**	**8,600**	100 U
Aroclor 1221	--	400 U	2000 U	190 U	500 U	28 UD	40 U	50 U	250 U	500 U	100 U
Aroclor 1232	--	400 U	2000 U	190 U	500 U	28 UD	**450**	50 U	250 U	500 U	**3,000**
Aroclor 1242	--	400 U	2000 U	190 U	500 U	28 UD	40 U	50 U	250 U	500 U	100 U
Aroclor 1248	--	400 U	2000 U	190 U	500 U	28 UD	40 U	50 U	250 U	500 U	100 U
Aroclor 1254	--	400 U	2000 U	190 U	500 U	28 UD	40 U	50 U	250 U	500 U	100 U

See Notes on Page 9.

Table 3
Treatment System Analytical Data - EW-1
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	9/25/2018	10/22/2018	3/26/2019	11/26/2019	5/26/2020	11/24/2020	5/18/2021	9/21/2021
Polychlorinated biphenyls (ug/L) (cont.)											
Aroclor 1260	--	400 U	2000 U	190 U	500 U	28 UD	40 U	50 U	250 U	500 U	100 U
Aroclor 1262	--	400 U	2000 U	190 U	500 U	28 UD	40 U	50 U	250 U	500 U	100 U
Aroclor 1268	--	400 U	2000 U	190 U	500 U	28 UD	40 U	50 U	250 U	500 U	100 U
Total polychlorinated biphenyls	--	**2,500 D**	**14,000 D**	**870 D**	**4,400 D**	**240**	**450**	**610**	**5,100**	**8,600**	**3,000**
Metals (mg/L)											
Aluminum	--	0.05 U	0.05 U	**0.094**	**0.1**	0.05 U	**0.0296 J**	0.2 U	**3.99**	0.2 U	**0.0998 J**
Antimony	--	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic	0.15	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0051 J**	0.015 U	0.015 U	0.015 U	0.015 U
Barium	3.5	**0.6**	**0.59**	**0.45**	**0.47**	**0.21**	**0.392**	**0.305**	**0.281**	**0.498**	**0.547**
Beryllium	--	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Cadmium	0.001	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.002 U	**0.0058**	**0.0006 J**	0.002 U
Calcium	--	**180**	**170**	**150**	**150**	**140**	**161**	**154**	**145**	**170**	**170**
Chromium	0.21	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0036 J**	0.004 U	**0.0083**	**0.0027 JH**	0.004 U
Cobalt	0.005	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	**0.0072 J**	**0.0015 J**	**0.0034 J**	**0.0069**	**0.0027 J**
Copper	0.024	**0.012**	**0.011**	0.01 U	**0.017**	0.01 U	0.025 U	**0.0055 J**	**0.105**	**0.0112**	**0.0112**
Iron	0.3	**120**	**71**	**35**	**53**	**12**	**60.1**	**34.9**	**36**	**63.6 JH**	**65.3**
Lead	0.0032	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0198**	0.01 U	**0.0682**	**0.0082 J**	**0.0051 J**
Magnesium	--	**55 D**	**44**	**51 D**	**43**	**38**	**62.1**	**42.7**	**40.1**	**61.4**	**44.5**
Manganese	--	**1.8**	**2.0**	**1.7**	**1.8**	**1.7**	**0.847**	**2.0**	**1.76**	**1.02**	**1.94 B**
Mercury	0.0008	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Nickel	0.0096	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0256 J**	**0.0036 J**	**0.0408**	**0.0272**	**0.0075 J**
Potassium	--	**17**	**9.9**	**17 D**	**11**	**6.2**	**45.9**	**5.36**	**6.89**	**42.6**	**7.44**
Selenium	--	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.02 U	0.025 U	0.025 U	0.025 U	0.025 U
Silver	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.006 U	0.006 U	0.006 U	0.006 U
Sodium	--	**130**	**95**	**120 D**	**92**	**71**	**230**	**70.6**	**72.2**	**234**	**87 B**
Thallium	--	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Vanadium	0.014	**0.016**	0.01 U	**0.012**	**0.012**	0.01 U	**0.0039 J**	0.005 U	**0.0106**	**0.0041 J**	0.005 U
Zinc	0.17	0.02 U	**0.21**	0.02 U	0.02 U	0.02 U	**0.0203 J**	**0.0072 J**	**0.463**	**0.0225**	**0.017 B**
General Chemistry (mg/L)											
Total Dissolved Solids	500	**970**	**860**	**930**	**750**	**720**	**1,510**	**876**	**517**	**1,510**	**860**
Total Suspended Solids	50	**80**	**80**	**72**	**110**	**14**	**125**	**96.0**	**130**	**60.8**	**68.0**
TOC (mg/L)											
Total Organic Carbon	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Page 9.

Table 3
Treatment System Analytical Data - EW-1
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	11/16/2021	3/15/2022	6/28/2022	9/26/2022	12/21/2022	3/21/2023	6/20/2023	10/16/2023	12/19/2023	3/4/2024
Per- and Polyfluoroalkyl Substances (ng/L)											
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor)	--	NA	NA	NA	NA	NA	NA	NA	NA	40 U	20 U
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (HFPO-DA)	--	NA	NA	NA	NA	NA	NA	NA	NA	40 U	20 U
2H, 2H, 3H, 3H-perfluorodecanoic acid (7:3 FTCA)	--	NA	NA	NA	NA	NA	NA	NA	NA	500 U	250 U
2H, 2H, 3H, 3H-perfluorohexanoic acid (3:3 FTCA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**38 J**	**26 J**
2H, 2H, 3H, 3H-perfluorooctanoic acid (5:3 FTCA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**530**	**650**
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	--	NA	NA	NA	NA	NA	NA	NA	NA	40 U	20 U
4:2 Fluorotelomer sulfonate (4:2 FTS)	--	NA	NA	NA	NA	NA	NA	NA	NA	40 U	20 U
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	40 U	20 U
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	40 U	20 U
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CL-PF3ONS)	--	NA	NA	NA	NA	NA	NA	NA	NA	40 U	20 U
N-Ethyl perfluorooctane sulfonamide (N-EtFOSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	10 U	5.1 U
N-Ethyl perfluorooctane sulfonamide ethanol (N-EtFOSE)	--	NA	NA	NA	NA	NA	NA	NA	NA	100 U	51 U
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	NA	NA	NA	**1.7 J**	NA	NA	NA	NA	**94**	**290**
N-Methyl perfluorooctane sulfonamide (N-MeFOSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	10 U	5.1 U
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	--	NA	NA	NA	NA	NA	NA	NA	NA	100 U	51 U
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	10 U	**7.0**
Nonafluoro-3,6-Dioxaheptonic Acid (NFDHA)	--	NA	NA	NA	NA	NA	NA	NA	NA	20 U	10 U
Perfluoro (2-Ethoxyethane) Sulfonic Acid (PFEESA)	--	NA	NA	NA	NA	NA	NA	NA	NA	20 U	10 U
Perfluoro-3-methoxypropanoic aci (PFMPA)	--	NA	NA	NA	NA	NA	NA	NA	NA	20 U	10 U
Perfluoro-4-Methoxybutanic acid (PFMBA)	--	NA	NA	NA	NA	NA	NA	NA	NA	20 U	10 U
Perfluorobutane sulfonic acid (PFBS)	--	NA	NA	NA	**1.5 J**	NA	NA	NA	NA	**8.8 J**	5.1 U
Perfluorobutanoic acid (PFBA)	--	NA	NA	NA	**33 J**	NA	NA	NA	NA	**150**	20 U
Perfluorodecane sulfonic acid (PFDS)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	10 U	5.1 U
Perfluorodecanoic acid (PFDA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	10 U	5.1 U
Perfluorododecane sulfonic acid (PFDOS)	--	NA	NA	NA	NA	NA	NA	NA	NA	10 U	5.1 U
Perfluorododecanoic acid (PFDoA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	10 U	5.1 U
Perfluoroheptane sulfonic acid (PFHpS)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	10 U	**2.8 J**
Perfluoroheptanoic acid (PFHpA)	--	NA	NA	NA	**15**	NA	NA	NA	NA	**130**	**150**
Perfluorohexane sulfonic acid (PFHxS)	--	NA	NA	NA	**7.1**	NA	NA	NA	NA	**28**	**34**
Perfluorohexanoic acid (PFHxA)	--	NA	NA	NA	**91**	NA	NA	NA	NA	**390**	**500**
Perfluorononane sulfonic acid (PFNS)	--	NA	NA	NA	NA	NA	NA	NA	NA	10 U	5.1 U
Perfluorononanoic acid (PFNA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	**2.2 J**	**2.0 J**
Perfluorooctane sulfonamide (PFOSA)	--	NA	NA	NA	4.2 UJ	NA	NA	NA	NA	10 U	5.1 U
Perfluorooctane sulfonic acid (PFOS)	--	NA	NA	NA	**2.9 J**	NA	NA	NA	NA	**43**	**79**
Perfluorooctanoic acid (PFOA)	--	NA	NA	NA	**85**	NA	NA	NA	NA	**1,000**	**1,200**
Perfluoropentane sulfonic acid (PFPeSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**5.5 J**	**7.9**

See Notes on Page 9.

Table 3
Treatment System Analytical Data - EW-1
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	11/16/2021	3/15/2022	6/28/2022	9/26/2022	12/21/2022	3/21/2023	6/20/2023	10/16/2023	12/19/2023	3/4/2024
Per- and Polyfluoroalkyl Substances (ng/L) (cont.)											
Perfluoropentanoic acid (PFPeA)	--	NA	NA	NA	**51 J**	NA	NA	NA	NA	**230**	**240**
Perfluorotetradecanoic acid (PFTeDA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	10 U	5.1 U
Perfluorotridecanoic acid (PFTrDA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	10 U	5.1 U
Perfluoroundecanoic acid (PFUdA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	10 U	5.1 U
Volatile Organic Compounds (ug/L)											
1,1,1,2-Tetrachloroethane	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	--	80 U	1.0 U	25 U	25 U	50 U	5.0 U	20 U	2.0 U	25 U	4.0 U
1,1,2,2-Tetrachloroethane	--	80 U	1.0 U	12 U	12 U	25 U	2.5 U	10 U	1.0 U	12 U	2.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	--	80 U	1.0 U	25 U	25 U	50 U	5.0 U	20 U	2.0 U	25 U	4.0 U
1,1,2-Trichloroethane	--	80 U	1.0 U	25 U	25 U	50 U	5.0 U	20 U	2.0 U	25 U	4.0 U
1,1-Dichloroethane	30	80 U	1.0 U	25 U	25 U	50 U	5.0 U	20 U	2.0 U	25 U	4.0 U
1,1-Dichloroethene	--	80 U	**4.3**	25 U	25 U	50 U	5.0 U	20 U	2.0 U	25 U	**1.2 J**
1,2,3-Trichlorobenzene	--	NA	NA	120 U	120 U	250 U	25 U	100 U	10 U	120 U	20 U
1,2,4-Trichlorobenzene	--	80 U	1.0 U	25 U	25 U	50 U	5.0 U	20 U	2.0 U	25 U	4.0 U
1,2-Dibromo-3-chloropropane	--	80 U	1.0 U	120 U	120 U	250 U	25 U	100 U	10 U	120 U	20 U
1,2-Dibromoethane	--	80 U	1.0 U	12 U	12 U	25 U	2.5 U	10 U	1.0 U	12 U	2.0 U
1,2-Dichlorobenzene	--	80 U	1.0 U	25 U	25 U	50 U	5.0 U	20 U	2.0 U	25 U	4.0 U
1,2-Dichloroethane	--	80 U	1.0 U	25 U	25 U	50 U	5.0 U	20 U	2.0 U	25 U	4.0 U
1,2-Dichloropropane	--	80 U	1.0 U	25 U	25 U	50 U	5.0 U	20 U	2.0 U	25 U	4.0 U
1,3-Dichlorobenzene	--	80 U	1.0 U	25 U	25 U	50 U	5.0 U	20 U	2.0 U	25 U	4.0 U
1,4-Dichlorobenzene	--	80 U	1.0 U	25 U	25 U	50 U	5.0 U	20 U	2.0 U	25 U	**1.4 J**
1,4-Dioxane	--	NA	NA	1,200 U	1,200 U	2,500 U	250 U	1,000 U	100 U	1,200 U	**120 J**
2-Butanone (MEK)	--	800 U	5.0 U	500 U	500 U	1,000 U	100 U	400 U	40 U	**93 J**	**24 J**
4-Methyl-2-Pentanone	--	400 U	5.0 U	250 U	250 U	500 U	50 U	200 U	**22**	250 U	**17 J**
Acetone	--	800 U	5.0 U	1,200 U	1,200 U	2,500 U	250 U	1,000 U	100 U	**78 J**	**21 J**
Benzene	--	80 U	**1.5**	25 U	25 U	50 U	5.0 U	20 U	**7.7**	**12 J**	**12**
Bromochloromethane	--	NA	NA	25 U	25 U	50 U	5.0 U	20 U	2.0 U	25 U	4.0 U
Bromodichloromethane	--	80 U	1.0 U	12 U	12 U	25 U	2.5 U	10 U	1.0 U	12 U	2.0 U
Bromoform	--	80 U	1.0 U	25 U	25 U	50 U	5.0 U	20 U	2.0 U	25 U	4.0 U
Bromomethane	--	80 U	1.0 U	50 U	50 UJ	100 U	10 U	40 U	4.0 U	50 U	8.0 U
Carbon Disulfide	--	80 U	1.0 U	120 U	120 U	250 U	25 U	100 U	10 U	120 U	20 U
Carbon Tetrachloride	--	80 U	1.0 U	120 U	120 U	250 U	25 U	100 U	10 U	120 U	20 U
CFC-11	--	80 U	1.0 U	50 U	50 U	100 U	10 U	40 U	4.0 U	50 U	8.0 U

See Notes on Page 9.

Table 3
Treatment System Analytical Data - EW-1
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	11/16/2021	3/15/2022	6/28/2022	9/26/2022	12/21/2022	3/21/2023	6/20/2023	10/16/2023	12/19/2023	3/4/2024
Volatile Organic Compounds (ug/L) (cont.)											
CFC-12	--	80 U	1.0 U	50 U	50 U	100 U	10 U	40 U	4.0 U	50 U	8.0 U
Chlorobenzene	--	80 U	**1.1**	25 U	25 U	50 U	5.0 U	20 U	**9.9**	**9.5 J**	**15**
Chlorodibromomethane	--	80 U	1.0 U	12 U	12 U	25 U	2.5 U	10 U	1.0 U	12 U	2.0 U
Chloroethane	20	80 U	1.0 U	50 U	50 U	100 U	10 U	40 U	4.0 U	50 U	8.0 U
Chloroform	150	80 U	1.0 U	50 U	50 U	100 U	10 U	40 U	4.0 U	50 U	8.0 U
Chloromethane	--	80 U	1.0 U	50 U	50 U	100 U	10 U	40 U	4.0 U	50 U	8.0 U
cis-1,2-Dichloroethene	30*	**800**	**671**	**730 D**	**450 D**	**430 D**	**350 D**	**370**	**170**	**340**	**170**
cis-1,3-Dichloropropene	--	80 U	1.0 U	12 U	12 U	25 U	2.5 U	10 U	1.0 U	12 U	2.0 U
Cyclohexane	--	80 U	1.0 U	120 U	120 U	250 U	25 U	100 U	10 U	120 U	20 U
Dichloromethane	50	80 U	1.0 U	120 U	120 U	250 U	25 U	100 U	10 U	120 U	20 U
Ethylbenzene	--	80 U	**1.7**	25 U	25 U	50 U	5.0 U	20 U	**4.0**	25 U	**4.0 J**
Isopropylbenzene	--	80 U	1.0 U	25 U	25 U	50 U	5.0 U	20 U	**2.2**	25 U	**3.0 J**
m&p-Xylenes	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	--	200 U	1.0 U	25 U	25 U	50 U	5.0 U	20 U	2.0 U	25 U	4.0 U
Methyl N-Butyl Ketone (2-Hexanone)	--	400 U	5.0 U	250 U	250 U	500 U	50 U	200 U	20 U	250 U	40 U
Methylcyclohexane	--	80 U	1.0 U	25 U	25 U	50 U	5.0 U	20 U	2.0 U	25 U	4.0 U
Methyl-tert-butylether	--	80 U	1.0 U	25 U	25 U	50 U	5.0 U	20 U	2.0 U	25 U	**1.0 J**
o-Xylene	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene (Monomer)	--	80 U	1.0 U	25 U	25 U	50 U	5.0 U	20 U	2.0 U	25 U	4.0 U
Tetrachloroethene	--	80 U	1.0 U	25 U	25 U	50 U	5.0 U	20 U	2.0 U	25 U	4.0 U
Toluene	--	80 U	**1.1**	25 U	25 U	50 U	5.0 U	20 U	**20**	**22 J**	**13**
Total Xylenes	--	160 U	3.0 U	25 U	25 U	50 U	5.0 U	20 U	**28**	25 U	**22**
trans-1,2-Dichloroethene	30*	80 U	**2.7**	25 U	25 U	50 U	5.0 U	20 U	2.0 U	25 U	**1.0 J**
trans-1,3-Dichloropropene	--	80 U	1.0 U	12 U	12 U	25 U	2.5 U	10 U	1.0 U	12 U	2.0 U
Trichloroethene	--	80 U	1.0 U	25 U	25 U	50 U	5.0 U	20 U	2.0 U	25 U	4.0 U
Vinyl chloride	50	**3,100**	**2,790**	**3,600 D**	**2,300 D**	**2,600 D**	**2,100 D**	**2,500**	**540**	**840**	**370**
Total VOCs	--	**3,900**	**3,473.4**	**4,330 D**	**2,750 D**	**3,030 D**	**2,450**	**2,870**	**775.8**	**1,395 J**	**773.6 J**
1,4-Dioxane SIM (ug/L)											
1,4-Dioxane	--	NA	NA	NA	**49**	NA	NA	NA	NA	**110**	**93**
Polychlorinated biphenyls (ug/L)											
Aroclor 1016	--	250 U	47.2 U	**783 D**	**1,300 D**	25.3 U	**470 D**	**162**	**1,720**	**173**	**33,100**
Aroclor 1221	--	250 U	47.2 U	75.2 U	98 U	38 U	96.2 U	20.2 U	190 U	40.4 U	8250 U
Aroclor 1232	--	**2,100**	47.2 U	69.1 U	98 U	34.9 U	96.2 U	20.2 U	190 U	40.4 U	8250 U
Aroclor 1242	--	250 U	**541**	72.6 U	98 U	**499 D**	96.2 U	20.2 U	190 U	40.4 U	8250 U
Aroclor 1248	--	250 U	47.2 U	84.2 U	98 U	42.5 U	96.2 U	20.2 U	190 U	40.4 U	8250 U
Aroclor 1254	--	250 U	47.2 U	74.2 U	98 U	37.5 U	96.2 U	20.2 U	190 U	40.4 U	8250 U

See Notes on Page 9.

Table 3
Treatment System Analytical Data - EW-1
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	11/16/2021	3/15/2022	6/28/2022	9/26/2022	12/21/2022	3/21/2023	6/20/2023	10/16/2023	12/19/2023	3/4/2024
Polychlorinated biphenyls (ug/L) (cont.)											
Aroclor 1260	--	250 U	47.2 U	59.1 U	98 U	29.8 U	96.2 U	20.2 U	190 U	40.4 U	8250 U
Aroclor 1262	--	250 U	NA	NA	98 U	NA	NA	NA	NA	NA	NA
Aroclor 1268	--	250 U	NA	NA	98 U	NA	NA	NA	NA	NA	NA
Total polychlorinated biphenyls	--	**2,100**	**541**	**783 D**	**1,300 D**	**499 D**	**470 D**	**162**	**1,720**	**173**	**33,100**
Metals (mg/L)											
Aluminum	--	**0.0703 J**	0.2 U	**0.077**	**0.077**	**0.067**	**0.061**	0.050 U	**0.10**	**0.53**	**0.11**
Antimony	--	0.02 U	0.06 U	0.05 U	**0.020 J**	0.05 U	0.05 U	0.050 U	0.050 U	0.050 U	0.050 U
Arsenic	0.15	0.015 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	**0.0074 J**
Barium	3.5	**0.427**	**0.304**	**0.29**	**0.28**	**0.25**	**0.23**	**0.21**	**0.43**	**0.59**	**0.55**
Beryllium	--	0.002 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U
Cadmium	0.001	0.002 U	0.0025 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0040 U	0.0040 U	**0.0021 J**	0.0040 U
Calcium	--	**159**	**146**	**140**	**140**	**140**	**140**	**140**	**160**	**150**	**160**
Chromium	0.21	**0.0018 J**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U
Cobalt	0.005	**0.0018 J**	0.05 U	0.01 U	**0.0029 J**	0.01 U	0.01 U	0.010 U	0.010 U	**0.0080 J**	**0.011**
Copper	0.024	**0.0099 J**	**0.0369**	**0.036**	0.01 U	**0.036**	**0.021**	0.010 U	0.010 U	**0.0085 J**	0.010 U
Iron	0.3	**41.3**	**27.4**	**29**	**41**	**34**	**22**	**18**	**64**	**130**	**88**
Lead	0.0032	**0.0084 J**	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	**0.020**	**0.021**	**0.016**
Magnesium	--	**41.9**	**40.3**	**37**	**40 D**	**38**	**40**	**37**	**63**	**58**	**61**
Manganese	--	**1.86**	**1.67**	**1.7**	**1.7**	**1.8**	**1.8**	**1.6**	**1.2**	**1.1**	**0.70**
Mercury	0.0008	0.0002 U	0.0002 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
Nickel	0.0096	**0.0047 J**	0.04 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	**0.027**	**0.024**	**0.026**
Potassium	--	**5.38**	**5.23**	**4.5**	**4.8**	**4.4**	**4.4**	**3.8**	**40**	**36**	**46**
Selenium	--	0.025 U	0.01 U	0.05 U	0.05 U	0.05 U	0.05 U	0.050 U	0.050 U	0.050 U	0.050 U
Silver	--	0.006 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U
Sodium	--	**71**	**65**	**62**	**62**	**62**	**66**	**64 MS-19**	**220**	**200**	**240**
Thallium	--	0.02 U	0.01 U	0.05 U	0.05 U	0.05 U	0.05 U	0.050 U	0.050 V-20U	0.050 U	0.050 U
Vanadium	0.014	0.005 U	0.05 U	**0.012**	**0.0092 J**	0.01 U	**0.011**	0.010 U	0.010 U	**0.017**	0.010 U
Zinc	0.17	**0.0092 J**	0.02 U	**0.022**	0.01 U	**0.022**	**0.015**	0.010 U	**0.043**	**0.079**	**0.0080 J**
General Chemistry (mg/L)											
Total Dissolved Solids	500	**716**	**765**	**720**	NA	**640**	**640**	**680**	**1,300**	**1,300**	**1,300**
Total Suspended Solids	50	**40.4**	**66**	**88**	NA	**84**	**36**	**44**	**63**	**210**	**180**
TOC (mg/L)											
Total Organic Carbon	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	**92**

See Notes on Page 9.

Table 3
Treatment System Analytical Data - EW-1
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Notes:
Constituents detected above the Fort Edward State Pollution Discharge Elimination System (SPDES) Equivalency Permit are highlighted in yellow.
Values in bold text indicate a detection.
"--" - Value does not exist for analyte.
* - The Fort Edward SPDES Equivalency Permit Limit for 1,2-Dichloroethene is a total limit of 30 ug/L for cis- and trans-1,2-Dichloroethene combined.

Definitions:
B - Compound was found in the blank and sample.
D - Sample was diluted prior to analysis of the compound.
H - Sample was extracted past the recommended holding time.
J - The concentration is an approximate value.
mg/L - milligrams per liter
MS-19 - Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
NA - Not Analyzed
ND - Not Detected
ng/L - nanograms per liter
T - LCS or LCSD is outside acceptable limits.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
ug/L - micrograms per liter

Table 4
Treatment System Analytical Data - EW-2
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	9/25/2018	10/22/2018	3/26/2019	11/26/2019	5/26/2020	11/24/2020	5/18/2021	9/21/2021
Per- and Polyfluoroalkyl Substances (ng/L)											
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (HFPO-DA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2H, 2H, 3H, 3H-perfluorodecanoic acid (7:3 FTCA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2H, 2H, 3H, 3H-perfluorohexanoic acid (3:3 FTCA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2H, 2H, 3H, 3H-perfluorooctanoic acid (5:3 FTCA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4:2 Fluorotelomer sulfonate (4:2 FTS)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	4.12 U	NA
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.65 U	NA
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CL-PF3ONS)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Ethyl perfluorooctane sulfonamide (N-EtFOSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Ethyl perfluorooctane sulfonamide ethanol (N-EtFOSE)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**2.12 J**	NA
N-Methyl perfluorooctane sulfonamide (N-MeFOSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	NA	NA	NA	NA	NA	NA	NA	NA	4.12 U	NA
Nonafluoro-3,6-Dioxaheptonic Acid (NFDHA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro (2-Ethoxyethane) Sulfonic Acid (PFEESA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro-3-methoxypropanoic aci (PFMPA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro-4-Methoxybutanic acid (PFMBA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutane sulfonic acid (PFBS)	--	NA	NA	NA	NA	NA	NA	NA	NA	**2.92 B**	NA
Perfluorobutanoic acid (PFBA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**17.7 B**	NA
Perfluorodecane sulfonic acid (PFDS)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.65 U	NA
Perfluorodecanoic acid (PFDA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.65 U	NA
Perfluorododecane sulfonic acid (PFDOS)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorododecanoic acid (PFDoA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.65 U	NA
Perfluoroheptane sulfonic acid (PFHpS)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.65 U	NA
Perfluoroheptanoic acid (PFHpA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**20.6 B**	NA
Perfluorohexane sulfonic acid (PFHxS)	--	NA	NA	NA	NA	NA	NA	NA	NA	**9.64**	NA
Perfluorohexanoic acid (PFHxA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**51.2**	NA
Perfluorononane sulfonic acid (PFNS)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**0.61 J**	NA
Perfluorooctane sulfonamide (PFOSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.65 U	NA
Perfluorooctane sulfonic acid (PFOS)	--	NA	NA	NA	NA	NA	NA	NA	NA	**18.6 B**	NA
Perfluorooctanoic acid (PFOA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**54.9**	NA
Perfluoropentane sulfonic acid (PFPeSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Page 9.

Table 4
Treatment System Analytical Data - EW-2
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	9/25/2018	10/22/2018	3/26/2019	11/26/2019	5/26/2020	11/24/2020	5/18/2021	9/21/2021
Per- and Polyfluoroalkyl Substances (ng/L) (cont.)											
Perfluoropentanoic acid (PFPeA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**26.3**	NA
Perfluorotetradecanoic acid (PFTeDA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.65 U	NA
Perfluorotridecanoic acid (PFTrDA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.65 U	NA
Perfluoroundecanoic acid (PFUdA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.65 U	NA
Volatile Organic Compounds (ug/L)											
1,1,1,2-Tetrachloroethane	--	0.12 U	0.12 U	0.12 U	0.12 U	0.27 U	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	--	0.13 U	0.13 U	0.13 U	0.13 U	0.2 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1,2,2-Tetrachloroethane	--	NA	NA	NA	NA	NA	1.0 UT	2.0 U	2.0 U	2.0 U	2.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	--	0.2 U	0.2 U	0.2 U	0.2 U	0.32 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1,2-Trichloroethane	--	0.24 U	0.24 U	0.24 U	0.24 U	0.16 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1-Dichloroethane	30	**1.0**	**1.0**	**0.99 J**	**1.1**	0.16 U	**0.91 J**	**0.77 J**	2.0 U	2.0 U	**0.89 J**
1,1-Dichloroethene	--	0.21 U	0.21 U	0.21 U	0.21 U	0.32 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2,3-Trichlorobenzene	--	0.14 U	0.14 U	0.14 U	0.14 U	0.57 U	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	--	0.19 U	0.19 U	0.19 U	0.19 U	0.4 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromo-3-chloropropane	--	0.37 U	0.37 U	0.37 U	0.37 U	0.53 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane	--	0.15 U	0.15 U	0.15 U	0.15 U	0.19 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	--	0.17 U	0.17 U	0.17 U	0.17 U	0.16 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichloroethane	--	0.19 U	0.19 U	0.19 U	0.19 U	0.41 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichloropropane	--	0.13 U	0.13 U	0.13 U	0.13 U	0.2 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,3-Dichlorobenzene	--	0.17 U	0.17 U	0.17 U	0.17 U	0.12 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	--	**0.37 J**	**0.44 J**	**0.4 J**	**0.32 J**	**0.28 J**	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,4-Dioxane	--	**49 J**	26 U	**38 J**	**53 J**	**44 J**	NA	NA	NA	NA	NA
2-Butanone (MEK)	--	2.4 U	2.4 U	2.4 U	2.4 U	1.9 U	5.0 U	20 U	20 U	20 U	20 U
4-Methyl-2-Pentanone	--	1.5 U	1.5 U	1.5 U	1.5 U	1.7 U	5.0 U	10 U	10 U	10 U	10 U
Acetone	--	9.7 U	**15 J**	**12 J**	9.7 U	**37 J**	5.0 U	20 U	20 U	**9.6 J**	**8.8 J**
Benzene	--	**4.7**	**5.9**	**5.0**	**5.7**	**1.5**	**5.2**	**4.4**	2.0 U	**3.4**	**4.3**
Bromochloromethane	--	0.22 U	0.22 U	0.22 U	0.22 U	0.32 U	NA	NA	NA	NA	NA
Bromodichloromethane	--	0.3 U	0.3 U	0.3 U	0.3 U	0.16 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bromoform	--	0.21 U	0.21 U	0.21 U	0.21 U	0.46 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bromomethane	--	0.94 U	0.94 U	0.94 U	0.94 U	0.78 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Carbon Disulfide	--	1.0 U	1.0 U	1.0 U	1.0 U	4.4 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Carbon Tetrachloride	--	0.25 U	0.25 U	0.25 U	0.25 U	0.11 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U
CFC-11	--	0.15 U	0.15 U	0.15 U	0.15 U	0.33 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U

See Notes on Page 9.

Table 4
Treatment System Analytical Data - EW-2
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	9/25/2018	10/22/2018	3/26/2019	11/26/2019	5/26/2020	11/24/2020	5/18/2021	9/21/2021
Volatile Organic Compounds (ug/L) (cont.)											
CFC-12	--	**0.32 J**	0.28 U	0.28 U	0.28 U	0.26 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chlorobenzene	--	**1.3**	**1.4**	**1.6**	**1.2**	**0.55 J**	**1.2**	**1.7 J**	2.0 U	**1.5 J**	**1.8 J**
Chlorodibromomethane	--	0.1 U	0.1 U	0.1 U	0.1 U	0.21 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroethane	20	**0.33 J**	0.28 U	0.28 U	0.28 U	0.35 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroform	150	NA	NA	NA	NA	NA	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloromethane	--	NA	NA	NA	NA	NA	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	30*	**0.65 J**	0.15 U	**0.5 J**	**0.78 J**	0.13 U	**0.36 J**	2.0 U	2.0 U	2.0 U	2.0 U
cis-1,3-Dichloropropene	--	0.12 U	0.12 U	0.12 U	0.12 U	0.13 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Cyclohexane	--	**0.69 J**	0.25 U	0.25 U	0.25 U	1.5 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Dichloromethane	50	3.2 U	3.2 U	3.2 U	3.2 U	0.34 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Ethylbenzene	--	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Isopropylbenzene	--	**0.34 J**	**0.39 J**	**0.38 J**	**0.35 J**	0.17 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U
m&p-Xylenes	--	**1.3 J**	**1.4 J**	**1.1 J**	**1.6 J**	0.3 U	NA	NA	NA	NA	NA
Methyl Acetate	--	0.42 U	**2.5**	0.42 U	0.42 U	0.42 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl N-Butyl Ketone (2-Hexanone)	--	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	5.0 U	10 U	10 U	10 U	10 U
Methylcyclohexane	--	0.63 U	0.63 U	0.63 U	0.63 U	0.2 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methyl-tert-butylether	--	**0.81 J**	**0.82 J**	**0.84 J**	**0.91 J**	**0.34 J**	**0.77 J**	**0.73 J**	2.0 U	**0.71 J**	2.0 U
o-Xylene	--	**0.19 J**	**0.2 J**	**0.15 J**	**0.2 J**	0.17 U	NA	NA	NA	NA	NA
Styrene (Monomer)	--	0.15 U	0.15 U	0.15 U	0.15 U	0.11 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	--	0.27 U	0.27 U	0.27 U	0.27 U	0.18 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Toluene	--	0.17 U	**0.27 J**	0.17 U	0.17 U	**0.84 J**	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total Xylenes	--	3.0 U	3.0 U	**1.1 J**	3.0 U	3 U	**1.4 J**	4.0 U	4.0 U	4.0 U	4.0 U
trans-1,2-Dichloroethene	30*	0.15 U	0.15 U	0.15 U	0.15 U	0.31 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U
trans-1,3-Dichloropropene	--	0.11 U	0.11 U	0.11 U	0.11 U	0.23 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Trichloroethene	--	0.2 U	0.2 U	0.2 U	0.2 U	0.24 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Vinyl chloride	50	**0.36 J**	0.13 U	**0.35 J**	**0.43 J**	0.45 U	**0.41 J**	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs	--	**61.36 J**	**29.32 J**	**62.41 J**	**65.59 J**	**84.51 J**	**10.25 J**	**7.6 J**	ND	**15.21 J**	**15.79 J**
1,4-Dioxane SIM (ug/L)											
1,4-Dioxane	--	NA	NA	NA	NA	NA	NA	NA	NA	**44 JH**	NA
Polychlorinated biphenyls (ug/L)											
Aroclor 1016	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U	**0.30 J**	0.50 U
Aroclor 1221	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U	0.50 U	0.50 U
Aroclor 1232	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	**1.3**	0.50 U	0.50 U
Aroclor 1242	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U	0.50 U	0.50 U
Aroclor 1248	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U	0.50 U	0.50 U
Aroclor 1254	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U	0.50 U	0.50 U

See Notes on Page 9.

Table 4
Treatment System Analytical Data - EW-2
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	9/25/2018	10/22/2018	3/26/2019	11/26/2019	5/26/2020	11/24/2020	5/18/2021	9/21/2021
Polychlorinated biphenyls (ug/L) (cont.)											
Aroclor 1260	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U	0.50 U	0.50 U
Aroclor 1262	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U	0.50 U	0.50 U
Aroclor 1268	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U	0.50 U	0.50 U
Total polychlorinated biphenyls	--	ND	ND	ND	ND	ND	ND	ND	**1.3**	**0.30 J**	ND
Metals (mg/L)											
Aluminum	--	0.05 U	**0.094**	**0.18**	0.05 U	**0.22**	**0.049 J**	0.2 U	0.2 U	0.2 U	0.2 U
Antimony	--	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic	0.15	**0.057**	**0.031**	**0.035**	**0.045**	**0.035**	**0.0243**	**0.0223**	**0.0206**	**0.0168**	**0.0183**
Barium	3.5	**0.21**	**0.19**	**0.15**	**0.17**	**0.17**	**0.124 J**	**0.131**	**0.129**	**0.14**	**0.155**
Beryllium	--	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Cadmium	0.001	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.002 U	0.002 U	0.002 U	0.002 U
Calcium	--	**120**	**130**	**120**	**120**	**120**	**116**	**124**	**120**	**120**	**119**
Chromium	0.21	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0028 J**	0.004 U	0.004 U	0.004 U	0.004 U
Cobalt	0.005	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	**0.005 J**	**0.0054**	**0.0049**	**0.0038 J**	**0.0036 J**
Copper	0.024	**0.012**	**0.021**	**0.036**	**0.029**	**0.029**	**0.0139 J**	0.01 U	**0.0017 J**	**0.0309**	**0.0343**
Iron	0.3	**57**	**48**	**29**	**34**	**44**	**20.9**	**20.4**	**21.6**	**18 JH**	**23.7**
Lead	0.0032	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0041 J**	0.01 U	**0.007 J**	0.01 U	**0.0049 J**
Magnesium	--	**45 D**	**42**	**44 D**	**42**	**43**	**38.7**	**43.9**	**42.4**	**41.6**	**40.8**
Manganese	--	**1.0**	**0.9**	**0.95**	**0.98**	**0.87**	**0.721**	**0.984**	**0.96**	**0.879**	**0.872 B**
Mercury	0.0008	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Nickel	0.0096	0.01 U	**0.011**	**0.011**	**0.01**	**0.012**	**0.0121 J**	**0.0122**	**0.0142**	**0.0118**	**0.0112**
Potassium	--	**2.3**	**3.1**	**2.7**	**2.6**	**2.9**	**2.9 J**	**2.57**	**2.44**	**2.67**	**2.75**
Selenium	--	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.02 U	0.025 U	0.025 U	0.025 U	0.025 U
Silver	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.006 U	0.006 U	0.006 U	0.006 U
Sodium	--	**97**	**110**	**110**	**110**	**100**	**94.6**	**105**	**107**	**105**	**107 B**
Thallium	--	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Vanadium	0.014	**0.013**	0.01 U	**0.011**	**0.011**	0.01 U	0.05 U	0.005 U	0.005 U	0.005 U	0.005 U
Zinc	0.17	0.02 U	**0.021**	**0.065**	0.02 U	**0.044**	**0.616**	**0.0025 J**	**0.0045 J**	**0.0612**	**0.0904 B**
General Chemistry (mg/L)											
Total Dissolved Solids	500	**720**	**720**	**730**	**740**	**680**	**748**	**829**	**612**	**793**	**752**
Total Suspended Solids	50	**110**	**120**	**63**	**140**	**96**	**66.5**	**36.4**	**44.0**	**58.8**	**60.4**
TOC (mg/L)											
Total Organic Carbon	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Page 9.

Table 4
Treatment System Analytical Data - EW-2
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	11/16/2021	3/15/2022	6/28/2022	9/26/2022	12/21/2022	3/21/2023	6/20/2023	10/16/2023	12/19/2023	3/4/2024
Per- and Polyfluoroalkyl Substances (ng/L)											
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor)	--	NA	NA	NA	NA	NA	NA	NA	NA	20 U	3.8 U
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (HFPO-DA)	--	NA	NA	NA	NA	NA	NA	NA	NA	20 U	3.8 U
2H, 2H, 3H, 3H-perfluorodecanoic acid (7:3 FTCA)	--	NA	NA	NA	NA	NA	NA	NA	NA	250 U	47 U
2H, 2H, 3H, 3H-perfluorohexanoic acid (3:3 FTCA)	--	NA	NA	NA	NA	NA	NA	NA	NA	50 U	**2.4 J**
2H, 2H, 3H, 3H-perfluorooctanoic acid (5:3 FTCA)	--	NA	NA	NA	NA	NA	NA	NA	NA	250 U	**15 J**
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	--	NA	NA	NA	NA	NA	NA	NA	NA	20 U	3.8 U
4:2 Fluorotelomer sulfonate (4:2 FTS)	--	NA	NA	NA	NA	NA	NA	NA	NA	20 U	3.8 U
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	20 U	3.8 U
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	20 U	3.8 U
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CL-PF3ONS)	--	NA	NA	NA	NA	NA	NA	NA	NA	20 U	3.8 U
N-Ethyl perfluorooctane sulfonamide (N-EtFOSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	0.95 U
N-Ethyl perfluorooctane sulfonamide ethanol (N-EtFOSE)	--	NA	NA	NA	NA	NA	NA	NA	NA	50 U	9.5 U
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	NA	NA	NA	**3.4 J**	NA	NA	NA	NA	5.0 U	**2.5**
N-Methyl perfluorooctane sulfonamide (N-MeFOSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	0.95 U
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	--	NA	NA	NA	NA	NA	NA	NA	NA	50 U	9.5 U
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	5.0 U	0.95 U
Nonafluoro-3,6-Dioxaheptonic Acid (NFDHA)	--	NA	NA	NA	NA	NA	NA	NA	NA	10 U	1.9 U
Perfluoro (2-Ethoxyethane) Sulfonic Acid (PFEESA)	--	NA	NA	NA	NA	NA	NA	NA	NA	10 U	1.9 U
Perfluoro-3-methoxypropanoic aci (PFMPA)	--	NA	NA	NA	NA	NA	NA	NA	NA	10 U	1.9 U
Perfluoro-4-Methoxybutanic acid (PFMBA)	--	NA	NA	NA	NA	NA	NA	NA	NA	10 U	1.9 U
Perfluorobutane sulfonic acid (PFBS)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	**1.8 J**	0.95 U
Perfluorobutanoic acid (PFBA)	--	NA	NA	NA	**26 J**	NA	NA	NA	NA	**31**	3.8 U
Perfluorodecane sulfonic acid (PFDS)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	5.0 U	0.95 U
Perfluorodecanoic acid (PFDA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	5.0 U	0.95 U
Perfluorododecane sulfonic acid (PFDOS)	--	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	0.95 U
Perfluorododecanoic acid (PFDoA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	5.0 U	0.95 U
Perfluoroheptane sulfonic acid (PFHpS)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	5.0 U	**0.58 J**
Perfluoroheptanoic acid (PFHpA)	--	NA	NA	NA	**18 J**	NA	NA	NA	NA	**16**	**18**
Perfluorohexane sulfonic acid (PFHxS)	--	NA	NA	NA	**19**	NA	NA	NA	NA	**7.5**	**7.4**
Perfluorohexanoic acid (PFHxA)	--	NA	NA	NA	**53**	NA	NA	NA	NA	**44**	**46**
Perfluorononane sulfonic acid (PFNS)	--	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	0.95 U
Perfluorononanoic acid (PFNA)	--	NA	NA	NA	**0.82 J**	NA	NA	NA	NA	5.0 U	0.95 U
Perfluorooctane sulfonamide (PFOSA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	5.0 U	0.95 U
Perfluorooctane sulfonic acid (PFOS)	--	NA	NA	NA	**25 J**	NA	NA	NA	NA	**15**	**18**
Perfluorooctanoic acid (PFOA)	--	NA	NA	NA	**65**	NA	NA	NA	NA	**45**	**48**
Perfluoropentane sulfonic acid (PFPeSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**2.1 J**	**2.3**

See Notes on Page 9.

Table 4
Treatment System Analytical Data - EW-2
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	11/16/2021	3/15/2022	6/28/2022	9/26/2022	12/21/2022	3/21/2023	6/20/2023	10/16/2023	12/19/2023	3/4/2024
Per- and Polyfluoroalkyl Substances (ng/L) (cont.)											
Perfluoropentanoic acid (PFPeA)	--	NA	NA	NA	**20 J**	NA	NA	NA	NA	**35**	**30**
Perfluorotetradecanoic acid (PFTeDA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	5.0 U	0.95 U
Perfluorotridecanoic acid (PFTrDA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	5.0 U	0.95 U
Perfluoroundecanoic acid (PFUdA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	5.0 U	0.95 U
Volatile Organic Compounds (ug/L)											
1,1,1,2-Tetrachloroethane	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	--	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,1,2,2-Tetrachloroethane	--	2.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.50 U	0.50 U	1.0 U	0.50 U
1,1,2-trichloro-1,2,2-trifluoroethane	--	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,1,2-Trichloroethane	--	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,1-Dichloroethane	30	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	**0.68 J**	**0.80 J**
1,1-Dichloroethene	--	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,2,3-Trichlorobenzene	--	NA	NA	10 U	10 U	5 U	10 U	5.0 U	5.0 U	10 U	5.0 U
1,2,4-Trichlorobenzene	--	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,2-Dibromo-3-chloropropane	--	2.0 U	1.0 U	10 U	10 U	5.0 U	10 U	5.0 U	5.0 U	10 U	5.0 U
1,2-Dibromoethane	--	2.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.50 U	0.50 U	1.0 U	0.50 U
1,2-Dichlorobenzene	--	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,2-Dichloroethane	--	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,2-Dichloropropane	--	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,3-Dichlorobenzene	--	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,4-Dichlorobenzene	--	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	**0.45 J**
1,4-Dioxane	--	NA	NA	100 U	100 U	50 U	100 U	50 U	50 U	100 U	50 U
2-Butanone (MEK)	--	20 U	5.0 U	40 U	40 U	20 U	40 U	20 U	20 U	40 U	20 U
4-Methyl-2-Pentanone	--	10 U	5.0 U	20 U	20 U	10 U	20 U	10 U	10 U	20 U	10 U
Acetone	--	20 U	5.0 U	100 U	**5.9 J**	50 U	100 U	50 U	50 U	**7.5 J**	**4.7 J**
Benzene	--	**3.9**	**3.9**	**3.9 D**	**1.3 J**	**1.6**	2.0 U	**1.5**	**3.7**	**3.4**	**4.1**
Bromochloromethane	--	NA	NA	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Bromodichloromethane	--	2.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.50 U	0.50 U	1.0 U	0.50 U
Bromoform	--	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Bromomethane	--	2.0 U	1.0 U	4.0 U	4.0 UJ	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	2.0 U
Carbon Disulfide	--	2.0 U	1.0 U	10 U	10 U	5.0 U	10 U	5.0 U	5.0 U	10 U	5.0 U
Carbon Tetrachloride	--	2.0 U	1.0 U	10 U	10 U	5.0 U	10 U	5.0 U	5.0 U	10 U	5.0 U
CFC-11	--	2.0 U	1.0 U	4.0 U	4.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	2.0 U

See Notes on Page 9.

Table 4
Treatment System Analytical Data - EW-2
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	11/16/2021	3/15/2022	6/28/2022	9/26/2022	12/21/2022	3/21/2023	6/20/2023	10/16/2023	12/19/2023	3/4/2024
Volatile Organic Compounds (ug/L) (cont.)											
CFC-12	--	2.0 U	1.0 U	4.0 U	4.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	**0.42 J**
Chlorobenzene	--	**2.0**	**1.6**	**2.2 D**	**0.66 J**	1.0 U	2.0 U	**1.4**	**2.0**	**1.4 J**	**1.9**
Chlorodibromomethane	--	2.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.50 U	0.50 U	1.0 U	0.50 U
Chloroethane	20	2.0 U	1.0 U	4.0 U	4.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	**0.84 J**
Chloroform	150	2.0 U	1.0 U	4.0 U	4.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	2.0 U
Chloromethane	--	2.0 U	1.0 U	4.0 U	4.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	2.0 U
cis-1,2-Dichloroethene	30*	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	**0.20 J**
cis-1,3-Dichloropropene	--	2.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.50 U	0.50 U	1.0 U	0.50 U
Cyclohexane	--	2.0 U	1.0 U	10 U	10 U	5.0 U	10 U	5.0 U	5.0 U	10 U	5.0 U
Dichloromethane	50	2.0 U	1.0 U	10 U	10 U	5.0 U	10 U	5.0 U	5.0 U	10 U	5.0 U
Ethylbenzene	--	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Isopropylbenzene	--	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
m&p-Xylenes	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	--	5.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Methyl N-Butyl Ketone (2-Hexanone)	--	10 U	5.0 U	20 U	20 U	10 U	20 U	10 U	10 U	20 U	10 U
Methylcyclohexane	--	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Methyl-tert-butylether	--	**0.55 J**	1.0 U	2.0 U	**0.42 J**	1.0 U	2.0 U	1.0 U	1.0 U	**0.52 J**	**0.62 J**
o-Xylene	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene (Monomer)	--	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Tetrachloroethene	--	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Toluene	--	2.0 U	1.0 U	2.0 U	2.0 U	**1.1**	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Total Xylenes	--	4.0 U	3.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
trans-1,2-Dichloroethene	30*	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
trans-1,3-Dichloropropene	--	2.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.50 U	0.50 U	1.0 U	0.50 U
Trichloroethene	--	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Vinyl chloride	50	2.0 U	1.0 U	4.0 U	4.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	2.0 U
Total VOCs	--	**6.45 J**	**5.5**	**6.1**	**2.38 J**	**2.7**	ND	**2.9**	**5.7**	**13.5 J**	**14.03 J**
1,4-Dioxane SIM (ug/L)											
1,4-Dioxane	--	NA	NA	NA	**42**	NA	NA	NA	NA	**37 J**	**32**
Polychlorinated biphenyls (ug/L)											
Aroclor 1016	--	0.50 U	0.94 U	0.0502 U	0.2 U	**0.0746 J**	0.192 U	0.202 U	0.189 U	0.196 U	**0.386**
Aroclor 1221	--	0.50 U	0.94 U	0.0752 U	0.2 U	0.0774 U	0.192 U	0.202 U	0.189 U	0.196 U	0.194 U
Aroclor 1232	--	**0.86**	0.94 U	0.0691 U	0.2 U	0.0711 U	0.192 U	0.202 U	0.189 U	0.196 U	0.194 U
Aroclor 1242	--	0.50 U	**2.0**	0.0726 U	0.2 U	0.0747 U	0.192 U	0.202 U	0.189 U	0.196 U	0.194 U
Aroclor 1248	--	0.50 U	0.94 U	0.0842 U	0.2 U	0.0867 U	0.192 U	0.202 U	0.189 U	0.196 U	0.194 U
Aroclor 1254	--	0.50 U	0.94 U	0.0742 U	0.2 U	0.0764 U	0.192 U	0.202 U	0.189 U	0.196 U	0.194 U

See Notes on Page 9.

Table 4
Treatment System Analytical Data - EW-2
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	11/16/2021	3/15/2022	6/28/2022	9/26/2022	12/21/2022	3/21/2023	6/20/2023	10/16/2023	12/19/2023	3/4/2024
Polychlorinated biphenyls (ug/L) (cont.)											
Aroclor 1260	--	0.50 U	0.94 U	0.0591 U	0.2 U	0.0609 U	0.192 U	0.202 U	0.189 U	0.196 U	0.194 U
Aroclor 1262	--	0.50 U	NA	NA	0.2 U	NA	NA	NA	NA	NA	NA
Aroclor 1268	--	0.50 U	NA	NA	0.2 U	NA	NA	NA	NA	NA	NA
Total polychlorinated biphenyls	--	**0.86**	**2.0**	ND	ND	**0.0746 J**	ND	ND	ND	ND	**0.386**
Metals (mg/L)											
Aluminum	--	0.2 U	0.2 U	0.05 U	**0.017 J**	0.05 U	0.05 U	0.050 U	0.050 U	0.050 U	**0.043 J**
Antimony	--	0.02 U	0.06 U	0.05 U	**0.021 J**	0.05 U	0.05 U	0.050 U	0.050 U	0.050 U	0.050 U
Arsenic	0.15	**0.0167**	**0.0285**	**0.065**	0.01 U	**0.019**	**0.029**	**0.037**	**0.020**	**0.072**	**0.021**
Barium	3.5	**0.127**	**0.208**	**0.32**	**0.10**	**0.21**	**0.33**	**0.50**	**0.14**	**0.28**	**0.14**
Beryllium	--	0.002 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U
Cadmium	0.001	0.002 U	0.0025 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U
Calcium	--	**116**	**118**	**120**	**120**	**120**	**99**	**98**	**110**	**110**	**110**
Chromium	0.21	0.004 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U
Cobalt	0.005	**0.0037 J**	0.05 U	0.01 U	**0.0097 J**	0.01 U	0.01 U	0.010 U	0.010 U	**0.0043 J**	**0.0037 J**
Copper	0.024	**0.012**	**0.0414**	**0.025**	0.01 U	**0.015**	0.01 U	0.010 U	0.010 U	0.010 U	**0.0068 J**
Iron	0.3	**19.7**	**59.4**	**76**	**45**	**55**	**58**	**65**	**20**	**82**	**17**
Lead	0.0032	**0.0107**	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U
Magnesium	--	**40.2**	**41.8**	**40**	**47 D**	**45**	**40**	**37**	**42**	**42**	**41**
Manganese	--	**0.899**	**0.913**	**0.79**	**0.82**	**0.28**	**0.12**	**0.046**	**0.70**	**0.83**	**0.65**
Mercury	0.0008	0.0002 U	0.0002 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
Nickel	0.0096	**0.0096 J**	**0.0604**	**0.011**	**0.0099 J**	0.01 U	0.01 U	0.010 U	**0.011**	**0.0097 J**	**0.010**
Potassium	--	**2.23**	5 U	**2.9**	**3.6**	**3.9**	**4.3**	**4.3**	**2.7**	**2.6**	**2.7**
Selenium	--	0.025 U	0.01 U	0.05 U	0.05 U	0.05 U	0.05 U	0.050 U	0.050 U	0.050 U	0.050 U
Silver	--	0.006 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U
Sodium	--	**95.5**	**95.8**	**100**	**98**	**100**	**74**	**59**	**100**	**96**	**100**
Thallium	--	0.02 U	0.01 U	0.05 U	0.05 U	0.05 U	0.05 U	0.050 U	0.050 U	0.050 U	0.050 U
Vanadium	0.014	0.005 U	0.05 U	**0.014**	**0.013**	0.01 U	0.01 U	0.010 U	0.010 U	**0.0074 J**	0.010 U
Zinc	0.17	**0.0096 J**	0.02 U	**0.033**	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U
General Chemistry (mg/L)											
Total Dissolved Solids	500	**667**	**751**	**730**	NA	**670**	**520**	**560**	**660**	**770**	**640**
Total Suspended Solids	50	**42.4**	**56**	**170**	NA	**100**	**76**	**100**	**35**	**140**	**40**
TOC (mg/L)											
Total Organic Carbon	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	**20**

See Notes on Page 9.

Table 4
Treatment System Analytical Data - EW-2
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Notes:
Constituents detected above the Fort Edward State Pollution Discharge Elimination System (SPDES) Equivalency Permit are highlighted in yellow.
Values in bold text indicate a detection.
"--" - Value does not exist for analyte.
* - The Fort Edward SPDES Equivalency Permit Limit for 1,2-Dichloroethene is a total limit of 30 ug/L for cis- and trans-1,2-Dichloroethene combined.

Definitions:
B - Compound was found in the blank and sample.
D - Sample was diluted prior to analysis of the compound.
H - Sample was extracted past the recommended holding time.
J - The concentration is an approximate value.
mg/L - milligrams per liter
NA - Not Analyzed
ND - Not Detected
ng/L - nanograms per liter
T - LCS or LCSD is outside acceptable limits.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
ug/L - micrograms per liter

Table 5
Treatment System Analytical Data - EW-3
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	9/25/2018	10/22/2018	3/26/2019	11/26/2019	5/18/2021	9/21/2021
Per- and Polyfluoroalkyl Substances (ng/L)									
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor)	--	NA	NA	NA	NA	NA	NA	NA	NA
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (HFPO-DA)	--	NA	NA	NA	NA	NA	NA	NA	NA
2H, 2H, 3H, 3H-perfluorodecanoic acid (7:3 FTCA)	--	NA	NA	NA	NA	NA	NA	NA	NA
2H, 2H, 3H, 3H-perfluorohexanoic acid (3:3 FTCA)	--	NA	NA	NA	NA	NA	NA	NA	NA
2H, 2H, 3H, 3H-perfluorooctanoic acid (5:3 FTCA)	--	NA	NA	NA	NA	NA	NA	NA	NA
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	--	NA	NA	NA	NA	NA	NA	NA	NA
4:2 Fluorotelomer sulfonate (4:2 FTS)	--	NA	NA	NA	NA	NA	NA	NA	NA
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	--	NA	NA	NA	NA	NA	NA	4.29 U	NA
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	--	NA	NA	NA	NA	NA	NA	1.71 U	NA
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CL-PF3ONS)	--	NA	NA	NA	NA	NA	NA	NA	NA
N-Ethyl perfluoroctane sulfonamide (N-EtFOSA)	--	NA	NA	NA	NA	NA	NA	NA	NA
N-Ethyl perfluorooctane sulfonamide ethanol (N-EtFOSE)	--	NA	NA	NA	NA	NA	NA	NA	NA
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	NA	NA	NA	NA	NA	NA	**1.67 J**	NA
N-Methyl perfluorooctane sulfonamide (N-MeFOSA)	--	NA	NA	NA	NA	NA	NA	NA	NA
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	--	NA	NA	NA	NA	NA	NA	NA	NA
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	NA	NA	NA	NA	NA	NA	4.29 U	NA
Nonafluoro-3,6-Dioxaheptonic Acid (NFDHA)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro (2-Ethoxyethane) Sulfonic Acid (PFEESA)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro-3-methoxypropanoic aci (PFMPA)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro-4-Methoxybutanic acid (PFMBA)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutane sulfonic acid (PFBS)	--	NA	NA	NA	NA	NA	NA	**2.34 JH**	NA
Perfluorobutanoic acid (PFBA)	--	NA	NA	NA	NA	NA	NA	**10.5 B**	NA
Perfluorodecane sulfonic acid (PFDS)	--	NA	NA	NA	NA	NA	NA	1.71 U	NA
Perfluorodecanoic acid (PFDA)	--	NA	NA	NA	NA	NA	NA	1.71 U	NA
Perfluorododecane sulfonic acid (PFDOS)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorododecanoic acid (PFDoA)	--	NA	NA	NA	NA	NA	NA	1.71 U	NA
Perfluoroheptane sulfonic acid (PFHpS)	--	NA	NA	NA	NA	NA	NA	1.71 U	NA
Perfluoroheptanoic acid (PFHpA)	--	NA	NA	NA	NA	NA	NA	**13.7 B**	NA
Perfluorohexane sulfonic acid (PFHxS)	--	NA	NA	NA	NA	NA	NA	**5.65**	NA
Perfluorohexanoic acid (PFHxA)	--	NA	NA	NA	NA	NA	NA	**35.3**	NA
Perfluorononane sulfonic acid (PFNS)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	--	NA	NA	NA	NA	NA	NA	**0.35 J**	NA
Perfluorooctane sulfonamide (PFOSA)	--	NA	NA	NA	NA	NA	NA	1.71 U	NA
Perfluorooctane sulfonic acid (PFOS)	--	NA	NA	NA	NA	NA	NA	**14.8 B**	NA
Perfluorooctanoic acid (PFOA)	--	NA	NA	NA	NA	NA	NA	**30.1**	NA
Perfluoropentane sulfonic acid (PFPeSA)	--	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Page 9.

Table 5
Treatment System Analytical Data - EW-3
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	9/25/2018	10/22/2018	3/26/2019	11/26/2019	5/18/2021	9/21/2021
Per- and Polyfluoroalkyl Substances (ng/L) (cont.)									
Perfluoropentanoic acid (PFPeA)	--	NA	NA	NA	NA	NA	NA	**17.5**	NA
Perfluorotetradecanoic acid (PFTeDA)	--	NA	NA	NA	NA	NA	NA	1.71 U	NA
Perfluorotridecanoic acid (PFTrDA)	--	NA	NA	NA	NA	NA	NA	1.71 U	NA
Perfluoroundecanoic acid (PFUdA)	--	NA	NA	NA	NA	NA	NA	1.71 U	NA
Volatile Organic Compounds (ug/L)									
1,1,1,2-Tetrachloroethane	--	0.12 U	0.12 U	0.12 U	0.12 U	0.27 U	NA	NA	NA
1,1,1-Trichloroethane	--	0.13 U	0.13 U	0.13 U	0.13 U	0.2 U	1.0 U	1.0 U	2.0 U
1,1,2,2-Tetrachloroethane	--	NA	NA	NA	NA	NA	1.0 UT	1.0 U	2.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	--	0.2 U	0.2 U	0.2 U	0.2 U	0.32 U	1.0 U	1.0 U	2.0 U
1,1,2-Trichloroethane	--	0.24 U	0.24 U	0.24 U	0.24 U	0.16 U	1.0 U	1.0 U	2.0 U
1,1-Dichloroethane	30	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	1.0 U	1.0 U	2.0 U
1,1-Dichloroethene	--	0.21 U	0.21 U	0.21 U	0.21 U	0.32 U	1.0 U	1.0 U	2.0 U
1,2,3-Trichlorobenzene	--	0.14 U	0.14 U	0.14 U	0.14 U	0.57 U	NA	NA	NA
1,2,4-Trichlorobenzene	--	0.19 U	0.19 U	0.19 U	0.19 U	0.4 U	1.0 U	1.0 U	2.0 U
1,2-Dibromo-3-chloropropane	--	0.37 U	0.37 U	0.37 U	0.37 U	0.53 U	1.0 U	1.0 U	2.0 U
1,2-Dibromoethane	--	0.15 U	0.15 U	0.15 U	0.15 U	0.19 U	1.0 U	1.0 U	2.0 U
1,2-Dichlorobenzene	--	**0.46 J**	**0.41 J**	**0.45 J**	**0.45 J**	**0.37 J**	**0.46 J**	1.0 U	2.0 U
1,2-Dichloroethane	--	0.19 U	0.19 U	0.19 U	0.19 U	0.41 U	1.0 U	1.0 U	2.0 U
1,2-Dichloropropane	--	0.13 U	0.13 U	0.13 U	0.13 U	0.2 U	1.0 U	1.0 U	2.0 U
1,3-Dichlorobenzene	--	**0.35 J**	**0.28 J**	**0.32 J**	**0.34 J**	**0.25 J**	1.0 U	1.0 U	2.0 U
1,4-Dichlorobenzene	--	**5.4**	**4.4**	**5.8**	**5.3**	**5.5**	**5.1**	**5.4**	**5.0**
1,4-Dioxane	--	**53**	26 U	**52**	**59 J**	**56**	NA	NA	NA
2-Butanone (MEK)	--	2.4 U	2.4 U	2.4 U	2.4 U	1.9 U	5.0 U	10 U	20 U
4-Methyl-2-Pentanone	--	1.5 U	1.5 U	1.5 U	1.5 U	1.7 U	5.0 U	5.0 U	10 U
Acetone	--	9.7 U	**20 J**	**110**	**23 J**	**16 J**	**15**	**7.9 J**	**14 J**
Benzene	--	**2.6**	**2.8**	**2.9**	**3.0**	**0.88 J**	**2.3**	**2.4**	**2.7**
Bromochloromethane	--	0.22 U	0.22 U	0.22 U	0.22 U	0.32 U	NA	NA	NA
Bromodichloromethane	--	0.3 U	0.3 U	0.3 U	0.3 U	0.16 U	1.0 U	1.0 U	2.0 U
Bromoform	--	0.21 U	0.21 U	0.21 U	0.21 U	0.46 U	1.0 U	1.0 U	2.0 U
Bromomethane	--	0.94 U	0.94 U	0.94 U	0.94 U	0.78 U	1.0 U	1.0 U	2.0 U
Carbon Disulfide	--	1.0 U	1.0 U	1.0 U	1.0 U	4.4 U	1.0 U	1.0 U	2.0 U
Carbon Tetrachloride	--	0.25 U	0.25 U	0.25 U	0.25 U	0.11 U	1.0 U	1.0 U	2.0 U
CFC-11	--	0.15 U	0.15 U	0.15 U	0.15 U	0.33 U	1.0 U	1.0 U	2.0 U

See Notes on Page 9.

Table 5
Treatment System Analytical Data - EW-3
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	9/25/2018	10/22/2018	3/26/2019	11/26/2019	5/18/2021	9/21/2021
Volatile Organic Compounds (ug/L) (cont.)									
CFC-12	--	0.28 U	0.28 U	0.28 U	0.28 U	0.26 U	1.0 U	1.0 U	2.0 U
Chlorobenzene	--	**18**	**19**	**21**	**17**	**12**	**18**	**19**	**19**
Chlorodibromomethane	--	0.1 U	0.1 U	0.1 U	0.1 U	0.21 U	1.0 U	1.0 U	2.0 U
Chloroethane	20	**0.79 J**	**0.73 J**	0.28 U	**0.64 J**	0.35 U	**0.71 J**	1.0 U	2.0 U
Chloroform	150	NA	NA	NA	NA	NA	1.0 U	1.0 U	2.0 U
Chloromethane	--	NA	NA	NA	NA	NA	1.0 U	1.0 U	2.0 U
cis-1,2-Dichloroethene	30*	0.15 U	0.15 U	0.15 U	0.15 U	0.13 U	1.0 U	1.0 U	2.0 U
cis-1,3-Dichloropropene	--	0.12 U	0.12 U	0.12 U	0.12 U	0.13 U	1.0 U	1.0 U	2.0 U
Cyclohexane	--	**1.2 J**	0.25 U	**0.56 J**	**1.0 J**	1.5 U	**0.52 J**	**1.1**	2.0 U
Dichloromethane	50	3.2 U	3.2 U	3.2 U	3.2 U	0.34 U	1.0 U	1.0 U	2.0 U
Ethylbenzene	--	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	1.0 U	1.0 U	2.0 U
Isopropylbenzene	--	**0.61 J**	**0.62 J**	**0.84 J**	**0.74 J**	**0.51 J**	**0.62 J**	1.0 U	2.0 U
m&p-Xylenes	--	0.26 U	0.26 U	0.26 U	0.26 U	0.3 U	NA	NA	NA
Methyl Acetate	--	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	5.0 U	2.5 U	5.0 U
Methyl N-Butyl Ketone (2-Hexanone)	--	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	5.0 U	5.0 U	10 U
Methylcyclohexane	--	0.63 U	0.63 U	0.63 U	0.63 U	0.2 U	**0.38 J**	**0.41 J**	2.0 U
Methyl-tert-butylether	--	**0.44 J**	**0.48 J**	**0.46 J**	**0.49 J**	**0.44 J**	1.0 U	**0.45 J**	2.0 U
o-Xylene	--	**0.18 J**	**0.18 J**	**0.17 J**	**0.2 J**	0.17 U	NA	NA	NA
Styrene (Monomer)	--	0.15 U	0.15 U	0.15 U	0.15 U	0.11 U	1.0 U	1.0 U	2.0 U
Tetrachloroethene	--	0.27 U	0.27 U	0.27 U	0.27 U	0.18 U	1.0 U	1.0 U	2.0 U
Toluene	--	0.17 U	0.17 U	0.17 U	**0.19 J**	0.14 U	1.0 U	1.0 U	2.0 U
Total Xylenes	--	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	2.0 U	2.0 U	4.0 U
trans-1,2-Dichloroethene	30*	0.15 U	0.15 U	0.15 U	0.15 U	0.31 U	1.0 U	1.0 U	2.0 U
trans-1,3-Dichloropropene	--	0.11 U	0.11 U	0.11 U	0.11 U	0.23 U	1.0 U	1.0 U	2.0 U
Trichloroethene	--	0.2 U	0.2 U	0.2 U	0.2 U	0.24 U	1.0 U	1.0 U	2.0 U
Vinyl chloride	50	0.13 U	0.13 U	0.13 U	0.13 U	0.45 U	1.0 U	1.0 U	2.0 U
Total VOCs	--	**83.03 J**	**48.9 J**	**194.5 J**	**111.35 J**	**91.95 J**	**43.09 J**	**36.66 J**	**40.7 J**
1,4-Dioxane SIM (ug/L)									
1,4-Dioxane	--	NA	NA	NA	NA	NA	NA	**68 JH**	NA
Polychlorinated biphenyls (ug/L)									
Aroclor 1016	--	0.22 U	0.2 U	0.21 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U
Aroclor 1221	--	0.22 U	0.2 U	0.21 U	0.2 U	0.14 U	**1.7**	0.50 U	0.50 U
Aroclor 1232	--	0.22 U	0.2 U	0.21 U	0.2 U	0.14 U	0.80 U	**1.9**	0.50 U
Aroclor 1242	--	0.22 U	0.2 U	0.21 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U
Aroclor 1248	--	0.22 U	0.2 U	0.21 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U
Aroclor 1254	--	0.22 U	0.2 U	0.21 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U

See Notes on Page 9.

Table 5
Treatment System Analytical Data - EW-3
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	9/25/2018	10/22/2018	3/26/2019	11/26/2019	5/18/2021	9/21/2021
Polychlorinated biphenyls (ug/L) (cont.)									
Aroclor 1260	--	0.22 U	0.2 U	0.21 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U
Aroclor 1262	--	0.22 U	0.2 U	0.21 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U
Aroclor 1268	--	0.22 U	0.2 U	0.21 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U
Total polychlorinated biphenyls	--	ND	ND	ND	ND	ND	**1.7**	**1.9**	ND
Metals (mg/L)									
Aluminum	--	**0.078**	0.05 U	**0.12**	**0.062**	**0.052**	**0.394**	0.2 U	0.2 U
Antimony	--	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.02 U	0.02 U	0.02 U
Arsenic	0.15	**0.045**	**0.021**	**0.016**	0.01 U	0.01 U	**0.0135 J**	**0.0097 JH**	0.015 U
Barium	3.5	**0.77**	**0.76**	**0.32**	**0.23**	**0.19**	**0.222**	**0.191**	**0.231**
Beryllium	--	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.002 U	0.002 U	0.002 U
Cadmium	0.001	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.002 U	0.002 U
Calcium	--	**78**	**79**	**72**	**82**	**48**	**72.6**	**77.8**	**81.6**
Chromium	0.21	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0046 J**	0.004 U	0.004 U
Cobalt	0.005	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	**0.0099 J**	**0.0097**	**0.012**
Copper	0.024	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.025 U	**0.0029 J**	0.01 U
Iron	0.3	**180**	**150**	**53**	**38**	**23**	**51.6**	**31.9 JH**	**72**
Lead	0.0032	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0068 J**	0.01 U	**0.0045 J**
Magnesium	--	**36 D**	**35**	**37 D**	**37**	**28**	**34.3**	**37**	**37.8**
Manganese	--	**0.25**	**0.25**	**0.22**	**0.33**	**0.058**	**0.237**	**0.254**	**0.295 B**
Mercury	0.0008	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0002 U	0.0002 U	0.0002 U
Nickel	0.0096	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0087 J**	**0.0086 J**	**0.0094 J**
Potassium	--	**32**	**43 D**	**36 D**	**37**	**39**	**29.7**	**33.3**	**33.2**
Selenium	--	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.02 U	0.025 U	0.025 U
Silver	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.006 U	0.006 U
Sodium	--	**66**	**81**	**77 D**	**75**	**84**	**60.6**	**65.4**	**65.9 B**
Thallium	--	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.02 U	0.02 U	0.02 U
Vanadium	0.014	**0.035**	**0.03**	**0.02**	**0.013**	0.01 U	**0.0063 J**	**0.0048 J**	**0.0038 J**
Zinc	0.17	**0.098**	0.02 U	0.02 U	0.02 U	0.02 U	**0.0244 J**	0.01 U	**0.0053 BJ**
General Chemistry (mg/L)									
Total Dissolved Solids	500	**570**	**700**	**580**	**540**	**540**	**592**	**630**	**587**
Total Suspended Solids	50	**68**	**63**	**110**	**80**	**70**	**226**	**64.4**	**110**
TOC (mg/L)									
Total Organic Carbon	--	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Page 9.

Table 5
Treatment System Analytical Data - EW-3
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	11/16/2021	3/15/2022	6/28/2022	9/26/2022	12/21/2022	6/20/2023	10/16/2023	12/19/2023	3/4/2024
Per- and Polyfluoroalkyl Substances (ng/L)										
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor)	--	NA	NA	NA	NA	NA	NA	NA	80 U	40 U
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (HFPO-DA)	--	NA	NA	NA	NA	NA	NA	NA	80 U	40 U
2H, 2H, 3H, 3H-perfluorodecanoic acid (7:3 FTCA)	--	NA	NA	NA	NA	NA	NA	NA	1000 U	500 U
2H, 2H, 3H, 3H-perfluorohexanoic acid (3:3 FTCA)	--	NA	NA	NA	NA	NA	NA	NA	200 U	100 U
2H, 2H, 3H, 3H-perfluorooctanoic acid (5:3 FTCA)	--	NA	NA	NA	NA	NA	NA	NA	1000 U	500 U
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	--	NA	NA	NA	NA	NA	NA	NA	80 U	40 U
4:2 Fluorotelomer sulfonate (4:2 FTS)	--	NA	NA	NA	NA	NA	NA	NA	80 U	40 U
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	--	NA	NA	NA	4.1 U	NA	NA	NA	80 U	40 U
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	--	NA	NA	NA	4.1 U	NA	NA	NA	80 U	40 U
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CL-PF3ONS)	--	NA	NA	NA	NA	NA	NA	NA	80 U	40 U
N-Ethyl perfluoroctane sulfonamide (N-EtFOSA)	--	NA	NA	NA	NA	NA	NA	NA	20 U	10 U
N-Ethyl perfluorooctane sulfonamide ethanol (N-EtFOSE)	--	NA	NA	NA	NA	NA	NA	NA	200 U	100 U
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	NA	NA	NA	4.1 U	NA	NA	NA	20 U	10 U
N-Methyl perfluorooctane sulfonamide (N-MeFOSA)	--	NA	NA	NA	NA	NA	NA	NA	20 U	10 U
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	--	NA	NA	NA	NA	NA	NA	NA	200 U	100 U
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	NA	NA	NA	4.1 U	NA	NA	NA	20 U	10 U
Nonafluoro-3,6-Dioxaheptonic Acid (NFDHA)	--	NA	NA	NA	NA	NA	NA	NA	40 U	20 U
Perfluoro (2-Ethoxyethane) Sulfonic Acid (PFEESA)	--	NA	NA	NA	NA	NA	NA	NA	40 U	20 U
Perfluoro-3-methoxypropanoic aci (PFMPA)	--	NA	NA	NA	NA	NA	NA	NA	40 U	20 U
Perfluoro-4-Methoxybutanic acid (PFMBA)	--	NA	NA	NA	NA	NA	NA	NA	40 U	20 U
Perfluorobutane sulfonic acid (PFBS)	--	NA	NA	NA	**0.99 J**	NA	NA	NA	20 U	10 U
Perfluorobutanoic acid (PFBA)	--	NA	NA	NA	**21 J**	NA	NA	NA	**46 J**	40 U
Perfluorodecane sulfonic acid (PFDS)	--	NA	NA	NA	4.1 U	NA	NA	NA	20 U	10 U
Perfluorodecanoic acid (PFDA)	--	NA	NA	NA	4.1 U	NA	NA	NA	20 U	10 U
Perfluorododecane sulfonic acid (PFDOS)	--	NA	NA	NA	NA	NA	NA	NA	20 U	10 U
Perfluorododecanoic acid (PFDoA)	--	NA	NA	NA	4.1 U	NA	NA	NA	20 U	10 U
Perfluoroheptane sulfonic acid (PFHpS)	--	NA	NA	NA	4.1 U	NA	NA	NA	20 U	10 U
Perfluoroheptanoic acid (PFHpA)	--	NA	NA	NA	**10**	NA	NA	NA	**10 J**	**10**
Perfluorohexane sulfonic acid (PFHxS)	--	NA	NA	NA	**9.1 J**	NA	NA	NA	**5.0 J**	**5.2 J**
Perfluorohexanoic acid (PFHxA)	--	NA	NA	NA	**26**	NA	NA	NA	**23**	**23**
Perfluorononane sulfonic acid (PFNS)	--	NA	NA	NA	NA	NA	NA	NA	20 U	10 U
Perfluorononanoic acid (PFNA)	--	NA	NA	NA	4.1 U	NA	NA	NA	20 U	10 U
Perfluorooctane sulfonamide (PFOSA)	--	NA	NA	NA	4.1 U	NA	NA	NA	20 U	10 U
Perfluorooctane sulfonic acid (PFOS)	--	NA	NA	NA	**11 J**	NA	NA	NA	**13 J**	**11**
Perfluorooctanoic acid (PFOA)	--	NA	NA	NA	**35**	NA	NA	NA	**30**	**30**
Perfluoropentane sulfonic acid (PFPeSA)	--	NA	NA	NA	NA	NA	NA	NA	20 U	10 U

See Notes on Page 9.

Table 5
Treatment System Analytical Data - EW-3
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	11/16/2021	3/15/2022	6/28/2022	9/26/2022	12/21/2022	6/20/2023	10/16/2023	12/19/2023	3/4/2024
Per- and Polyfluoroalkyl Substances (ng/L) (cont.)										
Perfluoropentanoic acid (PFPeA)	--	NA	NA	NA	**11**	NA	NA	NA	**19 J**	**11 J**
Perfluorotetradecanoic acid (PFTeDA)	--	NA	NA	NA	4.1 U	NA	NA	NA	20 U	10 U
Perfluorotridecanoic acid (PFTrDA)	--	NA	NA	NA	4.1 U	NA	NA	NA	20 U	10 U
Perfluoroundecanoic acid (PFUdA)	--	NA	NA	NA	4.1 U	NA	NA	NA	20 U	10 U
Volatile Organic Compounds (ug/L)										
1,1,1,2-Tetrachloroethane	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	--	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
1,1,2,2-Tetrachloroethane	--	2.0 U	1.0 U	1.0 U	0.5 U	0.5 U	0.50 U	1.0 U	1.0 U	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	--	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
1,1,2-Trichloroethane	--	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
1,1-Dichloroethane	30	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
1,1-Dichloroethene	--	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
1,2,3-Trichlorobenzene	--	NA	NA	10 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	--	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromo-3-chloropropane	--	2.0 U	1.0 U	10 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
1,2-Dibromoethane	--	2.0 U	1.0 U	1 U	0.5 U	0.5 U	0.50 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	--	2.0 U	1.0 U	2.0 U	**0.41 J**	1.0 U	1.0 U	2.0 U	**0.34 J**	**0.42 J**
1,2-Dichloroethane	--	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichloropropane	--	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
1,3-Dichlorobenzene	--	2.0 U	1.0 U	2.0 U	**0.31 J**	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	--	**5.3**	**5.7**	**5.7 D**	**5.0**	**5.3**	**4.6**	**4.4**	**3.9**	**4.0**
1,4-Dioxane	--	NA	NA	100 U	**42 J**	**55**	50 U	100 U	100 U	100 U
2-Butanone (MEK)	--	20 U	5.0 U	40 U	20 U	20 U	20 U	40 U	40 U	40 U
4-Methyl-2-Pentanone	--	10 U	5.0 U	20 U	10 U	10 U	10 U	20 U	20 U	20 U
Acetone	--	20 U	**25.2**	100 U	**51**	50 U	**120**	100 U	**14 J**	**11 J**
Benzene	--	**2.9**	**3.0**	**2.7 D**	**2.8**	**3.0**	**2.5**	2.0 U	**2.4**	**2.0**
Bromochloromethane	--	NA	NA	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
Bromodichloromethane	--	2.0 U	1.0 U	1.0 U	0.5 U	0.5 U	0.50 U	1.0 U	1.0 U	1.0 U
Bromoform	--	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
Bromomethane	--	2.0 U	1.0 U	4 U	2.0 UJ	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
Carbon Disulfide	--	2.0 U	1.0 U	10 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
Carbon Tetrachloride	--	2.0 U	1.0 U	10 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
CFC-11	--	2.0 U	1.0 U	4 U	2.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U

See Notes on Page 9.

Table 5
Treatment System Analytical Data - EW-3
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	11/16/2021	3/15/2022	6/28/2022	9/26/2022	12/21/2022	6/20/2023	10/16/2023	12/19/2023	3/4/2024
Volatile Organic Compounds (ug/L) (cont.)										
CFC-12	--	2.0 U	1.0 U	4.0 U	2.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
Chlorobenzene	--	**21**	**20.9**	**24 D**	**20**	**24**	**17**	**16**	**16**	**15**
Chlorodibromomethane	--	2.0 U	1.0 U	1.0 U	0.5 U	0.5 U	0.50 U	1.0 U	1.0 U	1.0 U
Chloroethane	20	2.0 U	1.0 U	4.0 U	**0.77 J**	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
Chloroform	150	2.0 U	1.0 U	4.0 U	2.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
Chloromethane	--	2.0 U	1.0 U	4.0 U	2.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
cis-1,2-Dichloroethene	30*	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
cis-1,3-Dichloropropene	--	2.0 U	1.0 U	1.0 U	0.5 U	0.5 U	0.50 U	1.0 U	1.0 U	1.0 U
Cyclohexane	--	2.0 U	1.0 U	10 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
Dichloromethane	50	2.0 U	1.0 U	10 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
Ethylbenzene	--	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
Isopropylbenzene	--	2.0 U	1.0 U	2.0 U	**0.61 J**	1.0 U	1.0 U	2.0 U	**0.40 J**	**0.34 J**
m&p-Xylenes	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	--	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
Methyl N-Butyl Ketone (2-Hexanone)	--	10 U	5.0 U	20 U	10 U	10 U	10 U	20 U	20 U	20 U
Methylcyclohexane	--	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
Methyl-tert-butylether	--	2.0 U	1.0 U	2.0 U	**0.41 J**	1.0 U	1.0 U	2.0 U	2.0 U	**0.36 J**
o-Xylene	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene (Monomer)	--	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	--	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
Toluene	--	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
Total Xylenes	--	4.0 U	3.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
trans-1,2-Dichloroethene	30*	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
trans-1,3-Dichloropropene	--	2.0 U	1.0 U	1.0 U	0.5 U	0.5 U	0.50 U	1.0 U	1.0 U	1.0 U
Trichloroethene	--	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
Vinyl chloride	50	2.0 U	1.0 U	4.0 U	2.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
Total VOCs	--	**23.9**	**51.8**	**32.4 D**	**123.31 J**	**87.3**	**144.1**	**20.4**	**37.04 J**	**33.12 J**
1,4-Dioxane SIM (ug/L)										
1,4-Dioxane	--	NA	NA	NA	**66**	NA	NA	NA	**41**	**32**
Polychlorinated biphenyls (ug/L)										
Aroclor 1016	--	0.50 U	0.94 U	0.0502 U	0.2 U	0.0546 U	0.192 U	0.192 U	0.200 U	**0.155 J**
Aroclor 1221	--	0.50 U	0.94 U	**1.43**	0.2 U	0.0818 U	0.192 U	0.192 U	0.200 U	0.200 U
Aroclor 1232	--	**2.5**	0.94 U	0.0691 U	0.2 U	0.0751 U	0.192 U	0.192 U	0.200 U	0.200 U
Aroclor 1242	--	0.50 U	0.94 U	0.0726 U	0.2 U	0.079 U	0.192 U	0.192 U	0.200 U	0.200 U
Aroclor 1248	--	0.50 U	0.94 U	0.0842 U	0.2 U	0.0916 U	0.192 U	0.192 U	0.200 U	0.200 U
Aroclor 1254	--	0.50 U	0.94 U	0.0742 U	0.2 U	0.0808 U	0.192 U	0.192 U	0.200 U	0.200 U

See Notes on Page 9.

Table 5
Treatment System Analytical Data - EW-3
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	11/16/2021	3/15/2022	6/28/2022	9/26/2022	12/21/2022	6/20/2023	10/16/2023	12/19/2023	3/4/2024
Polychlorinated biphenyls (ug/L) (cont.)										
Aroclor 1260	--	0.50 U	0.94 U	0.0591 U	0.2 U	0.0643 U	0.192 U	0.192 U	0.200 U	0.200 U
Aroclor 1262	--	0.50 U	NA	NA	0.2 U	NA	NA	NA	NA	NA
Aroclor 1268	--	0.50 U	NA	NA	0.2 U	NA	NA	NA	NA	NA
Total polychlorinated biphenyls	--	**2.5**	ND	**1.43**	ND	ND	ND	ND	ND	**0.155 J**
Metals (mg/L)										
Aluminum	--	**0.0822 J**	0.2 U	0.05 U	0.05 U	0.05 U	0.050 U	0.050 U	**0.080**	**0.053**
Antimony	--	**0.021**	0.06 U	0.05 U	**0.027 J**	0.05 U	0.050 U	0.050 U	0.050 U	0.050 U
Arsenic	0.15	**0.0258**	0.01 U	**0.042**	**0.021**	0.01 U	0.010 U	**0.084**	**0.10**	**0.13**
Barium	3.5	**0.762**	**0.238**	**0.47**	**0.42**	**0.55**	**0.18**	**1.0**	**1.7**	**1.0**
Beryllium	--	0.002 U	0.005 U	0.004 U	0.004 U	0.004 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U
Cadmium	0.001	0.002 U	0.0025 U	0.004 U	0.004 U	0.004 U	0.0040 U	0.0040 U	**0.0021 J**	0.0040 U
Calcium	--	**78.5**	**73.4**	**80**	**80**	**81**	**76**	**86**	**92**	**88**
Chromium	0.21	**0.0028 J**	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U
Cobalt	0.005	**0.0123**	0.05 U	**0.012**	**0.013**	**0.011**	0.010 U	**0.016**	**0.016**	**0.021**
Copper	0.024	**0.0172**	**0.0273**	**0.014**	0.01 U	**0.026**	**0.016**	0.010 U	**0.0053 J**	0.010 U
Iron	0.3	**164**	**51**	**120**	**130 D**	**84**	**39**	**300**	**370**	**330**
Lead	0.0032	**0.0248**	0.005 U	0.01 U	0.01 U	0.01 U	0.010 U	**0.021**	0.010 U	**0.012**
Magnesium	--	**34**	**34.7**	**35**	**37 D**	**37**	**34**	**35**	**36**	**36**
Manganese	--	**0.284**	**0.251**	**0.29**	**0.27**	**0.30**	**0.28**	**0.33**	**0.38**	**0.34**
Mercury	0.0008	0.0002 U	0.0002 U	0.0001 U	0.0001 U	0.0001 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
Nickel	0.0096	**0.0083 J**	0.04 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	**0.0040 J**	**0.0065 J**
Potassium	--	**29.1**	**29.5**	**31**	**25**	**30**	**28**	**26**	**28**	**25**
Selenium	--	**0.0141 J**	0.01 U	0.05 U	0.05 U	0.05 U	0.050 U	0.050 U	0.050 U	0.050 U
Silver	--	0.006 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	**0.023**	0.010 U	0.010 U
Sodium	--	**57.1**	**54.8**	**58**	**47**	**57**	**53**	**50**	**52**	**50**
Thallium	--	0.02 U	0.01 U	0.05 U	0.05 U	0.05 U	0.050 U	0.050 U	0.050 U	0.050 U
Vanadium	0.014	**0.0294**	0.05 U	**0.027**	**0.024**	**0.027**	0.010 U	**0.039**	**0.085**	**0.044**
Zinc	0.17	**0.0167**	**0.0338**	**0.026**	0.01 U	**0.028**	**0.031**	0.010 U	0.010 U	0.010 U
General Chemistry (mg/L)										
Total Dissolved Solids	500	**483**	**571**	**470**	NA	**530**	**510**	**450**	**550**	**420**
Total Suspended Solids	50	**65.2**	**46**	**350**	NA	**330**	**130**	**190**	**470**	**690**
TOC (mg/L)										
Total Organic Carbon	--	NA	NA	NA	NA	NA	NA	NA	NA	**19**

See Notes on Page 9.

Table 5
Treatment System Analytical Data - EW-3
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Notes:
Constituents detected above the Fort Edward State Pollution Discharge Elimination System (SPDES) Equivalency Permit are highlighted in yellow.
Values in bold text indicate a detection.
"--" - Value does not exist for analyte.
* - The Fort Edward SPDES Equivalency Permit Limit for 1,2-Dichloroethene is a total limit of 30 ug/L for cis- and trans-1,2-Dichloroethene combined.

Definitions:
B - Compound was found in the blank and sample.
D - Sample was diluted prior to analysis of the compound.
H - Sample was extracted past the recommended holding time.
J - The concentration is an approximate value.
mg/L - milligrams per liter
NA - Not Analyzed
ND - Not Detected
ng/L - nanograms per liter
T - LCS or LCSD is outside acceptable limits.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
ug/L - micrograms per liter

Table 6
Treatment System Analytical Data - EW-4
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	9/25/2018	10/22/2018	3/26/2019	11/26/2019	5/26/2020	11/24/2020	5/18/2021	9/21/2021
Per- and Polyfluoroalkyl Substances (ng/L)											
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (HFPO-DA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2H, 2H, 3H, 3H-perfluorodecanoic acid (7:3 FTCA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2H, 2H, 3H, 3H-perfluorohexanoic acid (3:3 FTCA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2H, 2H, 3H, 3H-perfluorooctanoic acid (5:3 FTCA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4:2 Fluorotelomer sulfonate (4:2 FTS)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	4.17 U	NA
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.67 U	NA
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CL-PF3ONS)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Ethyl perfluorooctane sulfonamide (N-EtFOSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Ethyl perfluorooctane sulfonamide ethanol (N-EtFOSE)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	NA	NA	NA	NA	NA	NA	NA	NA	4.17 U	NA
N-Methyl perfluorooctane sulfonamide (N-MeFOSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	NA	NA	NA	NA	NA	NA	NA	NA	4.17 U	NA
Nonafluoro-3,6-Dioxaheptonic Acid (NFDHA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro (2-Ethoxyethane) Sulfonic Acid (PFEESA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro-3-methoxypropanoic aci (PFMPA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro-4-Methoxybutanic acid (PFMBA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutane sulfonic acid (PFBS)	--	NA	NA	NA	NA	NA	NA	NA	NA	**1.68 JH**	NA
Perfluorobutanoic acid (PFBA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**8.50 JH**	NA
Perfluorodecane sulfonic acid (PFDS)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.67 U	NA
Perfluorodecanoic acid (PFDA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.67 U	NA
Perfluorododecane sulfonic acid (PFDOS)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorododecanoic acid (PFDoA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.67 U	NA
Perfluoroheptane sulfonic acid (PFHpS)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.67 U	NA
Perfluoroheptanoic acid (PFHpA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**6.64 B**	NA
Perfluorohexane sulfonic acid (PFHxS)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.67 U	NA
Perfluorohexanoic acid (PFHxA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**25.1**	NA
Perfluorononane sulfonic acid (PFNS)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.67 U	NA
Perfluorooctane sulfonamide (PFOSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.67 U	NA
Perfluorooctane sulfonic acid (PFOS)	--	NA	NA	NA	NA	NA	NA	NA	NA	**4.72 B**	NA
Perfluorooctanoic acid (PFOA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**18.9**	NA
Perfluoropentane sulfonic acid (PFPeSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Page 9.

Table 6
Treatment System Analytical Data - EW-4
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	9/25/2018	10/22/2018	3/26/2019	11/26/2019	5/26/2020	11/24/2020	5/18/2021	9/21/2021
Per- and Polyfluoroalkyl Substances (ng/L) (cont.)											
Perfluoropentanoic acid (PFPeA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**17.8**	NA
Perfluorotetradecanoic acid (PFTeDA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.67 U	NA
Perfluorotridecanoic acid (PFTrDA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.67 U	NA
Perfluoroundecanoic acid (PFUdA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.67 U	NA
Volatile Organic Compounds (ug/L)											
1,1,1,2-Tetrachloroethane	--	0.12 U	0.12 U	0.12 U	0.12 U	0.27 U	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	--	0.13 U	0.13 U	0.13 U	0.13 U	0.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	--	NA	NA	NA	NA	NA	1.0 UT	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	--	0.2 U	0.2 U	0.2 U	0.2 U	0.32 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	--	0.24 U	0.24 U	0.24 U	0.24 U	0.16 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	30	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	--	0.21 U	0.21 U	0.21 U	0.21 U	0.32 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	--	0.14 U	0.14 U	0.14 U	0.14 U	0.57 U	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	--	0.19 U	0.19 U	0.19 U	0.19 U	0.4 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	--	0.37 U	0.37 U	0.37 U	0.37 U	0.53 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	--	0.15 U	0.15 U	0.15 U	0.15 U	0.19 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	--	0.17 U	0.17 U	0.17 U	0.17 U	0.16 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	--	0.19 U	0.19 U	0.19 U	0.19 U	0.41 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	--	0.13 U	0.13 U	0.13 U	0.13 U	0.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	--	0.17 U	0.17 U	0.17 U	0.17 U	0.12 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	--	0.15 U	0.15 U	0.15 U	0.15 U	**0.34 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dioxane	--	26 U	26 U	26 U	26 U	22 U	NA	NA	NA	NA	NA
2-Butanone (MEK)	--	2.4 U	2.4 U	2.4 U	2.4 U	1.9 U	5.0 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	--	1.5 U	1.5 U	1.5 U	1.5 U	1.7 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	--	9.7 U	9.7 U	9.7 U	9.7 U	3.8 U	5.0 U	10 U	**25**	10 U	10 U
Benzene	--	0.12 U	0.12 U	0.12 U	0.12 U	0.18 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromochloromethane	--	0.22 U	0.22 U	0.22 U	0.22 U	0.32 U	NA	NA	NA	NA	NA
Bromodichloromethane	--	0.3 U	0.3 U	0.3 U	0.3 U	0.16 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	--	0.21 U	0.21 U	0.21 U	0.21 U	0.46 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	--	0.94 U	0.94 U	0.94 U	0.94 U	0.78 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	--	1.0 U	1.0 U	1.0 U	1.0 U	4.4 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	--	0.25 U	0.25 U	0.25 U	0.25 U	0.11 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CFC-11	--	0.15 U	0.15 U	0.15 U	0.15 U	0.33 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

See Notes on Page 9.

Table 6
Treatment System Analytical Data - EW-4
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	9/25/2018	10/22/2018	3/26/2019	11/26/2019	5/26/2020	11/24/2020	5/18/2021	9/21/2021
Volatile Organic Compounds (ug/L) (cont.)											
CFC-12	--	0.28 U	0.28 U	0.28 U	0.28 U	0.26 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	--	**0.17 J**	0.16 U	0.16 U	0.16 U	**0.24 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorodibromomethane	--	0.1 U	0.1 U	0.1 U	0.1 U	0.21 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	20	0.28 U	0.28 U	0.28 U	0.28 U	**0.58 J**	**0.34 J**	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	150	NA	NA	NA	NA	NA	1.0 U	1.0 U	**280**	1.0 U	1.0 U
Chloromethane	--	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	30*	**0.28 J**	0.15 U	0.15 U	0.15 U	0.13 U	**0.29 J**	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	--	0.12 U	0.12 U	0.12 U	0.12 U	0.13 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	--	0.25 U	0.25 U	0.25 U	0.25 U	1.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichloromethane	50	3.2 U	3.2 U	3.2 U	3.2 U	0.34 U	1.0 U	1.0 U	**81**	1.0 U	1.0 U
Ethylbenzene	--	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene	--	0.12 U	0.12 U	0.12 U	0.12 U	0.17 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	--	0.26 U	0.26 U	0.26 U	0.26 U	0.3 U	NA	NA	NA	NA	NA
Methyl Acetate	--	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl N-Butyl Ketone (2-Hexanone)	--	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylcyclohexane	--	0.63 U	0.63 U	0.63 U	0.63 U	0.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl-tert-butylether	--	0.09 U	0.09 U	0.09 U	0.09 U	0.25 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	--	0.13 U	0.13 U	0.13 U	0.13 U	0.17 U	NA	NA	NA	NA	NA
Styrene (Monomer)	--	0.15 U	0.15 U	0.15 U	0.15 U	0.11 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	--	0.27 U	0.27 U	0.27 U	0.27 U	0.18 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	--	0.17 U	0.17 U	0.17 U	0.17 U	0.14 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	--	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
trans-1,2-Dichloroethene	30*	0.15 U	0.15 U	0.15 U	0.15 U	0.31 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	--	0.11 U	0.11 U	0.11 U	0.11 U	0.23 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	--	0.2 U	0.2 U	0.2 U	0.2 U	0.24 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	50	0.13 U	0.13 U	0.13 U	0.13 U	0.45 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total VOCs	--	**0.45 J**	ND	ND	ND	**1.16 J**	**0.63 J**	ND	**386**	ND	ND
1,4-Dioxane SIM (ug/L)											
1,4-Dioxane	--	NA	NA	NA	NA	NA	NA	NA	NA	**3.6 JH**	NA
Polychlorinated biphenyls (ug/L)											
Aroclor 1016	--	**0.29**	0.2 U	**0.21**	**0.28**	0.14 U	0.80 U	0.50 U	0.54 U	0.50 U	0.50 U
Aroclor 1221	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	**2.0**	0.50 U	0.54 U	0.50 U	0.50 U
Aroclor 1232	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	**3.0**	**1.1**	**1.3**
Aroclor 1242	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.54 U	0.50 U	0.50 U
Aroclor 1248	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.54 U	0.50 U	0.50 U
Aroclor 1254	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.54 U	0.50 U	0.50 U

See Notes on Page 9.

Table 6
Treatment System Analytical Data - EW-4
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	9/25/2018	10/22/2018	3/26/2019	11/26/2019	5/26/2020	11/24/2020	5/18/2021	9/21/2021
Polychlorinated biphenyls (ug/L) (cont.)											
Aroclor 1260	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.54 U	0.50 U	0.50 U
Aroclor 1262	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.54 U	0.50 U	0.50 U
Aroclor 1268	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.54 U	0.50 U	0.50 U
Total polychlorinated biphenyls	--	**0.29**	ND	**0.21**	**0.28**	ND	**2.0**	ND	**3.0**	**1.1**	**1.3**
Metals (mg/L)											
Aluminum	--	0.05 U	0.05 U	0.05 U	**0.11**	0.05 U	0.2 U	0.2 U	**14.7**	0.2 U	0.2 U
Antimony	--	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.02 U	0.02 U	2 U	0.02 U	0.02 U
Arsenic	0.15	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0109 J**	0.015 U	**4.54**	0.015 U	0.015 U
Barium	3.5	0.05 U	0.05 U	0.05 U	**0.051**	0.05 U	**0.0475 J**	**0.0412**	**11.1**	**0.0488**	**0.033**
Beryllium	--	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.002 U	0.002 U	**0.0078 J**	0.002 U	0.002 U
Cadmium	0.001	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.002 U	0.2 U	0.002 U	0.002 U
Calcium	--	**80**	**68**	**80**	**86**	**65**	**79.5**	**73.5**	**497**	**92.2**	**71.7**
Chromium	0.21	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0027 J**	0.004 U	1 U	0.004 U	0.004 U
Cobalt	0.005	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	**0.0024 J**	**0.0025 J**	**0.0998**	**0.0019 J**	**0.0021 J**
Copper	0.024	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.025 U	0.01 U	**0.377**	0.01 U	0.01 U
Iron	0.3	**11**	**2.3**	**9.2**	**24**	**8.1**	**22.4**	**19.5**	**29,800**	**18.3 JH**	**11**
Lead	0.0032	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0035 J**	0.01 U	**0.354 J**	0.01 U	0.01 U
Magnesium	--	**19**	**14**	**20 D**	**20**	**15**	**19**	**17.7**	**24.7**	**21.5**	**16.2**
Manganese	--	**1.4**	**1.5**	**1.8**	**1.6**	**1.6**	**1.83**	**1.78**	**24.8**	**1.61**	**1.45 B**
Mercury	0.0008	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0002 U	0.0002 U	0.0006 U	0.0002 U	0.0002 U
Nickel	0.0096	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.04 U	0.01 U	**0.74 J**	**0.0017 J**	0.01 U
Potassium	--	**2.2**	**4.1**	**2.2**	**2.5**	2 U	**2.75 J**	**2.39**	**1.36 J**	**2.4**	**1.98**
Selenium	--	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.02 U	0.025 U	2.5 U	0.025 U	0.025 U
Silver	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.006 U	0.6 U	0.006 U	0.006 U
Sodium	--	**40**	**43**	**48**	**48**	**45**	**43.6**	**43.7**	**36.7**	**48.2**	**45.8 B**
Thallium	--	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.02 U	0.02 U	0.5 U	0.02 U	0.02 U
Vanadium	0.014	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	0.005 U	**0.407 J**	0.005 U	0.005 U
Zinc	0.17	0.02 U	**0.022**	0.02 U	0.02 U	0.02 U	0.03 U	0.01 U	**2.33**	0.01 U	0.01 U
General Chemistry (mg/L)											
Total Dissolved Solids	500	**390**	**320**	**390**	**380**	**370**	**446**	**420**	**586**	**489**	**409**
Total Suspended Solids	50	**12**	**2.8**	**15**	**26**	**12**	**31.0**	**23.6**	**4,040**	**45.6**	**27.6**
TOC (mg/L)											
Total Organic Carbon	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Page 9.

Table 6
Treatment System Analytical Data - EW-4
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	11/16/2021	3/15/2022	6/28/2022	9/26/2022	12/21/2022	3/21/2023	6/20/2023	10/16/2023	12/19/2023	3/4/2024
Per- and Polyfluoroalkyl Substances (ng/L)											
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor)	--	NA	NA	NA	NA	NA	NA	NA	NA	4.0 U	3.7 U
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (HFPO-DA)	--	NA	NA	NA	NA	NA	NA	NA	NA	4.0 U	3.7 U
2H, 2H, 3H, 3H-perfluorodecanoic acid (7:3 FTCA)	--	NA	NA	NA	NA	NA	NA	NA	NA	50 U	46 U
2H, 2H, 3H, 3H-perfluorohexanoic acid (3:3 FTCA)	--	NA	NA	NA	NA	NA	NA	NA	NA	10 U	9.1 U
2H, 2H, 3H, 3H-perfluorooctanoic acid (5:3 FTCA)	--	NA	NA	NA	NA	NA	NA	NA	NA	50 U	46 U
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	--	NA	NA	NA	NA	NA	NA	NA	NA	4.0 U	3.7 U
4:2 Fluorotelomer sulfonate (4:2 FTS)	--	NA	NA	NA	NA	NA	NA	NA	NA	4.0 U	3.7 U
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	4.0 U	3.7 U
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	4.0 U	3.7 U
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CL-PF3ONS)	--	NA	NA	NA	NA	NA	NA	NA	NA	4.0 U	3.7 U
N-Ethyl perfluorooctane sulfonamide (N-EtFOSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.91 U
N-Ethyl perfluorooctane sulfonamide ethanol (N-EtFOSE)	--	NA	NA	NA	NA	NA	NA	NA	NA	10 U	9.1 U
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	1.0 U	0.91 U
N-Methyl perfluorooctane sulfonamide (N-MeFOSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.91 U
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	--	NA	NA	NA	NA	NA	NA	NA	NA	10 U	9.1 U
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	1.0 U	0.91 U
Nonafluoro-3,6-Dioxaheptonic Acid (NFDHA)	--	NA	NA	NA	NA	NA	NA	NA	NA	2.0 U	1.8 U
Perfluoro (2-Ethoxyethane) Sulfonic Acid (PFEESA)	--	NA	NA	NA	NA	NA	NA	NA	NA	2.0 U	1.8 U
Perfluoro-3-methoxypropanoic aci (PFMPA)	--	NA	NA	NA	NA	NA	NA	NA	NA	2.0 U	1.8 U
Perfluoro-4-Methoxybutanic acid (PFMBA)	--	NA	NA	NA	NA	NA	NA	NA	NA	2.0 U	1.8 U
Perfluorobutane sulfonic acid (PFBS)	--	NA	NA	NA	**1.4 J**	NA	NA	NA	NA	**1.3**	**1.8**
Perfluorobutanoic acid (PFBA)	--	NA	NA	NA	**5.0**	NA	NA	NA	NA	**3.2 J**	**3.3 J**
Perfluorodecane sulfonic acid (PFDS)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	1.0 U	0.91 U
Perfluorodecanoic acid (PFDA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	1.0 U	0.91 U
Perfluorododecane sulfonic acid (PFDOS)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.91 U
Perfluorododecanoic acid (PFDoA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	1.0 U	0.91 U
Perfluoroheptane sulfonic acid (PFHpS)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	1.0 U	0.91 U
Perfluoroheptanoic acid (PFHpA)	--	NA	NA	NA	**5.2**	NA	NA	NA	NA	**1.6**	**2.1**
Perfluorohexane sulfonic acid (PFHxS)	--	NA	NA	NA	**1.3 J**	NA	NA	NA	NA	**0.96 J**	**1.2**
Perfluorohexanoic acid (PFHxA)	--	NA	NA	NA	**14**	NA	NA	NA	NA	**1.9**	**2.6**
Perfluorononane sulfonic acid (PFNS)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.91 U
Perfluorononanoic acid (PFNA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	1.0 U	0.91 U
Perfluorooctane sulfonamide (PFOSA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	1.0 U	0.91 U
Perfluorooctane sulfonic acid (PFOS)	--	NA	NA	NA	**5.4 J**	NA	NA	NA	NA	**7.9**	**5.4**
Perfluorooctanoic acid (PFOA)	--	NA	NA	NA	**16**	NA	NA	NA	NA	**7.2**	**8.3**
Perfluoropentane sulfonic acid (PFPeSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**0.24 J**	0.91 U

See Notes on Page 9.

Table 6
Treatment System Analytical Data - EW-4
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	11/16/2021	3/15/2022	6/28/2022	9/26/2022	12/21/2022	3/21/2023	6/20/2023	10/16/2023	12/19/2023	3/4/2024
Per- and Polyfluoroalkyl Substances (ng/L) (cont.)											
Perfluoropentanoic acid (PFPeA)	--	NA	NA	NA	**9.3**	NA	NA	NA	NA	**1.7 J**	**2.4**
Perfluorotetradecanoic acid (PFTeDA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	1.0 U	0.91 U
Perfluorotridecanoic acid (PFTrDA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	1.0 U	0.91 U
Perfluoroundecanoic acid (PFUdA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	1.0 U	0.91 U
Volatile Organic Compounds (ug/L)											
1,1,1,2-Tetrachloroethane	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	--	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
1,1,2,2-Tetrachloroethane	--	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-trichloro-1,2,2-trifluoroethane	--	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
1,1,2-Trichloroethane	--	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
1,1-Dichloroethane	30	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
1,1-Dichloroethene	--	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
1,2,3-Trichlorobenzene	--	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	--	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
1,2-Dibromo-3-chloropropane	--	1.0 U	1.0 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
1,2-Dibromoethane	--	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	--	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
1,2-Dichloroethane	--	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
1,2-Dichloropropane	--	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
1,3-Dichlorobenzene	--	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
1,4-Dichlorobenzene	--	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
1,4-Dioxane	--	NA	NA	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Butanone (MEK)	--	10 U	5.0 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-Methyl-2-Pentanone	--	5.0 U	5.0 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	--	10 U	5.0 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	**2.1 J**
Benzene	--	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
Bromochloromethane	--	NA	NA	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	--	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	--	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
Bromomethane	--	1.0 U	1.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Carbon Disulfide	--	1.0 U	1.0 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
Carbon Tetrachloride	--	1.0 U	1.0 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
CFC-11	--	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U

See Notes on Page 9.

Table 6
Treatment System Analytical Data - EW-4
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	11/16/2021	3/15/2022	6/28/2022	9/26/2022	12/21/2022	3/21/2023	6/20/2023	10/16/2023	12/19/2023	3/4/2024
Volatile Organic Compounds (ug/L) (cont.)											
CFC-12	--	1.0 U	1.0 U	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	--	1.0 U	1.0 U	1.0 U	**0.26 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.22 J**
Chlorodibromomethane	--	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	20	1.0 U	1.0 U	2.0 U	**0.51 J**	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroform	150	1.0 U	1.0 U	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	--	1.0 U	1.0 U	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-1,2-Dichloroethene	30*	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
cis-1,3-Dichloropropene	--	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	--	1.0 U	1.0 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
Dichloromethane	50	1.0 U	1.0 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
Ethylbenzene	--	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
Isopropylbenzene	--	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
m&p-Xylenes	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	--	2.5 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
Methyl N-Butyl Ketone (2-Hexanone)	--	5.0 U	5.0 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylcyclohexane	--	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
Methyl-tert-butylether	--	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
o-Xylene	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene (Monomer)	--	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
Tetrachloroethene	--	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
Toluene	--	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
Total Xylenes	--	2.0 U	3.0 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	30*	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-1,3-Dichloropropene	--	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	--	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
Vinyl chloride	50	1.0 U	1.0 U	2.0 U	**0.24 J**	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs	--	ND	ND	ND	**1.01 J**	ND	ND	ND	ND	ND	**2.32 J**
1,4-Dioxane SIM (ug/L)											
1,4-Dioxane	--	NA	NA	NA	**2.0**	NA	NA	NA	NA	**0.37**	**0.39**
Polychlorinated biphenyls (ug/L)											
Aroclor 1016	--	0.50 U	0.94 U	0.0506 U	**0.30**	**0.142 J**	**0.181 J**	**0.0874 J**	**0.197**	**0.311**	**0.198**
Aroclor 1221	--	0.50 U	0.94 U	**0.431**	0.2 U	0.0752 U	0.192 U	0.192 U	0.192 U	0.194 U	0.194 U
Aroclor 1232	--	**1.1**	0.94 U	0.0697 U	0.2 U	0.0691 U	0.192 U	0.192 U	0.192 U	0.194 U	0.194 U
Aroclor 1242	--	0.50 U	0.94 U	0.0733 U	0.2 U	0.0726 U	0.192 U	0.192 U	0.192 U	0.194 U	0.194 U
Aroclor 1248	--	0.50 U	0.94 U	0.085 U	0.2 U	0.0842 U	0.192 U	0.192 U	0.192 U	0.194 U	0.194 U
Aroclor 1254	--	0.50 U	0.94 U	0.075 U	0.2 U	0.0742 U	0.192 U	0.192 U	0.192 U	0.194 U	0.194 U

See Notes on Page 9.

Table 6
Treatment System Analytical Data - EW-4
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	11/16/2021	3/15/2022	6/28/2022	9/26/2022	12/21/2022	3/21/2023	6/20/2023	10/16/2023	12/19/2023	3/4/2024
Polychlorinated biphenyls (ug/L) (cont.)											
Aroclor 1260	--	0.50 U	0.94 U	0.0597 U	0.2 U	0.0591 U	0.192 U	0.192 U	0.192 U	0.194 U	0.194 U
Aroclor 1262	--	0.50 U	NA	NA	0.2 U	NA	NA	NA	NA	NA	NA
Aroclor 1268	--	0.50 U	NA	NA	0.2 U	NA	NA	NA	NA	NA	NA
Total polychlorinated biphenyls	--	**1.1**	ND	**0.431**	**0.30**	**0.142 J**	**0.181 J**	**0.0874 J**	**0.197**	**0.311**	**0.198**
Metals (mg/L)											
Aluminum	--	0.2 U	0.2 U	0.05 U	0.05 U	0.05 U	0.05 U	0.050 U	0.050 U	**0.021 J**	**0.038 J**
Antimony	--	0.02 U	0.06 U	0.05 U	**0.017 J**	0.05 U	0.05 U	0.050 U	0.050 U	0.050 U	0.050 U
Arsenic	0.15	0.015 U	0.01 U	**0.014**	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U
Barium	3.5	**0.0367**	0.2 U	0.05 U	**0.035 J**	0.05 U	**0.080**	0.050 U	0.050 U	**0.022 J**	**0.027 J**
Beryllium	--	0.002 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U
Cadmium	0.001	0.002 U	0.0025 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U
Calcium	--	**78.5**	**74.4**	**83**	**79**	**88**	**78**	**75**	**71**	**54**	**67**
Chromium	0.21	0.004 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U
Cobalt	0.005	**0.0019 J**	0.05 U	0.01 U	**0.0030 J**	0.01 U	0.01 U	0.010 U	0.010 U	**0.0025 J**	**0.0027 J**
Copper	0.024	0.01 U	0.025 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U
Iron	0.3	**11.6**	**9.01**	**38**	**17**	**20**	**89**	**16**	**18**	**10**	**9.1**
Lead	0.0032	**0.0043 J**	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U
Magnesium	--	**19.2**	**17.6**	**19**	**17**	**20**	**19**	**18**	**18**	**13**	**16**
Manganese	--	**1.48**	**1.32**	**1.6**	**1.4**	**1.6**	**2.0**	**1.4**	**1.5**	**1.0**	**1.2**
Mercury	0.0008	0.0002 U	0.0002 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
Nickel	0.0096	0.01 U	0.04 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U
Potassium	--	**2.13**	5.0 U	**2.1**	**1.9 J**	**2.5**	**2.1**	**2.1**	**2.1**	**1.6 J**	**1.8 J**
Selenium	--	0.025 U	0.01 U	0.05 U	0.05 U	0.05 U	0.05 U	0.050 U	0.050 U	0.050 U	0.050 U
Silver	--	0.006 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U
Sodium	--	**45.8**	**40.3**	**43**	**39**	**45**	**48**	**46**	**42**	**31**	**42**
Thallium	--	0.02 U	0.01 U	0.05 U	0.05 U	0.05 U	0.05 U	0.050 U	0.050 U	0.050 U	0.050 U
Vanadium	0.014	0.005 U	0.05 U	0.01 U	**0.0058 J**	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U
Zinc	0.17	**0.0021 J**	0.02 U	**0.015**	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	**0.0053 J**
General Chemistry (mg/L)											
Total Dissolved Solids	500	**288**	**406**	**370**	NA	**400**	**360**	**380**	**300**	**300**	**300**
Total Suspended Solids	50	**13.6**	**14**	**260**	NA	**60**	**89**	**120 R-02**	**37**	**11**	**16**
TOC (mg/L)											
Total Organic Carbon	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	**2.4**

See Notes on Page 9.

Table 6
Treatment System Analytical Data - EW-4
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Notes:
Constituents detected above the Fort Edward State Pollution Discharge Elimination System (SPDES) Equivalency Permit are highlighted in yellow.
Values in bold text indicate a detection.
"--" - Value does not exist for analyte.
* - The Fort Edward SPDES Equivalency Permit Limit for 1,2-Dichloroethene is a total limit of 30 ug/L for cis- and trans-1,2-Dichloroethene combined.

Definitions:
B - Compound was found in the blank and sample.
D - Sample was diluted prior to analysis of the compound.
H - Sample was extracted past the recommended holding time.
J - The concentration is an approximate value.
mg/L - milligrams per liter
NA - Not Analyzed
ND - Not Detected
ng/L - nanograms per liter
R-02 - Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.
T - LCS or LCSD is outside acceptable limits.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
ug/L - micrograms per liter

Table 7
Treatment System Analytical Data - Influent
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	9/25/2018	10/22/2018	3/26/2019	11/26/2019	5/26/2020	11/24/2020	5/18/2021	9/21/2021
Per- and Polyfluoroalkyl Substances (ng/L)											
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (HFPO-DA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2H, 2H, 3H, 3H-perfluorodecanoic acid (7:3 FTCA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2H, 2H, 3H, 3H-perfluorohexanoic acid (3:3 FTCA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2H, 2H, 3H, 3H-perfluorooctanoic acid (5:3 FTCA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4:2 Fluorotelomer sulfonate (4:2 FTS)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	4.26 U	NA
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.70 U	NA
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CL-PF3ONS)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Ethyl perfluorooctane sulfonamide (N-EtFOSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Ethyl perfluorooctane sulfonamide ethanol (N-EtFOSE)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	NA	NA	NA	NA	NA	NA	NA	NA	4.26 U	NA
N-Methyl perfluorooctane sulfonamide (N-MeFOSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	NA	NA	NA	NA	NA	NA	NA	NA	4.26 U	NA
Nonafluoro-3,6-Dioxaheptonic Acid (NFDHA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro (2-Ethoxyethane) Sulfonic Acid (PFEESA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro-3-methoxypropanoic aci (PFMPA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro-4-Methoxybutanic acid (PFMBA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutane sulfonic acid (PFBS)	--	NA	NA	NA	NA	NA	NA	NA	NA	**1.70 JH**	NA
Perfluorobutanoic acid (PFBA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**7.96 JH**	NA
Perfluorodecane sulfonic acid (PFDS)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.70 U	NA
Perfluorodecanoic acid (PFDA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.70 U	NA
Perfluorododecane sulfonic acid (PFDOS)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorododecanoic acid (PFDoA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.70 U	NA
Perfluoroheptane sulfonic acid (PFHpS)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.70 U	NA
Perfluoroheptanoic acid (PFHpA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**6.50 B**	NA
Perfluorohexane sulfonic acid (PFHxS)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.70 U	NA
Perfluorohexanoic acid (PFHxA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**22.2**	NA
Perfluorononane sulfonic acid (PFNS)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.70 U	NA
Perfluorooctane sulfonamide (PFOSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.70 U	NA
Perfluorooctane sulfonic acid (PFOS)	--	NA	NA	NA	NA	NA	NA	NA	NA	**4.45 B**	NA
Perfluorooctanoic acid (PFOA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**18.6**	NA
Perfluoropentane sulfonic acid (PFPeSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Page 9.

Table 7
Treatment System Analytical Data - Influent
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	9/25/2018	10/22/2018	3/26/2019	11/26/2019	5/26/2020	11/24/2020	5/18/2021	9/21/2021
Per- and Polyfluoroalkyl Substances (ng/L) (cont.)											
Perfluoropentanoic acid (PFPeA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**15.0**	NA
Perfluorotetradecanoic acid (PFTeDA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.70 U	NA
Perfluorotridecanoic acid (PFTrDA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.70 U	NA
Perfluoroundecanoic acid (PFUdA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.70 U	NA
Volatile Organic Compounds (ug/L)											
1,1,1,2-Tetrachloroethane	--	0.12 U	0.12 U	0.12 U	0.12 U	0.27 U	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	--	0.13 U	0.13 U	0.13 U	0.13 U	0.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	--	NA	NA	NA	NA	NA	1.0 UT	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	--	0.2 U	0.2 U	0.2 U	0.2 U	0.32 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	--	0.24 U	0.24 U	0.24 U	0.24 U	0.16 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	30	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	--	0.21 U	0.21 U	0.21 U	0.21 U	0.32 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	--	0.14 U	0.14 U	0.14 U	0.14 U	0.57 U	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	--	0.19 U	0.19 U	0.19 U	0.19 U	0.4 U	1.0 UT	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	--	0.37 U	0.37 U	0.37 U	0.37 U	0.53 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	--	0.15 U	0.15 U	0.15 U	0.15 U	0.19 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	--	0.17 U	0.17 U	0.17 U	0.17 U	0.16 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	--	0.19 U	0.19 U	0.19 U	0.19 U	0.41 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	--	0.13 U	0.13 U	0.13 U	0.13 U	0.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	--	0.17 U	0.17 U	0.17 U	0.17 U	0.12 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	--	**0.16 J**	0.15 U	0.15 U	0.15 U	0.13 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dioxane	--	26 U	26 U	26 U	26 U	22 U	NA	NA	NA	NA	NA
2-Butanone (MEK)	--	2.4 U	2.4 U	2.4 U	2.4 U	1.9 U	5.0 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	--	1.5 U	1.5 U	1.5 U	1.5 U	1.7 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	--	9.7 U	9.7 U	9.7 U	9.7 U	3.8 U	5.0 U	10 UT	10 U	10 U	10 U
Benzene	--	**0.13 J**	**0.27 J**	0.12 U	0.12 U	0.18 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromochloromethane	--	0.22 U	0.22 U	0.22 U	0.22 U	0.32 U	NA	NA	NA	NA	NA
Bromodichloromethane	--	0.3 U	0.3 U	0.3 U	0.3 U	0.16 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	--	0.21 U	0.21 U	0.21 U	0.21 U	0.46 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	--	0.94 U	0.94 U	0.94 U	0.94 U	0.78 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	--	1.0 U	1.0 U	1.0 U	1.0 U	4.4 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	--	0.25 U	0.25 U	0.25 U	0.25 U	0.11 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

See Notes on Page 9.

Table 7
Treatment System Analytical Data - Influent
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	9/25/2018	10/22/2018	3/26/2019	11/26/2019	5/26/2020	11/24/2020	5/18/2021	9/21/2021
Volatile Organic Compounds (ug/L) (cont.)											
CFC-11	--	0.15 U	0.15 U	0.15 U	0.15 U	0.33 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CFC-12	--	0.28 U	0.28 U	0.28 U	0.28 U	0.26 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	--	**0.32 J**	0.16 U	**0.25 J**	0.16 U	**0.22 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorodibromomethane	--	0.1 U	0.1 U	0.1 U	0.1 U	0.21 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	20	0.28 U	0.28 U	0.28 U	0.28 U	**0.35 J**	**0.48 J**	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	150	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	--	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	30*	**0.16 J**	0.15 U	**0.16 J**	0.15 U	0.13 U	**1.7**	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	--	0.12 U	0.12 U	0.12 U	0.12 U	0.13 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	--	0.25 U	0.25 U	0.25 U	0.25 U	1.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichloromethane	50	3.2 U	3.2 U	3.2 U	3.2 U	0.34 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	--	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene	--	0.12 U	0.12 U	0.12 U	0.12 U	0.17 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	--	0.26 U	0.26 U	0.26 U	0.26 U	0.3 U	NA	NA	NA	NA	NA
Methyl Acetate	--	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl N-Butyl Ketone (2-Hexanone)	--	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylcyclohexane	--	0.63 U	0.63 U	0.63 U	0.63 U	0.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl-tert-butylether	--	0.09 U	0.09 U	0.09 U	0.09 U	0.25 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	--	0.13 U	0.13 U	0.13 U	0.13 U	0.17 U	NA	NA	NA	NA	NA
Styrene (Monomer)	--	0.15 U	0.15 U	0.15 U	0.15 U	0.11 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	--	0.27 U	0.27 U	0.27 U	0.27 U	0.18 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	--	0.17 U	0.17 U	0.17 U	0.17 U	0.14 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	--	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
trans-1,2-Dichloroethene	30*	0.15 U	0.15 U	0.15 U	0.15 U	0.31 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	--	0.11 U	0.11 U	0.11 U	0.11 U	0.23 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	--	0.2 U	0.2 U	0.2 U	0.2 U	0.24 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	50	0.13 U	0.13 U	0.13 U	0.13 U	0.45 U	**2.3**	1.0 U	1.0 U	1.0 U	1.0 U
Total VOCs	--	**0.77 J**	**0.27 J**	**0.41 J**	ND	**0.57 J**	**4.48 J**	ND	ND	ND	ND
1,4-Dioxane SIM (ug/L)											
1,4-Dioxane	--	NA	NA	NA	NA	NA	NA	NA	NA	**3.9 JH**	NA
Polychlorinated biphenyls (ug/L)											
Aroclor 1016	--	**1.3**	**0.49**	**0.41**	**1.5**	**0.16**	0.80 U	**0.87**	0.50 U	0.50 U	0.50 U
Aroclor 1221	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U	0.50 U	0.50 U
Aroclor 1232	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	**8.4**	0.50 U	**1.1**	**3.1**	**1.5**
Aroclor 1242	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U	0.50 U	0.50 U

See Notes on Page 9.

Table 7
Treatment System Analytical Data - Influent
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	9/25/2018	10/22/2018	3/26/2019	11/26/2019	5/26/2020	11/24/2020	5/18/2021	9/21/2021
Polychlorinated biphenyls (ug/L) (cont.)											
Aroclor 1248	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U	0.50 U	0.50 U
Aroclor 1254	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U	0.50 U	0.50 U
Aroclor 1260	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U	0.50 U	0.50 U
Aroclor 1262	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U	0.50 U	0.50 U
Aroclor 1268	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U	0.50 U	0.50 U
Total PCBs	--	**1.3**	**0.49**	**0.41**	**1.5**	**0.16**	**8.4**	**0.87**	**1.1**	**3.1**	**1.5**
Metals (mg/L)											
Aluminum	--	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	**0.0922 J**	0.2 U	0.2 U	0.2 U	0.2 U
Antimony	--	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic	0.15	**0.013**	0.01 U	0.01 U	0.01 U	**0.011**	**0.008 J**	**0.0071 J**	0.015 U	0.015 U	0.015 U
Barium	3.5	**0.1**	0.05 U	0.05 U	0.05 U	0.05 U	**0.0468 J**	**0.0592**	**0.0391**	**0.0469**	**0.0311**
Beryllium	--	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Cadmium	0.001	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.002 U	0.002 U	0.002 U	0.002 U
Calcium	--	**87**	**91**	**84**	**84**	**70**	**85.2**	**77.8**	**77.6**	**91.4**	**72.2**
Chromium	0.21	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0019 J**	0.004 U	0.004 U	0.004 U	0.004 U
Cobalt	0.005	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	**0.0027 J**	**0.0026 J**	**0.0023 J**	**0.0016 J**	**0.002 J**
Copper	0.024	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.025 U	0.01 U	**0.0111**	0.01 U	0.01 U
Iron	0.3	**98**	**15**	**6.0**	**4.1**	**38**	**11**	**43.2**	**11.9**	**15.5 JH**	**4.7**
Lead	0.0032	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0039 J**	0.01 U	0.01 U
Magnesium	--	**20**	**17**	**20 D**	**19**	**16**	**20.7**	**19.1**	**19.3**	**21.7**	**16.4**
Manganese	--	**1.6**	**1.6**	**1.7**	**1.5**	**1.6**	**1.92**	**1.86**	**1.74**	**1.6**	**1.44 B**
Mercury	0.0008	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Nickel	0.0096	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.04 U	**0.0017 J**	**0.0015 J**	**0.0016 J**	0.01 U
Potassium	--	**2.7**	**2.7**	**2.5**	**2.4**	**2.1**	**3.29 J**	**2.46**	**2.51**	**2.4**	**2.05**
Selenium	--	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.02 U	0.025 U	0.025 U	0.025 U	0.025 U
Silver	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.006 U	0.006 U	0.006 U	0.006 U
Sodium	--	**42**	**48**	**48**	**49**	**45**	**47.4**	**45.8**	**46.1**	**47.4**	**47.3 B**
Thallium	--	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Vanadium	0.014	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	0.005 U	0.005 U	0.005 U	0.005 U
Zinc	0.17	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0213 J**	**0.149**	**0.0228**	**0.0119**	**0.0417 B**
General Chemistry (mg/L)											
Total Dissolved Solids	500	**440**	**430**	**420**	**370**	**380**	**432**	**453**	**557**	**483**	**333**
Total Suspended Solids	50	**180**	**24**	**11**	**9.0**	**82**	**18.8**	**7.6**	**28.4**	**46**	**8.4**
TOC (mg/L)											
Total Organic Carbon	--	NA	NA	NA	NA	NA	NA	NA	NA	**3.7**	**2.8**

See Notes on Page 9.

Table 7
Treatment System Analytical Data - Influent
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	11/16/2021	3/15/2022	6/28/2022	9/26/2022	12/21/2022	3/21/2023	6/20/2023	10/16/2023	12/12/2023	3/6/2024
Per- and Polyfluoroalkyl Substances (ng/L)											
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor)	--	NA	NA	NA	NA	NA	NA	NA	NA	3.8 U	3.8 U
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (HFPO-DA)	--	NA	NA	NA	NA	NA	NA	NA	NA	3.8 U	3.8 U
2H, 2H, 3H, 3H-perfluorodecanoic acid (7:3 FTCA)	--	NA	NA	NA	NA	NA	NA	NA	NA	48 U	47 U
2H, 2H, 3H, 3H-perfluorohexanoic acid (3:3 FTCA)	--	NA	NA	NA	NA	NA	NA	NA	NA	9.6 U	9.5 U
2H, 2H, 3H, 3H-perfluorooctanoic acid (5:3 FTCA)	--	NA	NA	NA	NA	NA	NA	NA	NA	48 U	47 U
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	--	NA	NA	NA	NA	NA	NA	NA	NA	3.8 U	3.8 U
4:2 Fluorotelomer sulfonate (4:2 FTS)	--	NA	NA	NA	NA	NA	NA	NA	NA	3.8 U	3.8 UJ
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	3.8 U	3.8 U
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	3.8 U	3.8 U
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CL-PF3ONS)	--	NA	NA	NA	NA	NA	NA	NA	NA	3.8 U	3.8 U
N-Ethyl perfluorooctane sulfonamide (N-EtFOSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	0.96 U	0.95 U
N-Ethyl perfluorooctane sulfonamide ethanol (N-EtFOSE)	--	NA	NA	NA	NA	NA	NA	NA	NA	9.6 U	9.5 U
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	0.96 U	0.95 U
N-Methyl perfluorooctane sulfonamide (N-MeFOSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	0.96 U	0.95 U
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	--	NA	NA	NA	NA	NA	NA	NA	NA	9.6 U	9.5 U
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	0.96 U	0.95 U
Nonafluoro-3,6-Dioxaheptonic Acid (NFDHA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.9 U	1.9 U
Perfluoro (2-Ethoxyethane) Sulfonic Acid (PFEESA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.9 U	1.9 U
Perfluoro-3-methoxypropanoic aci (PFMPA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.9 U	1.9 U
Perfluoro-4-Methoxybutanic acid (PFMBA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.9 U	1.9 UJ
Perfluorobutane sulfonic acid (PFBS)	--	NA	NA	NA	**1.3 J**	NA	NA	NA	NA	**2.6 L-05PF-17AB**	**1.8**
Perfluorobutanoic acid (PFBA)	--	NA	NA	NA	**3.9 J**	NA	NA	NA	NA	**8.9**	**6.0**
Perfluorodecane sulfonic acid (PFDS)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	0.96 U	0.95 U
Perfluorodecanoic acid (PFDA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	0.96 U	0.95 U
Perfluorododecane sulfonic acid (PFDOS)	--	NA	NA	NA	NA	NA	NA	NA	NA	0.96 U	0.95 U
Perfluorododecanoic acid (PFDoA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	0.96 U	0.95 U
Perfluoroheptane sulfonic acid (PFHpS)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	0.96 U	0.95 U
Perfluoroheptanoic acid (PFHpA)	--	NA	NA	NA	**4.0 J**	NA	NA	NA	NA	**7.0 PF-17A**	**4.0**
Perfluorohexane sulfonic acid (PFHxS)	--	NA	NA	NA	**1.8 J**	NA	NA	NA	NA	**2.4 PF-17A**	**1.7**
Perfluorohexanoic acid (PFHxA)	--	NA	NA	NA	**11**	NA	NA	NA	NA	**19 PF-17A**	**7.9**
Perfluorononane sulfonic acid (PFNS)	--	NA	NA	NA	NA	NA	NA	NA	NA	0.96 U	0.95 U
Perfluorononanoic acid (PFNA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	0.96 U	0.95 U
Perfluorooctane sulfonamide (PFOSA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	0.96 U	0.95 U
Perfluorooctane sulfonic acid (PFOS)	--	NA	NA	NA	**4.3 J**	NA	NA	NA	NA	**10 PF-17A**	**7.7**
Perfluorooctanoic acid (PFOA)	--	NA	NA	NA	**14**	NA	NA	NA	NA	**46 PF-17A**	**21**
Perfluoropentane sulfonic acid (PFPeSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	0.96 U	0.95 U

See Notes on Page 9.

Table 7
Treatment System Analytical Data - Influent
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	11/16/2021	3/15/2022	6/28/2022	9/26/2022	12/21/2022	3/21/2023	6/20/2023	10/16/2023	12/12/2023	3/6/2024
Per- and Polyfluoroalkyl Substances (ng/L) (cont.)											
Perfluoropentanoic acid (PFPeA)	--	NA	NA	NA	**7.6**	NA	NA	NA	NA	**11**	**4.4**
Perfluorotetradecanoic acid (PFTeDA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	0.96 U	0.95 U
Perfluorotridecanoic acid (PFTrDA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	0.96 U	0.95 U
Perfluoroundecanoic acid (PFUdA)	--	NA	NA	NA	4.2 U	NA	NA	NA	NA	0.96 U	0.95 U
Volatile Organic Compounds (ug/L)											
1,1,1,2-Tetrachloroethane	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	--	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
1,1,2,2-Tetrachloroethane	--	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-trichloro-1,2,2-trifluoroethane	--	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 UJ
1,1,2-Trichloroethane	--	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
1,1-Dichloroethane	30	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
1,1-Dichloroethene	--	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
1,2,3-Trichlorobenzene	--	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	--	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
1,2-Dibromo-3-chloropropane	--	1.0 U	1.0 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
1,2-Dibromoethane	--	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	--	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
1,2-Dichloroethane	--	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
1,2-Dichloropropane	--	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
1,3-Dichlorobenzene	--	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
1,4-Dichlorobenzene	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.1**	1.0 U	1.0 U	1.0 U
1,4-Dioxane	--	NA	NA	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Butanone (MEK)	--	10 U	5.0 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-Methyl-2-Pentanone	--	5.0 U	5.0 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	--	**3.6 J**	5.0 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Benzene	--	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	**0.19 J**
Bromochloromethane	--	NA	NA	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	--	**0.40 J**	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	--	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
Bromomethane	--	1.0 U	1.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Carbon Disulfide	--	1.0 U	1.0 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
Carbon Tetrachloride	--	1.0 U	1.0 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

See Notes on Page 9.

Table 7
Treatment System Analytical Data - Influent
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	11/16/2021	3/15/2022	6/28/2022	9/26/2022	12/21/2022	3/21/2023	6/20/2023	10/16/2023	12/12/2023	3/6/2024
Volatile Organic Compounds (ug/L) (cont.)											
CFC-11	--	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
CFC-12	--	1.0 U	1.0 U	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	--	1.0 U	1.0 U	1.0 U	**0.37 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.26 J**
Chlorodibromomethane	--	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	20	1.0 U	1.0 U	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	150	**1.0**	1.0 U	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	--	1.0 U	1.0 U	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-1,2-Dichloroethene	30*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**3.8**	**1.7**
cis-1,3-Dichloropropene	--	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	--	1.0 U	1.0 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
Dichloromethane	50	1.0 U	1.0 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
Ethylbenzene	--	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
Isopropylbenzene	--	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
m&p-Xylenes	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	--	2.5 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 UJ
Methyl N-Butyl Ketone (2-Hexanone)	--	5.0 U	5.0 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylcyclohexane	--	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
Methyl-tert-butylether	--	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
o-Xylene	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene (Monomer)	--	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
Tetrachloroethene	--	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 UJ
Toluene	--	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
Total Xylenes	--	2.0 U	3.0 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	30*	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-1,3-Dichloropropene	--	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	--	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
Vinyl chloride	50	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**3.4**	**9.1**	**3.1**
Total VOCs	--	**5.0 J**	ND	ND	**0.37 J**	ND	ND	**1.1**	**3.4**	**12.9**	**5.25 J**
1,4-Dioxane SIM (ug/L)											
1,4-Dioxane	--	NA	NA	NA	**2.5**	NA	NA	NA	NA	**3.1**	**1.5**
Polychlorinated biphenyls (ug/L)											
Aroclor 1016	--	0.50 U	0.94 U	0.0504 U	**0.20**	**0.220**	**0.168 J**	**0.0856 J**	**2.12**	**1.75**	**2.11**
Aroclor 1221	--	0.50 U	0.94 U	**0.592**	0.19 U	0.0767 U	0.192 U	0.192 U	0.192 U	0.194 U	0.196 U
Aroclor 1232	--	**1.6**	0.94 U	0.0694 U	0.19 U	0.0704 U	0.192 U	0.192 U	0.192 U	0.194 U	0.196 U
Aroclor 1242	--	0.50 U	0.94 U	0.0729 U	0.19 U	0.074 U	0.192 U	0.192 U	0.192 U	0.194 U	0.196 U

See Notes on Page 9.

Table 7
Treatment System Analytical Data - Influent
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	11/16/2021	3/15/2022	6/28/2022	9/26/2022	12/21/2022	3/21/2023	6/20/2023	10/16/2023	12/12/2023	3/6/2024
Polychlorinated biphenyls (ug/L) (cont.)											
Aroclor 1248	--	0.50 U	0.94 U	0.0846 U	0.19 U	0.0858 U	0.192 U	0.192 U	0.192 U	0.194 U	0.196 U
Aroclor 1254	--	0.50 U	0.94 U	0.0746 U	0.19 U	0.0757 U	0.192 U	0.192 U	0.192 U	0.194 U	0.196 U
Aroclor 1260	--	0.50 U	0.94 U	0.0594 U	0.19 U	0.0603 U	0.192 U	0.192 U	0.192 U	0.194 U	0.196 U
Aroclor 1262	--	0.50 U	NA	NA	0.19 U	NA	NA	NA	NA	NA	NA
Aroclor 1268	--	0.50 U	NA	NA	0.19 U	NA	NA	NA	NA	NA	NA
Total PCBs	--	**1.6**	ND	**0.592**	**0.20**	**0.22**	**0.168 J**	**0.0856 J**	**2.12**	**1.75**	**2.11**
Metals (mg/L)											
Aluminum	--	**4.6**	0.2 U	0.05 U	0.05 U	0.05 U	0.05 U	0.050 U	0.050 U	0.050 U	**0.035 J**
Antimony	--	0.02 U	0.06 U	0.05 U	**0.015 J**	0.05 U	0.05 U	0.050 U	0.050 U	0.050 U	0.050 U
Arsenic	0.15	0.015 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U
Barium	3.5	**0.0348**	0.2 U	0.05 U	**0.033 J**	0.05 U	0.05 U	0.050 U	0.050 U	0.050 U	**0.042 J**
Beryllium	--	0.002 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U
Cadmium	0.001	0.002 U	0.0025 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U
Calcium	--	**72.6**	**78.2**	**82**	**76**	**87**	**80**	**81**	**74**	**64**	**71**
Chromium	0.21	0.004 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U
Cobalt	0.005	**0.002 J**	0.05 U	0.01 U	**0.0031 J**	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	**0.0023 J**
Copper	0.024	0.01 U	0.025 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U
Iron	0.3	**9.07**	**9.53**	**5.7**	**8.8**	**9.4**	**10**	**12**	**9.0**	**6.2**	**15**
Lead	0.0032	**0.0045 J**	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U
Magnesium	--	**18.1**	**18.8**	**19**	**17**	**21**	**21**	**20**	**19**	**16**	**16**
Manganese	--	**1.34**	**1.41**	**1.5**	**1.4**	**1.5**	**1.5**	**1.2**	**1.5**	**1.1**	**1.2**
Mercury	0.0008	0.0002 U	0.0002 U	0.0001 U	0.0001 U	0.0001 U	**0.00014**	0.00020 U	0.00020 U	0.00020 U	0.00020 U
Nickel	0.0096	0.01 U	0.04 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U
Potassium	--	**2.52**	5 U	**2.1**	**2.2**	**2.6**	**2.4**	**3.7**	**2.4**	**2.7**	**2.1**
Selenium	--	0.025 U	0.01 U	0.05 U	0.05 U	0.05 U	0.05 U	0.050 U	0.050 U	0.050 U	0.050 U
Silver	--	0.006 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U
Sodium	--	**56.3**	**42.6**	**44**	**40**	**45**	**49**	**46**	**44**	**37**	**41**
Thallium	--	0.02 U	0.01 U	0.05 U	0.05 U	0.05 U	0.05 U	0.050 U	0.050 U	0.050 U	0.050 U
Vanadium	0.014	0.005 U	0.05 U	0.01 U	**0.0067 J**	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U
Zinc	0.17	**0.038**	**0.0306**	**0.025**	0.01 U	**0.031**	**0.036**	**0.017**	**0.042**	**0.033**	**0.058**
General Chemistry (mg/L)											
Total Dissolved Solids	500	**443**	**413**	**380**	NA	**390**	**390**	**380**	**320**	**250 R-02**	**340**
Total Suspended Solids	50	**26**	**12**	**6.2**	NA	**11**	**4.6**	**13**	5.0 U	**13**	**26**
TOC (mg/L)											
Total Organic Carbon	--	**3.3**	NA	NA	NA	NA	NA	NA	NA	**4.8**	**3.4**

See Notes on Page 9.

Table 7
Treatment System Analytical Data - Influent
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Notes:
Constituents detected above the Fort Edward State Pollution Discharge Elimination System (SPDES) Equivalency Permit are highlighted in yellow.
Values in bold text indicate a detection.
"--" - Value does not exist for analyte.
* - The Fort Edward SPDES Equivalency Permit Limit for 1,2-Dichloroethene is a total limit of 30 ug/L for cis- and trans-1,2-Dichloroethene combined.

Definitions:
B - Compound was found in the blank and sample.
D - Sample was diluted prior to analysis of the compound.
H - Sample was extracted past the recommended holding time.
J - The concentration is an approximate value.
L-05 - Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to bebiased on the high side.
mg/L - milligrams per liter
NA - Not Analyzed
ND - Not Detected
ng/L - nanograms per liter
PF-17A - Extracted internal standard is outside of control limits. Sample not re-extracted past hold time per method
R-02 - Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.
T - LCS or LCSD is outside acceptable limits.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
ug/L - micrograms per liter

Table 8
Treatment System Analytical Data - Clarifier Catch Tank
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	9/25/2018	10/22/2018	3/26/2019	11/26/2019	5/26/2020	11/24/2020	5/18/2021	9/21/2021
Per- and Polyfluoroalkyl Substances (ng/L)											
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (HFPO-DA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2H, 2H, 3H, 3H-perfluorodecanoic acid (7:3 FTCA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2H, 2H, 3H, 3H-perfluorohexanoic acid (3:3 FTCA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2H, 2H, 3H, 3H-perfluorooctanoic acid (5:3 FTCA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4:2 Fluorotelomer sulfonate (4:2 FTS)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	4.25 U	NA
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.70 U	NA
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CL-PF3ONS)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Ethyl perfluorooctane sulfonamide (N-EtFOSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Ethyl perfluorooctane sulfonamide ethanol (N-EtFOSE)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**1.17 J**	NA
N-Methyl perfluorooctane sulfonamide (N-MeFOSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	NA	NA	NA	NA	NA	NA	NA	NA	4.25 U	NA
Nonafluoro-3,6-Dioxaheptonic Acid (NFDHA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro (2-Ethoxyethane) Sulfonic Acid (PFEESA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro-3-methoxypropanoic aci (PFMPA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro-4-Methoxybutanic acid (PFMBA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutane sulfonic acid (PFBS)	--	NA	NA	NA	NA	NA	NA	NA	NA	**1.75 JH**	NA
Perfluorobutanoic acid (PFBA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**8.25 JH**	NA
Perfluorodecane sulfonic acid (PFDS)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.70 U	NA
Perfluorodecanoic acid (PFDA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.70 U	NA
Perfluorododecane sulfonic acid (PFDOS)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorododecanoic acid (PFDoA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.70 U	NA
Perfluoroheptane sulfonic acid (PFHpS)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.70 U	NA
Perfluoroheptanoic acid (PFHpA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**7.92 B**	NA
Perfluorohexane sulfonic acid (PFHxS)	--	NA	NA	NA	NA	NA	NA	NA	NA	**2.06**	NA
Perfluorohexanoic acid (PFHxA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**23.8**	NA
Perfluorononane sulfonic acid (PFNS)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.70 U	NA
Perfluorooctane sulfonamide (PFOSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.70 U	NA
Perfluorooctane sulfonic acid (PFOS)	--	NA	NA	NA	NA	NA	NA	NA	NA	**6.04 B**	NA
Perfluorooctanoic acid (PFOA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**34.4**	NA
Perfluoropentane sulfonic acid (PFPeSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Page 9.

Table 8
Treatment System Analytical Data - Clarifier Catch Tank
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	9/25/2018	10/22/2018	3/26/2019	11/26/2019	5/26/2020	11/24/2020	5/18/2021	9/21/2021
Per- and Polyfluoroalkyl Substances (ng/L) (cont.)											
Perfluoropentanoic acid (PFPeA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**16.6**	NA
Perfluorotetradecanoic acid (PFTeDA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.70 U	NA
Perfluorotridecanoic acid (PFTrDA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.70 U	NA
Perfluoroundecanoic acid (PFUdA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.70 U	NA
Volatile Organic Compounds (ug/L)											
1,1,1,2-Tetrachloroethane	--	0.12 U	0.12 U	0.12 U	0.12 U	0.27 U	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	--	0.13 U	0.13 U	0.13 U	0.13 U	0.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	--	NA	NA	NA	NA	NA	1.0 UT	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	--	0.2 U	0.2 U	0.2 U	0.2 U	0.32 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	--	0.24 U	0.24 U	0.24 U	0.24 U	0.16 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	30	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	--	0.21 U	0.21 U	0.21 U	0.21 U	0.32 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	--	0.14 U	0.14 U	0.14 U	0.14 U	0.57 U	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	--	0.19 U	0.19 U	0.19 U	0.19 U	0.4 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	--	0.37 U	0.37 U	0.37 U	0.37 U	0.53 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	--	0.15 U	0.15 U	0.15 U	0.15 U	0.19 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	--	0.17 U	0.17 U	0.17 U	0.17 U	0.16 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	--	0.19 U	0.19 U	0.19 U	0.19 U	0.41 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	--	0.13 U	0.13 U	0.13 U	0.13 U	0.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	--	0.17 U	0.17 U	0.17 U	0.17 U	0.12 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	--	0.15 U	0.15 U	**0.18 J**	0.15 U	0.13 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dioxane	--	26 U	26 U	26 U	26 U	22 U	NA	NA	NA	NA	NA
2-Butanone (MEK)	--	2.4 U	**4.4 J**	2.4 U	2.4 U	1.9 U	5.0 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	--	1.5 U	1.5 U	1.5 U	1.5 U	1.7 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	--	9.7 U	9.7 U	9.7 U	9.7 U	**5.5 J**	5.0 U	**6.6 JT**	10 U	**5.8 J**	10 U
Benzene	--	**0.13 J**	**0.22 J**	0.12 U	**0.17 J**	0.18 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromochloromethane	--	0.22 U	0.22 U	0.22 U	0.22 U	0.32 U	NA	NA	NA	NA	NA
Bromodichloromethane	--	**0.71**	0.3 U	**1.3**	0.3 U	**0.85**	**0.87 J**	1.0 U	**2.6**	**0.96 J**	1.0 U
Bromoform	--	0.21 U	0.21 U	0.21 U	0.21 U	0.46 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	--	0.94 U	0.94 U	0.94 U	0.94 U	0.78 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	--	1.0 U	1.0 U	1.0 U	1.0 U	4.4 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	--	0.25 U	0.25 U	0.25 U	0.25 U	0.11 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

See Notes on Page 9.

Table 8
Treatment System Analytical Data - Clarifier Catch Tank
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	9/25/2018	10/22/2018	3/26/2019	11/26/2019	5/26/2020	11/24/2020	5/18/2021	9/21/2021
Volatile Organic Compounds (ug/L) (cont.)											
CFC-11	--	0.15 U	0.15 U	0.15 U	0.15 U	0.33 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CFC-12	--	0.28 U	0.28 U	0.28 U	0.28 U	0.26 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	--	**0.28 J**	**0.43 J**	**0.3 J**	0.16 U	**0.17 J**	**0.51 J**	1.0 U	1.0 U	1.0 U	1.0 U
Chlorodibromomethane	--	**0.38 J**	0.1 U	**0.73**	0.1 U	**0.25 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	20	0.28 U	0.28 U	0.28 U	0.28 U	**0.41 J**	**0.35 J**	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	150	NA	NA	NA	NA	NA	**2.0**	**2.8**	**7.9**	**2.6**	1.0 U
Chloromethane	--	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	**0.35 J**	1.0 U
cis-1,2-Dichloroethene	30*	**0.15 J**	0.15 U	0.15 U	0.15 U	0.13 U	**6.5**	1.0 U	1.0 U	**6.0**	1.0 U
cis-1,3-Dichloropropene	--	0.12 U	0.12 U	0.12 U	0.12 U	0.13 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	--	0.25 U	0.25 U	0.25 U	0.25 U	1.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichloromethane	50	3.2 U	3.2 U	3.2 U	3.2 U	0.34 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	--	0.13 U	**0.14 J**	0.13 U	0.13 U	0.13 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene	--	0.12 U	0.12 U	0.12 U	0.12 U	0.17 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	--	0.26 U	**0.78 J**	0.26 U	0.26 U	0.3 U	NA	NA	NA	NA	NA
Methyl Acetate	--	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl N-Butyl Ketone (2-Hexanone)	--	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylcyclohexane	--	0.63 U	0.63 U	0.63 U	0.63 U	0.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl-tert-butylether	--	0.09 U	0.09 U	0.09 U	0.09 U	0.25 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	--	0.13 U	**0.53 J**	0.13 U	0.13 U	0.17 U	NA	NA	NA	NA	NA
Styrene (Monomer)	--	0.15 U	0.15 U	0.15 U	0.15 U	0.11 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	--	0.27 U	0.27 U	0.27 U	0.27 U	0.18 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	--	0.17 U	0.17 U	0.17 U	0.17 U	0.14 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	--	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
trans-1,2-Dichloroethene	30*	0.15 U	0.15 U	0.15 U	0.15 U	0.31 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	--	0.11 U	0.11 U	0.11 U	0.11 U	0.23 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	--	0.2 U	0.2 U	0.2 U	0.2 U	0.24 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	50	0.13 U	0.13 U	0.13 U	0.13 U	0.45 U	**7.3**	1.0 U	1.0 U	**3.3**	1.0 U
Total VOCs	--	**1.65 J**	**6.5 J**	**2.51 J**	**0.17 J**	**7.18 J**	**17.53 J**	**9.4 J**	**10.5**	**19.01 J**	ND
1,4-Dioxane SIM (ug/L)											
1,4-Dioxane	--	NA	NA	NA	NA	NA	NA	NA	NA	**6.5 JH**	NA
Polychlorinated biphenyls (ug/L)											
Aroclor 1016	--	**0.91**	**0.98**	**0.71**	**0.54**	0.14 U	0.80 U	**0.62**	**5.2**	0.50 U	0.50 U
Aroclor 1221	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.60 U	0.50 U	0.50 U
Aroclor 1232	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	**7.2**	0.50 U	0.60 U	**8.7**	**1.7**
Aroclor 1242	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.60 U	0.50 U	0.50 U

See Notes on Page 9.

Table 8
Treatment System Analytical Data - Clarifier Catch Tank
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	9/25/2018	10/22/2018	3/26/2019	11/26/2019	5/26/2020	11/24/2020	5/18/2021	9/21/2021
Polychlorinated biphenyls (ug/L) (cont.)											
Aroclor 1248	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.60 U	0.50 U	0.50 U
Aroclor 1254	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.60 U	0.50 U	0.50 U
Aroclor 1260	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.60 U	0.50 U	0.50 U
Aroclor 1262	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.60 U	0.50 U	0.50 U
Aroclor 1268	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.60 U	0.50 U	0.50 U
Total PCBs	--	**0.91**	**0.98**	**0.71**	**0.54**	ND	**7.2**	**0.62**	**5.2**	**8.7**	**1.7**
Metals (mg/L)											
Aluminum	--	**0.46**	**0.15**	**0.7**	**0.48**	**0.13**	**0.331**	**4.88**	**1.35**	**0.322**	**0.896**
Antimony	--	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic	0.15	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0071 J**	**0.0076 J**	0.015 U	0.015 U	0.015 U
Barium	3.5	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	**0.0417 J**	**0.0555**	**0.0414**	**0.0407**	**0.0306**
Beryllium	--	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Cadmium	0.001	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.002 U	0.002 U	0.002 U	0.002 U
Calcium	--	**84**	**87**	**83**	**84**	**68**	**83.1**	**79.8**	**79.3**	**80.4**	**71.7**
Chromium	0.21	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0015 J**	0.004 U	0.004 U	0.004 U	0.004 U
Cobalt	0.005	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	**0.0028 J**	**0.0024 J**	**0.0021 J**	**0.002 J**	**0.0019 J**
Copper	0.024	0.01 U	**0.046**	0.01 U	0.01 U	0.01 U	0.025 U	**0.0041 J**	**0.187**	0.01 U	0.01 U
Iron	0.3	**2.3**	**11**	**0.58**	**3.2**	**2.0**	**1.38**	**32.3**	**6.94**	**2.22 JH**	**3.36**
Lead	0.0032	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0102**	0.01 U	0.01 U
Magnesium	--	**19**	**17**	**20 D**	**19**	**16**	**20.9**	**18.7**	**19.1**	**19.8**	**16.5**
Manganese	--	**1.3**	**1.7**	**1.5**	**1.6**	**1.4**	**1.68**	**4.01**	**2.14**	**1.18**	**1.44 B**
Mercury	0.0008	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Nickel	0.0096	0.01 U	**0.011**	**0.011**	**0.031**	**0.012**	**0.0061 J**	**0.0391**	**0.16**	**0.0017 J**	**0.0019 J**
Potassium	--	**2.6**	**2.7**	**2.8**	**2.4**	**2.1**	**3.85 J**	**2.39**	**2.41**	**3.53**	**2.0**
Selenium	--	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.02 U	0.025 U	0.025 U	0.025 U	0.025 U
Silver	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.006 U	0.006 U	0.006 U	0.006 U
Sodium	--	**49**	**55**	**62**	**50**	**53**	**56.8**	**51.4**	**54.9**	**62.5**	**47.3 B**
Thallium	--	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Vanadium	0.014	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	0.005 U	0.005 U	0.005 U	0.005 U
Zinc	0.17	0.02 U	**0.11**	**0.02**	**0.035**	0.02 U	**0.0141 J**	**0.0213**	**0.602**	0.01 U	**0.0078 BJ**
General Chemistry (mg/L)											
Total Dissolved Solids	500	**280**	**390**	**450**	**490**	**380**	**502**	**540**	**537**	**487**	**398**
Total Suspended Solids	50	**6.4**	**21**	**6**	**8.3**	**13**	6.3 U	**75.6**	**803**	**6.0**	**10**
TOC (mg/L)											
Total Organic Carbon	--	NA	NA	NA	NA	NA	NA	NA	NA	**4.5**	**2.9**

See Notes on Page 9.

Table 8
Treatment System Analytical Data - Clarifier Catch Tank
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	11/16/2021	3/15/2022	6/28/2022	9/26/2022	12/21/2022	3/21/2023	6/20/2023	10/16/2023	12/12/2023	3/6/2024
Per- and Polyfluoroalkyl Substances (ng/L)											
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor)	--	NA	NA	NA	NA	NA	NA	NA	NA	3.9 U	3.8 U
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (HFPO-DA)	--	NA	NA	NA	NA	NA	NA	NA	NA	3.9 U	3.8 U
2H, 2H, 3H, 3H-perfluorodecanoic acid (7:3 FTCA)	--	NA	NA	NA	NA	NA	NA	NA	NA	49 U	48 U
2H, 2H, 3H, 3H-perfluorohexanoic acid (3:3 FTCA)	--	NA	NA	NA	NA	NA	NA	NA	NA	9.7 U	9.5 U
2H, 2H, 3H, 3H-perfluorooctanoic acid (5:3 FTCA)	--	NA	NA	NA	NA	NA	NA	NA	NA	49 U	48 U
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	--	NA	NA	NA	NA	NA	NA	NA	NA	3.9 U	3.8 U
4:2 Fluorotelomer sulfonate (4:2 FTS)	--	NA	NA	NA	NA	NA	NA	NA	NA	3.9 U	3.8 UJ
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	--	NA	NA	NA	**0.35 J**	NA	NA	NA	NA	3.9 U	3.8 U
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	--	NA	NA	NA	1.7 U	NA	NA	NA	NA	3.9 U	3.8 U
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CL-PF3ONS)	--	NA	NA	NA	NA	NA	NA	NA	NA	3.9 U	3.8 U
N-Ethyl perfluorooctane sulfonamide (N-EtFOSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	0.97 U	0.95 U
N-Ethyl perfluorooctane sulfonamide ethanol (N-EtFOSE)	--	NA	NA	NA	NA	NA	NA	NA	NA	9.7 U	9.5 U
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	NA	NA	NA	1.7 U	NA	NA	NA	NA	0.97 U	0.95 U
N-Methyl perfluorooctane sulfonamide (N-MeFOSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	0.97 U	0.95 U
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	--	NA	NA	NA	NA	NA	NA	NA	NA	9.7 U	9.5 U
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	NA	NA	NA	1.7 U	NA	NA	NA	NA	0.97 U	0.95 U
Nonafluoro-3,6-Dioxaheptonic Acid (NFDHA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.9 U	1.9 U
Perfluoro (2-Ethoxyethane) Sulfonic Acid (PFEESA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.9 U	1.9 U
Perfluoro-3-methoxypropanoic aci (PFMPA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.9 U	1.9 U
Perfluoro-4-Methoxybutanic acid (PFMBA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.9 U	1.9 UJ
Perfluorobutane sulfonic acid (PFBS)	--	NA	NA	NA	**1.5 J**	NA	NA	NA	NA	**2.2 L-05PF-18B**	**1.6**
Perfluorobutanoic acid (PFBA)	--	NA	NA	NA	**6.6**	NA	NA	NA	NA	**6.3**	**6.3**
Perfluorodecane sulfonic acid (PFDS)	--	NA	NA	NA	1.7 U	NA	NA	NA	NA	0.97 U	0.95 U
Perfluorodecanoic acid (PFDA)	--	NA	NA	NA	1.7 U	NA	NA	NA	NA	0.97 U	0.95 U
Perfluorododecane sulfonic acid (PFDOS)	--	NA	NA	NA	NA	NA	NA	NA	NA	0.97 U	0.95 UJ
Perfluorododecanoic acid (PFDoA)	--	NA	NA	NA	1.7 U	NA	NA	NA	NA	0.97 U	0.95 U
Perfluoroheptane sulfonic acid (PFHpS)	--	NA	NA	NA	1.7 U	NA	NA	NA	NA	0.97 U	0.95 U
Perfluoroheptanoic acid (PFHpA)	--	NA	NA	NA	**4.9**	NA	NA	NA	NA	**3.6 PF-18**	**4.4**
Perfluorohexane sulfonic acid (PFHxS)	--	NA	NA	NA	**1.9**	NA	NA	NA	NA	**1.5 PF-18**	**1.6**
Perfluorohexanoic acid (PFHxA)	--	NA	NA	NA	**15**	NA	NA	NA	NA	**7.8 PF-18**	**9.5**
Perfluorononane sulfonic acid (PFNS)	--	NA	NA	NA	NA	NA	NA	NA	NA	0.97 U	0.95 U
Perfluorononanoic acid (PFNA)	--	NA	NA	NA	1.7 U	NA	NA	NA	NA	0.97 U	0.95 U
Perfluorooctane sulfonamide (PFOSA)	--	NA	NA	NA	1.7 U	NA	NA	NA	NA	0.97 U	0.95 U
Perfluorooctane sulfonic acid (PFOS)	--	NA	NA	NA	**6.7**	NA	NA	NA	NA	**9.6 PF-18**	**6.2**
Perfluorooctanoic acid (PFOA)	--	NA	NA	NA	**15**	NA	NA	NA	NA	**21 PF-18**	**25**
Perfluoropentane sulfonic acid (PFPeSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	0.97 U	**0.50 J**

See Notes on Page 9.

Table 8
Treatment System Analytical Data - Clarifier Catch Tank
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	11/16/2021	3/15/2022	6/28/2022	9/26/2022	12/21/2022	3/21/2023	6/20/2023	10/16/2023	12/12/2023	3/6/2024
Per- and Polyfluoroalkyl Substances (ng/L) (cont.)											
Perfluoropentanoic acid (PFPeA)	--	NA	NA	NA	**9.8**	NA	NA	NA	NA	**4.9**	**7.8**
Perfluorotetradecanoic acid (PFTeDA)	--	NA	NA	NA	1.7 U	NA	NA	NA	NA	0.97 U	0.95 U
Perfluorotridecanoic acid (PFTrDA)	--	NA	NA	NA	1.7 U	NA	NA	NA	NA	0.97 U	0.95 U
Perfluoroundecanoic acid (PFUdA)	--	NA	NA	NA	1.7 U	NA	NA	NA	NA	0.97 U	0.95 U
Volatile Organic Compounds (ug/L)											
1,1,1,2-Tetrachloroethane	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	--	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
1,1,2,2-Tetrachloroethane	--	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-trichloro-1,2,2-trifluoroethane	--	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 UJ
1,1,2-Trichloroethane	--	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
1,1-Dichloroethane	30	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
1,1-Dichloroethene	--	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
1,2,3-Trichlorobenzene	--	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	--	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
1,2-Dibromo-3-chloropropane	--	1.0 U	1.0 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
1,2-Dibromoethane	--	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	--	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
1,2-Dichloroethane	--	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
1,2-Dichloropropane	--	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
1,3-Dichlorobenzene	--	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
1,4-Dichlorobenzene	--	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
1,4-Dioxane	--	NA	NA	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Butanone (MEK)	--	10 U	5.0 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-Methyl-2-Pentanone	--	5.0 U	5.0 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	--	**3.3 J**	5.0 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	**3.5 J**
Benzene	--	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	**0.23 J**
Bromochloromethane	--	NA	NA	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	--	**0.51 J**	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	--	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
Bromomethane	--	1.0 U	1.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Carbon Disulfide	--	1.0 U	1.0 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
Carbon Tetrachloride	--	1.0 U	1.0 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

See Notes on Page 9.

Table 8
Treatment System Analytical Data - Clarifier Catch Tank
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	11/16/2021	3/15/2022	6/28/2022	9/26/2022	12/21/2022	3/21/2023	6/20/2023	10/16/2023	12/12/2023	3/6/2024
Volatile Organic Compounds (ug/L) (cont.)											
CFC-11	--	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
CFC-12	--	1.0 U	1.0 U	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	--	1.0 U	1.0 U	1.0 U	**0.43 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.38 J**
Chlorodibromomethane	--	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U
Chloroethane	20	1.0 U	1.0 U	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	150	**1.2**	1.0 U	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	--	1.0 U	1.0 U	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-1,2-Dichloroethene	30*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**3.8**	**3.4**	**3.8**
cis-1,3-Dichloropropene	--	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	--	1.0 U	1.0 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
Dichloromethane	50	1.0 U	1.0 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
Ethylbenzene	--	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
Isopropylbenzene	--	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
m&p-Xylenes	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	--	2.5 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 UJ
Methyl N-Butyl Ketone (2-Hexanone)	--	5.0 U	5.0 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylcyclohexane	--	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
Methyl-tert-butylether	--	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
o-Xylene	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene (Monomer)	--	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
Tetrachloroethene	--	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 UJ
Toluene	--	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
Total Xylenes	--	2.0 U	3.0 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	30*	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-1,3-Dichloropropene	--	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	--	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
Vinyl chloride	50	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**9.3**	**5.0**	**6.8**
Total VOCs	--	**5.01 J**	ND	ND	**0.43 J**	ND	ND	ND	**13.1**	**8.4**	**14.71 J**
1,4-Dioxane SIM (ug/L)											
1,4-Dioxane	--	NA	NA	NA	**2.9**	NA	NA	NA	NA	NA	**2.5**
Polychlorinated biphenyls (ug/L)											
Aroclor 1016	--	0.50 U	0.94 U	0.0504 U	**0.17 J**	**0.262**	**0.135 J**	**0.188 J**	**2.27**	**1.39**	**1.98**
Aroclor 1221	--	0.50 U	0.94 U	**0.709**	0.19 U	0.0767 U	0.194 U	0.192 U	0.192 U	0.194 U	0.192 U
Aroclor 1232	--	**1.6**	0.94 U	0.0694 U	0.19 U	0.0704 U	0.194 U	0.192 U	0.192 U	0.194 U	0.192 U
Aroclor 1242	--	0.50 U	0.94 U	0.0729 U	0.19 U	0.074 U	0.194 U	0.192 U	0.192 U	0.194 U	0.192 U

See Notes on Page 9.

Table 8
Treatment System Analytical Data - Clarifier Catch Tank
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	11/16/2021	3/15/2022	6/28/2022	9/26/2022	12/21/2022	3/21/2023	6/20/2023	10/16/2023	12/12/2023	3/6/2024
Polychlorinated biphenyls (ug/L) (cont.)											
Aroclor 1248	--	0.50 U	0.94 U	0.0846 U	0.19 U	0.0858 U	0.194 U	0.192 U	0.192 U	0.194 U	0.192 U
Aroclor 1254	--	0.50 U	0.94 U	0.0746 U	0.19 U	0.0757 U	0.194 U	0.192 U	0.192 U	0.194 U	0.192 U
Aroclor 1260	--	0.50 U	0.94 U	0.0594 U	0.19 U	0.0603 U	0.194 U	0.192 U	0.192 U	0.194 U	0.192 U
Aroclor 1262	--	0.50 U	NA	NA	0.19 U	NA	NA	NA	NA	NA	NA
Aroclor 1268	--	0.50 U	NA	NA	0.19 U	NA	NA	NA	NA	NA	NA
Total PCBs	--	**1.6**	ND	**0.709**	**0.17 J**	**0.262**	**0.135 J**	**0.188 J**	**2.27**	**1.39**	**1.98**
Metals (mg/L)											
Aluminum	--	**0.814**	**1.61**	**1.1**	**0.73**	**1.4**	**0.54**	**1.3**	**1.3**	**1.0**	**1.3**
Antimony	--	0.02 U	0.06 U	0.05 U	**0.015 J**	0.05 U	0.05 U	0.050 U	0.050 U	0.050 U	0.050 U
Arsenic	0.15	0.015 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U
Barium	3.5	**0.0303**	0.2 U	0.05 U	**0.031 J**	0.05 U	0.05 U	0.050 U	0.050 U	0.050 U	**0.040 J**
Beryllium	--	0.002 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U
Cadmium	0.001	0.002 U	0.0025 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U
Calcium	--	**73.1**	**76.8**	**80**	**77**	**89**	**77**	**83**	**75**	**59 MS-19**	**71**
Chromium	0.21	0.004 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U
Cobalt	0.005	**0.0018 J**	0.05 U	0.01 U	**0.0031 J**	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	**0.0021 J**
Copper	0.024	**0.0017 J**	0.025 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U
Iron	0.3	**1.32**	**4.7**	**2.7**	**5.5**	**5.3**	**2.3**	**5.3**	**5.5**	**1.5**	**4.2**
Lead	0.0032	**0.003 J**	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U
Magnesium	--	**18.4**	**18.6**	**18**	**18**	**21**	**20**	**19**	**19**	**15**	**17**
Manganese	--	**1.12**	**1.42**	**1.6**	**1.5**	**1.6**	**1.5**	**1.4**	**2.0**	**1.5**	**1.6**
Mercury	0.0008	0.0002 U	0.0002 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
Nickel	0.0096	**0.0015 J**	0.04 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U
Potassium	--	**2.43**	5 U	**2.3**	**2.4**	**2.8**	**2.4**	**2.4**	**3.1**	**2.3**	**2.6**
Selenium	--	0.025 U	0.01 U	0.05 U	0.05 U	0.05 U	0.05 U	0.050 U	0.050 U	0.050 U	0.050 U
Silver	--	0.006 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U
Sodium	--	**53.3**	**42**	**43**	**42**	**46**	**48**	**49**	**47**	**40**	**49**
Thallium	--	0.02 U	0.01 U	0.05 U	0.05 U	0.05 U	0.05 U	0.050 U	0.050 U	0.050 U	0.050 U
Vanadium	0.014	0.005 U	0.05 U	0.01 U	**0.0062 J**	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U
Zinc	0.17	**0.0077 J**	0.02 U	**0.012**	0.01 U	**0.017**	**0.014**	0.010 U	**0.015**	0.010 U	**0.0050 J**
General Chemistry (mg/L)											
Total Dissolved Solids	500	**451**	**429**	**340**	NA	**410**	**380**	**350**	**380 R-02**	**290**	**360**
Total Suspended Solids	50	4.0 U	**22**	**8.8**	NA	**20**	2.5 U	**15**	15 U	7.1 U	**6.4**
TOC (mg/L)											
Total Organic Carbon	--	**3.0**	NA	NA	NA	NA	NA	NA	NA	**13**	**12**

See Notes on Page 9.

Table 8
Treatment System Analytical Data - Clarifier Catch Tank
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Notes:
Constituents detected above the Fort Edward State Pollution Discharge Elimination System (SPDES) Equivalency Permit are highlighted in yellow.
Values in bold text indicate a detection.
"--" - Value does not exist for analyte.
* - The Fort Edward SPDES Equivalency Permit Limit for 1,2-Dichloroethene is a total limit of 30 ug/L for cis- and trans-1,2-Dichloroethene combined.

Definitions:
B - Compound was found in the blank and sample.
D - Sample was diluted prior to analysis of the compound.
H - Sample was extracted past the recommended holding time.
J - The concentration is an approximate value.
L-05 - Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to bebiased on the high side.
mg/L - milligrams per liter
MS-19 - Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate ormeaningful recoveries cannot be calculated.
NA - Not Analyzed
ND - Not Detected
ng/L - nanograms per liter
PF-18 - Re-analysis confirmed Extracted Internal Standard failure due to matrix effects.
R-02 - Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.
T - LCS or LCSD is outside acceptable limits.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
ug/L - micrograms per liter

Table 9
Treatment System Analytical Data - Cell 3
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	9/25/2018	10/22/2018	3/26/2019	11/26/2019	5/26/2020	11/24/2020
Per- and Polyfluoroalkyl Substances (ng/L)									
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	--	NA	NA	NA	NA	NA	NA	NA	NA
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	--	NA	NA	NA	NA	NA	NA	NA	NA
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	NA	NA	NA	NA	NA	NA	NA	NA
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutane sulfonic acid (PFBS)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecane sulfonic acid (PFDS)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorododecanoic acid (PFDoA)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptane sulfonic acid (PFHpS)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexane sulfonic acid (PFHxS)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonamide (PFOSA)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonic acid (PFOS)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanoic acid (PFPeA)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorotetradecanoic acid (PFTeDA)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorotridecanoic acid (PFTrDA)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroundecanoic acid (PFUdA)	--	NA	NA	NA	NA	NA	NA	NA	NA
Volatile Organic Compounds (ug/L)									
1,1,1,2-Tetrachloroethane	--	0.12 U	0.12 U	0.12 U	0.12 U	0.27 U	NA	NA	NA
1,1,1-Trichloroethane	--	0.13 U	0.13 U	0.13 U	0.13 U	0.2 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	--	NA	NA	NA	NA	NA	1.0 UT	1.0 U	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	--	0.2 U	0.2 U	0.2 U	0.2 U	0.32 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	--	0.24 U	0.24 U	0.24 U	0.24 U	0.16 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	30	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	--	0.21 U	0.21 U	0.21 U	0.21 U	0.32 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	--	0.14 U	0.14 U	0.14 U	0.14 U	0.57 U	NA	NA	NA
1,2,4-Trichlorobenzene	--	0.19 U	0.19 U	0.19 U	0.19 U	0.4 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	--	0.37 U	0.37 U	0.37 U	0.37 U	0.53 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	--	0.15 U	0.15 U	0.15 U	0.15 U	0.19 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	--	0.17 U	0.17 U	0.17 U	0.17 U	0.16 U	1.0 U	1.0 U	1.0 U

See Notes on Page 8.

Table 9
Treatment System Analytical Data - Cell 3
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	9/25/2018	10/22/2018	3/26/2019	11/26/2019	5/26/2020	11/24/2020
Volatile Organic Compounds (ug/L) (cont.)									
1,2-Dichloroethane	--	0.19 U	0.19 U	0.19 U	0.19 U	0.41 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	--	0.13 U	0.13 U	0.13 U	0.13 U	0.2 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	--	0.17 U	0.17 U	0.17 U	0.17 U	0.12 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	--	0.15 U	0.15 U	0.15 U	0.15 U	0.13 U	1.0 U	1.0 U	1.0 U
1,4-Dioxane	--	26 U	26 U	26 U	26 U	22 U	NA	NA	NA
2-Butanone (MEK)	--	2.4 U	2.4 U	2.4 U	2.4 U	1.9 U	5.0 U	10 U	10 U
4-Methyl-2-Pentanone	--	1.5 U	1.5 U	1.5 U	1.5 U	1.7 U	5.0 U	5.0 U	5.0 U
Acetone	--	9.7 U	**35 J**	9.7 U	9.7 U	**11 J**	5.0 U	10 UT	10 U
Benzene	--	0.12 U	0.12 U	0.12 U	0.12 U	0.18 U	1.0 U	1.0 U	1.0 U
Bromochloromethane	--	0.22 U	0.22 U	0.22 U	0.22 U	0.32 U	NA	NA	NA
Bromodichloromethane	--	0.3 U	0.3 U	0.3 U	0.3 U	0.16 U	1.0 U	1.0 U	1.0 U
Bromoform	--	0.21 U	0.21 U	0.21 U	0.21 U	0.46 U	1.0 U	1.0 U	1.0 U
Bromomethane	--	0.94 U	0.94 U	0.94 U	0.94 U	0.78 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	--	1 U	1 U	1 U	1 U	4.4 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	--	0.25 U	0.25 U	0.25 U	0.25 U	0.11 U	1.0 U	1.0 U	1.0 U
CFC-11	--	0.15 U	0.15 U	0.15 U	0.15 U	0.33 U	1.0 U	1.0 U	1.0 U
CFC-12	--	0.28 U	0.28 U	0.28 U	0.28 U	0.26 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	--	0.16 U	0.16 U	0.16 U	0.16 U	0.15 U	1.0 U	1.0 U	1.0 U
Chlorodibromomethane	--	0.1 U	0.1 U	0.1 U	0.1 U	0.21 U	1.0 U	1.0 U	1.0 U
Chloroethane	20	0.28 U	0.28 U	0.28 U	0.28 U	0.35 U	1.0 U	1.0 U	1.0 U
Chloroform	150	NA	NA	NA	NA	NA	**0.50 J**	1.0 U	1.0 U
Chloromethane	--	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	30*	**0.29 J**	**0.56 J**	0.15 U	**0.15 J**	0.13 U	**0.92 J**	1.0 U	1.0 U
cis-1,3-Dichloropropene	--	0.12 U	0.12 U	0.12 U	0.12 U	0.13 U	1.0 U	1.0 U	1.0 U
Cyclohexane	--	0.25 U	0.25 U	0.25 U	0.25 U	1.5 U	1.0 U	1.0 U	1.0 U
Dichloromethane	50	3.2 U	3.2 U	3.2 U	3.2 U	0.34 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	--	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene	--	0.12 U	0.12 U	0.12 U	0.12 U	0.17 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	--	0.26 U	**0.49 J**	0.26 U	0.26 U	0.3 U	NA	NA	NA
Methyl Acetate	--	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	5.0 U	2.5 U	2.5 U
Methyl N-Butyl Ketone (2-Hexanone)	--	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	5.0 U	5.0 U	5.0 U
Methylcyclohexane	--	0.63 U	0.63 U	0.63 U	0.63 U	0.2 U	1.0 U	1.0 U	1.0 U
Methyl-tert-butylether	--	0.09 U	0.09 U	0.09 U	0.09 U	0.25 U	1.0 U	1.0 U	1.0 U
o-Xylene	--	0.13 U	**0.35 J**	0.13 U	0.13 U	0.17 U	NA	NA	NA
Styrene (Monomer)	--	0.15 U	0.15 U	0.15 U	0.15 U	0.11 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	--	0.27 U	0.27 U	0.27 U	0.27 U	0.18 U	1.0 U	1.0 U	1.0 U

See Notes on Page 8.

Table 9
Treatment System Analytical Data - Cell 3
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	9/25/2018	10/22/2018	3/26/2019	11/26/2019	5/26/2020	11/24/2020
Volatile Organic Compounds (ug/L) (cont.)									
Toluene	--	0.17 U	**0.18 J**	0.17 U	0.17 U	**0.39 J**	1.0 U	1.0 U	1.0 U
Total Xylenes	--	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	2.0 U	2.0 U	2.0 U
trans-1,2-Dichloroethene	30*	0.15 U	0.15 U	0.15 U	0.15 U	0.31 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	--	0.11 U	0.11 U	0.11 U	0.11 U	0.23 U	1.0 U	1.0 U	1.0 U
Trichloroethene	--	0.2 U	0.2 U	0.2 U	0.2 U	0.24 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	50	0.13 U	0.13 U	0.13 U	0.13 U	0.45 U	**0.65 J**	1.0 U	1.0 U
Total VOCs	--	**0.29 J**	**36.58 J**	ND	**0.15 J**	**11.39 J**	**2.07 J**	ND	ND
1,4-Dioxane SIM (ug/L)									
1,4-Dioxane	--	NA	NA	NA	NA	NA	NA	NA	NA
Polychlorinated biphenyls (ug/L)									
Aroclor 1016	--	**0.55**	**0.79**	0.2 U	**0.36**	**0.20**	0.80 U	0.50 U	0.50 U
Aroclor 1221	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U
Aroclor 1232	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U
Aroclor 1242	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U
Aroclor 1248	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U
Aroclor 1254	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U
Aroclor 1260	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U
Aroclor 1262	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U
Aroclor 1268	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U
Total PCBs	--	**0.55**	**0.79**	ND	**0.36**	**0.20**	ND	ND	ND
Metals (mg/L)									
Aluminum	--	**0.11**	**0.061**	**0.072**	0.05 U	0.05 U	**0.132 J**	0.2 U	**0.158 J**
Antimony	--	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.02 U	0.02 U	0.02 U
Arsenic	0.15	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.015 U	0.015 U
Barium	3.5	0.05 U	**0.065**	0.05 U	0.05 U	0.05 U	**0.0337 J**	**0.0325**	**0.0537**
Beryllium	--	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.002 U	0.002 U	0.002 U
Cadmium	0.001	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.002 U	0.002 U
Calcium	--	**90**	**120**	**100**	**110**	**49**	**88.3**	**98.5**	**84.4**
Chromium	0.21	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0013 J**	0.004 U	0.004 U
Cobalt	0.005	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	**0.00078 J**	**0.00068 J**
Copper	0.024	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.025 U	0.01 U	**0.0025 J**
Iron	0.3	**0.16**	**6.4**	**5.3**	**4.2**	**3.6**	**0.0794 J**	**0.388**	**9.6**
Lead	0.0032	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Magnesium	--	**19**	**21**	**21 D**	**21**	**9.1**	**17.4**	**17.9**	**16.2**
Manganese	--	**0.51**	**3.1**	**1.7**	**1.5**	**0.85**	**0.23**	**0.515**	**0.469**
Mercury	0.0008	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0002 U	0.0002 U	0.0002 U

See Notes on Page 8.

Table 9
Treatment System Analytical Data - Cell 3
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	9/25/2018	10/22/2018	3/26/2019	11/26/2019	5/26/2020	11/24/2020
Metals (mg/L) (cont.)									
Nickel	0.0096	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0023 J**	**0.0017 J**	**0.0013 J**
Potassium	--	**3.0**	**2.4**	**2.9**	**2.0**	**3.5**	**7.55**	**3.43**	**5.92**
Selenium	--	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.02 U	0.025 U	0.025 U
Silver	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.006 U	0.006 U
Sodium	--	**43**	**52**	**52**	**55**	**19**	**47.9**	**50.4**	**42**
Thallium	--	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.02 U	0.02 U	0.02 U
Vanadium	0.014	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	0.005 U	**0.0015 J**
Zinc	0.17	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0073 J**	**0.0032 J**	**0.0051 J**
General Chemistry (mg/L)									
Total Dissolved Solids	500	**460**	**500**	**430**	**480**	**230**	**486**	**539**	**813**
Total Suspended Solids	50	2 U	**16**	**13**	**11**	**15**	6.3 U	4.0 U	**13.2**

See Notes on Page 8.

Table 9
Treatment System Analytical Data - Cell 3
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	5/18/2021	9/21/2021	11/16/2021	3/15/2022	6/28/2022	9/26/2022	12/21/2022	3/21/2023	10/16/2023
Per- and Polyfluoroalkyl Substances (ng/L)										
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	--	4.26 U	NA	NA	NA	NA	4.1 U	NA	NA	NA
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	--	1.71 U	NA	NA	NA	NA	4.1 U	NA	NA	NA
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	4.26 U	NA	NA	NA	NA	4.1 U	NA	NA	NA
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	4.26 U	NA	NA	NA	NA	4.1 U	NA	NA	NA
Perfluorobutane sulfonic acid (PFBS)	--	**2.09 JH**	NA	NA	NA	NA	**1.7 J**	NA	NA	NA
Perfluorobutanoic acid (PFBA)	--	**8.95 JH**	NA	NA	NA	NA	**6.4**	NA	NA	NA
Perfluorodecane sulfonic acid (PFDS)	--	1.71 U	NA	NA	NA	NA	4.1 U	NA	NA	NA
Perfluorodecanoic acid (PFDA)	--	1.71 U	NA	NA	NA	NA	4.1 U	NA	NA	NA
Perfluorododecanoic acid (PFDoA)	--	1.71 U	NA	NA	NA	NA	4.1 U	NA	NA	NA
Perfluoroheptane sulfonic acid (PFHpS)	--	1.71 U	NA	NA	NA	NA	4.1 U	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	--	**6.87 B**	NA	NA	NA	NA	**4.6**	NA	NA	NA
Perfluorohexane sulfonic acid (PFHxS)	--	**2.23**	NA	NA	NA	NA	**1.5 J**	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	--	**18.9**	NA	NA	NA	NA	**14**	NA	NA	NA
Perfluorononanoic acid (PFNA)	--	**0.35 J**	NA	NA	NA	NA	4.1 U	NA	NA	NA
Perfluorooctane sulfonamide (PFOSA)	--	1.71 U	NA	NA	NA	NA	4.1 U	NA	NA	NA
Perfluorooctane sulfonic acid (PFOS)	--	**3.91 B**	NA	NA	NA	NA	**3.6 J**	NA	NA	NA
Perfluorooctanoic acid (PFOA)	--	**26.2**	NA	NA	NA	NA	**13**	NA	NA	NA
Perfluoropentanoic acid (PFPeA)	--	**12.6**	NA	NA	NA	NA	**11**	NA	NA	NA
Perfluorotetradecanoic acid (PFTeDA)	--	1.71 U	NA	NA	NA	NA	4.1 U	NA	NA	NA
Perfluorotridecanoic acid (PFTrDA)	--	1.71 U	NA	NA	NA	NA	4.1 U	NA	NA	NA
Perfluoroundecanoic acid (PFUdA)	--	1.71 U	NA	NA	NA	NA	4.1 U	NA	NA	NA
Volatile Organic Compounds (ug/L)										
1,1,1,2-Tetrachloroethane	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	--	1.0 U	4.0 U	1.0 U	1 U	2 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	--	1.0 U	4.0 U	1.0 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.50 U
1,1,2-trichloro-1,2,2-trifluoroethane	--	1.0 U	4.0 U	1.0 U	1 U	2 U	1 U	1 U	1 U	1.0 U
1,1,2-Trichloroethane	--	1.0 U	4.0 U	1.0 U	1 U	2 U	1 U	1 U	1 U	1.0 U
1,1-Dichloroethane	30	1.0 U	4.0 U	1.0 U	1 U	2 U	1 U	1 U	1 U	1.0 U
1,1-Dichloroethene	--	1.0 U	4.0 U	1.0 U	1 U	2 U	1 U	1 U	1 U	1.0 U
1,2,3-Trichlorobenzene	--	NA	NA	NA	NA	10 U	5 U	5 U	5 U	5.0 U
1,2,4-Trichlorobenzene	--	1.0 U	4.0 U	1.0 U	1 U	2 U	1 U	1 U	1 U	1.0 U
1,2-Dibromo-3-chloropropane	--	1.0 U	4.0 U	1.0 U	1 U	10 U	5 U	5 U	5 U	5.0 U
1,2-Dibromoethane	--	1.0 U	4.0 U	1.0 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.50 U
1,2-Dichlorobenzene	--	1.0 U	4.0 U	1.0 U	1 U	2 U	1 U	1 U	1 U	1.0 U

See Notes on Page 8.

Table 9
Treatment System Analytical Data - Cell 3
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	5/18/2021	9/21/2021	11/16/2021	3/15/2022	6/28/2022	9/26/2022	12/21/2022	3/21/2023	10/16/2023
Volatile Organic Compounds (ug/L) (cont.)										
1,2-Dichloroethane	--	1.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	--	1.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	--	1.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	--	1.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dioxane	--	NA	NA	NA	NA	100 U	50 U	50 U	50 U	50 U
2-Butanone (MEK)	--	10 U	40 U	10 U	5.0 U	40 U	20 U	20 U	20 U	20 U
4-Methyl-2-Pentanone	--	5.0 U	20 U	5.0 U	5.0 U	20 U	10 U	10 U	10 U	10 U
Acetone	--	10 U	40 U	**3.4 J**	5.0 U	100 U	**2.9 J**	50 U	50 U	50 U
Benzene	--	1.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromochloromethane	--	NA	NA	NA	NA	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	--	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.50 U
Bromoform	--	1.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	--	1.0 U	4.0 U	1.0 U	1.0 U	4.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U
Carbon Disulfide	--	1.0 U	4.0 U	1.0 U	1.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Tetrachloride	--	1.0 U	4.0 U	1.0 U	1.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U
CFC-11	--	1.0 U	4.0 U	1.0 U	1.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U
CFC-12	--	1.0 U	4.0 U	1.0 U	1.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chlorobenzene	--	1.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorodibromomethane	--	1.0 U	4.0 U	1.0 U	1.0 U	1 U	0.5 U	0.5 U	0.5 U	0.50 U
Chloroethane	20	1.0 U	4.0 U	1.0 U	1.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroform	150	1.0 U	4.0 U	1.0 U	1.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloromethane	--	1.0 U	4.0 U	1.0 U	1.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	30	1.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	**2.5**
cis-1,3-Dichloropropene	--	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.50 U
Cyclohexane	--	1.0 U	4.0 U	1.0 U	1.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U
Dichloromethane	50	1.0 U	4.0 U	1.0 U	1.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	--	1.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene	--	1.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	--	2.5 U	10 U	2.5 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl N-Butyl Ketone (2-Hexanone)	--	5.0 U	20 U	5.0 U	5.0 U	20 U	10 U	10 U	10 U	10 U
Methylcyclohexane	--	1.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl-tert-butylether	--	1.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene (Monomer)	--	1.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	--	1.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U

See Notes on Page 8.

Table 9
Treatment System Analytical Data - Cell 3
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	5/18/2021	9/21/2021	11/16/2021	3/15/2022	6/28/2022	9/26/2022	12/21/2022	3/21/2023	10/16/2023
Volatile Organic Compounds (ug/L) (cont.)										
Toluene	--	1.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	--	2.0 U	8.0 U	2.0 U	3.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	30	1.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	--	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.50 U
Trichloroethene	--	1.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	50	1.0 U	4.0 U	1.0 U	1.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs	--	ND	ND	**3.4 J**	ND	ND	**2.9 J**	21 U	50 U	**2.5**
1,4-Dioxane SIM (ug/L)										
1,4-Dioxane	--	**3.8 JH**	NA	NA	NA	NA	**2.2**	NA	NA	NA
Polychlorinated biphenyls (ug/L)										
Aroclor 1016	--	0.50 U	0.50 U	0.50 U	0.94 U	0.0504 U	0.19 U	0.0671 U	0.194 U	**0.0920 J**
Aroclor 1221	--	0.50 U	0.50 U	0.50 U	0.94 U	0.0756 U	0.19 U	0.0763 U	0.194 U	0.190 U
Aroclor 1232	--	0.50 U	**0.82**	0.50 U	0.94 U	0.0694 U	0.19 U	0.0701 U	0.194 U	0.190 U
Aroclor 1242	--	0.50 U	0.50 U	0.50 U	0.94 U	0.0729 U	0.19 U	0.0737 U	0.194 U	0.190 U
Aroclor 1248	--	0.50 U	0.50 U	0.50 U	0.94 U	0.0846 U	0.19 U	0.0854 U	0.194 U	0.190 U
Aroclor 1254	--	0.50 U	0.50 U	0.50 U	0.94 U	0.0746 U	0.19 U	0.0753 U	0.194 U	0.190 U
Aroclor 1260	--	0.50 U	0.50 U	0.50 U	0.94 U	0.0594 U	0.19 U	0.06 U	0.194 U	0.190 U
Aroclor 1262	--	0.50 U	0.50 U	0.50 U	0.94 U	NA	0.19 U	NA	NA	NA
Aroclor 1268	--	0.50 U	0.50 U	0.50 U	NA	NA	0.19 U	NA	NA	NA
Total PCBs	--	ND	**0.82**	ND	ND	ND	ND	ND	ND	**0.0920 J**
Metals (mg/L)										
Aluminum	--	0.2 U	0.2 U	0.2 U	0.2 U	0.05 U	**0.015 J**	0.05 U	0.05 U	0.050 U
Antimony	--	0.02 U	0.02 U	0.02 U	0.06 U	0.05 U	**0.019 J**	0.05 U	0.05 U	0.050 U
Arsenic	0.15	0.015 U	0.015 U	0.015 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U
Barium	3.5	**0.0287**	**0.0495**	**0.0208**	0.2 U	0.05 U	**0.029 J**	0.05 U	0.05 U	0.050 U
Beryllium	--	0.002 U	0.002 U	0.002 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0040 U
Cadmium	0.001	0.002 U	0.002 U	0.002 U	0.0025 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0040 U
Calcium	--	**98.7**	**111**	**49**	**95.9**	**90**	**110**	**110**	**55**	**110**
Chromium	0.21	0.004 U	0.004 U	0.004 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U
Cobalt	0.005	0.004 U	**0.0015 J**	0.004 U	0.05 U	0.01 U	**0.0016 J**	0.01 U	0.01 U	0.010 U
Copper	0.024	0.01 U	0.01 U	0.01 U	0.025 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U
Iron	0.3	**0.253 JH**	**6.02**	**1.5**	**0.875**	**0.81**	**2.2**	**3.3**	**2.7**	**1.2**
Lead	0.0032	0.01 U	0.01 U	0.01 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U
Magnesium	--	**17.4**	**20.1**	**9.02**	**17.4**	**16**	**20**	**20**	**10**	**21**
Manganese	--	**0.145**	**1.77 B**	**1.03**	**1.01**	**0.19**	**1.2**	**1.4**	**1.0**	**2.1**
Mercury	0.0008	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.00020 U

See Notes on Page 8.

Table 9
Treatment System Analytical Data - Cell 3
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	5/18/2021	9/21/2021	11/16/2021	3/15/2022	6/28/2022	9/26/2022	12/21/2022	3/21/2023	10/16/2023
Metals (mg/L) (cont.)										
Nickel	0.0096	**0.0014 J**	**0.0017 J**	0.01 U	0.04 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U
Potassium	--	**3.71**	**1.21**	**21.1**	5.0 U	**5.6**	**2.9**	**2.2**	**2.9**	**3.1**
Selenium	--	0.025 U	0.025 U	0.025 U	0.01 U	0.05 U	0.05 U	0.05 U	0.05 U	0.050 U
Silver	--	0.006 U	0.006 U	0.006 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U
Sodium	--	**55**	**51.5 B**	**20.2**	**38.4**	**39**	**40**	**44**	**20**	**48**
Thallium	--	0.02 U	0.02 U	0.02 U	0.01 U	0.05 U	0.05 U	0.05 U	0.05 U	0.050 U
Vanadium	0.014	0.005 U	0.005 U	0.005 U	0.05 U	0.01 U	**0.0069 J**	0.01 U	0.01 U	0.010 U
Zinc	0.17	0.01 U	**0.0017 BJ**	**0.0046 J**	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U
General Chemistry (mg/L)										
Total Dissolved Solids	500	**484**	**496**	**317**	**468**	**390**	NA	**440**	**210**	**400**
Total Suspended Solids	50	4.0 U	**14.0**	4.0 U	10 U	**2.6**	NA	**7.5**	2.5 U	5.0 U

Notes:
Constituents detected above the Fort Edward State Pollution Discharge Elimination System (SPDES) Equivalency Permit are highlighted in yellow.
Values in bold text indicate a detection.
"--" - Value does not exist for analyte.
* - The Fort Edward SPDES Equivalency Permit Limit for 1,2-Dichloroethene is a total limit of 30 ug/L for cis- and trans-1,2-Dichloroethene combined.

Definitions:
B - Compound was found in the blank and sample.
D - Sample was diluted prior to analysis of the compound.
H - Sample was extracted past the recommended holding time.
J - The concentration is an approximate value.
mg/L - milligrams per liter
NA - Not Analyzed
ND - Not Detected
ng/L - nanograms per liter
T - LCS or LCSD is outside acceptable limits.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
ug/L - micrograms per liter

Table 10
Treatment System Analytical Data - Cell 2
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	9/25/2018	10/22/2018	3/26/2019	11/26/2019	5/26/2020	11/24/2020
Per- and Polyfluoroalkyl Substances (ng/L)									
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	--	NA	NA	NA	NA	NA	NA	NA	NA
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	--	NA	NA	NA	NA	NA	NA	NA	NA
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	NA	NA	NA	NA	NA	NA	NA	NA
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutane sulfonic acid (PFBS)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecane sulfonic acid (PFDS)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorododecanoic acid (PFDoA)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptane sulfonic acid (PFHpS)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexane sulfonic acid (PFHxS)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonamide (PFOSA)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonic acid (PFOS)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanoic acid (PFPeA)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorotetradecanoic acid (PFTeDA)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorotridecanoic acid (PFTrDA)	--	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroundecanoic acid (PFUdA)	--	NA	NA	NA	NA	NA	NA	NA	NA
Volatile Organic Compounds (ug/L)									
1,1,1,2-Tetrachloroethane	--	0.12 U	0.24 U	0.12 U	0.12 U	0.27 U	NA	NA	NA
1,1,1-Trichloroethane	--	0.13 U	0.26 U	0.13 U	0.13 U	0.2 U	1.0 U	1.0 U	4.0 U
1,1,2,2-Tetrachloroethane	--	NA	NA	NA	NA	NA	1.0 UT	1.0 U	4.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	--	0.2 U	0.39 U	0.2 U	0.2 U	0.32 U	1.0 U	1.0 U	4.0 U
1,1,2-Trichloroethane	--	0.24 U	0.47 U	0.24 U	0.24 U	0.16 U	1.0 U	1.0 U	4.0 U
1,1-Dichloroethane	30	0.16 U	0.32 U	0.16 U	0.16 U	0.16 U	1.0 U	1.0 U	4.0 U
1,1-Dichloroethene	--	0.21 U	0.42 U	0.21 U	0.21 U	0.32 U	1.0 U	1.0 U	4.0 U
1,2,3-Trichlorobenzene	--	0.14 U	0.28 U	0.14 U	0.14 U	0.57 U	NA	NA	NA
1,2,4-Trichlorobenzene	--	0.19 U	0.38 U	0.19 U	0.19 U	0.4 U	1.0 U	1.0 U	4.0 U
1,2-Dibromo-3-chloropropane	--	0.37 U	0.74 U	0.37 U	0.37 U	0.53 U	1.0 U	1.0 U	4.0 U
1,2-Dibromoethane	--	0.15 U	0.3 U	0.15 U	0.38 U	0.19 U	1.0 U	1.0 U	4.0 U
1,2-Dichlorobenzene	--	0.17 U	0.34 U	0.17 U	0.39 U	0.16 U	1.0 U	1.0 U	4.0 U
1,2-Dichloroethane	--	0.19 U	0.39 U	0.19 U	0.40 U	0.41 U	1.0 U	1.0 U	4.0 U
1,2-Dichloropropane	--	0.13 U	0.26 U	0.13 U	0.41 U	0.2 U	1.0 U	1.0 U	4.0 U

See Notes on Page 8.

Table 10
Treatment System Analytical Data - Cell 2
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	9/25/2018	10/22/2018	3/26/2019	11/26/2019	5/26/2020	11/24/2020
Volatile Organic Compounds (ug/L) (cont.)									
1,3-Dichlorobenzene	--	0.17 U	0.34 U	0.17 U	0.42 U	0.12 U	1.0 U	1.0 U	4.0 U
1,4-Dichlorobenzene	--	0.15 U	0.3 U	0.15 U	0.43 U	0.13 U	1.0 U	1.0 U	4.0 U
1,4-Dioxane	--	26 U	53 U	26 U	0.44 U	22 U	NA	NA	NA
2-Butanone (MEK)	--	2.4 U	4.7 U	2.4 U	0.45 U	1.9 U	5.0 U	10 U	40 U
4-Methyl-2-Pentanone	--	1.5 U	2.9 U	1.5 U	0.46 U	1.7 U	5.0 U	5.0 U	20 U
Acetone	--	9.7 U	19 U	9.7 U	0.47 U	3.8 U	5.0 U	10 UT	40 U
Benzene	--	0.12 U	0.24 U	0.12 U	0.48 U	0.18 U	1.0 U	1.0 U	4.0 U
Bromochloromethane	--	0.22 U	0.45 U	0.22 U	0.49 U	0.32 U	NA	NA	NA
Bromodichloromethane	--	0.3 U	0.59 U	0.3 U	0.50 U	0.16 U	1.0 U	1.0 U	4.0 U
Bromoform	--	0.21 U	0.42 U	0.21 U	0.51 U	0.46 U	1.0 U	1.0 U	4.0 U
Bromomethane	--	0.94 U	1.9 U	0.94 U	0.52 U	0.78 U	1.0 U	1.0 U	4.0 U
Carbon Disulfide	--	1.0 U	2.0 U	1.0 U	0.53 U	4.4 U	1.0 U	1.0 U	4.0 U
Carbon Tetrachloride	--	0.25 U	0.49 U	0.25 U	0.54 U	0.11 U	1.0 U	1.0 U	4.0 U
CFC-11	--	0.15 U	0.29 U	0.15 U	0.55 U	0.33 U	1.0 U	1.0 U	4.0 U
CFC-12	--	0.28 U	0.57 U	0.28 U	0.56 U	0.26 U	1.0 U	1.0 U	4.0 U
Chlorobenzene	--	0.16 U	0.32 U	0.16 U	0.57 U	0.15 U	1.0 U	1.0 U	4.0 U
Chlorodibromomethane	--	0.1 U	0.21 U	0.1 U	0.58 U	0.21 U	1.0 U	1.0 U	4.0 U
Chloroethane	20	0.28 U	0.56 U	0.28 U	0.59 U	0.35 U	1.0 U	1.0 U	4.0 U
Chloroform	150	NA	NA	NA	**0.60**	NA	1.0 U	1.0 U	4.0 U
Chloromethane	--	NA	NA	NA	**0.61**	NA	1.0 U	1.0 U	4.0 U
cis-1,2-Dichloroethene	30*	**0.64 J**	0.29 U	0.15 U	0.62 U	0.13 U	1.0 U	1.0 U	4.0 U
cis-1,3-Dichloropropene	--	0.12 U	0.24 U	0.12 U	0.63 U	0.13 U	1.0 U	1.0 U	4.0 U
Cyclohexane	--	0.25 U	0.5 U	0.25 U	0.64 U	1.5 U	1.0 U	1.0 U	4.0 U
Dichloromethane	50	3.2 U	6.4 U	3.2 U	0.65 U	0.34 U	1.0 U	1.0 U	4.0 U
Ethylbenzene	--	0.13 U	0.26 U	0.13 U	0.66 U	0.13 U	1.0 U	1.0 U	4.0 U
Isopropylbenzene	--	0.12 U	0.24 U	0.12 U	0.67 U	0.17 U	1.0 U	1.0 U	4.0 U
m&p-Xylenes	--	0.26 U	0.51 U	0.26 U	0.68 U	0.3 U	NA	NA	NA
Methyl Acetate	--	0.42 U	0.84 U	0.42 U	0.69 U	0.42 U	5.0 U	2.5 U	10 U
Methyl N-Butyl Ketone (2-Hexanone)	--	1.5 U	3 U	1.5 U	0.70 U	1.5 U	5.0 U	5.0 U	20 U
Methylcyclohexane	--	0.63 U	1.3 U	0.63 U	0.71 U	0.2 U	1.0 U	1.0 U	4.0 U
Methyl-tert-butylether	--	0.09 U	0.18 U	0.09 U	0.72 U	0.25 U	1.0 U	1.0 U	4.0 U
o-Xylene	--	0.13 U	0.26 U	0.13 U	0.73 U	0.17 U	NA	NA	NA
Styrene (Monomer)	--	0.15 U	0.3 U	0.15 U	0.74 U	0.11 U	1.0 U	1.0 U	4.0 U
Tetrachloroethene	--	0.27 U	0.54 U	0.27 U	0.75 U	0.18 U	1.0 U	1.0 U	4.0 U
Toluene	--	0.17 U	0.34 U	0.17 U	0.76 U	0.14 U	1.0 U	1.0 U	4.0 U

See Notes on Page 8.

Table 10
Treatment System Analytical Data - Cell 2
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	9/25/2018	10/22/2018	3/26/2019	11/26/2019	5/26/2020	11/24/2020
Volatile Organic Compounds (ug/L) (cont.)									
Total Xylenes	--	3.0 U	6.0 UD	3.0 U	0.78 U	3.0 U	2.0 U	2.0 U	8.0 U
trans-1,2-Dichloroethene	30*	0.15 U	0.3 U	0.15 U	0.79 U	0.31 U	1.0 U	1.0 U	4.0 U
trans-1,3-Dichloropropene	--	0.11 U	0.22 U	0.11 U	0.80 U	0.23 U	1.0 U	1.0 U	4.0 U
Trichloroethene	--	0.2 U	0.4 U	0.2 U	0.81 U	0.24 U	1.0 U	1.0 U	4.0 U
Vinyl chloride	50	0.13 U	0.27 U	0.13 U	0.82 U	0.45 U	1.0 U	1.0 U	4.0 U
Total VOCs	--	**0.64 J**	ND	ND	**1.21**	ND	ND	ND	ND
1,4-Dioxane SIM (ug/L)									
1,4-Dioxane	--	NA	NA	NA	NA	NA	NA	NA	NA
Polychlorinated biphenyls (ug/L)									
Aroclor 1016	--	0.2 U	0.2 U	0.19 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U
Aroclor 1221	--	0.2 U	0.2 U	0.19 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U
Aroclor 1232	--	0.2 U	0.2 U	0.19 U	0.2 U	0.14 U	0.80 U	0.50 U	**0.52**
Aroclor 1242	--	0.2 U	0.2 U	0.19 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U
Aroclor 1248	--	0.2 U	0.2 U	0.19 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U
Aroclor 1254	--	0.2 U	0.2 U	0.19 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U
Aroclor 1260	--	0.2 U	0.2 U	0.19 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U
Aroclor 1262	--	0.2 U	0.2 U	0.19 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U
Aroclor 1268	--	0.2 U	0.2 U	0.19 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U
Total PCBs	--	ND	ND	ND	ND	ND	ND	ND	**0.52**
Metals (mg/L)									
Aluminum	--	**0.057**	**0.95**	**0.14**	0.05 U	**0.052**	0.2 U	0.2 U	0.2 U
Antimony	--	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.02 U	0.02 U	0.02 U
Arsenic	0.15	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.015 U	0.015 U
Barium	3.5	0.05 U	**0.074**	**0.063**	**0.059**	0.05 U	**0.0451 J**	**0.0433**	**0.0438**
Beryllium	--	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.002 U	0.002 U	0.002 U
Cadmium	0.001	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.002 U	0.002 U
Calcium	--	**91**	**110**	**110**	**110**	**86**	**86.2**	**89.1**	**89.3**
Chromium	0.21	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0015 J**	0.004 U	0.004 U
Cobalt	0.005	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	**0.002 J**	**0.0015 J**	**0.0014 J**
Copper	0.024	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.007 J**	**0.0039 J**	0.01 U
Iron	0.3	**2.1**	**11**	**8.7**	**5.8**	**3.1**	**0.928**	**1.01**	**5.11**
Lead	0.0032	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Magnesium	--	**17**	**19**	**21 D**	**19**	**14**	**15.7**	**15.3**	**16.9**
Manganese	--	**0.38**	**2.5**	**1.6**	**1.1**	**0.41**	**0.242**	**0.351**	**0.684**
Mercury	0.0008	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0002 U	0.0002 U	0.0002 U

See Notes on Page 8.

Table 10
Treatment System Analytical Data - Cell 2
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	9/25/2018	10/22/2018	3/26/2019	11/26/2019	5/26/2020	11/24/2020
Metals (mg/L) (cont.)									
Nickel	0.0096	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0048 J**	**0.0039 J**	**0.0034 J**
Potassium	--	**2.5**	**2.2**	2.0 U	**3.2**	2.0 U	**4.22 J**	**3.31**	**2.5**
Selenium	--	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.02 U	0.025 U	0.025 U
Silver	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.006 U	0.006 U
Sodium	--	**41**	**45**	**51**	**51**	**31**	**41**	**42**	**42.5**
Thallium	--	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.02 U	0.02 U	0.02 U
Vanadium	0.014	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	0.005 U	0.005 U
Zinc	0.17	**0.023**	0.02 U	0.02 U	0.02 U	0.02 U	**0.0047 J**	**0.0033 J**	**0.0016 J**
General Chemistry (mg/L)									
Total Dissolved Solids	500	**430**	**400**	**490**	**430**	**350**	**450**	**438**	**409**
Total Suspended Solids	50	**2.8**	**13**	**7.1**	**6.5**	**2.8**	6.3 U	**7.2**	4.0 U

See Notes on Page 8.

Table 10
Treatment System Analytical Data - Cell 2
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	5/18/2021	9/21/2021	11/16/2021	3/15/2022	6/28/2022	12/21/2022	3/21/2023	6/20/2023
Per- and Polyfluoroalkyl Substances (ng/L)									
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	--	4.16 U	NA	NA	NA	NA	NA	NA	NA
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	--	1.67 U	NA	NA	NA	NA	NA	NA	NA
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	4.16 U	NA	NA	NA	NA	NA	NA	NA
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	4.16 U	NA	NA	NA	NA	NA	NA	NA
Perfluorobutane sulfonic acid (PFBS)	--	**1.85 JH**	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	--	**9.28 JH**	NA	NA	NA	NA	NA	NA	NA
Perfluorodecane sulfonic acid (PFDS)	--	1.67 U	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	--	1.67 U	NA	NA	NA	NA	NA	NA	NA
Perfluorododecanoic acid (PFDoA)	--	1.67 U	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptane sulfonic acid (PFHpS)	--	1.67 U	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	--	**5.59 B**	NA	NA	NA	NA	NA	NA	NA
Perfluorohexane sulfonic acid (PFHxS)	--	**1.77**	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	--	**14.4**	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	--	**0.30 J**	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonamide (PFOSA)	--	1.67 U	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonic acid (PFOS)	--	**3.28 B**	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	--	**20.5**	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanoic acid (PFPeA)	--	**10.6**	NA	NA	NA	NA	NA	NA	NA
Perfluorotetradecanoic acid (PFTeDA)	--	1.67 U	NA	NA	NA	NA	NA	NA	NA
Perfluorotridecanoic acid (PFTrDA)	--	1.67 U	NA	NA	NA	NA	NA	NA	NA
Perfluoroundecanoic acid (PFUdA)	--	1.67 U	NA	NA	NA	NA	NA	NA	NA
Volatile Organic Compounds (ug/L)									
1,1,1,2-Tetrachloroethane	--	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	--	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U
1,1,2,2-Tetrachloroethane	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	--	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U
1,1,2-Trichloroethane	--	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U
1,1-Dichloroethane	30	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U
1,1-Dichloroethene	--	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U
1,2,3-Trichlorobenzene	--	NA	NA	NA	NA	10 U	5.0 U	10 U	10 U
1,2,4-Trichlorobenzene	--	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U
1,2-Dibromo-3-chloropropane	--	1.0 U	1.0 U	1.0 U	1.0 U	10 U	5.0 U	10 U	10 U
1,2-Dibromoethane	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U
1,2-Dichlorobenzene	--	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U
1,2-Dichloroethane	--	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U
1,2-Dichloropropane	--	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U

See Notes on Page 8.

Table 10
Treatment System Analytical Data - Cell 2
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	5/18/2021	9/21/2021	11/16/2021	3/15/2022	6/28/2022	12/21/2022	3/21/2023	6/20/2023
Volatile Organic Compounds (ug/L) (cont.)									
1,3-Dichlorobenzene	--	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	--	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U
1,4-Dioxane	--	NA	NA	NA	NA	100 U	50 U	100 U	100 U
2-Butanone (MEK)	--	10 U	10 U	10 U	5.0 U	40 U	20 U	40 U	40 U
4-Methyl-2-Pentanone	--	5.0 U	5.0 U	5.0 U	5.0 U	20 U	10 U	20 U	20 U
Acetone	--	10 U	10 U	10 U	5.0 U	100 U	50 U	100 U	100 U
Benzene	--	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U
Bromochloromethane	--	NA	NA	NA	NA	2.0 U	2.0 U	2.0 U	2.0 U
Bromodichloromethane	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	2.0 U	1.0 U
Bromoform	--	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U
Bromomethane	--	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	2.0 U	4.0 U	4.0 U
Carbon Disulfide	--	1.0 U	1.0 U	1.0 U	1.0 U	10 U	5.0 U	10 U	10 U
Carbon Tetrachloride	--	1.0 U	1.0 U	1.0 U	1.0 U	10 U	5.0 U	10 U	10 U
CFC-11	--	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	2.0 U	4.0 U	4.0 U
CFC-12	--	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	2.0 U	4.0 U	4.0 U
Chlorobenzene	--	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U
Chlorodibromomethane	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	2.0 U	1.0 U
Chloroethane	20	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	2.0 U	4.0 U	4.0 U
Chloroform	150	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	2.0 U	4.0 U	4.0 U
Chloromethane	--	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	2.0 U	4.0 U	4.0 U
cis-1,2-Dichloroethene	30*	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U
cis-1,3-Dichloropropene	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	2.0 U	1.0 U
Cyclohexane	--	1.0 U	1.0 U	1.0 U	1.0 U	10 U	5.0 U	10 U	10 U
Dichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	10 U	5.0 U	10 U	10 U
Ethylbenzene	--	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U
Isopropylbenzene	--	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U
m&p-Xylenes	--	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	--	2.5 U	2.5 U	2.5 U	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U
Methyl N-Butyl Ketone (2-Hexanone)	--	5.0 U	5.0 U	5.0 U	5.0 U	20 U	10 U	20 U	20 U
Methylcyclohexane	--	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U
Methyl-tert-butylether	--	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U
o-Xylene	--	NA	NA	NA	NA	NA	NA	NA	NA
Styrene (Monomer)	--	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U
Tetrachloroethene	--	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U
Toluene	--	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U

See Notes on Page 8.

Table 10
Treatment System Analytical Data - Cell 2
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	5/18/2021	9/21/2021	11/16/2021	3/15/2022	6/28/2022	12/21/2022	3/21/2023	6/20/2023
Volatile Organic Compounds (ug/L) (cont.)									
Total Xylenes	--	2.0 U	2.0 U	2.0 U	3.0 U	2.0 U	1.0 U	2.0 U	2.0 U
trans-1,2-Dichloroethene	30*	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U
trans-1,3-Dichloropropene	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U
Trichloroethene	--	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U
Vinyl chloride	50	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	2.0 U	4.0 U	4.0 U
Total VOCs	--	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane SIM (ug/L)									
1,4-Dioxane	--	**2.7 JH**	NA	NA	NA	NA	NA	NA	NA
Polychlorinated biphenyls (ug/L)									
Aroclor 1016	--	0.50 U	0.50 U	0.50 U	0.94 U	0.0504 U	0.0661 U	**0.0850 J**	0.192 U
Aroclor 1221	--	0.50 U	0.50 U	0.50 U	0.94 U	0.0756 U	0.0752 U	0.194 U	0.192 U
Aroclor 1232	--	0.50 U	**0.23 J**	0.50 U	0.94 U	0.0694 U	0.0691 U	0.194 U	0.192 U
Aroclor 1242	--	0.50 U	0.50 U	0.50 U	0.94 U	0.0729 U	0.0726 U	0.194 U	0.192 U
Aroclor 1248	--	0.50 U	0.50 U	0.50 U	0.94 U	0.0846 U	0.0842 U	0.194 U	0.192 U
Aroclor 1254	--	0.50 U	0.50 U	0.50 U	0.94 U	0.0746 U	0.0742 U	0.194 U	0.192 U
Aroclor 1260	--	0.50 U	0.50 U	0.50 U	0.94 U	0.0594 U	0.0591 U	0.194 U	0.192 U
Aroclor 1262	--	0.50 U	0.50 U	0.50 U	NA	NA	NA	NA	NA
Aroclor 1268	--	0.50 U	0.50 U	0.50 U	NA	NA	NA	NA	NA
Total PCBs	--	ND	**0.23 J**	ND	ND	ND	ND	**0.0850 J**	ND
Metals (mg/L)									
Aluminum	--	0.2 U	0.2 U	**0.0933 J**	0.2 U	0.05 U	0.05 U	**0.057**	**0.059**
Antimony	--	0.02 U	0.02 U	0.02 U	0.06 U	0.05 U	0.05 U	0.05 U	0.050 U
Arsenic	0.15	0.015 U	0.015 U	0.015 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U
Barium	3.5	**0.0386**	**0.0558**	**0.0421**	0.2 U	**0.057**	0.05 U	0.05 U	0.050 U
Beryllium	--	0.002 U	0.002 U	0.002 U	0.005 U	0.004 U	0.004 U	0.004 U	0.0040 U
Cadmium	0.001	0.002 U	0.002 U	0.002 U	0.0025 U	0.004 U	0.004 U	0.004 U	0.0040 U
Calcium	--	**88.9**	**111**	**86.7**	**91.8**	**110**	**110**	**91**	**94**
Chromium	0.21	0.004 U	0.004 U	0.004 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U
Cobalt	0.005	**0.00085 J**	0.004 U	**0.0012 J**	0.05 U	0.01 U	0.01 U	0.01 U	0.010 U
Copper	0.024	**0.0028 J**	0.01 U	0.01 U	0.025 U	0.01 U	0.01 U	0.01 U	0.010 U
Iron	0.3	**1.71 JH**	**10**	**10.1**	**5.46**	**9.0**	**12**	**5.3**	**6.0**
Lead	0.0032	0.01 U	0.01 U	0.01 U	0.005 U	0.01 U	0.01 U	0.01 U	0.010 U
Magnesium	--	**15.1**	**19.9**	**15.6**	**16.5**	**18**	**19**	**15**	**15**
Manganese	--	**0.309**	**1.67 B**	**1.03**	**0.967**	**1.1**	**1.1**	**0.71**	**0.69**
Mercury	0.0008	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0001 U	0.0001 U	0.0001 U	0.00020 U

See Notes on Page 8.

Table 10
Treatment System Analytical Data - Cell 2
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	5/18/2021	9/21/2021	11/16/2021	3/15/2022	6/28/2022	12/21/2022	3/21/2023	6/20/2023
Metals (mg/L) (cont.)									
Nickel	0.0096	**0.0033 J**	**0.0022 J**	**0.0027 J**	0.04 U	0.01 U	0.01 U	0.01 U	0.010 U
Potassium	--	**3.03**	**1.66**	**2.38**	5.0 U	**2.4**	2.0 U	2.0 U	**3.2**
Selenium	--	0.025 U	0.025 U	0.025 U	0.01 U	0.05 U	0.05 U	0.05 U	0.050 U
Silver	--	0.006 U	0.006 U	0.006 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U
Sodium	--	**44.5**	**50.1 B**	**31.7**	**34.1**	**42**	**34**	**29**	**33**
Thallium	--	0.02 U	0.02 U	0.02 U	0.01 U	0.05 U	0.05 U	0.05 U	0.050 U
Vanadium	0.014	0.005 U	**0.0017 J**	**0.0016 J**	0.05 U	**0.011**	0.01 U	0.01 U	0.010 U
Zinc	0.17	0.01 U	0.01 U	0.01 U	0.02 U	0.01 U	0.01 U	0.01 U	0.010 U
General Chemistry (mg/L)									
Total Dissolved Solids	500	**430**	**485**	**467**	**422**	**430**	**400**	**350**	**370**
Total Suspended Solids	50	4.0 U	**10.8**	4.0 U	**10**	**4.0**	**9.0**	1.0 U	2.5 U

Notes:
Constituents detected above the Fort Edward State Pollution Discharge Elimination System (SPDES) Equivalency Permit are highlighted in yellow.
Values in bold text indicate a detection.
"--" - Value does not exist for analyte.
* - The Fort Edward SPDES Equivalency Permit Limit for 1,2-Dichloroethene is a total limit of 30 ug/L for cis- and trans-1,2-Dichloroethene combined.

Definitions:
B - Compound was found in the blank and sample.
D - Sample was diluted prior to analysis of the compound.
H - Sample was extracted past the recommended holding time.
J - The concentration is an approximate value.
mg/L - milligrams per liter
NA - Not Analyzed
ND - Not Detected
ng/L - nanograms per liter
T - LCS or LCSD is outside acceptable limits.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
ug/L - micrograms per liter

Table 11
Treatment System Analytical Data - Cell 1
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	10/22/2018	3/26/2019	11/26/2019	5/18/2021
Per- and Polyfluoroalkyl Substances (ng/L)							
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	--	NA	NA	NA	NA	NA	4.21 U
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	--	NA	NA	NA	NA	NA	1.69 U
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	NA	NA	NA	NA	NA	4.21 U
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	NA	NA	NA	NA	NA	4.21 U
Perfluorobutane sulfonic acid (PFBS)	--	NA	NA	NA	NA	NA	**1.77 JH**
Perfluorobutanoic acid (PFBA)	--	NA	NA	NA	NA	NA	**7.56 JH**
Perfluorodecane sulfonic acid (PFDS)	--	NA	NA	NA	NA	NA	1.69 U
Perfluorodecanoic acid (PFDA)	--	NA	NA	NA	NA	NA	1.69 U
Perfluorododecanoic acid (PFDoA)	--	NA	NA	NA	NA	NA	1.69 U
Perfluoroheptane sulfonic acid (PFHpS)	--	NA	NA	NA	NA	NA	1.69 U
Perfluoroheptanoic acid (PFHpA)	--	NA	NA	NA	NA	NA	**5.31 B**
Perfluorohexane sulfonic acid (PFHxS)	--	NA	NA	NA	NA	NA	1.69 U
Perfluorohexanoic acid (PFHxA)	--	NA	NA	NA	NA	NA	**12.1**
Perfluorononanoic acid (PFNA)	--	NA	NA	NA	NA	NA	**0.34 J**
Perfluorooctane sulfonamide (PFOSA)	--	NA	NA	NA	NA	NA	1.69 U
Perfluorooctane sulfonic acid (PFOS)	--	NA	NA	NA	NA	NA	**2.78 B**
Perfluorooctanoic acid (PFOA)	--	NA	NA	NA	NA	NA	**15.2**
Perfluoropentanoic acid (PFPeA)	--	NA	NA	NA	NA	NA	**9.51**
Perfluorotetradecanoic acid (PFTeDA)	--	NA	NA	NA	NA	NA	1.69 U
Perfluorotridecanoic acid (PFTrDA)	--	NA	NA	NA	NA	NA	1.69 U
Perfluoroundecanoic acid (PFUdA)	--	NA	NA	NA	NA	NA	1.69 U
Volatile Organic Compounds (ug/L)							
1,1,1,2-Tetrachloroethane	--	0.12 U	0.24 U	0.12 U	0.27 U	NA	NA
1,1,1-Trichloroethane	--	0.13 U	0.26 U	0.13 U	0.2 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	--	NA	NA	NA	NA	1.0 UT	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	--	0.2 U	0.39 U	0.2 U	0.32 U	1.0 U	1.0 U
1,1,2-Trichloroethane	--	0.24 U	0.47 U	0.24 U	0.16 U	1.0 U	1.0 U
1,1-Dichloroethane	30	0.16 U	0.32 U	0.16 U	0.16 U	1.0 U	1.0 U
1,1-Dichloroethene	--	0.21 U	0.42 U	0.21 U	0.32 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	--	0.14 U	0.28 U	0.14 U	0.57 U	NA	NA
1,2,4-Trichlorobenzene	--	0.19 U	0.38 U	0.19 U	0.4 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	--	0.37 U	0.74 U	0.37 U	0.53 U	1.0 U	1.0 U
1,2-Dibromoethane	--	0.15 U	0.3 U	0.15 U	0.19 U	1.0 U	1.0 U
1,2-Dichlorobenzene	--	0.17 U	0.34 U	0.17 U	0.16 U	1.0 U	1.0 U
1,2-Dichloroethane	--	0.19 U	0.39 U	0.19 U	0.41 U	1.0 U	1.0 U
1,2-Dichloropropane	--	0.13 U	0.26 U	0.13 U	0.2 U	1.0 U	1.0 U

See Notes on Page 8.

Table 11
Treatment System Analytical Data - Cell 1
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	10/22/2018	3/26/2019	11/26/2019	5/18/2021
Volatile Organic Compounds (ug/L) (cont.)							
1,3-Dichlorobenzene	--	0.17 U	0.34 U	0.17 U	0.12 U	1.0 U	1.0 U
1,4-Dichlorobenzene	--	0.15 U	0.3 U	0.15 U	0.13 U	1.0 U	1.0 U
1,4-Dioxane	--	26 U	53 U	26 U	22 U	NA	NA
2-Butanone (MEK)	--	2.4 U	4.7 U	2.4 U	1.9 U	5.0 U	10 U
4-Methyl-2-Pentanone	--	1.5 U	2.9 U	1.5 U	1.7 U	5.0 U	5.0 U
Acetone	--	9.7 U	19 U	9.7 U	3.8 U	5.0 U	10 U
Benzene	--	0.12 U	0.24 U	0.12 U	0.18 U	1.0 U	1.0 U
Bromochloromethane	--	0.22 U	0.45 U	0.22 U	0.32 U	NA	NA
Bromodichloromethane	--	0.3 U	0.59 U	0.3 U	0.16 U	1.0 U	1.0 U
Bromoform	--	0.21 U	0.42 U	0.21 U	0.46 U	1.0 U	1.0 U
Bromomethane	--	0.94 U	1.9 U	0.94 U	0.78 U	1.0 U	1.0 U
Carbon Disulfide	--	1.0 U	2.0 U	1.0 U	4.4 U	1.0 U	1.0 U
Carbon Tetrachloride	--	0.25 U	0.49 U	0.25 U	0.11 U	1.0 U	1.0 U
CFC-11	--	0.15 U	0.29 U	0.15 U	0.33 U	1.0 U	1.0 U
CFC-12	--	0.28 U	0.57 U	0.28 U	0.26 U	1.0 U	1.0 U
Chlorobenzene	--	0.16 U	0.32 U	0.16 U	0.15 U	1.0 U	1.0 U
Chlorodibromomethane	--	0.1 U	0.21 U	0.1 U	0.21 U	1.0 U	1.0 U
Chloroethane	20	0.28 U	0.56 U	0.28 U	0.35 U	1.0 U	1.0 U
Chloroform	150	NA	NA	NA	NA	1.0 U	1.0 U
Chloromethane	--	NA	NA	NA	NA	1.0 U	1.0 U
cis-1,2-Dichloroethene	30*	0.15 U	0.29 U	0.15 U	0.13 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	--	0.12 U	0.24 U	0.12 U	0.13 U	1.0 U	1.0 U
Cyclohexane	--	0.25 U	0.5 U	0.25 U	1.5 U	1.0 U	1.0 U
Dichloromethane	50	3.2 U	6.4 U	3.2 U	0.34 U	1.0 U	1.0 U
Ethylbenzene	--	0.13 U	0.26 U	0.13 U	0.13 U	1.0 U	1.0 U
Isopropylbenzene	--	0.12 U	0.24 U	0.12 U	0.17 U	1.0 U	1.0 U
m&p-Xylenes	--	0.26 U	0.51 U	0.26 U	0.3 U	NA	NA
Methyl Acetate	--	0.42 U	0.84 U	0.42 U	0.42 U	5.0 U	2.5 U
Methyl N-Butyl Ketone (2-Hexanone)	--	1.5 U	3.0 U	1.5 U	1.5 U	5.0 U	5.0 U
Methylcyclohexane	--	0.63 U	1.3 U	0.63 U	0.2 U	1.0 U	1.0 U
Methyl-tert-butylether	--	0.09 U	0.18 U	0.09 U	0.25 U	1.0 U	1.0 U
o-Xylene	--	0.13 U	0.26 U	0.13 U	0.17 U	NA	NA
Styrene (Monomer)	--	0.15 U	0.3 U	0.15 U	0.11 U	1.0 U	1.0 U
Tetrachloroethene	--	0.27 U	0.54 U	0.27 U	0.18 U	1.0 U	1.0 U
Toluene	--	0.17 U	0.34 U	0.17 U	0.14 U	1.0 U	1.0 U

See Notes on Page 8.

Table 11
Treatment System Analytical Data - Cell 1
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	10/22/2018	3/26/2019	11/26/2019	5/18/2021
Volatile Organic Compounds (ug/L) (cont.)							
Total Xylenes	--	3.0 U	6.0 UD	3.0 U	3.0 U	2.0 U	2.0 U
trans-1,2-Dichloroethene	30*	0.15 U	0.3 U	0.15 U	0.31 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	--	0.11 U	0.22 U	0.11 U	0.23 U	1.0 U	1.0 U
Trichloroethene	--	0.2 U	0.4 U	0.2 U	0.24 U	1.0 U	1.0 U
Vinyl chloride	50	0.13 U	0.27 U	0.13 U	0.45 U	1.0 U	1.0 U
Total VOCs	--	ND	ND	ND	ND	ND	ND
1,4-Dioxane SIM (ug/L)							
1,4-Dioxane	--	NA	NA	NA	NA	NA	**1.9 JH**
Polychlorinated biphenyls (ug/L)							
Aroclor 1016	--	0.2 U	0.2 U	0.2 U	0.17 U	0.80 U	**0.23 J**
Aroclor 1221	--	0.2 U	0.2 U	0.2 U	0.17 U	0.80 U	0.50 U
Aroclor 1232	--	0.2 U	0.2 U	0.2 U	0.17 U	0.80 U	0.50 U
Aroclor 1242	--	0.2 U	0.2 U	0.2 U	0.17 U	0.80 U	0.50 U
Aroclor 1248	--	0.2 U	0.2 U	0.2 U	0.17 U	0.80 U	0.50 U
Aroclor 1254	--	0.2 U	0.2 U	0.2 U	0.17 U	0.80 U	0.50 U
Aroclor 1260	--	0.2 U	0.2 U	0.2 U	0.17 U	0.80 U	0.50 U
Aroclor 1262	--	0.2 U	0.2 U	0.2 U	0.17 U	0.80 U	0.50 U
Aroclor 1268	--	0.2 U	0.2 U	0.2 U	0.17 U	0.80 U	0.50 U
Total PCBs	--	ND	ND	ND	ND	ND	**0.23 J**
Metals (mg/L)							
Aluminum	--	**0.082**	**0.27**	**0.073**	**0.056**	**0.157 J**	**0.903**
Antimony	--	0.05 U	0.05 U	0.05 U	0.05 U	0.02 U	0.02 U
Arsenic	0.15	0.01 U	**0.017**	**0.012**	0.01 U	**0.0034 J**	**0.0145 JH**
Barium	3.5	0.05 U	**0.27**	**0.092**	0.05 U	**0.046 J**	**0.342**
Beryllium	--	0.004 U	0.004 U	0.004 U	0.004 U	0.002 U	0.002 U
Cadmium	0.001	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	**0.0006 J**
Calcium	--	**120**	**130**	**150**	**87**	**100**	**97.3**
Chromium	0.21	0.01 U	0.01 U	0.01 U	0.01 U	**0.0024 J**	0.004 U
Cobalt	0.005	0.05 U	**0.051**	0.05 U	0.05 U	**0.0026 J**	**0.021**
Copper	0.024	**0.013**	**0.016**	0.01 U	**0.011**	**0.0123 J**	**0.021**
Iron	0.3	**0.64**	**75**	**8.5**	**0.11**	**0.717**	**60.6 JH**
Lead	0.0032	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0043 J**
Magnesium	--	**15**	**18**	**21**	**12**	**13.6**	**15.4**
Manganese	--	**0.14**	**3.6**	**0.66**	**0.032**	**0.352**	**4.79**
Mercury	0.0008	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0002 U	0.0002 U

See Notes on Page 8.

Table 11
Treatment System Analytical Data - Cell 1
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	10/22/2018	3/26/2019	11/26/2019	5/18/2021
Metals (mg/L) (cont.)							
Nickel	0.0096	**0.021**	**0.049**	0.01 U	0.01 U	**0.0081 J**	**0.0344**
Potassium	--	2.0 U	2.0 U	2.0 U	2.0 U	**1.07 J**	**2.64**
Selenium	--	0.05 U	0.05 U	0.05 U	0.05 U	0.02 U	0.025 U
Silver	--	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.006 U
Sodium	--	**14**	**45**	**53**	**13**	**15.9**	**34.5**
Thallium	--	0.05 U	0.05 U	0.05 U	0.05 U	0.02 U	0.02 U
Vanadium	0.014	0.01 U	**0.012**	0.01 U	0.01 U	0.05 U	**0.0077**
Zinc	0.17	0.02 U	**0.28**	0.02 U	0.02 U	**0.0069 J**	**0.17**
General Chemistry (mg/L)							
Total Dissolved Solids	500	**430**	**480**	**560**	**270**	**434**	**421**
Total Suspended Solids	50	**2.8**	**22**	**26**	2.0 U	6.3 U	**274**

See Notes on Page 8.

Table 11
Treatment System Analytical Data - Cell 1
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	9/21/2021	11/16/2021	3/15/2022	6/28/2022	12/21/2022	3/21/2023	6/20/2023
Per- and Polyfluoroalkyl Substances (ng/L)								
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	--	NA	NA	NA	NA	NA	NA	NA
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	--	NA	NA	NA	NA	NA	NA	NA
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	NA	NA	NA	NA	NA	NA	NA
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	NA	NA	NA	NA	NA	NA	NA
Perfluorobutane sulfonic acid (PFBS)	--	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	--	NA	NA	NA	NA	NA	NA	NA
Perfluorodecane sulfonic acid (PFDS)	--	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	--	NA	NA	NA	NA	NA	NA	NA
Perfluorododecanoic acid (PFDoA)	--	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptane sulfonic acid (PFHpS)	--	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	--	NA	NA	NA	NA	NA	NA	NA
Perfluorohexane sulfonic acid (PFHxS)	--	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	--	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	--	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonamide (PFOSA)	--	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonic acid (PFOS)	--	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	--	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanoic acid (PFPeA)	--	NA	NA	NA	NA	NA	NA	NA
Perfluorotetradecanoic acid (PFTeDA)	--	NA	NA	NA	NA	NA	NA	NA
Perfluorotridecanoic acid (PFTrDA)	--	NA	NA	NA	NA	NA	NA	NA
Perfluoroundecanoic acid (PFUdA)	--	NA	NA	NA	NA	NA	NA	NA
Volatile Organic Compounds (ug/L)								
1,1,1,2-Tetrachloroethane	--	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	--	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	4.0 U
1,1,2,2-Tetrachloroethane	--	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	2.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	--	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	4.0 U
1,1,2-Trichloroethane	--	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	4.0 U
1,1-Dichloroethane	30	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	4.0 U
1,1-Dichloroethene	--	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	4.0 U
1,2,3-Trichlorobenzene	--	NA	NA	NA	10 U	5.0 U	10 U	20 U
1,2,4-Trichlorobenzene	--	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	4.0 U
1,2-Dibromo-3-chloropropane	--	1.0 U	1.0 U	1.0 U	10 U	5.0 U	10 U	20 U
1,2-Dibromoethane	--	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	2.0 U
1,2-Dichlorobenzene	--	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	4.0 U
1,2-Dichloroethane	--	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	4.0 U
1,2-Dichloropropane	--	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	4.0 U

See Notes on Page 8.

Table 11
Treatment System Analytical Data - Cell 1
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	9/21/2021	11/16/2021	3/15/2022	6/28/2022	12/21/2022	3/21/2023	6/20/2023
Volatile Organic Compounds (ug/L) (cont.)								
1,3-Dichlorobenzene	--	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	4.0 U
1,4-Dichlorobenzene	--	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	4.0 U
1,4-Dioxane	--	NA	NA	NA	100 U	50 U	100 U	200 U
2-Butanone (MEK)	--	10 U	10 U	5.0 U	40 U	20 U	40 U	80 U
4-Methyl-2-Pentanone	--	5.0 U	5.0 U	5.0 U	20 U	10 U	20 U	40 U
Acetone	--	10 U	10 U	5.0 U	100 U	50 U	100 U	200 U
Benzene	--	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	4.0 U
Bromochloromethane	--	NA	NA	NA	2.0 U	1.0 U	2.0 U	4.0 U
Bromodichloromethane	--	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	2.0 U
Bromoform	--	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	4.0 U
Bromomethane	--	1.0 U	1.0 U	1.0 U	4.0 U	2.0 U	4.0 U	8.0 U
Carbon Disulfide	--	1.0 U	1.0 U	1.0 U	10 U	5.0 U	10 U	20 U
Carbon Tetrachloride	--	1.0 U	1.0 U	1.0 U	10 U	5.0 U	10 U	20 U
CFC-11	--	1.0 U	1.0 U	1.0 U	4.0 U	2.0 U	4.0 U	8.0 U
CFC-12	--	1.0 U	1.0 U	1.0 U	4.0 U	2.0 U	4.0 U	8.0 U
Chlorobenzene	--	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	4.0 U
Chlorodibromomethane	--	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	2.0 U
Chloroethane	20	1.0 U	1.0 U	1.0 U	4.0 U	2.0 U	4.0 U	8.0 U
Chloroform	150	1.0 U	1.0 U	1.0 U	4.0 U	2.0 U	4.0 U	8.0 U
Chloromethane	--	1.0 U	1.0 U	1.0 U	4.0 U	2.0 U	4.0 U	8.0 U
cis-1,2-Dichloroethene	30*	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	4.0 U
cis-1,3-Dichloropropene	--	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	2.0 U
Cyclohexane	--	1.0 U	1.0 U	1.0 U	10 U	5.0 U	10 U	20 U
Dichloromethane	50	1.0 U	1.0 U	1.0 U	10 U	5.0 U	10 U	20 U
Ethylbenzene	--	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	4.0 U
Isopropylbenzene	--	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	4.0 U
m&p-Xylenes	--	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	--	2.5 U	2.5 U	1.0 U	2.0 U	1.0 U	2.0 U	4.0 U
Methyl N-Butyl Ketone (2-Hexanone)	--	5.0 U	5.0 U	5.0 U	20 U	10 U	20 U	40 U
Methylcyclohexane	--	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	4.0 U
Methyl-tert-butylether	--	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	4.0 U
o-Xylene	--	NA	NA	NA	NA	NA	NA	NA
Styrene (Monomer)	--	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	4.0 U
Tetrachloroethene	--	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	4.0 U
Toluene	--	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	4.0 U

See Notes on Page 8.

Table 11
Treatment System Analytical Data - Cell 1
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	9/21/2021	11/16/2021	3/15/2022	6/28/2022	12/21/2022	3/21/2023	6/20/2023
Volatile Organic Compounds (ug/L) (cont.)								
Total Xylenes	--	2.0 U	2.0 U	3.0 U	2.0 U	1.0 U	2.0 U	4.0 U
trans-1,2-Dichloroethene	30*	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	4.0 U
trans-1,3-Dichloropropene	--	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	2.0 U
Trichloroethene	--	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	4.0 U
Vinyl chloride	50	1.0 U	1.0 U	1.0 U	4.0 U	2.0 U	4.0 U	8.0 U
Total VOCs	--	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane SIM (ug/L)								
1,4-Dioxane	--	NA	NA	NA	NA	NA	NA	NA
Polychlorinated biphenyls (ug/L)								
Aroclor 1016	--	0.50 U	0.50 U	0.94 U	0.0506 U	0.0511 U	0.194 U	0.196 U
Aroclor 1221	--	0.50 U	0.50 U	0.94 U	0.0759 U	0.0767 U	0.194 U	0.196 U
Aroclor 1232	--	0.50 U	0.50 U	0.94 U	0.0697 U	0.0704 U	0.194 U	0.196 U
Aroclor 1242	--	0.50 U	0.50 U	0.94 U	0.0733 U	0.074 U	0.194 U	0.196 U
Aroclor 1248	--	0.50 U	0.50 U	0.94 U	0.085 U	0.0858 U	0.194 U	0.196 U
Aroclor 1254	--	0.50 U	0.50 U	0.94 U	0.075 U	0.0757 U	0.194 U	0.196 U
Aroclor 1260	--	0.50 U	0.50 U	0.94 U	0.0597 U	0.0603 U	0.194 U	0.196 U
Aroclor 1262	--	0.50 U	0.50 U	NA	NA	NA	NA	NA
Aroclor 1268	--	0.50 U	0.50 U	NA	NA	NA	NA	NA
Total PCBs	--	ND	ND	ND	ND	ND	ND	ND
Metals (mg/L)								
Aluminum	--	**5.24**	**0.262**	0.2 U	0.05 U	**0.062**	**0.12**	**0.092**
Antimony	--	0.02 U	0.02 U	0.06 U	0.05 U	0.05 U	0.05 U	0.050 U
Arsenic	0.15	**0.165**	0.015 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U
Barium	3.5	**1.5**	**0.0463**	0.2 U	**0.056**	0.05 U	0.05 U	0.050 U
Beryllium	--	**0.0014 J**	0.002 U	0.005 U	0.004 U	0.004 U	0.004 U	0.0040 U
Cadmium	0.001	**0.0023**	0.002 U	0.0025 U	0.004 U	0.004 U	0.004 U	0.0040 U
Calcium	--	**148**	**101**	**78.9**	**100**	**110**	**86**	**99**
Chromium	0.21	**0.0081**	**0.0014 J**	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U
Cobalt	0.005	**0.106**	**0.0025 J**	0.05 U	0.01 U	0.01 U	0.01 U	0.010 U
Copper	0.024	**0.0848**	**0.0102**	0.025 U	**0.018**	**0.012**	**0.010**	**0.014**
Iron	0.3	**526**	**0.799**	**0.127**	**0.17**	**0.099**	**0.23**	**0.15**
Lead	0.0032	**0.0891**	0.01 U	0.005 U	0.01 U	0.01 U	0.01 U	0.010 U
Magnesium	--	**17.6**	**14.7**	**12.3**	**15**	**17**	**14**	**14**
Manganese	--	**15.4 B**	**0.287**	**0.0436**	**0.96**	**0.060**	**0.041**	**0.12**
Mercury	0.0008	0.0002 U	0.0002 U	0.0002 U	**0.00048**	0.0001 U	0.0001 U	0.00020 U

See Notes on Page 8.

Table 11
Treatment System Analytical Data - Cell 1
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	9/21/2021	11/16/2021	3/15/2022	6/28/2022	12/21/2022	3/21/2023	6/20/2023
Metals (mg/L) (cont.)								
Nickel	0.0096	**0.122**	**0.0065 J**	0.04 U	**0.015**	0.01 U	0.01 U	0.010 U
Potassium	--	**5.3**	**0.953**	5.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Selenium	--	0.025 U	0.025 U	0.01 U	0.05 U	0.05 U	0.05 U	0.050 U
Silver	--	0.006 U	0.006 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U
Sodium	--	**10.6 B**	**9.61**	**6.89**	**8.3**	**9.4**	**6.3**	**6.6**
Thallium	--	0.02 U	0.02 U	0.01 U	0.05 U	0.05 U	0.05 U	0.050 U
Vanadium	0.014	**0.0715**	0.005 U	0.05 U	0.01 U	0.01 U	0.01 U	0.010 U
Zinc	0.17	**6.7 B**	**0.0047 J**	0.02 U	0.01 U	0.01 U	0.01 U	0.010 U
General Chemistry (mg/L)								
Total Dissolved Solids	500	**314**	**375**	**425**	**360**	**420**	**290**	**220**
Total Suspended Solids	50	**591**	4.0 U	10 U	**2.4**	**1.0**	1.0 U	2.5 U

Notes:
Constituents detected above the Fort Edward State Pollution Discharge Elimination System (SPDES) Equivalency Permit are highlighted in yellow.
Values in bold text indicate a detection.
"--" - Value does not exist for analyte.
* - The Fort Edward SPDES Equivalency Permit Limit for 1,2-Dichloroethene is a total limit of 30 ug/L for cis- and trans-1,2-Dichloroethene combined.

Definitions:
B - Compound was found in the blank and sample.
H - Sample was extracted past the recommended holding time.
J - The concentration is an approximate value.
mg/L - milligrams per liter
NA - Not Analyzed
ND - Not Detected
ng/L - nanograms per liter
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
ug/L - micrograms per liter

Table 12
Treatment System Analytical Data - GAC-801
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	12/12/2023	3/6/2024
Per- and Polyfluoroalkyl Substances (ng/L)			
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor)	--	3.9 U	3.8 U
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (HFPO-DA)	--	3.9 U	3.8 U
2H, 2H, 3H, 3H-perfluorodecanoic acid (7:3 FTCA)	--	48 U	48 U
2H, 2H, 3H, 3H-perfluorohexanoic acid (3:3 FTCA)	--	9.6 U	9.6 U
2H, 2H, 3H, 3H-perfluorooctanoic acid (5:3 FTCA)	--	48 U	48 U
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	--	3.9 U	3.8 U
4:2 Fluorotelomer sulfonate (4:2 FTS)	--	3.9 U	3.8 U
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	--	3.9 U	3.8 U
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	--	3.9 U	3.8 U
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CL-PF3ONS)	--	3.9 U	3.8 U
N-Ethyl perfluorooctane sulfonamide (N-EtFOSA)	--	0.96 U	0.96 U
N-Ethyl perfluorooctane sulfonamide ethanol (N-EtFOSE)	--	9.6 U	9.6 U
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	0.96 U	0.96 U
N-Methyl perfluorooctane sulfonamide (N-MeFOSA)	--	0.96 U	0.96 U
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	--	9.6 U	9.6 U
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	0.96 U	0.96 U
Nonafluoro-3,6-Dioxaheptonic Acid (NFDHA)	--	1.9 U	1.9 U
Perfluoro (2-Ethoxyethane) Sulfonic Acid (PFEESA)	--	1.9 U	1.9 U
Perfluoro-3-methoxypropanoic aci (PFMPA)	--	1.9 U	1.9 U
Perfluoro-4-Methoxybutanic acid (PFMBA)	--	1.9 U	1.9 UJ
Perfluorobutane sulfonic acid (PFBS)	--	0.96 U	0.96 U
Perfluorobutanoic acid (PFBA)	--	3.9 U	3.8 U
Perfluorodecane sulfonic acid (PFDS)	--	0.96 U	0.96 U
Perfluorodecanoic acid (PFDA)	--	0.96 U	0.96 U
Perfluorododecane sulfonic acid (PFDOS)	--	0.96 U	0.96 U
Perfluorododecanoic acid (PFDoA)	--	0.96 U	0.96 U
Perfluoroheptane sulfonic acid (PFHpS)	--	0.96 U	0.96 U
Perfluoroheptanoic acid (PFHpA)	--	0.96 U	0.96 U
Perfluorohexane sulfonic acid (PFHxS)	--	0.96 U	0.96 U
Perfluorohexanoic acid (PFHxA)	--	0.96 U	0.96 U
Perfluorononane sulfonic acid (PFNS)	--	0.96 U	0.96 U
Perfluorononanoic acid (PFNA)	--	0.96 U	0.96 U
Perfluorooctane sulfonamide (PFOSA)	--	0.96 U	0.96 U
Perfluorooctane sulfonic acid (PFOS)	--	0.96 U	0.96 U
Perfluorooctanoic acid (PFOA)	--	**1.7 PF-17A**	0.96 U
Perfluoropentane sulfonic acid (PFPeSA)	--	0.96 U	0.96 U
Perfluoropentanoic acid (PFPeA)	--	1.9 U	1.9 U
Perfluorotetradecanoic acid (PFTeDA)	--	0.96 U	0.96 U
Perfluorotridecanoic acid (PFTrDA)	--	0.96 U	0.96 U
Perfluoroundecanoic acid (PFUdA)	--	0.96 U	0.96 U
Volatile Organic Compounds (ug/L)			
1,1,1-Trichloroethane	--	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	--	0.50 U	0.50 U
1,1,2-trichloro-1,2,2-trifluoroethane	--	1.0 U	1.0 UJ
1,1,2-Trichloroethane	--	1.0 U	1.0 U
1,1-Dichloroethane	30	1.0 U	1.0 U

See Notes on Page 3.

Table 12
Treatment System Analytical Data - GAC-801
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	12/12/2023	3/6/2024
Volatile Organic Compounds (ug/L) (cont.)			
1,1-Dichloroethene	--	1.0 U	1.0 U
1,2,3-Trichlorobenzene	--	5.0 U	5.0 U
1,2,4-Trichlorobenzene	--	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	--	5.0 U	5.0 U
1,2-Dibromoethane	--	0.50 U	0.50 U
1,2-Dichlorobenzene	--	1.0 U	1.0 U
1,2-Dichloroethane	--	1.0 U	1.0 U
1,2-Dichloropropane	--	1.0 U	1.0 U
1,3-Dichlorobenzene	--	1.0 U	1.0 U
1,4-Dichlorobenzene	--	1.0 U	1.0 U
1,4-Dioxane	--	50 U	50 U
2-Butanone (MEK)	--	20 U	20 U
4-Methyl-2-Pentanone	--	10 U	10 U
Acetone	--	50 U	**2.6 J**
Benzene	--	1.0 U	1.0 U
Bromochloromethane	--	1.0 U	1.0 U
Bromodichloromethane	--	0.50 U	0.50 U
Bromoform	--	1.0 U	1.0 U
Bromomethane	--	2.0 U	2.0 U
Carbon Disulfide	--	5.0 U	5.0 U
Carbon Tetrachloride	--	5.0 U	5.0 U
CFC-11	--	2.0 U	2.0 U
CFC-12	--	2.0 U	2.0 U
Chlorobenzene	--	1.0 U	1.0 U
Chlorodibromomethane	--	0.50 U	0.50 U
Chloroethane	20	2.0 U	2.0 U
Chloroform	150	2.0 U	2.0 U
Chloromethane	--	2.0 U	2.0 U
cis-1,2-Dichloroethene	30*	1.0 U	1.0 U
cis-1,3-Dichloropropene	--	0.50 U	0.50 U
Cyclohexane	--	5.0 U	5.0 U
Dichloromethane	50	5.0 U	5.0 U
Ethylbenzene	--	1.0 U	1.0 U
Isopropylbenzene	--	1.0 U	1.0 U
Methyl Acetate	--	1.0 U	1.0 UJ
Methyl N-Butyl Ketone (2-Hexanone)	--	10 U	10 U
Methylcyclohexane	--	1.0 U	1.0 U
Methyl-tert-butylether	--	1.0 U	1.0 U
Styrene (Monomer)	--	1.0 U	1.0 U
Tetrachloroethene	--	1.0 U	1.0 UJ
Toluene	--	1.0 U	1.0 U
Total Xylenes	--	1.0 U	1.0 U
trans-1,2-Dichloroethene	30*	1.0 U	1.0 U
trans-1,3-Dichloropropene	--	0.50 U	0.50 U
Trichloroethene	--	1.0 U	1.0 U
Vinyl chloride	50	2.0 U	2.0 U
Total VOCs	--	ND	**2.6 J**

See Notes on Page 3.

Table 12
Treatment System Analytical Data - GAC-801
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	12/12/2023	3/6/2024
1,4-Dioxane SIM (ug/L)			
1,4-Dioxane	--	**1.4**	0.19 U
Polychlorinated Biphenyls (ug/L)			
Aroclor 1016	--	0.194 U	0.192 U
Aroclor 1221	--	0.194 U	0.192 U
Aroclor 1232	--	0.194 U	0.192 U
Aroclor 1242	--	0.194 U	0.192 U
Aroclor 1248	--	0.194 U	0.192 U
Aroclor 1254	--	0.194 U	0.192 U
Aroclor 1260	--	0.194 U	0.192 U
Total PCBs	--	ND	ND
Metals (mg/L)			
Aluminum	--	**0.51**	**0.49**
Antimony	--	0.050 U	0.050 U
Arsenic	0.15	0.010 U	0.010 U
Barium	3.5	0.050 U	**0.037 J**
Beryllium	--	0.0040 U	0.0040 U
Cadmium	0.001	0.0040 U	0.0040 U
Calcium	--	**63**	**70**
Chromium	0.21	0.010 U	0.010 U
Cobalt	0.005	0.010 U	0.010 U
Copper	0.024	0.010 U	**0.0051 J**
Iron	0.3	**0.64**	**0.56**
Lead	0.0032	0.010 U	0.010 U
Magnesium	--	**16**	**17**
Manganese	--	**1.0**	**1.4**
Mercury	0.0008	0.00020 U	0.00020 U
Nickel	0.0096	0.010 U	**0.0080 J**
Potassium	--	**2.4**	**2.6**
Selenium	--	0.050 U	0.050 U
Silver	--	0.010 U	0.010 U
Sodium	--	**42**	**49**
Thallium	--	0.050 U	0.050 U
Vanadium	0.014	0.010 U	0.010 U
Zinc	0.17	0.010 U	0.010 U
TOC (mg/L)			
Total Organic Carbon	--	**7.1**	**3.1**

Notes:
Constituents detected above the Fort Edward State Pollution Discharge Elimination System (SPDES) Equivalency Permit are highlighted in yellow.
Values in bold text indicate a detection.
"--" - Value does not exist for analyte.
* - The Fort Edward SPDES Equivalency Permit Limit for 1,2-Dichloroethene is a total limit of 30 ug/L for cis- and trans-1,2-Dichloroethene combined.

Definitions:
J - The concentration is an approximate value.
mg/L - milligrams per liter
ng/L - nanograms per liter
ND - Not Detected
PF-17A - Extracted internal standard is outside of control limits. Sample not re-extracted past hold time per method
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
ug/L - micrograms per liter

Table 13
Treatment System Analytical Data - GAC-802
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	12/12/2023	3/6/2024
Per- and Polyfluoroalkyl Substances (ng/L)			
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor)	--	3.9 U	3.8 U
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (HFPO-DA)	--	3.9 U	3.8 U
2H, 2H, 3H, 3H-perfluorodecanoic acid (7:3 FTCA)	--	49 U	47 U
2H, 2H, 3H, 3H-perfluorohexanoic acid (3:3 FTCA)	--	9.7 U	9.4 U
2H, 2H, 3H, 3H-perfluorooctanoic acid (5:3 FTCA)	--	49 U	47 U
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	--	3.9 U	3.8 U
4:2 Fluorotelomer sulfonate (4:2 FTS)	--	3.9 U	3.8 U
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	--	3.9 U	3.8 U
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	--	3.9 U	3.8 U
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CL-PF3ONS)	--	3.9 U	3.8 U
N-Ethyl perfluorooctane sulfonamide (N-EtFOSA)	--	0.97 U	0.94 U
N-Ethyl perfluorooctane sulfonamide ethanol (N-EtFOSE)	--	9.7 U	9.4 U
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	0.97 U	0.94 U
N-Methyl perfluorooctane sulfonamide (N-MeFOSA)	--	0.97 U	0.94 U
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	--	9.7 U	9.4 U
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	0.97 U	0.94 U
Nonafluoro-3,6-Dioxaheptonic Acid (NFDHA)	--	1.9 U	1.9 U
Perfluoro (2-Ethoxyethane) Sulfonic Acid (PFEESA)	--	1.9 U	1.9 U
Perfluoro-3-methoxypropanoic aci (PFMPA)	--	1.9 U	1.9 U
Perfluoro-4-Methoxybutanic acid (PFMBA)	--	1.9 U	1.9 UJ
Perfluorobutane sulfonic acid (PFBS)	--	0.97 U	0.94 U
Perfluorobutanoic acid (PFBA)	--	3.9 U	3.8 U
Perfluorodecane sulfonic acid (PFDS)	--	0.97 U	0.94 U
Perfluorodecanoic acid (PFDA)	--	0.97 U	0.94 U
Perfluorododecane sulfonic acid (PFDOS)	--	0.97 U	0.94 U
Perfluorododecanoic acid (PFDoA)	--	0.97 U	0.94 U
Perfluoroheptane sulfonic acid (PFHpS)	--	0.97 U	0.94 U
Perfluoroheptanoic acid (PFHpA)	--	0.97 U	0.94 U
Perfluorohexane sulfonic acid (PFHxS)	--	0.97 U	0.94 U
Perfluorohexanoic acid (PFHxA)	--	0.97 U	0.94 U
Perfluorononane sulfonic acid (PFNS)	--	0.97 U	0.94 U
Perfluorononanoic acid (PFNA)	--	0.97 U	0.94 U
Perfluorooctane sulfonamide (PFOSA)	--	0.97 U	0.94 U
Perfluorooctane sulfonic acid (PFOS)	--	0.97 U	0.94 U
Perfluorooctanoic acid (PFOA)	--	0.97 U	0.94 U
Perfluoropentane sulfonic acid (PFPeSA)	--	0.97 U	0.94 U
Perfluoropentanoic acid (PFPeA)	--	1.9 U	1.9 U
Perfluorotetradecanoic acid (PFTeDA)	--	0.97 U	0.94 U
Perfluorotridecanoic acid (PFTrDA)	--	0.97 U	0.94 U
Perfluoroundecanoic acid (PFUdA)	--	0.97 U	0.94 U
Volatile Organic Compounds (ug/L)			
1,1,1-Trichloroethane	--	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	--	0.50 U	0.50 U
1,1,2-trichloro-1,2,2-trifluoroethane	--	1.0 U	1.0 UJ
1,1,2-Trichloroethane	--	1.0 U	1.0 U
1,1-Dichloroethane	30	1.0 U	1.0 U

See Notes on Page 3.

Table 13
Treatment System Analytical Data - GAC-802
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	12/12/2023	3/6/2024
Volatile Organic Compounds (ug/L) (cont.)			
1,1-Dichloroethene	--	1.0 U	1.0 U
1,2,3-Trichlorobenzene	--	5.0 U	5.0 U
1,2,4-Trichlorobenzene	--	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	--	5.0 U	5.0 U
1,2-Dibromoethane	--	0.50 U	0.50 U
1,2-Dichlorobenzene	--	1.0 U	1.0 U
1,2-Dichloroethane	--	1.0 U	1.0 U
1,2-Dichloropropane	--	1.0 U	1.0 U
1,3-Dichlorobenzene	--	1.0 U	1.0 U
1,4-Dichlorobenzene	--	1.0 U	1.0 U
1,4-Dioxane	--	50 U	50 U
2-Butanone (MEK)	--	20 U	20 U
4-Methyl-2-Pentanone	--	10 U	10 U
Acetone	--	50 U	50 U
Benzene	--	1.0 U	1.0 U
Bromochloromethane	--	1.0 U	1.0 U
Bromodichloromethane	--	0.50 U	0.50 U
Bromoform	--	1.0 U	1.0 U
Bromomethane	--	2.0 U	2.0 U
Carbon Disulfide	--	5.0 U	5.0 U
Carbon Tetrachloride	--	5.0 U	5.0 U
CFC-11	--	2.0 U	2.0 U
CFC-12	--	2.0 U	2.0 U
Chlorobenzene	--	1.0 U	1.0 U
Chlorodibromomethane	--	0.50 U	0.50 U
Chloroethane	20	2.0 U	2.0 U
Chloroform	150	2.0 U	2.0 U
Chloromethane	--	2.0 U	2.0 U
cis-1,2-Dichloroethene	30*	1.0 U	1.0 U
cis-1,3-Dichloropropene	--	0.50 U	0.50 U
Cyclohexane	--	5.0 U	5.0 U
Dichloromethane	50	5.0 U	5.0 U
Ethylbenzene	--	1.0 U	1.0 U
Isopropylbenzene	--	1.0 U	1.0 U
Methyl Acetate	--	1.0 U	1.0 UJ
Methyl N-Butyl Ketone (2-Hexanone)	--	10 U	10 U
Methylcyclohexane	--	1.0 U	1.0 U
Methyl-tert-butylether	--	1.0 U	1.0 U
Styrene (Monomer)	--	1.0 U	1.0 U
Tetrachloroethene	--	1.0 U	1.0 UJ
Toluene	--	1.0 U	1.0 U
Total Xylenes	--	1.0 U	1.0 U
trans-1,2-Dichloroethene	30*	1.0 U	1.0 U
trans-1,3-Dichloropropene	--	0.50 U	0.50 U
Trichloroethene	--	1.0 U	1.0 U
Vinyl chloride	50	2.0 U	2.0 U
Total VOCs	--	ND	ND

See Notes on Page 3.

Table 13
Treatment System Analytical Data - GAC-802
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	12/12/2023	3/6/2024
1,4-Dioxane SIM (ug/L)			
1,4-Dioxane	--	0.19 U	0.19 U
Polychlorinated Biphenyls (ug/L)			
Aroclor 1016	--	0.194 U	0.192 U
Aroclor 1221	--	0.194 U	0.192 U
Aroclor 1232	--	0.194 U	0.192 U
Aroclor 1242	--	0.194 U	0.192 U
Aroclor 1248	--	0.194 U	0.192 U
Aroclor 1254	--	0.194 U	0.192 U
Aroclor 1260	--	0.194 U	0.192 U
Total PCBs	--	ND	ND
Metals (mg/L)			
Aluminum	--	**0.45**	**0.47**
Antimony	--	0.050 U	0.050 U
Arsenic	0.15	0.010 U	0.010 U
Barium	3.5	0.050 U	**0.041 J**
Beryllium	--	0.0040 U	0.0040 U
Cadmium	0.001	0.0040 U	0.0040 U
Calcium	--	**60**	**70**
Chromium	0.21	0.010 U	0.010 U
Cobalt	0.005	0.010 U	0.010 U
Copper	0.024	0.010 U	0.010 U
Iron	0.3	**0.28**	**0.47**
Lead	0.0032	0.010 U	0.010 U
Magnesium	--	**16**	**17**
Manganese	--	**0.91**	**1.4**
Mercury	0.0008	0.00020 U	0.00020 U
Nickel	0.0096	0.010 U	**0.0078 J**
Potassium	--	**2.5**	**2.6**
Selenium	--	0.050 U	0.050 U
Silver	--	0.010 U	0.010 U
Sodium	--	**41**	**49**
Thallium	--	0.050 U	0.050 U
Vanadium	0.014	0.010 U	0.010 U
Zinc	0.17	0.010 U	0.010 U
TOC (mg/L)			
Total Organic Carbon	--	**4.5**	**1.7**

Notes:
Constituents detected above the Fort Edward State Pollution Discharge Elimination System (SPDES) Equivalency Permit are highlighted in yellow.
Values in bold text indicate a detection.
"--" - Value does not exist for analyte.
* - The Fort Edward SPDES Equivalency Permit Limit for 1,2-Dichloroethene is a total limit of 30 ug/L for cis- and trans-1,2-Dichloroethene combined.

Definitions:
J - The concentration is an approximate value.
mg/L - milligrams per liter
ng/L - nanograms per liter
ND - Not Detected
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
ug/L - micrograms per liter

Table 14
Treatment System Analytical Data - GAC-803
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	12/12/2023	3/6/2024
Per- and Polyfluoroalkyl Substances (ng/L)			
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor)	--	4.0 U	3.8 U
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (HFPO-DA)	--	4.0 U	3.8 U
2H, 2H, 3H, 3H-perfluorodecanoic acid (7:3 FTCA)	--	50 U	48 U
2H, 2H, 3H, 3H-perfluorohexanoic acid (3:3 FTCA)	--	9.9 U	9.6 U
2H, 2H, 3H, 3H-perfluorooctanoic acid (5:3 FTCA)	--	50 U	48 U
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	--	4.0 U	3.8 U
4:2 Fluorotelomer sulfonate (4:2 FTS)	--	4.0 U	3.8 UJ
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	--	4.0 U	3.8 U
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	--	4.0 U	3.8 U
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CL-PF3ONS)	--	4.0 U	3.8 U
N-Ethyl perfluorooctane sulfonamide (N-EtFOSA)	--	0.99 U	0.96 U
N-Ethyl perfluorooctane sulfonamide ethanol (N-EtFOSE)	--	9.9 U	9.6 U
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	0.99 U	0.96 U
N-Methyl perfluorooctane sulfonamide (N-MeFOSA)	--	0.99 U	0.96 U
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	--	9.9 U	9.6 U
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	0.99 U	0.96 U
Nonafluoro-3,6-Dioxaheptonic Acid (NFDHA)	--	2.0 U	1.9 U
Perfluoro (2-Ethoxyethane) Sulfonic Acid (PFEESA)	--	2.0 U	1.9 U
Perfluoro-3-methoxypropanoic aci (PFMPA)	--	2.0 U	1.9 U
Perfluoro-4-Methoxybutanic acid (PFMBA)	--	2.0 U	1.9 UJ
Perfluorobutane sulfonic acid (PFBS)	--	**1.4 L-05PF-17AB**	0.96 U
Perfluorobutanoic acid (PFBA)	--	4.0 U	3.8 U
Perfluorodecane sulfonic acid (PFDS)	--	0.99 U	0.96 U
Perfluorodecanoic acid (PFDA)	--	0.99 U	0.96 U
Perfluorododecane sulfonic acid (PFDOS)	--	0.99 U	0.96 U
Perfluorododecanoic acid (PFDoA)	--	0.99 U	0.96 U
Perfluoroheptane sulfonic acid (PFHpS)	--	0.99 U	0.96 U
Perfluoroheptanoic acid (PFHpA)	--	0.99 U	0.96 U
Perfluorohexane sulfonic acid (PFHxS)	--	0.99 U	0.96 U
Perfluorohexanoic acid (PFHxA)	--	0.99 U	0.96 U
Perfluorononane sulfonic acid (PFNS)	--	0.99 U	0.96 U
Perfluorononanoic acid (PFNA)	--	0.99 U	0.96 U
Perfluorooctane sulfonamide (PFOSA)	--	0.99 U	0.96 U
Perfluorooctane sulfonic acid (PFOS)	--	0.99 U	0.96 U
Perfluorooctanoic acid (PFOA)	--	0.99 U	0.96 U
Perfluoropentane sulfonic acid (PFPeSA)	--	0.99 U	0.96 U
Perfluoropentanoic acid (PFPeA)	--	2.0 U	1.9 U
Perfluorotetradecanoic acid (PFTeDA)	--	0.99 U	0.96 U
Perfluorotridecanoic acid (PFTrDA)	--	0.99 U	0.96 U
Perfluoroundecanoic acid (PFUdA)	--	0.99 U	0.96 U
Volatile Organic Compounds (ug/L)			
1,1,1-Trichloroethane	--	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	--	0.50 U	0.50 U
1,1,2-trichloro-1,2,2-trifluoroethane	--	1.0 U	1.0 UJ
1,1,2-Trichloroethane	--	1.0 U	1.0 U
1,1-Dichloroethane	30	1.0 U	1.0 U

See Notes on Page 3.

Table 14
Treatment System Analytical Data - GAC-803
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	12/12/2023	3/6/2024
Volatile Organic Compounds (ug/L) (cont.)			
1,1-Dichloroethene	--	1.0 U	1.0 U
1,2,3-Trichlorobenzene	--	5.0 U	5.0 U
1,2,4-Trichlorobenzene	--	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	--	5.0 U	5.0 U
1,2-Dibromoethane	--	0.50 U	0.50 U
1,2-Dichlorobenzene	--	1.0 U	1.0 U
1,2-Dichloroethane	--	1.0 U	1.0 U
1,2-Dichloropropane	--	1.0 U	1.0 U
1,3-Dichlorobenzene	--	1.0 U	1.0 U
1,4-Dichlorobenzene	--	1.0 U	1.0 U
1,4-Dioxane	--	50 U	50 U
2-Butanone (MEK)	--	20 U	20 U
4-Methyl-2-Pentanone	--	10 U	10 U
Acetone	--	50 U	**2.0 J**
Benzene	--	1.0 U	1.0 U
Bromochloromethane	--	1.0 U	1.0 U
Bromodichloromethane	--	0.50 U	0.50 U
Bromoform	--	1.0 U	1.0 U
Bromomethane	--	2.0 U	2.0 U
Carbon Disulfide	--	5.0 U	5.0 U
Carbon Tetrachloride	--	5.0 U	5.0 U
CFC-11	--	2.0 U	2.0 U
CFC-12	--	2.0 U	2.0 U
Chlorobenzene	--	1.0 U	1.0 U
Chlorodibromomethane	--	0.50 U	0.50 U
Chloroethane	20	2.0 U	2.0 U
Chloroform	150	2.0 U	2.0 U
Chloromethane	--	2.0 U	2.0 U
cis-1,2-Dichloroethene	30*	1.0 U	1.0 U
cis-1,3-Dichloropropene	--	0.50 U	0.50 U
Cyclohexane	--	5.0 U	5.0 U
Dichloromethane	50	5.0 U	5.0 U
Ethylbenzene	--	1.0 U	1.0 U
Isopropylbenzene	--	1.0 U	1.0 U
Methyl Acetate	--	1.0 U	1.0 UJ
Methyl N-Butyl Ketone (2-Hexanone)	--	10 U	10 U
Methylcyclohexane	--	1.0 U	1.0 U
Methyl-tert-butylether	--	1.0 U	1.0 U
Styrene (Monomer)	--	1.0 U	1.0 U
Tetrachloroethene	--	1.0 U	1.0 UJ
Toluene	--	1.0 U	1.0 U
Total Xylenes	--	1.0 U	1.0 U
trans-1,2-Dichloroethene	30*	1.0 U	1.0 U
trans-1,3-Dichloropropene	--	0.50 U	0.50 U
Trichloroethene	--	1.0 U	1.0 U
Vinyl chloride	50	2.0 U	2.0 U
Total VOCs	--	ND	**2.0 J**

See Notes on Page 3.

Table 14
Treatment System Analytical Data - GAC-803
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	12/12/2023	3/6/2024
1,4-Dioxane SIM (ug/L)			
1,4-Dioxane	--	0.19 U	**2.2**
Polychlorinated Biphenyls (ug/L)			
Aroclor 1016	--	0.194 U	0.192 U
Aroclor 1221	--	0.194 U	0.192 U
Aroclor 1232	--	0.194 U	0.192 U
Aroclor 1242	--	0.194 U	0.192 U
Aroclor 1248	--	0.194 U	0.192 U
Aroclor 1254	--	0.194 U	0.192 U
Aroclor 1260	--	0.194 U	0.192 U
Total PCBs	--	ND	ND
Metals (mg/L)			
Aluminum	--	**0.50**	**0.43**
Antimony	--	0.050 U	0.050 U
Arsenic	0.15	0.010 U	0.010 U
Barium	3.5	0.050 U	**0.045 J**
Beryllium	--	0.0040 U	0.0040 U
Cadmium	0.001	0.0040 U	0.0040 U
Calcium	--	**63**	**66**
Chromium	0.21	0.010 U	0.010 U
Cobalt	0.005	0.010 U	0.010 U
Copper	0.024	0.010 U	0.010 U
Iron	0.3	**0.34**	**0.48**
Lead	0.0032	0.010 U	0.010 U
Magnesium	--	**16**	**16**
Manganese	--	**1.0**	**1.6**
Mercury	0.0008	0.00020 U	0.00020 U
Nickel	0.0096	0.010 U	**0.0082 J**
Potassium	--	**2.7**	**2.6**
Selenium	--	0.050 U	0.050 U
Silver	--	0.010 U	0.010 U
Sodium	--	**43**	**49**
Thallium	--	0.050 U	0.050 U
Vanadium	0.014	0.010 U	0.010 U
Zinc	0.17	0.010 U	0.010 U
TOC (mg/L)			
Total Organic Carbon	--	**3.7**	**2.2**

Notes:
Constituents detected above the Fort Edward State Pollution Discharge Elimination System (SPDES) Equivalency Permit are highlighted in yellow.
Values in bold text indicate a detection.
"--" - Value does not exist for analyte.
* - The Fort Edward SPDES Equivalency Permit Limit for 1,2-Dichloroethene is a total limit of 30 ug/L for cis- and trans-1,2-Dichloroethene combined.

Definitions:
B - Compound was found in the blank and sample.
J - The concentration is an approximate value.
L-05 - Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the high side.
mg/L - milligrams per liter
ng/L - nanograms per liter
ND - Not Detected
PF-17A - Extracted internal standard is outside of control limits. Sample not re-extracted past hold time per method
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
ug/L - micrograms per liter

Table 15
Treatment System Analytical Data - GAC-804
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	12/12/2023	3/6/2024
Per- and Polyfluoroalkyl Substances (ng/L)			
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor)	--	3.8 U	3.8 U
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (HFPO-DA)	--	3.8 U	3.8 U
2H, 2H, 3H, 3H-perfluorodecanoic acid (7:3 FTCA)	--	48 U	48 U
2H, 2H, 3H, 3H-perfluorohexanoic acid (3:3 FTCA)	--	9.6 U	9.5 U
2H, 2H, 3H, 3H-perfluorooctanoic acid (5:3 FTCA)	--	48 U	48 U
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	--	3.8 U	3.8 U
4:2 Fluorotelomer sulfonate (4:2 FTS)	--	3.8 U	3.8 UJ
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	--	3.8 U	3.8 U
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	--	3.8 U	3.8 U
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CL-PF3ONS)	--	3.8 U	3.8 U
N-Ethyl perfluorooctane sulfonamide (N-EtFOSA)	--	0.96 U	0.95 U
N-Ethyl perfluorooctane sulfonamide ethanol (N-EtFOSE)	--	9.6 U	9.5 U
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	0.96 U	0.95 U
N-Methyl perfluorooctane sulfonamide (N-MeFOSA)	--	0.96 U	0.95 U
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	--	9.6 U	9.5 U
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	0.96 U	0.95 U
Nonafluoro-3,6-Dioxaheptonic Acid (NFDHA)	--	1.9 U	1.9 U
Perfluoro (2-Ethoxyethane) Sulfonic Acid (PFEESA)	--	1.9 U	1.9 U
Perfluoro-3-methoxypropanoic aci (PFMPA)	--	1.9 U	1.9 U
Perfluoro-4-Methoxybutanic acid (PFMBA)	--	1.9 U	1.9 UJ
Perfluorobutane sulfonic acid (PFBS)	--	**1.0 L-05B**	0.95 U
Perfluorobutanoic acid (PFBA)	--	3.8 U	3.8 U
Perfluorodecane sulfonic acid (PFDS)	--	0.96 U	0.95 U
Perfluorodecanoic acid (PFDA)	--	0.96 U	0.95 U
Perfluorododecane sulfonic acid (PFDOS)	--	0.96 U	0.95 U
Perfluorododecanoic acid (PFDoA)	--	0.96 U	0.95 U
Perfluoroheptane sulfonic acid (PFHpS)	--	0.96 U	0.95 U
Perfluoroheptanoic acid (PFHpA)	--	0.96 U	0.95 U
Perfluorohexane sulfonic acid (PFHxS)	--	0.96 U	0.95 U
Perfluorohexanoic acid (PFHxA)	--	0.96 U	0.95 U
Perfluorononane sulfonic acid (PFNS)	--	0.96 U	0.95 U
Perfluorononanoic acid (PFNA)	--	0.96 U	0.95 U
Perfluorooctane sulfonamide (PFOSA)	--	0.96 U	0.95 U
Perfluorooctane sulfonic acid (PFOS)	--	0.96 U	0.95 U
Perfluorooctanoic acid (PFOA)	--	0.96 U	0.95 U
Perfluoropentane sulfonic acid (PFPeSA)	--	0.96 U	0.95 U
Perfluoropentanoic acid (PFPeA)	--	1.9 U	1.9 U
Perfluorotetradecanoic acid (PFTeDA)	--	0.96 U	0.95 U
Perfluorotridecanoic acid (PFTrDA)	--	0.96 U	0.95 U
Perfluoroundecanoic acid (PFUdA)	--	0.96 U	0.95 U
Volatile Organic Compounds (ug/L)			
1,1,1-Trichloroethane	--	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	--	0.50 U	0.50 U
1,1,2-trichloro-1,2,2-trifluoroethane	--	1.0 U	1.0 UJ
1,1,2-Trichloroethane	--	1.0 U	1.0 U
1,1-Dichloroethane	30	1.0 U	1.0 U
1,1-Dichloroethene	--	1.0 U	1.0 U

See Notes on Page 3.

Table 15
Treatment System Analytical Data - GAC-804
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	12/12/2023	3/6/2024
Volatile Organic Compounds (ug/L) (cont.)			
1,2,3-Trichlorobenzene	--	5.0 U	5.0 U
1,2,4-Trichlorobenzene	--	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	--	5.0 U	5.0 U
1,2-Dibromoethane	--	0.50 U	0.50 U
1,2-Dichlorobenzene	--	1.0 U	1.0 U
1,2-Dichloroethane	--	1.0 U	1.0 U
1,2-Dichloropropane	--	1.0 U	1.0 U
1,3-Dichlorobenzene	--	1.0 U	1.0 U
1,4-Dichlorobenzene	--	1.0 U	1.0 U
1,4-Dioxane	--	50 U	50 U
2-Butanone (MEK)	--	20 U	20 U
4-Methyl-2-Pentanone	--	10 U	10 U
Acetone	--	50 U	50 U
Benzene	--	1.0 U	1.0 U
Bromochloromethane	--	1.0 U	1.0 U
Bromodichloromethane	--	0.50 U	0.50 U
Bromoform	--	1.0 U	1.0 U
Bromomethane	--	2.0 U	2.0 U
Carbon Disulfide	--	5.0 U	5.0 U
Carbon Tetrachloride	--	5.0 U	5.0 U
CFC-11	--	2.0 U	2.0 U
CFC-12	--	2.0 U	2.0 U
Chlorobenzene	--	1.0 U	1.0 U
Chlorodibromomethane	--	0.50 U	0.50 U
Chloroethane	20	2.0 U	2.0 U
Chloroform	150	2.0 U	2.0 U
Chloromethane	--	2.0 U	2.0 U
cis-1,2-Dichloroethene	30*	1.0 U	1.0 U
cis-1,3-Dichloropropene	--	0.50 U	0.50 U
Cyclohexane	--	5.0 U	5.0 U
Dichloromethane	50	5.0 U	5.0 U
Ethylbenzene	--	1.0 U	1.0 U
Isopropylbenzene	--	1.0 U	1.0 U
Methyl Acetate	--	1.0 U	1.0 UJ
Methyl N-Butyl Ketone (2-Hexanone)	--	10 U	10 U
Methylcyclohexane	--	1.0 U	1.0 U
Methyl-tert-butylether	--	1.0 U	1.0 U
Styrene (Monomer)	--	1.0 U	1.0 U
Tetrachloroethene	--	1.0 U	1.0 UJ
Toluene	--	1.0 U	1.0 U
Total Xylenes	--	1.0 U	1.0 U
trans-1,2-Dichloroethene	30*	1.0 U	1.0 U
trans-1,3-Dichloropropene	--	0.50 U	0.50 U
Trichloroethene	--	1.0 U	1.0 U
Vinyl chloride	50	2.0 U	2.0 U
Total VOCs	--	ND	ND
1,4-Dioxane SIM (ug/L)			
1,4-Dioxane	--	0.19 U	**0.59**

See Notes on Page 3.

Table 15
Treatment System Analytical Data - GAC-804
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	12/12/2023	3/6/2024
Polychlorinated Biphenyls (ug/L)			
Aroclor 1016	--	0.194 U	0.192 U
Aroclor 1221	--	0.194 U	0.192 U
Aroclor 1232	--	0.194 U	0.192 U
Aroclor 1242	--	0.194 U	0.192 U
Aroclor 1248	--	0.194 U	0.192 U
Aroclor 1254	--	0.194 U	0.192 U
Aroclor 1260	--	0.194 U	0.192 U
Total PCBs	--	ND	ND
Metals (mg/L)			
Aluminum	--	**0.48**	**0.40**
Antimony	--	0.050 U	0.050 U
Arsenic	0.15	0.010 U	0.010 U
Barium	3.5	0.050 U	**0.049 J**
Beryllium	--	0.0040 U	0.0040 U
Cadmium	0.001	0.0040 U	0.0040 U
Calcium	--	**61**	**64**
Chromium	0.21	0.010 U	0.010 U
Cobalt	0.005	0.010 U	0.010 U
Copper	0.024	0.010 U	0.010 U
Iron	0.3	**0.38**	**0.21**
Lead	0.0032	0.010 U	0.010 U
Magnesium	--	**16**	**16**
Manganese	--	**1.0**	**1.7**
Mercury	0.0008	0.00020 U	0.00020 U
Nickel	0.0096	0.010 U	**0.0071 J**
Potassium	--	**2.6**	**2.6**
Selenium	--	0.050 U	0.050 U
Silver	--	0.010 U	0.010 U
Sodium	--	**42**	**49**
Thallium	--	0.050 U	0.050 U
Vanadium	0.014	0.010 U	0.010 U
Zinc	0.17	0.010 U	0.010 U
General Chemistry (mg/L)			
Total Dissolved Solids	500	**240**	**340**
Total Suspended Solids	50	3.6 U	2.5 U
TOC (mg/L)			
Total Organic Carbon	--	**2.2**	**1.3**

Notes:
Constituents detected above the Fort Edward State Pollution Discharge Elimination System (SPDES) Equivalency Permit are highlighted in yellow.
Values in bold text indicate a detection.
"--" - Value does not exist for analyte.
* - The Fort Edward SPDES Equivalency Permit Limit for 1,2-Dichloroethene is a total limit of 30 ug/L for cis- and trans-1,2-Dichloroethene combined.

Definitions:
B - Compound was found in the blank and sample.
J - The concentration is an approximate value.
L-05 - Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the high side.
mg/L - milligrams per liter
ng/L - nanograms per liter
ND - Not Detected
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
ug/L - micrograms per liter

Table 16
Treatment System Analytical Data - Polishing Pond Effluent
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	9/25/2018	10/22/2018	3/26/2019	11/26/2019	5/26/2020	11/24/2020	5/18/2021
Per- and Polyfluoroalkyl Substances (ng/L)										
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	4.15 U
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.66 U
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	NA	NA	NA	NA	NA	NA	NA	NA	4.15 U
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	NA	NA	NA	NA	NA	NA	NA	NA	4.15 U
Perfluorobutane sulfonic acid (PFBS)	--	NA	NA	NA	NA	NA	NA	NA	NA	**1.78 JH**
Perfluorobutanoic acid (PFBA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**9.38 B**
Perfluorodecane sulfonic acid (PFDS)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.66 U
Perfluorodecanoic acid (PFDA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.66 U
Perfluorododecanoic acid (PFDoA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.66 U
Perfluoroheptane sulfonic acid (PFHpS)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.66 U
Perfluoroheptanoic acid (PFHpA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**6.85 B**
Perfluorohexane sulfonic acid (PFHxS)	--	NA	NA	NA	NA	NA	NA	NA	NA	**1.84**
Perfluorohexanoic acid (PFHxA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**15.8**
Perfluorononanoic acid (PFNA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**0.60 J**
Perfluorooctane sulfonamide (PFOSA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.66 U
Perfluorooctane sulfonic acid (PFOS)	--	NA	NA	NA	NA	NA	NA	NA	NA	**4.13 B**
Perfluorooctanoic acid (PFOA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**24.0**
Perfluoropentanoic acid (PFPeA)	--	NA	NA	NA	NA	NA	NA	NA	NA	**12.7**
Perfluorotetradecanoic acid (PFTeDA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.66 U
Perfluorotridecanoic acid (PFTrDA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.66 U
Perfluoroundecanoic acid (PFUdA)	--	NA	NA	NA	NA	NA	NA	NA	NA	1.66 U
Volatile Organic Compounds (ug/L)										
1,1,1,2-Tetrachloroethane	--	0.12 U	0.12 U	0.12 U	0.12 U	0.27 U	NA	NA	NA	NA
1,1,1-Trichloroethane	--	0.13 U	0.13 U	0.13 U	0.13 U	0.2 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	--	NA	NA	NA	NA	NA	1.0 UT	1.0 U	1.0 U	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	--	0.2 U	0.2 U	0.2 U	0.2 U	0.32 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	--	0.24 U	0.24 U	0.24 U	0.24 U	0.16 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	30	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	--	0.21 U	0.21 U	0.21 U	0.21 U	0.32 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	--	0.14 U	0.14 U	0.14 U	0.14 U	0.57 U	NA	NA	NA	NA
1,2,4-Trichlorobenzene	--	0.19 U	0.19 U	0.19 U	0.19 U	0.4 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	--	0.37 U	0.37 U	0.37 U	0.37 U	0.53 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	--	0.15 U	0.15 U	0.15 U	0.15 U	0.19 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	--	0.17 U	0.17 U	0.17 U	0.17 U	0.16 U	1.0 U	1.0 U	1.0 U	1.0 U

See Notes on Page 8.

Table 16
Treatment System Analytical Data - Polishing Pond Effluent
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	9/25/2018	10/22/2018	3/26/2019	11/26/2019	5/26/2020	11/24/2020	5/18/2021
Volatile Organic Compounds (ug/L) (cont.)										
1,2-Dichloroethane	--	0.19 U	0.19 U	0.19 U	0.19 U	0.41 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	--	0.13 U	0.13 U	0.13 U	0.13 U	0.2 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	--	0.17 U	0.17 U	0.17 U	0.17 U	0.12 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	--	0.15 U	0.15 U	0.15 U	0.15 U	0.13 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dioxane	--	26 U	26 U	26 U	26 U	22 U	NA	NA	NA	NA
2-Butanone (MEK)	--	**22**	2.4 U	2.4 U	2.4 U	1.9 U	5.0 U	**7.5 J**	10 U	10 U
4-Methyl-2-Pentanone	--	1.5 U	1.5 U	1.5 U	1.5 U	1.7 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	--	**240**	9.7 U	9.7 U	9.7 U	**9.4 J**	**5.0**	**66**	10 U	10 U
Benzene	--	0.12 U	0.12 U	0.12 U	0.12 U	0.18 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromochloromethane	--	0.22 U	0.22 U	0.22 U	0.22 U	0.32 U	NA	NA	NA	NA
Bromodichloromethane	--	0.3 U	0.3 U	0.3 U	0.3 U	0.16 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	--	0.21 U	0.21 U	0.21 U	0.21 U	0.46 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	--	0.94 U	0.94 U	0.94 U	0.94 U	0.78 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	--	1.0 U	1.0 U	1.0 U	1.0 U	4.4 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	--	0.25 U	0.25 U	0.25 U	0.25 U	0.11 U	1.0 U	1.0 U	1.0 U	1.0 U
CFC-11	--	0.15 U	0.15 U	0.15 U	0.15 U	0.33 U	1.0 U	1.0 U	1.0 U	1.0 U
CFC-12	--	0.28 U	0.28 U	0.28 U	0.28 U	0.26 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	--	0.16 U	0.16 U	0.16 U	0.16 U	0.15 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorodibromomethane	--	0.1 U	0.1 U	0.1 U	0.1 U	0.21 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	20	0.28 U	0.28 U	0.28 U	0.28 U	0.35 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	150	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	--	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	30*	0.15 U	0.15 U	0.15 U	0.15 U	0.13 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	--	0.12 U	0.12 U	0.12 U	0.12 U	0.13 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	--	0.25 U	0.25 U	0.25 U	0.25 U	1.5 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichloromethane	50	3.2 U	3.2 U	3.2 U	3.2 U	0.34 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	--	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene	--	0.12 U	0.12 U	0.12 U	0.12 U	0.17 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	--	0.26 U	0.26 U	0.26 U	0.26 U	0.3 U	NA	NA	NA	NA
Methyl Acetate	--	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	5.0 U	2.5 U	2.5 U	2.5 U
Methyl N-Butyl Ketone (2-Hexanone)	--	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylcyclohexane	--	0.63 U	0.63 U	0.63 U	0.63 U	0.2 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl-tert-butylether	--	0.09 U	0.09 U	0.09 U	0.09 U	0.25 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	--	0.13 U	0.13 U	0.13 U	0.13 U	0.17 U	NA	NA	NA	NA
Styrene (Monomer)	--	0.15 U	0.15 U	0.15 U	0.15 U	0.11 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	--	0.27 U	0.27 U	0.27 U	0.27 U	0.18 U	1.0 U	1.0 U	1.0 U	1.0 U

See Notes on Page 8.

Table 16
Treatment System Analytical Data - Polishing Pond Effluent
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	9/25/2018	10/22/2018	3/26/2019	11/26/2019	5/26/2020	11/24/2020	5/18/2021
Volatile Organic Compounds (ug/L) (cont.)										
Toluene	--	0.17 U	**0.3 J**	0.17 U	0.17 U	0.14 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	--	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	2.0 U	2.0 U	2.0 U	2.0 U
trans-1,2-Dichloroethene	30*	0.15 U	0.15 U	0.15 U	0.15 U	0.31 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	--	0.11 U	0.11 U	0.11 U	0.11 U	0.23 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	--	0.2 U	0.2 U	0.2 U	0.2 U	0.24 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	50	0.13 U	0.13 U	0.13 U	0.13 U	0.45 U	1.0 U	1.0 U	1.0 U	1.0 U
Total VOCs	--	**262**	**0.3 J**	ND	ND	**9.4 J**	**5.0**	**73.5 J**	ND	ND
1,4-Dioxane SIM (ug/L)										
1,4-Dioxane	--	NA	NA	NA	NA	NA	NA	NA	NA	**2.3 JH**
Polychlorinated biphenyls (ug/L)										
Aroclor 1016	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U	0.50 U
Aroclor 1221	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U	0.50 U
Aroclor 1232	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	**1.3**	0.50 U
Aroclor 1242	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U	0.50 U
Aroclor 1248	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U	0.50 U
Aroclor 1254	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U	0.50 U
Aroclor 1260	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U	0.50 U
Aroclor 1262	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U	0.50 U
Aroclor 1268	--	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.80 U	0.50 U	0.50 U	0.50 U
Total PCBs	--	ND	ND	ND	ND	ND	ND	ND	**1.3**	ND
Metals (mg/L)										
Aluminum	--	0.05 U	**0.11**	**0.059**	0.05 U	**0.13**	**0.313**	0.2 U	**0.076 J**	**1.59**
Antimony	--	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	**0.0032 BJ**	0.02 U	0.02 U	0.02 U
Arsenic	0.15	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.015 U	0.015 U	0.015 U
Barium	3.5	0.05 U	0.05 U	**0.059**	0.05 U	0.05 U	**0.038 J**	**0.0177**	**0.0316**	**0.046**
Beryllium	--	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.002 U	0.002 U	0.002 U	0.002 U
Cadmium	0.001	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.002 U	0.002 U	0.002 U
Calcium	--	**85**	**83**	**83**	**96**	**66**	**81.6**	**64.4**	**82.7**	**76.8**
Chromium	0.21	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0022 J**	0.004 U	0.004 U	**0.0019 JH**
Cobalt	0.005	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.004 U	0.004 U	**0.00088 J**
Copper	0.024	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0055 J**	**0.0034 J**	0.01 U	**0.0029 J**
Iron	0.3	**0.55**	**4.2**	**1.6**	**0.74**	**1.3**	**0.714**	**0.776**	**0.665**	**2.22 JH**
Lead	0.0032	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Magnesium	--	**19**	**22**	**23 D**	**21**	**12**	**15.7**	**16**	**17.2**	**17.7**
Manganese	--	**0.21**	**2.9**	**0.72**	**0.32**	**0.34**	**0.167**	**0.0385**	**0.093**	**0.265**
Mercury	0.0008	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U

See Notes on Page 8.

Table 16
Treatment System Analytical Data - Polishing Pond Effluent
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	3/26/2018	6/26/2018	9/25/2018	10/22/2018	3/26/2019	11/26/2019	5/26/2020	11/24/2020	5/18/2021
Metals (mg/L) (cont.)										
Nickel	0.0096	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0044 J**	**0.0028 J**	**0.0024 J**	**0.0044 J**
Potassium	--	**2.8**	2.0 U	**2.0**	**4.7**	2.0 U	**3.72 J**	**2.61**	**3.91**	**2.98**
Selenium	--	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.02 U	0.025 U	0.025 U	0.025 U
Silver	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.006 U	0.006 U	0.006 U
Sodium	--	**40**	**37**	**43 D**	**46**	**20**	**33.8**	**42.8**	**41.8**	**45.1**
Thallium	--	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.02 U	0.02 U	0.02 U	0.02 U
Vanadium	0.014	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	0.005 U	0.005 U	**0.0029 J**
Zinc	0.17	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0047 J**	**0.0023 J**	0.01 U	0.01 U
General Chemistry (mg/L)										
Total Dissolved Solids	500	**450**	**390**	**310**	**410**	**260**	**427**	**387**	**431**	**381**
Total Suspended Solids	50	**5.2**	**12**	**7.7**	**5.0**	**21**	6.3 U	**10**	4.0 U	**40.8**

See Notes on Page 8.

Table 16
Treatment System Analytical Data - Polishing Pond Effluent
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	9/21/2021	11/16/2021	3/15/2022	6/28/2022	9/26/2022	12/21/2022	3/21/2023	6/20/2023	10/16/2023
Per- and Polyfluoroalkyl Substances (ng/L)										
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	--	NA	NA	NA	NA	1.8 U	NA	NA	NA	NA
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	--	NA	NA	NA	NA	1.8 U	NA	NA	NA	NA
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	NA	NA	NA	NA	1.8 U	NA	NA	NA	NA
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	NA	NA	NA	NA	1.8 U	NA	NA	NA	NA
Perfluorobutane sulfonic acid (PFBS)	--	NA	NA	NA	NA	1.8 U	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	--	NA	NA	NA	NA	**7.7**	NA	NA	NA	NA
Perfluorodecane sulfonic acid (PFDS)	--	NA	NA	NA	NA	1.8 U	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	--	NA	NA	NA	NA	1.8 U	NA	NA	NA	NA
Perfluorododecanoic acid (PFDoA)	--	NA	NA	NA	NA	1.8 U	NA	NA	NA	NA
Perfluoroheptane sulfonic acid (PFHpS)	--	NA	NA	NA	NA	1.8 U	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	--	NA	NA	NA	NA	**6.4**	NA	NA	NA	NA
Perfluorohexane sulfonic acid (PFHxS)	--	NA	NA	NA	NA	1.8 U	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	--	NA	NA	NA	NA	**16**	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	--	NA	NA	NA	NA	1.8 U	NA	NA	NA	NA
Perfluorooctane sulfonamide (PFOSA)	--	NA	NA	NA	NA	1.8 U	NA	NA	NA	NA
Perfluorooctane sulfonic acid (PFOS)	--	NA	NA	NA	NA	**6.3**	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	--	NA	NA	NA	NA	**18**	NA	NA	NA	NA
Perfluoropentanoic acid (PFPeA)	--	NA	NA	NA	NA	**13**	NA	NA	NA	NA
Perfluorotetradecanoic acid (PFTeDA)	--	NA	NA	NA	NA	1.8 U	NA	NA	NA	NA
Perfluorotridecanoic acid (PFTrDA)	--	NA	NA	NA	NA	1.8 U	NA	NA	NA	NA
Perfluoroundecanoic acid (PFUdA)	--	NA	NA	NA	NA	1.8 U	NA	NA	NA	NA
Volatile Organic Compounds (ug/L)										
1,1,1,2-Tetrachloroethane	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	--	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
1,1,2,2-Tetrachloroethane	--	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U
1,1,2-trichloro-1,2,2-trifluoroethane	--	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
1,1,2-Trichloroethane	--	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
1,1-Dichloroethane	30	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
1,1-Dichloroethene	--	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
1,2,3-Trichlorobenzene	--	NA	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	--	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
1,2-Dibromo-3-chloropropane	--	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane	--	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U
1,2-Dichlorobenzene	--	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

See Notes on Page 8.

Table 16
Treatment System Analytical Data - Polishing Pond Effluent
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

Date	Fort Edward SPDES Equivalency Permit Limit	9/21/2021	11/16/2021	3/15/2022	6/28/2022	9/26/2022	12/21/2022	3/21/2023	6/20/2023	10/16/2023
Volatile Organic Compounds (ug/L) (cont.)										
1,2-Dichloroethane	--	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
1,2-Dichloropropane	--	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
1,3-Dichlorobenzene	--	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
1,4-Dichlorobenzene	--	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
1,4-Dioxane	--	NA	NA	NA	50 U	50 U	50 U	50 U	50 U	50 U
2-Butanone (MEK)	--	10 U	10 U	5.0 U	20 U	20 U	20 U	20 U	20 U	20 U
4-Methyl-2-Pentanone	--	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	--	10 U	10 U	5.0 U	50 U	50 U	50 U	50 U	50 U	50 U
Benzene	--	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
Bromochloromethane	--	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	--	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U
Bromoform	--	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
Bromomethane	--	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Carbon Disulfide	--	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Tetrachloride	--	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
CFC-11	--	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
CFC-12	--	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chlorobenzene	--	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
Chlorodibromomethane	--	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U
Chloroethane	20	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroform	150	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloromethane	--	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	30*	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
cis-1,3-Dichloropropene	--	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U
Cyclohexane	--	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dichloromethane	50	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	--	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
Isopropylbenzene	--	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
m&p-Xylenes	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	--	2.5 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl N-Butyl Ketone (2-Hexanone)	--	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylcyclohexane	--	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
Methyl-tert-butylether	--	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
o-Xylene	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene (Monomer)	--	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
Tetrachloroethene	--	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

See Notes on Page 8.

Table 16
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Volatile Organic Compounds (ug/L) (cont.)										
Toluene	--	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
Total Xylenes	--	2.0 U	2.0 U	3.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	30*	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-1,3-Dichloropropene	--	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U
Trichloroethene	--	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
Vinyl chloride	50	1.0 U	1.0 U	1.0 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	**3.6 J**	ND	ND	ND	ND
1,4-Dioxane SIM (ug/L)										
1,4-Dioxane	--	NA	NA	NA	NA	**1.4**	NA	NA	NA	NA
Polychlorinated biphenyls (ug/L)										
Aroclor 1016	--	0.50 U	0.50 U	0.94 U	0.0506 U	0.2 U	0.0511 U	0.194 U	0.192 U	0.192 U
Aroclor 1221	--	0.50 U	0.50 U	0.94 U	0.0759 U	0.2 U	0.0767 U	0.194 U	0.192 U	0.192 U
Aroclor 1232	--	**0.63**	0.50 U	0.94 U	0.0697 U	0.2 U	0.0704 U	0.194 U	0.192 U	0.192 U
Aroclor 1242	--	0.50 U	0.50 U	0.94 U	0.0733 U	0.2 U	0.074 U	0.194 U	0.192 U	0.192 U
Aroclor 1248	--	0.50 U	0.50 U	0.94 U	0.085 U	0.2 U	0.0858 U	0.194 U	0.192 U	0.192 U
Aroclor 1254	--	0.50 U	0.50 U	0.94 U	0.075 U	0.2 U	0.0757 U	0.194 U	0.192 U	0.192 U
Aroclor 1260	--	0.50 U	0.50 U	0.94 U	0.0597 U	0.2 U	0.0603 U	0.194 U	0.192 U	0.192 U
Aroclor 1262	--	0.50 U	0.50 U	NA	NA	0.2 U	NA	NA	NA	NA
Aroclor 1268	--	0.50 U	0.50 U	NA	NA	0.2 U	NA	NA	NA	NA
Total PCBs	--	**0.63**	ND	ND	ND	ND	ND	ND	ND	ND
Metals (mg/L)										
Aluminum	--	**0.0989 J**	**0.107 J**	0.2 U	0.05 U	0.05 U	**0.82**	**0.14**	**0.15**	**1.2**
Antimony	--	0.02 U	0.02 U	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.050 U	0.050 U
Arsenic	0.15	0.015 U	0.015 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U
Barium	3.5	**0.0467**	**0.0292**	0.2 U	0.05 U	0.05 U	**0.053**	0.05 U	0.050 U	**0.053**
Beryllium	--	0.002 U	0.002 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0040 U	0.0040 U
Cadmium	0.001	0.002 U	0.002 U	0.0025 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0040 U	0.0040 U
Calcium	--	**92.6**	**79**	**67.7**	**88**	**84**	**89**	**87**	**83**	**97**
Chromium	0.21	0.004 U	0.004 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U
Cobalt	0.005	0.004 U	0.004 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U
Copper	0.024	0.01 U	**0.0016 J**	0.025 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U
Iron	0.3	**2.62**	**1.56**	**0.945**	**4.1**	**2.1**	**2.1**	**1.2**	**2.9**	**6.6**
Lead	0.0032	0.01 U	0.01 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U
Magnesium	--	**18.7**	**15.9**	**14.1**	**19**	**17**	**19**	**18**	**15**	**22**
Manganese	--	**1.01 B**	**0.22**	**0.23**	**1.7**	**0.42**	**0.52**	**0.26**	**0.62**	**0.82**
Mercury	0.0008	0.0002 U	0.0002 U	0.0002 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.00020 U	0.00020 U

See Notes on Page 8.

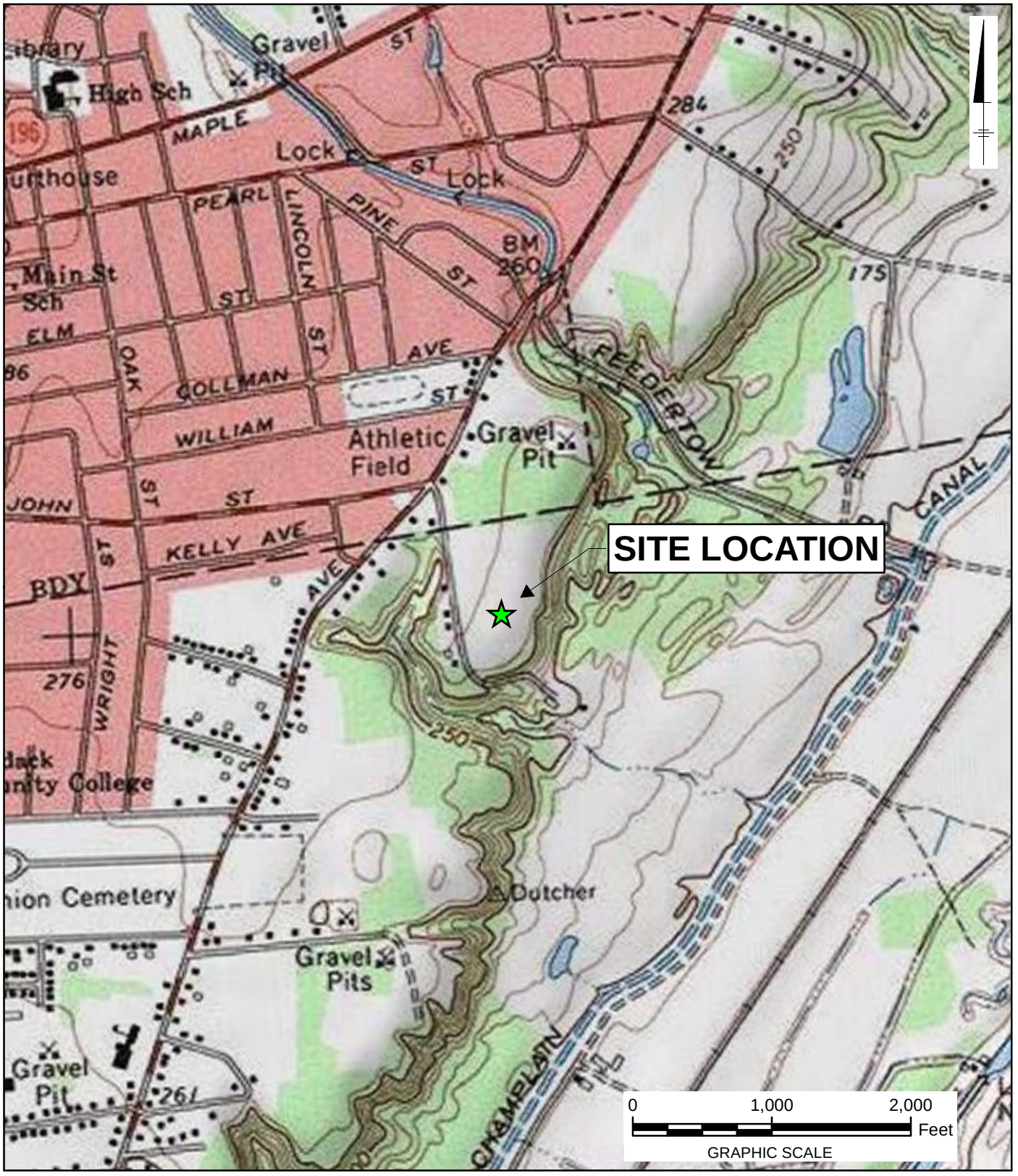
Table 16
Treatment System Analytical Data - Polishing Pond Effluent
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001

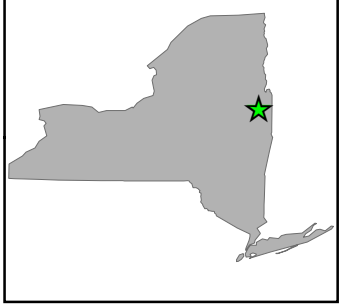
Date	Fort Edward SPDES Equivalency Permit Limit	9/21/2021	11/16/2021	3/15/2022	6/28/2022	9/26/2022	12/21/2022	3/21/2023	6/20/2023	10/16/2023
Metals (mg/L) (cont.)										
Nickel	0.0096	**0.0017 J**	**0.002 J**	0.04 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U
Potassium	--	**2.2**	**4.07**	5.0 U	2.0 U	**3.1**	**3.9**	**2.2**	**2.1**	**2.1**
Selenium	--	0.025 U	0.025 U	0.01 U	0.05 U	0.05 U	0.05 U	0.05 U	0.050 U	0.050 U
Silver	--	0.006 U	0.006 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U
Sodium	--	**44.8 B**	**30.1**	**25.3**	**42**	**34**	**29**	**32**	**28**	**43**
Thallium	--	0.02 U	0.02 U	0.01 U	0.05 U	0.05 U	0.05 U	0.05 U	0.050 U	0.050 U
Vanadium	0.014	0.005 U	0.005 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U
Zinc	0.17	**0.0057 BJ**	0.01 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U
General Chemistry (mg/L)										
Total Dissolved Solids	500	**422**	**411**	**386**	**390**	NA	**350**	**350**	**330**	**340**
Total Suspended Solids	50	**12.8**	4.0 U	10 U	**14**	NA	**24**	1.7 U	**14**	**110**

Notes:
Constituents detected above the Fort Edward State Pollution Discharge Elimination System (SPDES) Equivalency Permit are highlighted in yellow.
Values in bold text indicate a detection.
"--" - Value does not exist for analyte.
* - The Fort Edward SPDES Equivalency Permit Limit for 1,2-Dichloroethene is a total limit of 30 ug/L for cis- and trans-1,2-Dichloroethene combined.

Definitions:
B - Compound was found in the blank and sample.
D - Sample was diluted prior to analysis of the compound.
H - Sample was extracted past the recommended holding time.
J - The concentration is an approximate value.
mg/L - milligrams per liter
NA - Not Analyzed
ND - Not Detected
ng/L - nanograms per liter
T - LCS or LCSD is outside acceptable limits.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
ug/L - micrograms per liter

Figures





NOTE:

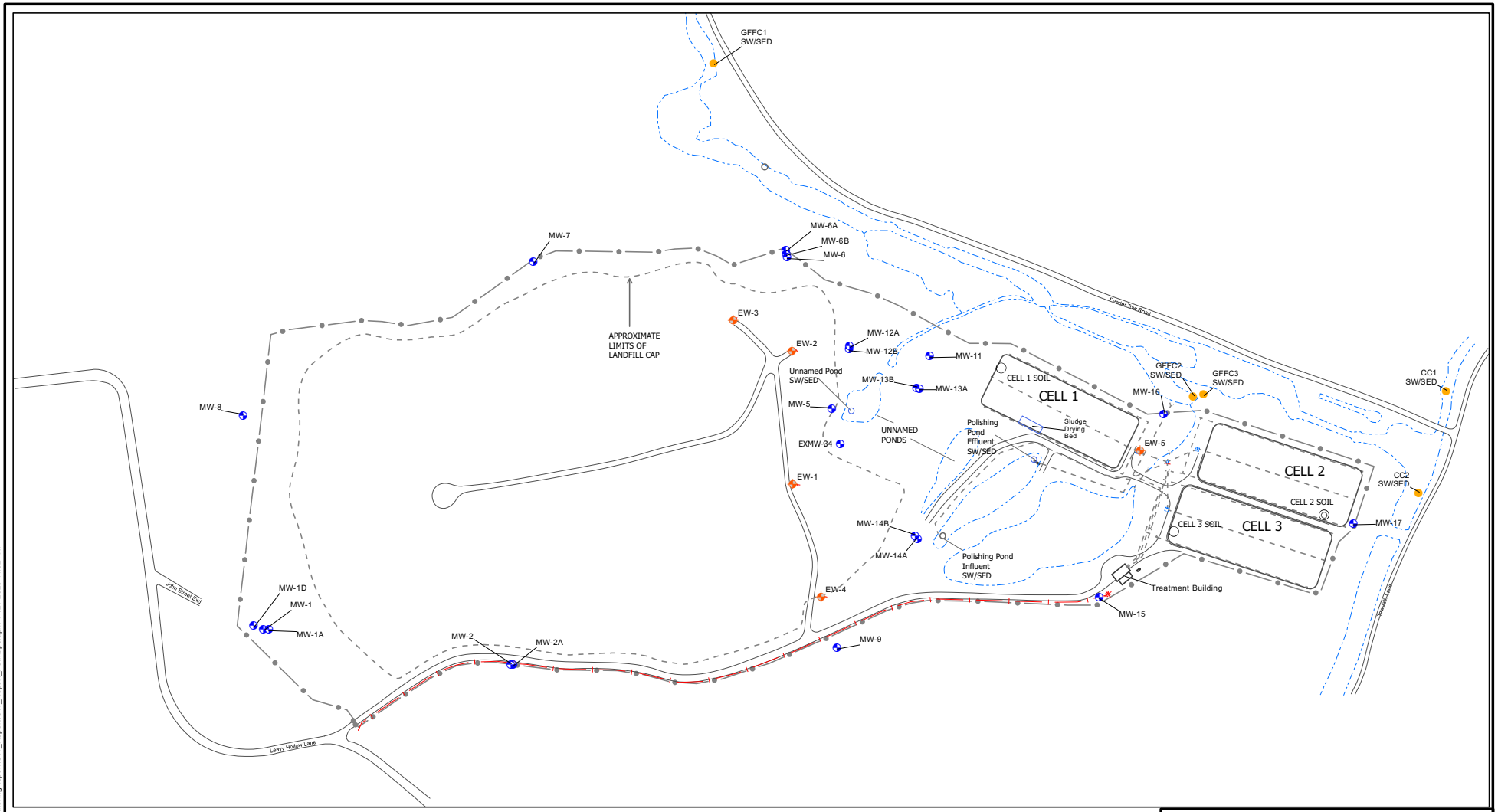
1. USGS QUADRANGLE INFORMATION
   QUAD ID: 43073-C5
   NAME: HUDSON FALLS, NEW YORK
   DATE PUB: 1968

FORT EDWARD LANDFILL, HUDSON FALLS, NY
NYSDEC SITE 558001
PERIODIC REVIEW REPORT

SITE LOCATION MAP

ARCADIS

FIGURE 1



0 500 1,000 1,500 2,000 Feet

GRAPHIC SCALE

N

Legend

- Monitoring Well
- Extraction Well
- Soil Sampling Location
- Surface Water/Sediment Sampling Location
- Road
- Water Edge
- Buried Electrical Line
- Fence
- Underground Treatment Piping

MAP BASED ON SURVEY PERFORMED BY DARRAH LAND SURVEYING, PLLC, 4/2017, 12/2019, AND 2/2021.

FORT EDWARD LANDFILL, HUDSON FALLS, NY
NYSDEC SITE 558001
PERIODIC REVIEW REPORT

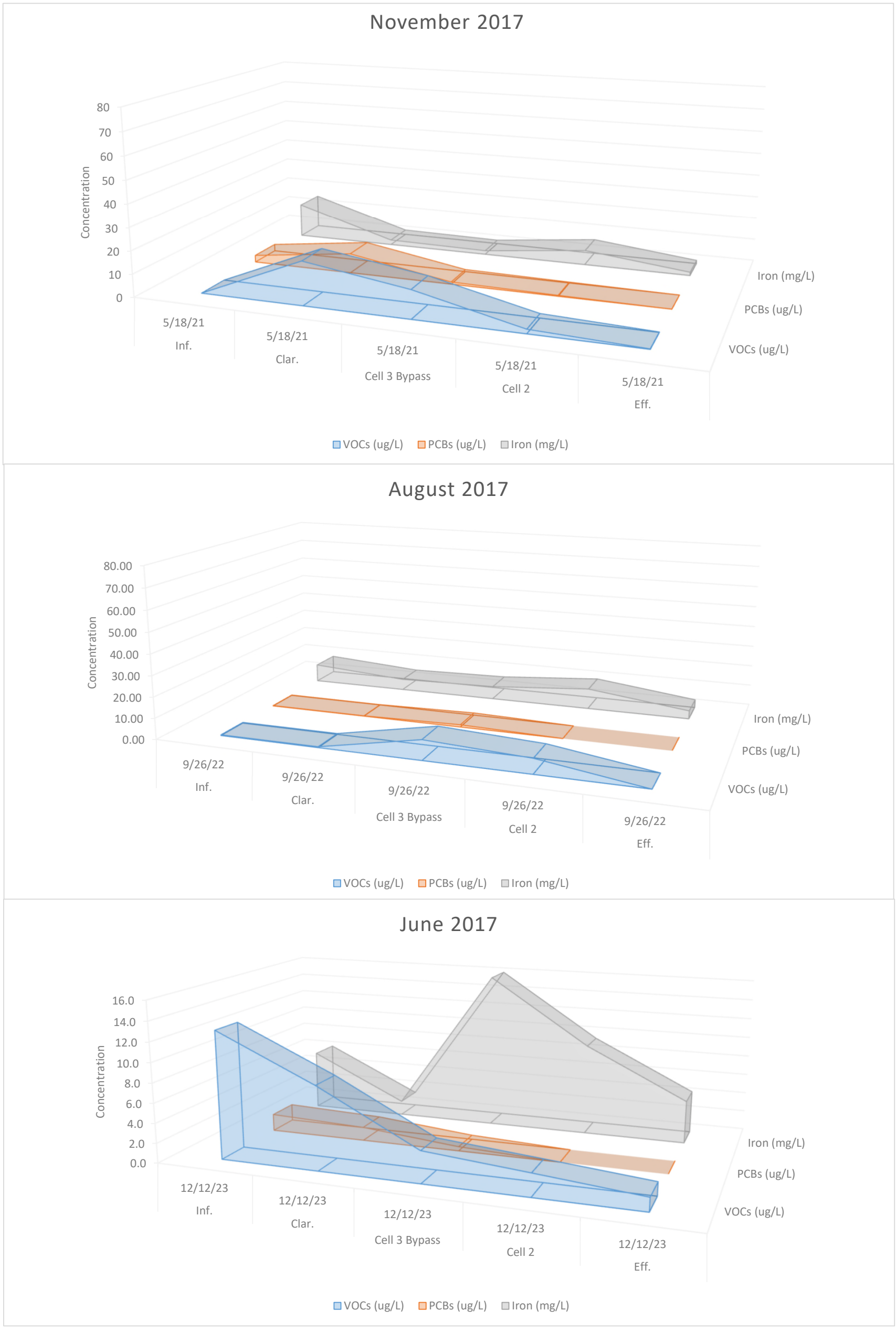
SITE MAP

ARCADIS

FIGURE 2

City:Clifton Park Div/Group: ENV Created By: J. Kullberg Last Saved By: Giroux
Project Fort Edward Landfill
T:_ENV\NYSDEC\FtEdward\GroundwaterMonitoringReport\GW_Report\GW_Report_PotMaps.aprx 11/21/2023 11:02 AM

Figure 3
Treatment System Analytical Results
Periodic Review Report
Fort Edward Landfill, Fort Edward, New York
NYSDEC Site Number 558001



Appendix A

Process and Instrumentation Diagram

BOLDED MECHANICAL ELEMENTS INDICATE NEW UPGRADED EQUIPMENT

PT 10# · PAH 10# · PAL 10# · YA 10# · 1# · PI

1"Ø SCH 80 PVC · SV-501 · HOSE BIB · EYE WASH/ SHOWER · SLOP SINK · CITY WATER

3/8"Ø PE TUBING · ½"Ø SCH 40 GALV.

6"Ø IPS HDPE/6"Ø SCH 80 PVC · 6"x4" SCH 80 PVC REDUCER · 4"Ø PVC FLANGED BFV · 4"Ø SCH 80 PVC

EXTRACTION WELL TYP. OF 4 · P-10#

MX-201 · MX-202 · MX-501 · P-501 · CFP-503 · INJECTOR MIXING NOZZLE · T-501 FLOCCULATION TANK

AIT 701 · PWR PLC · TMP BLD · AAH BLD

AC-601 · AUTO DRAIN · SV-601 · PAH 601 · PAL 601 · PT 601 · YA 601 · BLOWOFF SILENCER

FM 105 · SV-602 · V-201 · 4"Ø SCH 80 PVC

V-202 · SV-603 · 3/8"Ø PE TUBING · 2"Ø SCH 80 PVC · 2"X 4"Ø SCH 80 PVC REDUCER

CFP-504 · SEQUESTERANT DRUM · CFP-502 · COAGULANT DRUM · CFP-501 · OXIDANT DRUM · SLOP SINK · EYE WASH/ EMERGENCY SHOWER · P-201 · BUILDING SUMP #1

4"Ø SCH 80 PVC FLANGE · 4"x2" SCH 80 PVC REDUCER · IPC-201 INCLINED PLATE CLARIFIER · 4"Ø SLUDGE LINE · 4"Ø SCH 80 PVC BLIND FLANGE · 1.5"Ø HOSE · P-301

2"Ø SCH 80 PVC · 2"Ø VENT TO ATMOSPHERE · SV-604 · 1.5"Ø HOSE

T-301 THICKENER TANK · 2"Ø SIGHT GLASS · LSH 302 · 2"Ø SCH 80 PVC BLIND FLANGE · 2"Ø HOSE · P-302 · SV-605

2"Ø VENT TO ATMOSPHERE · 2"Ø SIGHT GLASS · T-302 · LSH 301 · P-303 FILTRATE TANK · LSH 202 · P-202 · BUILDING SUMP #2

4"x2" SCH 80 PVC REDUCER · 4"Ø SCH 80 PVC

PAH 602 · PAL 602 · PT 602 · YA 602 · V1 · V2 · V3 · V4 · V5 · V6 · V7 · MCP-P · FP-301 FILTER PRESS

3/4"Ø SCH 80 PVC · 2"Ø SCH 80 PVC

GAC-804 · GAC-803 · GAC-802 · GAC-801 · PT 803 · YA 803 · PT 802 · YA 802

BF-804 · BF-803 · BF-802 · BF-801 · PSV-801 · DF-801 · 1-1/2"Ø SS · SV-607

PT 801 · YA 801 · PT 401 · YA 401 · LAL 401 · LT 401 · LAH 401 · LSH 401 · P-401 · T-401 CLARIFIER CATCH TANK · 2"Ø SCH 80 PVC BLIND FLANGE

YA 701 · LAH 701 · LT 701 · SV-606 · YA 402 · P-402 · 2"Ø SCH 40 GALV.

EW-5 · DISCHARGE TO CANAL · LIMITS OF TREATMENT BUILDING

ARCADIS

LEGAL ENTITY:
ARCADIS OF NEW YORK, INC.

CONSULTANTS

DRAFT

SEALS

NEW YORK STATE OF OPPORTUNITY. Department of Environmental Conservation

FORT EDWARD LANDFILL
45 LEAVY HOLLOW LANE
HUDSON FALLS, NEW YORK

NYSDEC SITE 558001

REMEDIAL SYSTEM OPTIMIZATION

NO.	DATE	ISSUED FOR	BY
3	7/2024	RSO AS-BUILT	TC
2	6/2022	RSO DESIGN	TC
1	1/2018	RSO UPGRADES	TC

DATE: JULY 2024
PROJECT NO.:
FILE NAME: I-02 – PID – 2024
DESIGNED BY: T. CARIGNAN
DRAWN BY: T. CARIGNAN
CHECKED BY: J. WYCKOFF

SHEET TITLE

PIPING AND INSTRUMENTATION DIAGRAM

SCALE: NOT TO SCALE

I-02

SHEET 2 OF 5

Appendix B

2021 Groundwater Sampling Report Tables and Figures

Table B1
Summary of Water Level Data
Fort Edward Landfill, Hudson Falls, NY
NYSDEC Site # 558001

ARCADIS Design & Consultancy for natural and built assets

Well ID	Measuring Point Elevation (ft. amsl)	May 2021	
		Depth to Water (ft.)	Groundwater Elevation (ft. amsl)
MW-1	256.94	39.95	216.99
MW-1A	253.55	41.28	212.27
MW-1D	258.66	43.29	215.37
MW-2	193.86	8.33	185.53
MW-2A	193.93	9.05	184.88
MW-5	183.43	5.82	177.61
MW-6/-6C	192.98	7.78	185.20
MW-6A	192.80	10.12	182.68
MW-6B	192.55	15.45	177.10
MW-7	210.47	19.19	191.28
MW-8	240.09	7.77	232.32
MW-9	174.49	4.61	169.88
MW-11	182.36	17.58	164.78
MW-12A	175.55	3.30	172.25
MW-12B	175.76	3.73	172.03
MW-13A	183.50	8.48	175.02
MW-13B	183.45	10.77	172.68
MW-14A	176.06	8.37	167.69
MW-14B	177.07	8.31	168.76
MW-15	168.61	7.88	160.73
MW-16	161.89	8.71	153.18
MW-17	159.11	10.91	148.20

Notes:
All measurments are in feet.

Definitions:
amsl - above mean sea level.
ft - feet.

Table B2
Volatile Organic Compound Analytical Results for 2021 Groundwater
Fort Edward Landfill, Hudson Falls, NY
NYSDEC Site # 558001

Location	NYSDEC Class GA Standard	MW-1	MW-1A	DUP-MW-1A	MW-1D	MW-2	MW-2A	MW-5	MW-6	MW-6A	MW-6B	MW-7	MW-8	MW-9	MW-11	MW-12A	MW-12B
Sample Date		5/19/2021	5/19/2021	5/19/2021	5/18/2021	5/19/2021	5/19/2021	5/20/2021	5/18/2021	5/18/2021	5/18/2021	5/18/2021	5/17/2021	5/17/2021	5/20/2021	5/17/2021	5/17/2021
Volatile Organic Compounds (µg/L)																	
Acetone	50	10 U	10 U	10 U	10 U	10 U	10 U	140	10 U	10 U	10 U	10 U	10 U	10 U	10 U	6.1 J	20 U
Benzene	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.8	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.3 J	1.1 J
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Bromoform	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Bromomethane	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	20 U
Carbon Disulfide	60	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	3.9
Carbon Tetrachloride	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Chlorobenzene	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	14	2.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Chloroethane	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	0.47 J	0.71 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Cyclohexane	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	0.86 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,2-Dibromo-3-chloropropane (DBCP)	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,2-Dibromoethane (EDB)	0.0006	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	1.0 U	1.0 U
1,2-Dichlorobenzene	3.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,3-Dichlorobenzene	3.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	2.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	3.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.4	2.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Dichlorodifluoromethane (Freon 12)	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,1-Dichloroethane	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,1-Dichloroethylene	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
cis-1,2-Dichloroethylene	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
trans-1,2-Dichloroethylene	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,2-Dichloropropane	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	2.0 U	2.0 U
Ethylbenzene	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
2-Hexanone (MBK)	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50 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	2.0 U
Isopropylbenzene (Cumene)	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Methyl Acetate	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	25 U	2.5 U	2.5 U	2.5 U	2.5 U	1.0 U	1.0 U	2.5 U	5.0 U	5.0 U
Methyl tert-Butyl Ether (MTBE)	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	0.22 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.69 J	2.0 U
Methyl Cyclohexane	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.6 J	0.25 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Methylene Chloride	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.98 J	2.0
4-Methyl-2-pentanone (MIBK)	--	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	2.0 U	2.0 U
Styrene	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,1,1,2-Tetrachloroethane	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Tetrachloroethylene	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 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	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,2,4-Trichlorobenzene	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,1,1-Trichloroethane	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,1,2-Trichloroethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Trichloroethylene	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Trichlorofluoromethane (Freon 11)	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Vinyl Chloride	2.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	320	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Xylenes (total)	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	20 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	4.0 U
Total VOCs	--	ND	ND	ND	ND	ND	ND	461.6	19	12.71	ND	ND	ND	ND	ND	9.07	7.0

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

Definitions:
J - The concentration is an approximate value.
µg/L - micrograms per liter.
ND - Non detect.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
"--" - No regulatory criteria exists for respective analyte.

Table B2
Volatile Organic Compound Analytical Results for 2021 Groundwater
Fort Edward Landfill, Hudson Falls, NY
NYSDEC Site # 558001

Location	NYSDEC Class GA Standard	MW-13A	MW-13B	MW-14A	MW-14B	MW-15	MW-16	MW-17	EW-1	EW-2	EW-3	EW-4
Sample Date		5/17/2021	5/17/2021	5/19/2021	5/19/2021	5/17/2021	5/20/2021	5/19/2021	5/18/2021	5/18/2021	5/18/2021	5/18/2021
Volatile Organic Compounds (µg/L)												
Acetone	50	10 U	10 U	10 U	10 U	10 U	10 U	100 U	100 U	9.6 J	7.9 J	10 U
Benzene	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	9.7 J	3.4	2.4	1.0 U
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	2.0 U	1.0 U	1.0 U
Bromoform	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	2.0 U	1.0 U	1.0 U
Bromomethane	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	2.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	10 U	10 U	100 U	100 U	20 U	10 U	10 U
Carbon Disulfide	60	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	2.0 U	1.0 U	1.0 U
Carbon Tetrachloride	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	2.0 U	1.0 U	1.0 U
Chlorobenzene	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	12	1.5 J	19	1.0 U
Chloroethane	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	2.0 U	1.0 U	1.0 U
Cyclohexane	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	130	10 U	2.0 U	1.1	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	2.0 U	1.0 U	1.0 U
1,2-Dibromoethane (EDB)	0.0006	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	2.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	2.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	2.0 U	5.4	1.0 U
Dichlorodifluoromethane (Freon 12)	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	2.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	2.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	2.0 U	1.0 U	1.0 U
1,1-Dichloroethylene	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	2.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethylene	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	390	2.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethylene	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	2.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	2.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	10 U	10 U	2.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	10 U	10 U	2.0 U	1.0 U	1.0 U
Ethylbenzene	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	33	10 U	2.0 U	1.0 U	1.0 U
2-Hexanone (MBK)	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50 U	50 U	2.0 U	5.0 U	5.0 U
Isopropylbenzene (Cumene)	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.0 J	10 U	2.0 U	1.0 U	1.0 U
Methyl Acetate	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	25 U	25 U	5.0 U	2.5 U	2.5 U
Methyl tert-Butyl Ether (MTBE)	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	0.71 J	0.45 J	1.0 U
Methyl Cyclohexane	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	270	10 U	2.0 U	0.41 J	1.0 U
Methylene Chloride	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	2.0 U	1.0 U	1.0 U
4-Methyl-2-pentanone (MIBK)	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	45 J	2.0 U	5.0 U	5.0 U
Styrene	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	2.0 U	1.0 U	1.0 U
1,1,1,2-Tetrachloroethane	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	2.0 U	1.0 U	1.0 U
Tetrachloroethylene	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 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	1.0 U	1.0 U	10 U	13	2.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	2.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	2.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	2.0 U	1.0 U	1.0 U
Trichloroethylene	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	2.0 U	1.0 U	1.0 U
Trichlorofluoromethane (Freon 11)	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	2.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	2.0 U	1.0 U	1.0 U
Vinyl Chloride	2.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	560	2.0 U	1.0 U	1.0 U
Xylenes (total)	5.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	20 U	25	4.0 U	2.0 U	2.0 U
Total VOCs	--	ND	ND	ND	ND	ND	ND	442	1,054.7	15.21	36.66	ND

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

Definitions:
J - The concentration is an approximate value.
µg/L - micrograms per liter.
ND - Non detect.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
"--" - No regulatory criteria exists for respective analyte.

Table B3
Groundwater and Leachate Analytical Data May 1995 - May 2021
Fort Edward Landfill, Hudson Falls, NY
NYSDEC Site # 558001

ARCADIS Design & Consultancy for natural and built assets

Well ID	Parameter	NYSDEC Class GA Standard	Units	Sample Date																		
				May-95	Aug-95	May-99	Oct-99	May-00	Oct-01	May-02	Apr-03	Aug-04	Jul-07	Oct-08	Mar-10	Oct-11	Sep-12	Oct-13	Jan-15	May-16	Aug-17	Oct-18	May-21
MW-1	Total VOCs	--	µg/L	5.0	ND	ND	ND	ND	19	ND	ND	2.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Iron	0.3	mg/L	45.4	13	0.498	1.1	2.2	1.1	1.6	1.1	NA	20.1	1.17	ND	ND	0.29	0.21	0.053	0.079	ND	0.23	0.074
	Total PCBs	0.09	µg/L	NA	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	0.82	ND	ND	ND	ND	ND	ND
MW-1A	Total VOCs	--	µg/L	7.0	11	1.0	ND	3.0	ND	ND	ND	5.0	ND	ND	ND	ND	ND	ND	0.99	451	ND	ND	ND
	Iron	0.3	mg/L	0.827	0.331	0.75	2.1	2.6	2.8	0.41	1.1	NA	11.5	1.63	0.185	0.352	0.55	0.25	0.19	0.48	0.093	0.083	0.024
	Total PCBs	0.09	µg/L	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	7.4	ND	28	0.45	ND	ND	ND
MW-1D	Total VOCs	--	µg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	26.1	ND	ND	ND	1.1	ND	ND	ND	ND
	Iron	0.3	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.185	1.14	0.19	0.074	0.18	0.2	0.37	0.74	0.169
	Total PCBs	0.09	µg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	0.81	ND	ND	ND	ND	ND	ND
MW-2	Total VOCs	--	µg/L	9.0	8.0	10	ND	ND	ND	ND	ND	5.0	ND	ND	ND	6.7	ND	ND	ND	ND	ND	ND	ND
	Iron	0.3	mg/L	1.27	8.03	7.62	2.9	15	1.1	5.8	5.2	NA	9.86	5.32	2.17	4.74	2.8	2.2	1.7	5.3	5.2	13	14.7
	Total PCBs	0.09	µg/L	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-2A	Total VOCs	--	µg/L	ND	ND	6.0	ND	ND	ND	ND	ND	4.0	ND	ND	ND	ND	ND	ND	ND	ND	0.28	ND	ND
	Iron	0.3	mg/L	4.62	4.89	4.83	8.6	13	7.5	9.3	6.8	NA	15.2	11.2	8.19	11.2	9.1	9.8	10.7	10.8	14	9.6	6.4
	Total PCBs	0.09	µg/L	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	0.28	ND	ND	ND	ND	ND	ND
MW-5	Total VOCs	--	µg/L	8,641	11,438	NS	NS	27,034	50,271	NS	11,352	4,209	NA	NA	365	NS	NS	NS	1,858	1,259	908.4	358	461.6
	Iron	0.3	mg/L	82.5	66.2	NS	NS	130	95	NS	95	ND	NA	NA	142	NS	NS	NS	56.5	100	54	62	NS
	Total PCBs	0.09	µg/L	ND	ND	NS	NS	NA	NA	NS	NS	ND	NA	NA	ND	NS	NS	NS	1.1	0.54	ND	ND	ND
MW-6	Total VOCs	--	µg/L	112	83	26	38	38	62	60	37	63	17	23	25	23	22.4	22.14	40.75	31.7	32.9	24.1	19
	Iron	0.3	mg/L	37.4	63.7	49.3	80	84	97	100	130	NA	135	120	123	139	103	102	106	106	120	100	100
	Total PCBs	0.09	µg/L	ND	ND	NA	ND	ND	NA	NA	NA	3.3	ND	0.43	0.72	0.18	0.37	ND	11	15	ND	0.58	0.79
MW-6A	Total VOCs	--	µg/L	30	4.0	ND	3.0	13	16	9.0	16	17	8.0	19	44	67.7	35.41	37.04	35.25	28.18	29.5	14.9	12.71
	Iron	0.3	mg/L	0.404	0.428	0.388	2.6	35	35	49	54	NA	33.1	27.4	23.4	24.4	23.8	21.2	21.2	19.7	21	18	13.9
	Total PCBs	0.09	µg/L	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	3.8	14	ND	ND	ND
MW-6B	Total VOCs	--	µg/L	30	ND	8.0	ND	ND	NA	ND	ND	4.0	ND	ND	ND	ND	ND	ND	0.94	ND	ND	ND	ND
	Iron	0.3	mg/L	8.13	19.9	49	1.2	17	NA	9.1	38	NA	157	3.16	2.38	0.521	0.78	0.35	5.0	0.34	0.24	0.74	0.82
	Total PCBs	0.09	µg/L	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	0.91	ND	1.5	29	ND	ND	ND
MW-7	Total VOCs	--	µg/L	3.0	ND	5.0	ND	ND	ND	ND	NA	11	ND	ND	ND	ND	ND	2.78	1.91	0.6	ND	1.1	ND
	Iron	0.3	mg/L	23.6	30.8	8.06	2.2	17	23	27	NA	240	217	143	119	188	146	195	154	157	160	130	146
	Total PCBs	0.09	µg/L	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	0.27	ND	ND	ND	ND
MW-8	Total VOCs	--	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	6.0	ND	ND	ND	NS	ND	4.4	ND	ND	ND	ND	ND
	Iron	0.3	mg/L	0.195	0.362	0.873	0.46	1.4	0.29	2.3	NA	NA	19.9	0.25	8.49	NS	4.0	1.5	9.8	0.073	0.057	ND	0.14
	Total PCBs	0.09	µg/L	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND	ND	NS	1.0	ND	ND	ND	ND	ND	ND
MW-9	Total VOCs	--	µg/L	NA	NA	7.0	ND	ND	ND	ND	ND	4.0	ND	ND	ND	ND	ND	ND	ND	ND	5.2	ND	ND
	Iron	Iron	mg/L	NA	NA	0.946	0.56	2.0	0.26	0.39	5.3	NA	1.59	0.213	0.14	23.9	8.2	0.2	3.0	1.4	2.5	0.71	1.0
	Total PCBs	0.09	µg/L	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	1.8	0.34	ND	4.9	ND	ND	ND
MW-11	Total VOCs	--	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS	NS	NS	0.44	ND	ND
	Iron	0.3	mg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS	NS	NS	0.51	370	0.26
	Total PCBs	0.09	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS	NS	NS	ND	ND	ND

Notes:
Concentrations detected above the New York State Department of Environmental Conservation (NYSDEC) Class GA Standard are highlighted in yellow.
95-'00 Data Source: Final Evaluation and Assessment Report. Fort Edward Landfill. NYSDEC. July 2001. URS Consultants
VOC totals from 1995 through 2000 include only concentrations of VOCs that were detected above NYSDEC Class GA Standards, while the 2007, 2008, 2011, 2012, 2015, and 2016 VOC totals include all detections, whether above or below NYSDEC Class GA Standards.

Definitions:
µg/L - microgram per liter.
mg/L - milligram per liter.
NA - Not Analyzed.
ND - Not detected above the Method Detection Limit or the Reporting Limit.
NS - Not Sampled.
PCBs - Polychlorinated Biphenyls.
VOCs - Volatile Organic Compounds.
"--" - No regulatory criteria exists for the respective analyte.
"*" - Well was not installed during the respective time period.

Table B3
Groundwater and Leachate Analytical Data May 1995 - May 2021
Fort Edward Landfill, Hudson Falls, NY
NYSDEC Site # 558001

Well ID	Parameter	NYSDEC Class GA Standard	Units	Sample Date																		
				May-95	Aug-95	May-99	Oct-99	May-00	Oct-01	May-02	Apr-03	Aug-04	Jul-07	Oct-08	Mar-10	Oct-11	Sep-12	Oct-13	Jan-15	May-16	Aug-17	Oct-18	May-21
MW-12A	Total VOCs	--	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	9.07
	Iron	0.3	mg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	45.6
	Total PCBs	0.09	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND
MW-12B	Total VOCs	--	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7.0
	Iron	0.3	mg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.03
	Total PCBs	0.09	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND
MW-13A	Total VOCs	--	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND
	Iron	0.3	mg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.457
	Total PCBs	0.09	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND
MW-13B	Total VOCs	--	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND
	Iron	0.3	mg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.185
	Total PCBs	0.09	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND
MW-14A	Total VOCs	--	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND
	Iron	0.3	mg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.0508
	Total PCBs	0.09	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND
MW-14B	Total VOCs	--	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND
	Iron	0.3	mg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.691
	Total PCBs	0.09	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND
MW-15	Total VOCs	--	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND
	Iron	0.3	mg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND
	Total PCBs	0.09	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND
MW-16	Total VOCs	--	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND
	Iron	0.3	mg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.172
	Total PCBs	0.09	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND
MW-17	Total VOCs	--	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	442
	Iron	0.3	mg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.635
	Total PCBs	0.09	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND
EW-1	Total VOCs	--	µg/L	*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	630	429	NS	525	1,347	1,170	4,817.3	2,513.7	1,054.7
	Iron	0.3	mg/L	*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	53.7	48.5	NS	66.2	70.2	1,530	55	53	63.6
	Total PCBs	0.09	µg/L	*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	49	1,824	NS	650	1,100	970	250	4,400	8,600
EW-2	Total VOCs	--	µg/L	*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	140.8	7.2	NS	5.2	9.29	12.1	72.37	65.59	15.21
	Iron	0.3	mg/L	*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	40.1	24.5	NS	27.8	29.4	30.3	22	34	18
	Total PCBs	0.09	µg/L	*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.27	0.16	NS	ND	ND	400	ND	ND	0.3
EW-3	Total VOCs	--	µg/L	*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	53.2	51.2	NS	75.22	68.9	45.1	132.52	111.35	36.66
	Iron	0.3	mg/L	*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	40.6	123	NS	33.8	31.7	33.9	33	38	31.9
	Total PCBs	0.09	µg/L	*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	2.7	1.6	NS	2.9	2.2	23	ND	ND	1.9
EW-4	Total VOCs	--	µg/L	*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	NS	1.2	NA	NS	3.99	ND	ND
	Iron	0.3	mg/L	*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	20.1	377	NS	32.5	NA	NS	60	24	18.3
	Total PCBs	0.09	µg/L	*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.6	3.3	NS	2.06	2.3	NS	0.63	0.28	1.1

Notes:
Concentrations detected above the New York State Department of Environmental Conservation (NYSDEC) Class GA Standard are highlighted in yellow.
95-'00 Data Source: Final Evaluation and Assessment Report. Fort Edward Landfill. NYSDEC. July 2001. URS Consultants
VOC totals from 1995 through 2000 include only concentrations of VOCs that were detected above NYSDEC Class GA Standards, while the 2007, 2008, 2011, 2012, 2015, and 2016 VOC totals include all detections, whether above or below NYSDEC Class GA Standards.

Definitions:
µg/L - microgram per liter.
mg/L - milligram per liter.
NA - Not Analyzed.
ND - Not detected above the Method Detection Limit or the Reporting Limit.
NS - Not Sampled.
PCBs - Polychlorinated Biphenyls.
VOCs - Volatile Organic Compounds.
"--" - No regulatory criteria exists for the respective analyte.
"*" - Well was not installed during the respective time period.

Table B4
Polychlorinated Biphenyl Analytical Results for 2021 Groundwater
Fort Edward Landfill, Hudson Falls, NY
NYSDEC Site # 558001

Location	NYSDEC Class GA Standard	MW-1	MW-1A	DUP-MW-1A	MW-1D	MW-2	MW-2A	MW-5	MW-6	MW-6A	MW-6B	MW-7	MW-8	MW-9	MW-11
Sample Date		5/19/2021	5/19/2021	5/19/2021	5/18/2021	5/18/2021	5/19/2021	5/20/2021	5/18/2021	5/18/2021	5/18/2021	5/18/2021	5/17/2021	5/17/2021	5/20/2021
Polychlorinated Biphenyls (µg/L)															
PCB-1016	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-1221	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-1232	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.79	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-1242	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-1248	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-1254	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-1260	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-1262	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-1268	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Total PCBs	0.09	ND	ND	ND	ND	ND	ND	ND	0.79	ND	ND	ND	ND	ND	ND

Location	NYSDEC Class GA Standard	MW-12A	MW-12B	MW-13A	MW-13B	MW-14A	MW-14B	MW-15	MW-16	MW-17	EW-1	EW-2	EW-3	EW-4
Sample Date		5/17/2021	5/17/2021	5/17/2021	5/17/2021	5/19/2021	5/19/2021	5/17/2021	5/20/2021	5/19/2021	5/18/2021	5/18/2021	5/18/2021	5/18/2021
Polychlorinated Biphenyls (µg/L)														
PCB-1016	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	8,600	0.3 J	0.5 U	0.5 U
PCB-1221	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	500 U	0.5 U	0.5 U	0.5 U
PCB-1232	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	500 U	0.5 U	1.9	1.1
PCB-1242	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	500 U	0.5 U	0.5 U	0.5 U
PCB-1248	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	500 U	0.5 U	0.5 U	0.5 U
PCB-1254	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	500 U	0.5 U	0.5 U	0.5 U
PCB-1260	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	500 U	0.5 U	0.5 U	0.5 U
PCB-1262	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	500 U	0.5 U	0.5 U	0.5 U
PCB-1268	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	500 U	0.5 U	0.5 U	0.5 U
Total PCBs	0.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	8,600	0.3	1.9	1.1

Notes:

Concentrations detected above the NYSDEC Class GA Standard are highlighted in yellow.
The NYSDEC Class GA Standard for Total PCBs is 0.09 µg/L.

Definitions:

J - The concentration is an approximate value.
µg/L - micrograms per liter.
ND - Non detect.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
"--" - No regulatory criteria exists for respective analyte.

Table B5
Metal Analytical Results for 2021 Groundwater
Fort Edward Landfill, Hudson Falls, NY
NYSDEC Site # 558001

Location	NYSDEC Class GA Standard	MW-1	MW-1A	DUP-MW-1A	MW-1D	MW-2	MW-2A	MW-5	MW-6	MW-6A	MW-6B	MW-7	MW-8	MW-9	MW-11	MW-12A	MW-12B
Sample Date		**5/19/2021**	**5/19/2021**	**5/19/2021**	**5/18/2021**	**5/19/2021**	**5/19/2021**	**5/20/2021**	**5/18/2021**	**5/18/2021**	**5/18/2021**	**5/18/2021**	**5/17/2021**	**5/17/2021**	**5/20/2021**	**5/17/2021**	**5/17/2021**
Metals (mg/L)																	
Aluminum	--	0.2 U	0.116 J	0.0808 J	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.174 J	0.2 U	0.2 U	0.187 J	0.345	0.2 U	0.2 U
Antimony	0.003	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic	0.025	0.015 U	0.0076 J	0.0096 J	0.015 U	0.015 U	0.015 U	NA	0.0107 J	0.0079 J	0.0114 J	0.015 U	0.015 U	0.015 U	0.015 U	0.0097 J	0.0059 J
Barium	1.0	0.0192	0.0079	0.0079	0.517	0.0223	0.064	NA	0.0254	0.0954	0.0076	0.0199	0.0139	0.0598	0.0526	0.146	0.149
Beryllium	0.003	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NA	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Cadmium	0.005	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NA	0.002 U	0.00053 J	0.00058 J	0.002 U	0.002 U	0.00074 J	0.002 U	0.002 U	0.001 U
Calcium	--	42.5	12.8	12.8	21	142	40.9	NA	74	103	8.73	42.1	49.5	70.6	64.5	132	134
Chromium	0.05	0.0012 J	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	NA	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Cobalt	--	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	NA	0.0196	0.0015 J	0.004 U	0.0141	0.004 U	0.004 U	0.004 U	0.0025 J	0.0013 J
Copper	0.2	0.001 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0149	0.01 U	0.01 U
Iron	0.3	0.0739 B	0.0244 JB	0.0217 JB	0.169 B	14.7 B	6.4 B	NA	100 B	13.9 B	0.816 B	146 B	0.143	1.0	0.26 B	45.6	1.03
Lead	0.025	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	0.0058 J	0.01 U	0.01 U	0.0058 J	0.01 U	0.01 U	0.01 U	0.0076 J	0.01 U
Magnesium	35	8.74	1.37	1.39	4.93	23.2	13.6	NA	13.7	37.7 B	1.41	9.77	10.8	142	15.3	41.5	38.7
Manganese	0.3	0.0021 JB	0.0099 B	0.01 B	0.0194	1.27 B	0.304 B	NA	0.92	1.29	0.0207	2.94	0.0017 J	0.0299	0.0286	2.35	0.774
Mercury	0.0007	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	NA	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Nickel	0.1	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	0.0056 J	0.0078 J	0.0014 J	0.0029 J	0.01 U	0.01 U	0.01 U	0.0123	0.0056 J
Potassium	--	0.913	0.43 J	0.398 J	2.88	1.12	1.31	NA	4.91	7.47	0.88	1.41	0.9 B	1.05 B	1.52	2.87 B	1.86 B
Selenium	0.01	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	NA	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Silver	0.05	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	NA	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
Sodium	20	41.2	20	20	44.3	17.2	38.7	NA	5.26	31.8	41.8	2.92	17.5	130	19.4	120	74.9
Thallium	0.0005	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Vanadium	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	0.0018 J	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Zinc	2.0	0.01 U	0.01 U	0.01 U	0.0044 J	0.0016 J	0.01 U	NA	0.01 U	0.0118	0.0301	0.002 J	0.0022 J	0.0015 J	0.01 U	0.01 U	0.0017 J

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

Definitions:
B - Compound was found in the blank sample.
J - The concentration is an approximate value.
mg/L - milligrams per Liter.
NA - Not analyzed.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
"--" - No regulatory criteria exists for respective analyte.

Table B5
Metal Analytical Results for 2021 Groundwater
Fort Edward Landfill, Hudson Falls, NY
NYSDEC Site # 558001

Location	NYSDEC Class GA Standard	MW-13A	MW-13B	MW-14A	MW-14B	MW-15	MW-16	MW-17	EW-1	EW-2	EW-3	EW-4
Sample Date		5/17/2021	5/17/2021	5/19/2021	5/19/2021	5/17/2021	5/20/2021	5/19/2021	5/18/2021	5/18/2021	5/18/2021	5/18/2021
Metals (mg/L)												
Aluminum	--	0.4	0.456	0.0719 J	0.884	0.2 U	0.185 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Antimony	0.003	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic	0.025	0.015 U	0.0088 J	0.015 U	0.0096 J	0.015 U	0.015 U	0.015 U	0.015 U	0.0168	0.0097 J	0.015 U
Barium	1.0	0.17	0.119	0.0485	0.0278	0.0522	0.0696	0.0697	0.498	0.14	0.191	0.0488
Beryllium	0.003	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.00033 J	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Cadmium	0.005	0.002 U	0.002 U	0.002 U	0.002 U	0.00063 J	0.00057 J	0.00058 J	0.0006 J	0.002 U	0.002 U	0.002 U
Calcium	--	40.2	17.8	24.5	4.81	38.8	122	38.6	170	120	77.8	92.2
Chromium	0.05	0.0022 J	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0027 J	0.004 U	0.004 U	0.004 U
Cobalt	--	0.0019 J	0.00085 J	0.004 U	0.00071 J	0.004 U	0.003 J	0.004 U	0.0069	0.0038 J	0.0097	0.0019 J
Copper	0.2	0.0021 J	0.002 J	0.002 J	0.0028 J	0.01 U	0.01 U	0.01 U	0.0112	0.0309	0.0029 J	0.01 U
Iron	0.3	0.457	0.185	0.0508 B	0.691 B	0.05 U	0.172 B	0.635 B	63.6 B	18 B	31.9 B	18.3 B
Lead	0.025	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0082 J	0.01 U	0.01 U	0.01 U
Magnesium	35	4.29	0.168 J	10.5	0.998	105	68.3	70.1	61.4	41.6	37	21.5
Manganese	0.3	0.039	0.0039	0.0243 B	0.0192 B	0.036	1.99 B	0.129 B	1.02	0.879	0.254	1.61
Mercury	0.0007	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Nickel	0.1	0.0015 J	0.0018 J	0.01 U	0.0026 J	0.01 U	0.0066 J	0.01 U	0.0272	0.0118	0.0086 J	0.0017 J
Potassium	--	31.9 B	16.8 B	4.22	20.8	3.24 B	1.25	2.43	42.6	2.67	33.3	2.4
Selenium	0.01	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Silver	0.05	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
Sodium	20	49.3	46.8	60.2	64.3	117	31.7	74.4	234	105	65.4	48.2
Thallium	0.0005	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Vanadium	--	0.0033 J	0.0107	0.0024 J	0.009	0.005 U	0.005 U	0.005 U	0.0041 J	0.005 U	0.0048 J	0.005 U
Zinc	2.0	0.0037 J	0.0034 J	0.0045 J	0.0047 J	0.0017 J	0.0016 J	0.01 U	0.0225	0.0612	0.008 J	0.01 U

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

Definitions:
B - Compound was found in the blank sample.
J - The concentration is an approximate value.
mg/L - milligrams per Liter.
NA - Not analyzed.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
"--" - No regulatory criteria exists for respective analyte.

Table B6
General Chemistry Analytical Results for 2021 Groundwater
Fort Edward Landfill, Hudson Falls, NY
NYSDEC Site # 558001

Location	NYSDEC Class GA Standard	MW-1	MW-1A	DUP MW-1A	MW-1D	MW-2	MW-2A	MW-5	MW-6	MW-6A	MW-6B	MW-7	MW-8	MW-9
Sample Date		5/19/2021	5/19/2021	10/24/2018	5/18/2021	5/18/2021	5/19/2021	5/20/2021	5/18/2021	5/18/2021	5/18/2021	5/18/2021	5/17/2021	5/17/2021
Conventional Chemistry (mg/L)														
Total Dissolved Solids	--	306	126	121	212	510	323	NA	423	516	178	397	304	906
Total Suspended Solids	--	4.0 U	4.0 U	4.0 U	4.0 U	16.8	8.0	NA	47.2	36.8	10	85.2	4.0 U	4.0 U

Location	NYSDEC Class GA Standard	MW-11	MW-12A	MW-12B	MW-13A	MW-13B	MW-14A	MW-15	MW-16	MW-17	EW-1	EW-2	EW-3	EW-4
Sample Date		5/20/2021	5/17/2021	5/17/2021	5/17/2021	5/17/2021	5/19/2021	5/17/2021	5/20/2021	5/19/2021	5/18/2021	5/18/2021	5/18/2021	5/18/2021
Conventional Chemistry (mg/L)														
Total Dissolved Solids	--	NA	687	845	267	231	253	770	681	492	1,510	793	630	489
Total Suspended Solids	--	NA	4.4	79.2	19.2	7.6	4.0 U	4.0 U	20	5.2	60.8	58.8	64.4	45.6

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

Definitions:
mg/L - milligrams per liter.
NA - Not analyzed.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
"--" - No regulatory criteria exists for respective analyte.

Table B7
Emerging Contaminant Analytical Results for 2021 Groundwater
Fort Edward Landfill, Hudson Falls, NY
NYSDEC Site # 558001

ARCADIS Design & Consultancy for natural and built assets

Location	NYSDEC SGV	USEPA Lifetime Health Advisory	MW-1	MW-1A	DUP-MW-1A	MW-1D	MW-2	MW-2A	MW-5	MW-6	MW-6A	MW-6B	MW-7	MW-8	MW-9	MW-11	MW-12A	MW-12B
Sample Date			5/19/2021	5/19/2021	5/19/2021	5/18/2021	5/19/2021	5/19/2021	5/20/2021	5/18/2021	5/18/2021	5/18/2021	5/18/2021	5/17/2021	5/17/2021	5/20/2021	5/17/2021	5/17/2021
Perfluorinated Alkyl Substances (ng/L)																		
Perfluorobutanoic acid (PFBA)	100	--	2.8 JB	0.96 JB	1.66 U	0.84 JB	5.96 B	2.88 JB	19.3 B	3.8 JB	5.6 B	2.12 JB	5.32 B	1.4 J	55	4.56 B	18.7	18.5
Perfluoropentanoic acid (PFPeA)	100	--	3.14	1.66 U	1.66 U	1.68 U	1.15 J	4.68	56.3	3.9	4.76	1.51 J	1.63 U	1.67 U	146	1.02 J	26.1	25.3
Perfluorobutanesulfonic acid (PFBS)	100	--	2.44 B	1.66 U	1.66 U	1.68 U	1.69 B	3.33 B	5.75 B	0.8 JB	1.35 JB	0.46 JB	0.29 JB	1.83	5.71	0.71 JB	3.89	4.0
Perfluorohexanesulfonic acid (PFHxS)	100	--	1.77 B	1.66 U	1.66 U	1.68 U	1.44 JB	0.83 JB	22.7 B	1.18 J	2.47	0.37 J	0.25 J	0.41 J	2.81	1.81 U	10.8	6.58
Perfluorohexanoic acid (PFHxA)	100	--	4.56 B	1.66 U	1.66 U	1.68 U	2.21 B	4.98 B	103 B	6.97	8.69	2.52	0.41 J	1.67 U	144	1.12 JB	54	53.8
Perfluoroheptanesulfonic acid (PFHpS)	100	--	1.68 U	1.66 U	1.66 U	1.68 U	0.55 JB	1.75 U	1.78 B	1.69 U	0.56 J	1.69 U	1.63 U	1.67 U	1.67 U	1.81 U	0.48 J	1.61 U
Perfluoroheptanoic acid (PFHpA)	100	--	4.45 B	1.66 U	1.66 U	1.68 U	2.38 B	1.57 JB	45.6 B	3.5 B	4.17 B	0.68 JB	0.46 JB	1.67 U	29.3	0.74 JB	23	23.5
Perfluorooctanoic acid (PFOA)	10	70	10.4	1.66 U	1.66 U	1.68 U	26.9	3.82	141	9.76	13.4	0.9 J	3.36	0.68 J	55.4	1.6 J	60.6	43.7
Perfluorooctanesulfonic acid (PFOS)	10	70	5.31 B	1.66 U	1.66 U	1.68 U	30.7 B	0.63 JB	80.7 B	11.2 B	6.56 B	0.99 JB	0.7 JB	1.52 J	5.63	0.45 JB	20.3	1.89
Perfluorononanoic acid (PFNA)	100	--	1.68 U	1.66 U	1.66 U	1.68 U	0.69 JB	1.75 U	1.08 JB	0.46 J	0.71 J	1.69 U	1.63 U	1.67 U	1.67 U	1.81 U	0.51 J	1.61 U
Perfluorodecanoic acid (PFDA)	100	--	1.68 U	1.66 U	1.66 U	1.68 U	1.66 U	1.75 U	0.28 JB	1.69 U	0.46 JB	1.69 U	1.63 U	1.67 U	1.67 U	1.81 U	1.67 U	1.61 U
Perfluoroundecanoic acid (PFUnA)	100	--	1.68 U	1.66 U	1.66 U	1.68 U	1.66 U	1.75 U	1.67 U	1.69 U	0.35 J	1.69 U	1.63 U	1.67 U	1.67 U	1.81 U	1.67 U	1.61 U
Perfluorododecanoic acid (PFDoA)	100	--	1.68 U	1.66 U	1.66 U	1.68 U	1.66 U	1.75 U	1.67 U	1.69 U	0.4 J	1.69 U	1.63 U	1.67 U	1.67 U	1.81 U	1.67 U	1.61 U
Perfluorotridecanoic acid (PFTriA)	100	--	1.68 U	1.66 U	1.66 U	1.68 U	1.66 U	1.75 U	1.67 U	1.69 U	1.76 U	1.69 U	1.63 U	1.67 U	1.67 U	1.81 U	1.67 U	1.61 U
Perfluorotetradecaoic acid (PFTea)	100	--	1.68 U	1.66 U	1.66 U	1.68 U	1.66 U	1.75 U	1.67 U	1.69 U	1.76 U	1.69 U	1.63 U	1.67 U	1.67 U	1.81 U	1.67 U	1.61 U
Perfluorodecanesulfonic acid (PFDS)	100	--	1.68 U	1.66 U	1.66 U	1.68 U	1.66 U	1.75 U	1.67 U	1.69 U	0.32 J	1.69 U	1.63 U	1.67 U	1.67 U	1.81 U	1.67 U	1.61 U
Perfluorooctanesulfonamide (FOSA)	100	--	1.68 U	1.66 U	1.66 U	1.68 U	1.66 U	1.75 U	1.67 U	1.69 U	1.76 U	1.69 U	1.63 U	1.67 U	1.67 U	1.81 U	1.67 U	1.61 U
N-Methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	100	--	4.19 U	4.16 U	4.16 U	4.19 U	4.16 U	4.38 U	4.18 U	4.22 U	4.4 U	4.21 U	4.06 U	4.16 U	4.16 U	4.52 U	4.16 U	4.03 U
N-Ethylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	100	--	4.19 U	4.16 U	4.16 U	4.19 U	4.16 U	4.38 U	4.04 J	0.81 J	4.4 U	4.21 U	4.06 U	4.16 U	4.16 U	4.52 U	4.16 U	4.03 U
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2)	100	--	4.19 U	4.16 U	4.16 U	4.19 U	4.16 U	4.38 U	1.18 J	4.22 U	4.4 U	4.21 U	4.06 U	4.16 U	4.16 U	4.52 U	4.16 U	4.03 U
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2)	100	--	1.68 U	1.66 U	1.66 U	1.68 U	1.66 U	1.75 U	1.67 U	1.69 U	0.34 J	1.69 U	1.63 U	1.67 U	1.67 U	1.81 U	1.67 U	1.61 U
Total PFOA + PFOS	10	70	15.71	ND	ND	ND	57.6	4.45	221.7	20.96	19.96	1.89	4.06	2.2	61.03	2.05	80.9	45.59
Total PFAS	500	--	34.87	0.96	ND	0.84	73.67	22.72	482.71	42.38	50.14	9.55	10.79	5.84	443.85	10.2	218.38	177.27
1,4-Dioxane (µg/L)																		
1,4-Dioxane	1.0	--	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.14 JB	68 EB	5.2 EB	4.4 EB	0.15 JB	0.2 U	0.19 U	1.5 E	0.19 U	50 E	61 E

Notes:

Constitutents detected above the New York State Department of Environmental Conservation Groundwater Standard and Guidance Value (NYSDEC SGV) are highlighted in yellow.

Constitutents detected above the United States Environmental Protection Agency (USEPA) Lifetime Health Advisory are highlighted in orange.

Definitions:

B - Compound was found in the blank and sample.

E - Compound concentration exceeds the upper calibration level of the instrument.

J - The concentration is an approximate value.

µg/L - micrograms per liter.

ND - Non detect.

ng/L - nanograms per liter.

U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

"--" - No regulatory criteria exists for respective analyte.

Table B7
Emerging Contaminant Analytical Results for 2021 Groundwater
Fort Edward Landfill, Hudson Falls, NY
NYSDEC Site # 558001

Location	NYSDEC SGV	USEPA Lifetime Health Advisory	MW-13A	MW-13B	MW-14A	MW-14B	MW-15	MW-16	MW-17	EW-1	EW-2	EW-3	EW-4
Sample Date			5/17/2021	5/17/2021	5/19/2021	5/19/2021	5/17/2021	5/20/2021	5/19/2021	5/18/2021	5/18/2021	5/18/2021	5/18/2021
Perfluorinated Alkyl Substances (ng/L)													
Perfluorobutanoic acid (PFBA)	100	--	3.22 J	4.92	1.77 U	1.75 U	9.36	33.3 B	1.66 U	131 B	17.7 B	10.5 B	8.5 B
Perfluoropentanoic acid (PFPeA)	100	--	1.53 J	1.94	1.77 U	1.75 U	30.9	134	1.66 U	226	26.3	17.5	17.8
Perfluorobutanesulfonic acid (PFBS)	100	--	0.42 J	0.42 J	1.77 U	1.75 U	0.54 J	2.18 B	1.66 U	9.97 B	2.92 B	2.34 B	1.68 B
Perfluorohexanesulfonic acid (PFHxS)	100	--	0.39 J	0.31 J	1.77 U	1.75 U	1.67 J	21.7 B	1.66 U	32.6	9.64	5.65	1.62 J
Perfluorohexanoic acid (PFHxA)	100	--	1.29 J	2.16	1.77 U	1.75 U	19.7	104 B	1.66 U	401	51.2	35.3	25.1
Perfluoroheptanesulfonic acid (PFHpS)	100	--	1.06 J	1.80 U	1.77 U	1.75 U	1.77 U	1.33 JB	1.66 U	1.83	0.6 J	0.36 J	1.67 U
Perfluoroheptanoic acid (PFHpA)	100	--	1.71 U	1.36 J	1.77 U	1.75 U	10.7	66.5 B	1.66 U	150 B	20.6 B	13.7 B	6.64 B
Perfluorooctanoic acid (PFOA)	10	70	4.88	3.7	1.77 U	1.75 U	6.99	63.2	1.66 U	1,140	54.9	30.1	18.9
Perfluorooctanesulfonic acid (PFOS)	10	70	0.82 J	0.43 J	0.5 JB	0.93 JB	0.86 J	14.8 B	1.66 U	60.5 B	18.6 B	14.8 B	4.72 B
Perfluorononanoic acid (PFNA)	100	--	1.71 U	1.80 U	1.77 U	1.75 U	1.77 U	1.86 B	1.66 U	2.24	0.61 J	0.35 J	1.67 U
Perfluorodecanoic acid (PFDA)	100	--	1.71 U	1.80 U	1.77 U	1.75 U	1.77 U	1.56 U	1.66 U	0.47 JB	1.65 U	1.71 U	1.67 U
Perfluoroundecanoic acid (PFUnA)	100	--	1.71 U	1.80 U	1.77 U	1.75 U	1.77 U	1.56 U	1.66 U	1.62 U	1.65 U	1.71 U	1.67 U
Perfluorododecanoic acid (PFDoA)	100	--	1.71 U	1.80 U	1.77 U	1.75 U	1.77 U	1.56 U	1.66 U	1.62 U	1.65 U	1.71 U	1.67 U
Perfluorotridecanoic acid (PFTriA)	100	--	1.71 U	1.80 U	1.77 U	1.75 U	1.77 U	1.56 U	1.66 U	1.62 U	1.65 U	1.71 U	1.67 U
Perfluorotetradecaoic acid (PFTea)	100	--	1.71 U	1.80 U	1.77 U	1.75 U	1.77 U	1.56 U	1.66 U	1.62 U	1.65 U	1.71 U	1.67 U
Perfluorodecanesulfonic acid (PFDS)	100	--	1.71 U	1.80 U	1.77 U	1.75 U	1.77 U	1.56 U	1.66 U	1.62 U	1.65 U	1.71 U	1.67 U
Perfluorooctanesulfonamide (FOSA)	100	--	1.71 U	1.80 U	1.77 U	1.75 U	1.77 U	1.56 U	1.66 U	1.62 U	1.65 U	1.71 U	1.67 U
N-Methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	100	--	4.28 U	4.49 U	4.42 U	4.36 U	4.41 U	3.9 U	4.16 U	1.98 J	4.12 U	4.29 U	4.17 U
N-Ethylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	100	--	4.28 U	4.49 U	4.42 U	4.36 U	4.41 U	3.9 U	4.16 U	51.1	2.12 J	1.67 J	4.17 U
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2)	100	--	4.28 U	4.49 U	4.42 U	4.36 U	7.59	881	1.45 J	2.12 J	4.12 U	4.29 U	4.17 U
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2)	100	--	1.71 U	1.80 U	1.77 U	1.75 U	1.77 U	2.11	1.66 U	1.62 U	1.65 U	1.71 U	1.67 U
Total PFOA + PFOS	10	70	5.7	4.13	0.5	0.93	7.85	78	ND	1,200.5	73.5	44.9	23.62
Total PFAS	500	--	13.61	15.24	0.5	0.93	88.31	1,325.98	1.45	2,210.81	205.19	132.27	84.96
1,4-Dioxane (µg/L)													
1,4-Dioxane	1.0	--	0.12 J	0.19 U	0.19 U	0.19 U	0.13 J	0.84 B	0.19 U	130 EB	44 EB	68 EB	3.6 EB

Notes:
Constitutents detected above the New York State Department of Environmental Conservation Groundwater Standard and Guidance Value (NYSDEC SGV) are highlighted in yellow.
Constitutents detected above the United States Environmental Protection Agency (USEPA) Lifetime Health Advisory are highlighted in orange.

Definitions:
B - Compound was found in the blank and sample.
E - Compound concentration exceeds the upper calibration level of the instrument.
J - The concentration is an approximate value.
µg/L - micrograms per liter.
ND - Non detect.
ng/L - nanograms per liter.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
"--" - No regulatory criteria exists for respective analyte.

Table B8
Volatile Organic Compound Analytical Results for 2021 Surface Water
Fort Edward Landfill, Hudson Falls, NY
NYSDEC Site # 558001

ARCADIS Design & Consultancy for natural and built assets

Location	NYSDEC Aquatic Life - Chronic A(C)	NYSDEC Aquatic Life - Acute A(A)	Unnamed Pond	Polishing Pond Influent	DUP - Polishing Pond Influent	Polishing Pond Effluent	GFFC1	GFFC2	GFFC3
Sample Date			5/20/2021	5/18/2021	5/18/2021	5/20/2021	5/20/2021	5/20/2021	5/20/2021
Volatile Organic Compounds (µg/L)									
Acetone	--	--	3.6 J	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	210	760	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromochloromethane	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	--	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Disulfide	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5.0	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (EDB)	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	5.0	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	5.0	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	5.0	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (Freon 12)	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethylene	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethylene	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethylene	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	17	150	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone (MBK)	--	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene (Cumene)	2.6	23	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	--	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl tert-Butyl Ether (MTBE)	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Cyclohexane	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Methyl-2-pentanone (MIBK)	--	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1,2-Tetrachloroethane	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethylene	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	100	480	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5.0	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethylene	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (Freon 11)	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 11)	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m+p Xylene	65	590	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	65	590	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Xylenes (total)	65	590	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs	--	--	3.6	ND	ND	ND	ND	ND	ND

Notes:
Concentrations detected above the New York State Department of Environmental Conservation (NYSDEC) Aquatic Life - Chronic Standards are highlighted in yellow.
Concentrations detected above the NYSDEC Aquatic Life - Chronic and Acute Standards are highlighted in orange.

Definitions:
J - The concentration is an approximate value.
µg/L - Micrograms per liter.
ND - Non detect.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
"--" - No regulatory criteria exists for respective analyte.

Table B9
Polychlorinated Biphenyl Analytical Results for 2021 Surface Water
Fort Edward Landfill, Hudson Falls, NY
NYSDEC Site # 558001

Location	NYSDEC Protection of Wildlife (W)	Unnamed Pond	Polishing Pond Influent	DUP - Polishing Pond	Polishing Pond Effluent	GFFC1	GFFC2	GFFC3
Sample Date		5/20/2021	5/18/2021	5/18/2021	5/20/2021	5/20/2021	5/20/2021	5/20/2021
Polychlorinated Biphenyls (µg/L)								
PCB-1016	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-1221	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-1232	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-1242	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-1248	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-1254	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-1260	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-1262	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-1268	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Total PCBs	0.00012	ND	ND	ND	ND	ND	ND	ND

Notes:
Concentrations detected above the New York State Department of Environmental Conservation (NYSDEC) Protection of Wildlife Standards are highlighted in yellow.

Definitions:
µg/L - micrograms per liter.
ND - Non detect.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
"--" - No regulatory criteria exists for respective analyte.

Table B10
Metal Analytical Results for 2021 Surface Water
Fort Edward Landfill, Hudson Falls, NY
NYSDEC Site # 558001

Location	NYSDEC Aquatic Life - Chronic A(C)	NYSDEC Aquatic Life - Acute A(A)	Unnamed Pond	Polishing Pond Influent	DUP - Polishing Pond Influent	Polishing Pond Effluent	GFFC1	GFFC2	GFFC3
Sample Date			5/20/2021	5/18/2021	5/18/2021	5/20/2021	5/20/2021	5/20/2021	5/20/2021
Total Metals (mg/L)									
Aluminum	0.1	--	0.0749 J	0.2 U	0.2 U	1.59	0.147 J	0.126 J	0.146 J
Antimony	--	--	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic	0.15	0.34	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U
Barium	--	--	0.0297	0.0338	0.0338	0.046	0.0078	0.0078	0.0078
Beryllium [H]	1.0	--	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Cadmium [H]	0.0021	0.0038	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Calcium	--	--	52.1	85.3	84.3	76.8	8.99	9.19	9.27
Chromium [H]	0.07	0.6	0.004 U	0.004 U	0.004 U	0.0019 J	0.004 U	0.0029 J	0.004 U
Cobalt	0.005	0.11	0.004 U	0.004 U	0.004 U	0.00088 J	0.004 U	0.004 U	0.004 U
Copper [H]	0.009	0.013	0.01 U	0.003 J	0.0026 J	0.0029 J	0.01 U	0.01 U	0.01 U
Iron	0.3	0.3	2.59 B	0.705 B	0.695 B	2.22 B	0.248 B	0.252 B	0.267 B
Lead [H]	0.004	0.1	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Magnesium	--	--	21.7	16.5	16.5	17.7	1.54	1.58	1.54
Manganese	--	--	0.133 B	0.165	0.165	0.265	0.0213 B	0.0204 B	0.0216 B
Mercury	0.00077	0.0014	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Nickel [H]	0.05	0.47	0.004 J	0.0031 J	0.0029 J	0.0044 J	0.01 U	0.01 U	0.01 U
Potassium	--	--	3.72	2.9	2.7	2.98	0.359 J	0.322 J	0.375 J
Selenium	0.0046	--	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Silver [H]	0.0001	0.0041	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
Sodium	--	--	50.4	43.2	42.8	45.1	9.4	9.52	9.12
Thallium	0.008	0.02	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Vanadium	0.014	0.19	0.005 U	0.005 U	0.005 U	0.0029 J	0.005 U	0.005 U	0.005 U
Zinc [H]	0.083	0.12	0.0015 J	0.01 U	0.01 U	0.0086 J	0.0034 J	0.0024 J	0.003 J

Notes:
Concentrations detected above the New York State Department of Environmental Conservation (NYSDEC) Aquatic Life - Chronic Standards are highlighted in yellow.

Concentrations detected above the NYSDEC Aquatic Life - Chronic and Acute Standards are highlighted in orange.

Definitions:
B - Compound was found in the blank sample.

[H] - indicates that the NYSDEC Chronic and/or Acute standard is hardness dependent, hardness expressed as 100 parts per million (ppm) calcium carbonate. It should be noted that hardness dependent standards are for dissolved concentrations, but the above are total concentrations.

J - The concentration is an approximate value.

mg/L - milligrams per liter.

ppm - parts per million

U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

"--" - No regulatory criteria exists for respective analyte.

Table B11
General Chemistry Analytical Results for 2021 Surface Water
Fort Edward Landfill, Hudson Falls, NY
NYSDEC Site # 558001

Location	NYSDEC Class GA Standard	Unnamed Pond	Polishing Pond Influent	Polishing Pond Effluent	GFFC1	GFFC2	GFFC3
Sample Date		**5/20/2021**	**5/18/2021**	**5/20/2021**	**5/20/2021**	**5/20/2021**	**5/20/2021**
Conventional Chemistry (mg/L)							
Total Dissolved Solids	--	NA	NA	381	NA	NA	NA
Total Suspended Solids	--	NA	NA	40.8	NA	NA	NA

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

Definitions:
mg/L - milligrams per liter.
NA - Not analyzed.
"--" - No regulatory criteria exists for respective analyte.

Table B12
Emerging Contaminant Analytical Results for 2021 Surface Water
Fort Edward Landfill, Hudson Falls, NY
NYSDEC Site # 558001

Location	NYSDEC Class GA Standard	USEPA Lifetime Health Advisory	Unnamed Pond	Polishing Pond Influent	DUP - Polishing Pond Influent	Polishing Pond Effluent	GFFC1	GFFC2	GFFC3
Sample Date			5/20/2021	5/18/2021	5/18/2021	5/20/2021	5/20/2021	5/20/2021	5/20/2021
Perfluorinated Alkyl Substance (ng/L)									
Perfluorobutanoic acid (PFBA)	100	--	16.8 B	8.42 B	8.11 B	9.38 B	1.28 JB	1.1 JB	1.05 JB
Perfluoropentanoic acid (PFPeA)	100	--	23.7	10.1	9.67	12.7	0.53 J	0.61 J	1.69 U
Perfluorobutanesulfonic acid (PFBS)	100	--	2.95 B	1.98 B	1.82 B	1.78 B	0.42 JB	0.55 JB	0.49 JB
Perfluorohexanesulfonic acid (PFHxS)	100	--	7.95 B	2.14	1.78	1.84	0.4 JB	0.33 JB	0.34 JB
Perfluorohexanoic acid (PFHxA)	100	--	40 B	13.2	13.6	15.8	0.61 JB	0.44 JB	0.39 JB
Perfluoroheptanesulfonic acid (PFHpS)	100	--	0.63 JB	0.34 J	1.66 U	1.66 U	1.73 U	1.62 U	1.69 U
Perfluoroheptanoic acid (PFHpA)	100	--	19.7 B	6.01 B	5.96 B	6.85 B	0.42 JB	0.39 JB	0.35 JB
Perfluorooctanoic acid (PFOA)	10	70	87.9	22.4	21.9	24	0.96 J	0.85 J	0.52 J
Perfluorooctanesulfonic acid (PFOS)	10	70	28.7 B	3.57 B	3.79 B	4.13 B	0.64 JB	0.72 JB	0.57 JB
Perfluorononanoic acid (PFNA)	100	--	0.74 JB	0.61 J	0.33 J	0.6 J	1.73 U	1.62 U	1.69 U
Perfluorodecanoic acid (PFDA)	100	--	1.63 U	0.32 JB	1.66 U	1.66 U	1.73 U	1.62 U	1.69 U
Perfluoroundecanoic acid (PFUnA)	100	--	1.63 U	0.3 J	1.66 U	1.66 U	1.73 U	1.62 U	1.69 U
Perfluorododecanoic acid (PFDoA)	100	--	1.63 U	1.61 U	1.66 U	1.66 U	1.73 U	1.62 U	1.69 U
Perfluorotridecanoic acid (PFTriA)	100	--	1.63 U	1.61 U	1.66 U	1.66 U	1.73 U	1.62 U	1.69 U
Perfluorotetradecaoic acid (PFTea)	100	--	1.63 U	1.61 U	1.66 U	1.66 U	1.73 U	1.62 U	1.69 U
Perfluorodecanesulfonic acid (PFDS)	100	--	1.63	0.31 J	1.66 U	1.66 U	1.73 U	1.62 U	1.69 U
Perfluorooctanesulfonamide (FOSA)	100	--	0.58 J	1.61 U	1.66 U	1.66 U	1.73 U	1.62 U	1.69 U
N-Methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	100	--	4.08 U	4.03 U	4.15 U	4.15 U	4.31 U	4.06 U	4.23 U
N-Ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	100	--	8.16	4.03 U	4.15 U	4.15 U	4.31 U	4.06 U	4.23 U
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2)	100	--	2.08 J	4.03 U	4.15 U	4.15 U	4.31 U	4.06 U	4.23 U
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2)	100	--	1.63 U	1.61 U	1.66 U	1.66 U	1.73 U	1.62 U	1.69 U
Total PFOA + PFOS	10	70	116.6	25.97	25.69	28.13	1.6	1.57	1.09
Total PFAS	500	--	241.52	69.7	66.96	77.08	5.26	4.99	3.71
1,4-Dioxane (µg/L)									
1,4-Dioxane	1.0	--	10 EB	2.3 B	2.6 EB	2.7 EB	1.0 U	1.1 U	1.1 U

Notes:
Constitutents detected above the New York State Department of Environmental Conservation (NYSDEC) Groundwater Standard and Guidance Value (Class GA Standard) are highlighted in yellow.
Constitutents detected above the United States Environmental Protection Agency (USEPA) Lifetime Health Advisory are highlighted in orange.

Definitions:
B - Compound was found in the blank and sample.
E - Compound concentration exceeds the upper calibration level of the instrument.
J - The concentration is an approximate value.
µg/L - micrograms per liter.
ng/L - nanograms per liter.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
"--" - No regulatory criteria exists for respective analyte.

Table B13
Volatile Organic Compound Analytical Results for 2021 Sediment
Fort Edward Landfill, Hudson Falls, NY
NYSDEC Site # 558001

ARCADIS Design & Consultancy for natural and built assets

Location	NYSDEC Freshwater SGVs Class A	NYSDEC Freshwater SGVs Class C	NYSDEC Wildlife BSGV	Unnamed Pond	Polishing Pond Influent	DUP-Polishing Pond Influent	Polishing Pond Effluent	GFFC1	GFFC2	GFFC3
Sample Date				5/20/2021	5/18/2021	5/18/2021	5/18/2021	5/20/2021	5/20/2021	5/20/2021
Volatile Organic Compounds (mg/Kg)										
Acetone	--	--	--	0.024 J	0.08	0.029 J	0.033 J	0.028 J	0.013 J	0.12
Benzene	0.53	1.9	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
Bromodichloromethane	--	--	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
Bromoform	--	--	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
Bromomethane	--	--	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
2-Butanone (MEK)	--	--	--	0.043 U	0.017 J	0.036 U	0.036 U	0.042 U	0.036 U	0.028 J
Carbon Disufide	--	--	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
Carbon Tetrachloride	1.07	9.6	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
Chlorobenzene	0.2	1.7	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
Chlorodibromomethane	--	--	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
Chloroethane	--	--	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
Chloroform	--	--	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
Chloromethane	--	--	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
1,2-Dibromoethane (EDB)	--	--	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
1,2-Dichlorobenzene	0.28	2.5	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
1,3-Dichlorobenzene	1.8	7.1	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
1,4-Dichlorobenzene	0.72	3.3	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
Dichlorodifluoromethane (Freon 12)	--	--	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
1,1-Dichloroethane	--	--	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
1,2-Dichloroethane	--	--	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
1,1-Dichloroethylene	0.52	4.7	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
cis-1,2-Dichloroethylene	--	--	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
trans-1,2-Dichloroethylene	1.2	11	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
1,2-Dichloropropane	--	--	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
1,3-Dichloropropane	--	--	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
2,2-Dichloropropane	--	--	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
1,1-Dichloropropene	--	--	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
cis-1,3-Dichloropropene	--	--	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
trans-1,3-Dichloropropene	--	--	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
Ethylbenzene	0.43	3.7	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
2-Hexanone (MBK)	--	--	--	0.043 U	0.058 U	0.036 U	0.036 U	0.042 U	0.036 U	0.049 U
Isopropylbenzene (Cumene)	0.21	1.8	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
Methyl Acetate	--	--	--	0.043 U	0.058 U	0.036 U	0.036 U	0.042 U	0.036 U	0.049 U
Methyl tert-Butyl Ether (MTBE)	--	--	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
Methyl Cyclohexane	--	--	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
Methylene Chloride	--	--	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
4-Methyl-2-pentanone (MIBK)	--	--	--	0.043 U	0.058 U	0.036 U	0.036 U	0.042 U	0.036 U	0.049 U
Styrene	--	--	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
1,1,1,2-Tetrachloroethane	9.0	18	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
1,1,2,2-Tetrachloroethane	2.8	5.4	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
Tetrachloroethylene	16	57	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
Toluene	0.93	4.5	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
1,2,3-Trichlorobenzene	0.23	2.8	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
1,2,4-Trichlorobenzene	35	55	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
1,3,5-Trichlorobenzene	--	--	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
1,1,1-Trichloroethane	1.9	3.5	0.25	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
1,1,2-Trichloroethane	1.9	3.5	0.25	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
Trichloroethylene	1.8	8.6	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
Trichlorofluoromethane (Freon 11)	--	--	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
1,2,3-Trichloropropane	--	--	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	--	--	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
1,2,4-Trimethylbenzene	3.4	30	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
1,3,5-Trimethylbenzene	--	--	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
Vinyl Chloride	--	--	--	0.0085 U	0.012 U	0.0071 U	0.0071 U	0.0083 U	0.0072 U	0.0098 U
Total Xylenes	0.59	5.2	--	0.017 U	0.017 U	0.036 U	0.036 U	0.017 U	0.014 U	0.02 U
Total VOCs	--	--	--	0.024	0.097	0.029	0.033	0.028	0.013	0.148

Notes:
Sediment Guidance Values (SGVs) are normalized to 2% total organic carbon (TOC) since sample specific TOC results are not available, as presented in New York State Department of Environmental Conservation (NYSDEC) 2014.
All sediment samples for which SGVs are available are classified as Class A sediment.
The sum of trichloroethane isomers were used for the SGVs for each isomer (1,1,1-Trichloroethane and 1,1,2-Trichloroethane).
Concentrations detected above the NYSDEC bioaccumulation-based sediment guidance value (BSGV) for wildlife are highlighted in yellow.

Definitions:
J - The concentration is an approximate value.
mg/Kg - milligrams per kilogram.
ND - Non detect.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
"--" - No regulatory criteria exists for respective analyte.

Table B14
Polychlorinated Biphenyl Analytical Results for 2021 Sediment
Fort Edward Landfill, Hudson Falls, NY
NYSDEC Site # 558001

Location	NYSDEC Freshwater SGVs Class A	NYSDEC Freshwater SGVs Class C	NYSDEC Wildlife BSGV	Unnamed Pond	Polishing Pond Influent	DUP - Polishing Pond Influent	Polishing Pond Effluent	GFFC1	GFFC2	GFFC3
Sample Date				5/20/2021	5/18/2021	5/18/2021	5/18/2021	5/20/2021	5/20/2021	5/20/2021
Polychlorinated Biphenyls (mg/Kg)										
PCB-1016	--	--	--	0.33 U	0.46 U	0.33 U	0.34 U	0.32 U	0.3 U	0.35 U
PCB-1221	--	--	--	0.33 U	0.46 U	0.33 U	0.34 U	0.32 U	0.3 U	0.35 U
PCB-1232	--	--	--	0.33 U	0.46 U	0.33 U	0.34 U	0.32 U	0.3 U	0.35 U
PCB-1242	--	--	--	0.33 U	0.46 U	0.33 U	0.34 U	0.32 U	0.3 U	0.35 U
PCB-1248	--	--	--	0.33 U	0.46 U	0.33 U	0.34 U	0.32 U	0.3 U	0.35 U
PCB-1254	--	--	--	0.33 U	0.46 U	0.33 U	0.34 U	0.32 U	0.3 U	0.35 U
PCB-1260	--	--	--	0.33 U	0.46 U	0.33 U	0.34 U	0.32 U	0.3 U	0.35 U
PCB-1262	--	--	--	0.33 U	0.46 U	0.33 U	0.34 U	0.32 U	0.3 U	0.35 U
PCB-1268	--	--	--	0.33 U	0.46 U	0.33 U	0.34 U	0.32 U	0.3 U	0.35 U
Total PCBs	0.1	1.0	0.0041	ND	ND	ND	ND	ND	ND	ND

Notes:
All sediment samples for which Sediment Guidance Values (SGVs) are available are classified as Class A sediment.
Concentrations detected above the NYSDEC bioaccumulation-based sediment guidance value (BSGV) for wildlife are highlighted in yellow.

Definitions:
mg/Kg - milligrams per kilogram.
ND - Non detect.
SGV - sediment guidance value.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
"--" - No regulatory criteria exists for respective analyte.

Table B15
Metal Analytical Results for 2021 Sediment
Fort Edward Landfill, Hudson Falls, NY
NYSDEC Site # 558001

Location	NYSDEC Freshwater SGVs Class A	NYSDEC Freshwater SGVs Class C	Unnamed Pond	Polishing Pond Influent	DUP-Polishing Pond Influent	Polishing Pond Effluent	GFFC1	GFFC2	GFFC3
Sample Date			5/20/2021	5/18/2021	5/18/2021	5/18/2021	5/20/2021	5/20/2021	5/20/2021
Metals (mg/Kg)									
Aluminum	--	--	5,230	5,070	3,180	17,900	2,580	8,370	14,000
Antimony	--	--	26.4 U	36.7 U	28.6 U	22 U	25.2 U	22.7 U	30.6 U
Arsenic	10	33	1.3 J	47.3	23.7	3.0	1.8 J	4.5	12.2
Barium	--	--	24.6	264	133	120	27	112	246
Beryllium	--	--	0.21 J	0.45 J	0.23 J	0.75	0.15 J	0.44	0.7
Cadmium	1.0	5.0	0.055 J	0.086 J	0.069 J	0.14 J	0.34 U	0.27 J	0.6
Calcium	--	--	7,230	9,060	5,570	7,530	1,640	7,640	13,300
Chromium	43	110	5.8	7.8	4.2	30.9	3.9	15.8	28.7
Cobalt	--	--	2.8	10.3	4.9	10.7	1.7	9.8	20.3
Copper	32	150	2.0	9.4	4.4	17.3	6.7	9.9	18.1
Iron	--	--	10,600	126,000	66,400	22,100	4,370	22,300	46,400
Lead	36	130	3.7	19.7	9.9	15.4	74.8	23.6	40.1
Magnesium	--	--	1,020	1,910	1,200	5,350	691	3,250	5,810
Manganese	--	--	92 B	2,920 B	1,550 B	572 B	94.8 B	3,060 B	8,480 B
Mercury	0.2	1.0	0.032 U	0.054 U	0.023 U	0.023 J	0.49	0.067	0.17
Nickel	23	49	3.0 J	10.8 J	6.4 J	22.5	2.3 J	13.4	25.9
Potassium	--	--	382	576	5.6 J	3,150	407	1,490	3,040
Selenium	--	--	7.0 U	11.4	4.3 U	1.3 J	6.7 U	1.6 J	4.4 J
Silver	1.0	2.2	1.1 U	1.5 U	4.3 U	0.88 U	1.0 U	0.77 J	1.4
Sodium	--	--	260 B	293 JB	198 JB	289 B	203 JB	273 B	391 B
Thallium	--	--	10.6 U	14.7 U	11.4 U	8.8 U	10.1 U	0.79 J	3.4 J
Vanadium	--	--	15.4	33.1	19.2	38.8	7.0	21.7	34.4
Zinc	120	460	12.7	69.9	40	51.8	19.3	74.8	139

Notes:
All detected analytical sediment sample data for which Sediment Guidance Values (SGVs) are available are classified as Class A, B, or C sediment in accordance with New York State Department of Environmental Conservation (NYSDEC) 2014 and indicated by shading.

Concentrations detected between the NYSDEC Class A and Class C SGVs are identified as Class B sediments and are highlighted in yellow.
Concentrations detected above NYSDEC Class C SGVs are highlighted in orange.

Definitions:
B - Compound was found in the blank sample.
J - The concentration is an approximate value.
mg/Kg - milligrams per kilogram.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
"--" - No regulatory criteria exists for respective analyte.

Table B16
Perfluorinated Alkyl Substances Analytical Results for 2021 Sediment
Fort Edward Landfill, Hudson Falls, NY
NYSDEC Site # 558001

Location	Unnamed Pond	Polishing Pond Influent	DUP-Polishing Pond Influent	Polishing Pond Effluent	GFFC1	GFFC2	GFFC3
Sample Date	**5/20/2021**	**5/18/2021**	**5/18/2021**	**5/18/2021**	**5/20/2021**	**5/20/2021**	**5/20/2021**
Perfluorinated Alkyl Substances (µg/Kg)							
Perfluorobutanoic acid (PFBA)	0.41 J	0.47 U	0.35 U	0.29 U	0.34 U	0.29 U	0.4 U
Perfluoropentanoic acid (PFPeA)	0.11 J	0.47 U	0.35 U	0.068 J	0.34 U	0.29 U	0.4 U
Perfluorobutanesulfonic acid (PFBS)	0.048 JB	0.04 JB	0.35 U	0.02 JB	0.34 U	0.29 U	0.031 JB
Perfluorohexanesulfonic acid (PFHxS)	0.12 J	0.065 JB	0.034 JB	0.031 JB	0.023 J	0.29 U	0.18 J
Perfluorohexanoic acid (PFHxA)	0.19 J	0.13 J	0.046 J	0.081 J	0.34 U	0.29 U	0.11 J
Perfluoroheptanesulfonic acid (PFHpS)	0.35 U	0.47 U	0.35 U	0.29 U	0.34 U	0.29 U	0.4 U
Perfluoroheptanoic acid (PFHpA)	0.064 J	0.053 J	0.35 U	0.29 U	0.34 U	0.29 U	0.043 J
Perfluorooctanoic acid (PFOA)	0.37	0.2 J	0.055 J	0.1 J	0.34 U	0.04 J	0.081 J
Perfluorooctanesulfonic acid (PFOS)	1.68	0.73 B	0.21 JB	0.18 JB	0.08 J	0.96	0.43
Perfluorononanoic acid (PFNA)	0.35 U	0.47 U	0.35 U	0.077 J	0.34 U	0.29 U	0.4 U
Perfluorodecanoic acid (PFDA)	0.024 J	0.04 J	0.35 U	0.049 J	0.34 U	0.29 U	0.4 U
Perfluoroundecanoic acid (PFUnA)	0.04 J	0.2 J	0.044 J	0.065 J	0.34 U	0.03 J	0.075 J
Perfluorododecanoic acid (PFDoA)	0.039 J	0.091 J	0.35 U	0.29 U	0.34 U	0.046 J	0.1 J
Perfluorotridecanoic acid (PFTriA)	0.032 J	0.12 J	0.35 U	0.022 J	0.34 U	0.043 J	0.1 J
Perfluorotetradecaoic acid (PFTea)	0.35 U	0.056 J	0.35 U	0.29 U	0.34 U	0.041 J	0.069 J
Perfluorodecanesulfonic acid (PFDS)	0.35 U	0.47 U	0.35 U	0.29 U	0.34 U	0.025 J	0.056 J
Perfluorooctanesulfonamide (FOSA)	0.14 J	0.47 U	0.35 U	0.29 U	0.34 U	0.29 U	0.4 U
N-Methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.074 J	4.68 U	3.52 U	2.93 U	3.36 U	0.068 J	0.16 J
N-Ethylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.38 J	4.68 U	3.52 U	2.93 U	3.36 U	2.92 U	0.15 J
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2)	3.51 U	4.68 U	3.52 U	2.93 U	3.36 U	2.92 U	3.96 U
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2)	3.51 U	4.68 U	3.52 U	2.93 U	3.36 U	2.92 U	3.96 U
Total PFOA + PFOS	2.05	0.93	0.265	0.28	0.08	1.0	0.511
Total PFAS	4.721	1.725	0.389	0.693	0.103	1.253	1.585

Notes:
There are currently no regulatory standards or guidance values for Perfluorinated Alkyl Substances in sediment.

Definitions:
B - Compound was found in the blank and sample.
J - The concentration is an approximate value.
µg/Kg - micrograms per kilogram.
NA - Not analyzed.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
"--" - No regulatory criteria exists for respective analyte.

Table B17
Volatile Organic Compound Analytical Results for 2021 Soil
Fort Edward Landfill, Hudson Falls, NY
NYSDEC Site # 558001

Location	NYSDEC 6 NYCRR Part 375 Commerical Use	Cell 1	Cell 2	Cell 3
Sample Date		5/18/2021	5/18/2021	5/18/2021
Volatile Organic Compounds (mg/Kg)				
Acetone	500	0.031 U	0.32 J	1.0
Benzene	44	0.0061 U	0.14 U	0.15 U
Bromodichloromethane	--	0.0061 U	0.14 U	0.15 U
Bromoform	--	0.0061 U	0.14 U	0.15 U
Bromomethane	--	0.0061 U	0.14 U	0.15 U
2-Butanone (MEK)	500	0.031 U	0.68 U	0.23 J
Carbon Disufide	--	0.0061 U	0.14 U	0.15 U
Carbon Tetrachloride	22	0.0061 U	0.14 U	0.15 U
Chlorobenzene	500	0.0061 U	0.14 U	0.15 U
Chlorodibromomethane	--	0.0061 U	0.14 U	0.15 U
Chloroethane	--	0.0061 U	0.14 U	0.15 U
Chloroform	350	0.0061 U	0.14 U	0.15 U
Chloromethane		0.0061 U	0.14 U	0.15 U
1,2-Dibromoethane (EDB)	--	0.0061 U	0.14 U	0.15 U
1,2-Dichlorobenzene	500	0.0061 U	0.14 U	0.15 U
1,3-Dichlorobenzene	280	0.0061 U	0.14 U	0.15 U
1,4-Dichlorobenzene	130	0.0061 U	0.14 U	0.15 U
Dichlorodifluoromethane (Freon 12)	--	0.0061 U	0.14 U	0.15 U
1,1-Dichloroethane	240	0.0061 U	0.14 U	0.15 U
1,2-Dichloroethane	30	0.0061 U	0.14 U	0.15 U
1,1-Dichloroethylene	500	0.0061 U	0.14 U	0.15 U
cis-1,2-Dichloroethylene	500	0.0061 U	0.14 U	0.15 U
trans-1,2-Dichloroethylene	500	0.0061 U	0.14 U	0.15 U
1,2-Dichloropropane	--	0.0061 U	0.14 U	0.15 U
1,3-Dichloropropane	--	0.0061 U	0.14 U	0.15 U
2,2-Dichloropropane	--	0.0061 U	0.14 U	0.15 U
1,1-Dichloropropene	--	0.0061 U	0.14 U	0.15 U
cis-1,3-Dichloropropene	--	0.0061 U	0.14 U	0.15 U
trans-1,3-Dichloropropene	--	0.0061 U	0.14 U	0.15 U
Ethylbenzene	390	0.0061 U	0.14 U	0.15 U
2-Hexanone (MBK)	--	0.031 U	0.68 U	0.73 U
Isopropylbenzene (Cumene)	--	0.0061 U	0.14 U	0.15 U

Notes:
Concentrations detected above the New York State Department of Environmental Conservation (NYSDEC) 6 New York Codes, Rules, and Regulations (NYCRR) Part 375 Commerical use soil cleanup objective are highlighted in yellow.

Definitions:
J - The concentration is an approximate value.
mg/Kg - milligrams per kilogram.
ND - Non detect.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
"--" - No regulatory criteria exists for respective analyte.

Table B17
Volatile Organic Compound Analytical Results for 2021 Soil
Fort Edward Landfill, Hudson Falls, NY
NYSDEC Site # 558001

Location	NYSDEC 6 NYCRR Part 375 Commerical Use	Cell 1	Cell 2	Cell 3
Sample Date		5/18/2021	5/18/2021	5/18/2021
Volatile Organic Compounds (mg/Kg)				
Methyl Acetate	--	0.031 U	0.68 U	0.73 U
Methyl tert-Butyl Ether (MTBE)	500	0.0061 U	0.14 U	0.15 U
Methyl Cyclohexane	--	0.0061 U	0.14 U	0.15 U
Methylene Chloride	500	0.0061 U	0.14 U	0.15 U
4-Methyl-2-pentanone (MIBK)	--	0.031 U	0.68 U	0.73 U
Styrene	--	0.0061 U	0.14 U	0.15 U
1,1,1,2-Tetrachloroethane	--	0.0061 U	0.14 U	0.15 U
1,1,2,2-Tetrachloroethane	--	0.0061 U	0.14 U	0.15 U
Tetrachloroethylene	150	0.0061 U	0.14 U	0.15 U
Toluene	500	0.0061 U	0.14 U	0.15 U
1,2,3-Trichlorobenzene	--	0.0061 U	0.14 U	0.15 U
1,2,4-Trichlorobenzene	--	0.0061 U	0.14 U	0.15 U
1,3,5-Trichlorobenzene	--	0.0061 U	0.14 U	0.15 U
1,1,1-Trichloroethane	500	0.0061 U	0.14 U	0.15 U
1,1,2-Trichloroethane	--	0.0061 U	0.14 U	0.15 U
Trichloroethylene	200	0.0061 U	0.14 U	0.15 U
Trichlorofluoromethane (Freon 11)	--	0.0061 U	0.14 U	0.15 U
1,2,3-Trichloropropane	--	0.0061 U	0.14 U	0.15 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	--	0.0061 U	0.14 U	0.15 U
1,2,4-Trimethylbenzene	190	0.0061 U	0.14 U	0.15 U
1,3,5-Trimethylbenzene	190	0.0061 U	0.14 U	0.15 U
Vinyl Chloride	13	0.0061 U	0.14 U	0.15 U
Total Xylenes	500	0.012 U	0.27 U	0.29 U
Total VOCs	--	ND	0.32	1.23

Notes:
Concentrations detected above the New York State Department of Environmental Conservation (NYSDEC) 6 New York Codes, Rules, and Regulations (NYCRR) Part 375 Commerical use soil cleanup objective are highlighted in yellow.

Definitions:
J - The concentration is an approximate value.
mg/Kg - milligrams per kilogram.
ND - Non detect.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
"--" - No regulatory criteria exists for respective analyte.

Table B18
Polychlorinated Biphenyl Analytical Results for 2021 Soil
Fort Edward Landfill, Hudson Falls, NY
NYSDEC Site # 558001

Location	NYSDEC 6 NYCRR Part 375 Commerical Use	Cell 1	Cell 2	Cell 3
Sample Date		5/18/2021	5/18/2021	5/18/2021
Polychlorinated Biphenyls (mg/Kg)				
PCB-1016	--	0.27 U	1.5 U	4.0
PCB-1221	--	0.27 U	1.5 U	1.4 U
PCB-1232	--	0.27 U	1.5 U	1.4 U
PCB-1242	--	0.27 U	1.5 U	1.4 U
PCB-1248	--	0.27 U	1.5 U	1.4 U
PCB-1254	--	0.27 U	1.5 U	1.4 U
PCB-1260	--	0.27 U	1.5 U	1.4 U
PCB-1262	--	0.27 U	1.5 U	1.4 U
PCB-1268	--	0.27 U	1.5 U	1.4 U
Total PCBs	1.0	ND	ND	4.0

Notes:
Concentrations detected above the New York State Department of Environmental Conservation (NYSDEC) 6 New York Codes, Rules, and Regulations (NYCRR) Part 375 Commerical use soil cleanup objective are highlighted in yellow.

Definitions:
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
ND - Non detect.
mg/Kg - milligrams per kilogram.
"--" - No regulatory criteria exists for respective analyte.

Table B19
Metal Analytical Results for 2021 Soil
Fort Edward Landfill, Hudson Falls, NY
NYSDEC Site # 558001

ARCADIS Design & Consultancy for natural and built assets

Location	NYSDEC 6 NYCRR Part 375 Commercial Use	Cell 1	Cell 2	Cell 3
Sample Date		5/18/2021	5/18/2021	5/18/2021
Metals (mg/Kg)				
Aluminum	--	2,250	13,900	14,400
Antimony	--	18.1 U	97.5 U	98.1 U
Arsenic	16	1.3 J	9.7 J	5.3 J
Barium	400	18.4	132	101
Beryllium	590	0.11 J	0.8 J	0.56 J
Cadmium	9.3	0.15 J	0.37 J	0.2 J
Calcium	--	14,600	16,600	11,500
Chromium	1,500	4.3	20.6	18.4
Cobalt	--	2.4	13.2	10.2
Copper	270	11.7	24.5	23.6
Iron	--	4,990	14,400	23,900
Lead	1,000	3.3	10.9	11.5
Magnesium	--	6,910	4,120	2,430
Manganese	10,000	207 B	1,280 B	750 B
Mercury	2.8	0.023 J	0.054 J	0.14 U
Nickel	310	5.6 J	21.9 J	16.9 J
Potassium	--	548	2,380	1,950
Selenium	1,500	4.8 U	26 U	26.1 U
Silver	1,500	0.73 U	3.9 U	3.9 U
Sodium	--	69.1 JB	583 JB	562 JB
Thallium	--	7.3 U	39 U	39.2 U
Vanadium	--	6.5	30.8	24.2
Zinc	10,000	22.6	60.8	46.3

Notes:
Concentrations detected above the New York State Department of Environmental Conservation (NYSDEC) 6 New York Codes, Rules, and Regulations (NYCRR) Part 375 Commerical use soil cleanup objective are highlighted in yellow.

Definitions:
B - Compound was found in the blank sample.
J - The concentration is an approximate value.
mg/Kg - milligrams per kilogram.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
"--" - No regulatory criteria exists for respective analyte.

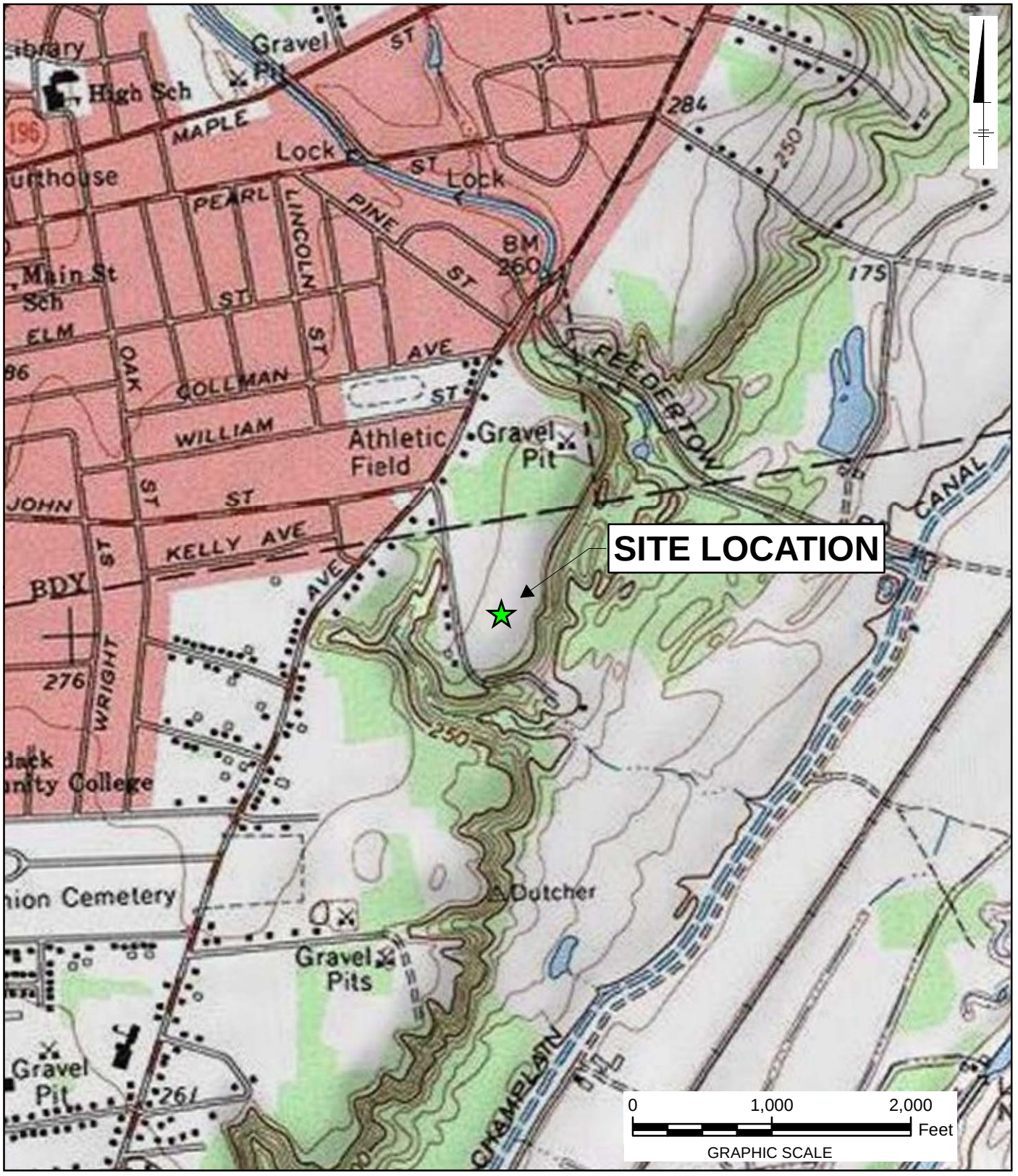
Table B20
Perfluorinated Alkyl Substances Analytical Results for 2021 Soil
Fort Edward Landfill, Hudson Falls, NY
NYSDEC Site # 558001

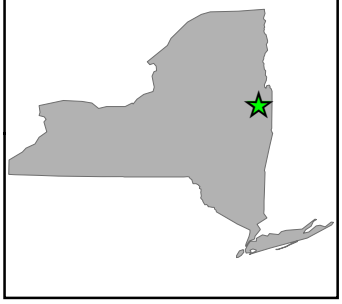
ARCADIS Design & Consultancy for natural and built assets

Location	NYSDEC Commerical Use Soil Guidance Value	Cell 1	Cell 2	Cell 3
Sample Date		**5/18/2021**	**5/18/2021**	**5/18/2021**
Perfluorinated Alkyl Substances (µg/Kg)				
Perfluorobutanoic acid (PFBA)	--	0.24 U	1.27 U	1.25 U
Perfluoropentanoic acid (PFPeA)	--	0.07 J	1.27 U	0.28 J
Perfluorobutanesulfonic acid (PFBS)	--	0.011 JB	0.092 JB	0.072 JB
Perfluorohexanesulfonic acid (PFHxS)	--	0.04 JB	0.24 JB	0.2 JB
Perfluorohexanoic acid (PFHxA)	--	0.24 U	0.41 J	0.35 J
Perfluoroheptanesulfonic acid (PFHpS)	--	0.24 U	1.27 U	1.25 U
Perfluoroheptanoic acid (PFHpA)	--	0.029 J	0.26 J	0.13 J
Perfluorooctanoic acid (PFOA)	500	0.058 J	1.25 J	0.64 J
Perfluorooctanesulfonic acid (PFOS)	440	0.59 B	2.43 B	4.18 B
Perfluorononanoic acid (PFNA)	--	0.071 J	0.22 J	1.25 U
Perfluorodecanoic acid (PFDA)	--	0.067 J	0.087 J	0.11 J
Perfluoroundecanoic acid (PFUnA)	--	0.15 J	1.27 U	0.21 J
Perfluorododecanoic acid (PFDoA)	--	0.065 J	1.27 U	0.13 J
Perfluorotridecanoic acid (PFTriA)	--	0.054 J	1.27 U	0.098 J
Perfluorotetradecaoic acid (PFTea)	--	0.031 J	1.27 U	1.25 U
Perfluorodecanesulfonic acid (PFDS)	--	0.24 U	1.27 U	1.25 U
Perfluorooctanesulfonamide (FOSA)	--	0.24 U	1.27 U	0.12 J
N-Methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	--	2.38 U	12.7 U	12.5 U
N-Ethylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	--	2.38 U	12.7 U	2.14 J
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2)	--	2.38 U	12.7 U	12.5 U
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2)	--	2.38 U	12.7 U	12.5 U
Total PFOA + PFOS	--	0.648	3.68	4.82
Total PFAS	--	1.236	4.989	8.66

Notes:
Concentrations detected above the New York State Department of Environmental Conservation (NYSDEC) Commerical Use soil guidance values are highlighted in yellow.

Definitions:
B - Compound was found in the blank and sample.
J - The concentration is an approximate value.
µg/Kg - micrograms per kilogram.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
"--" - No regulatory criteria exists for respective analyte.





NOTE:

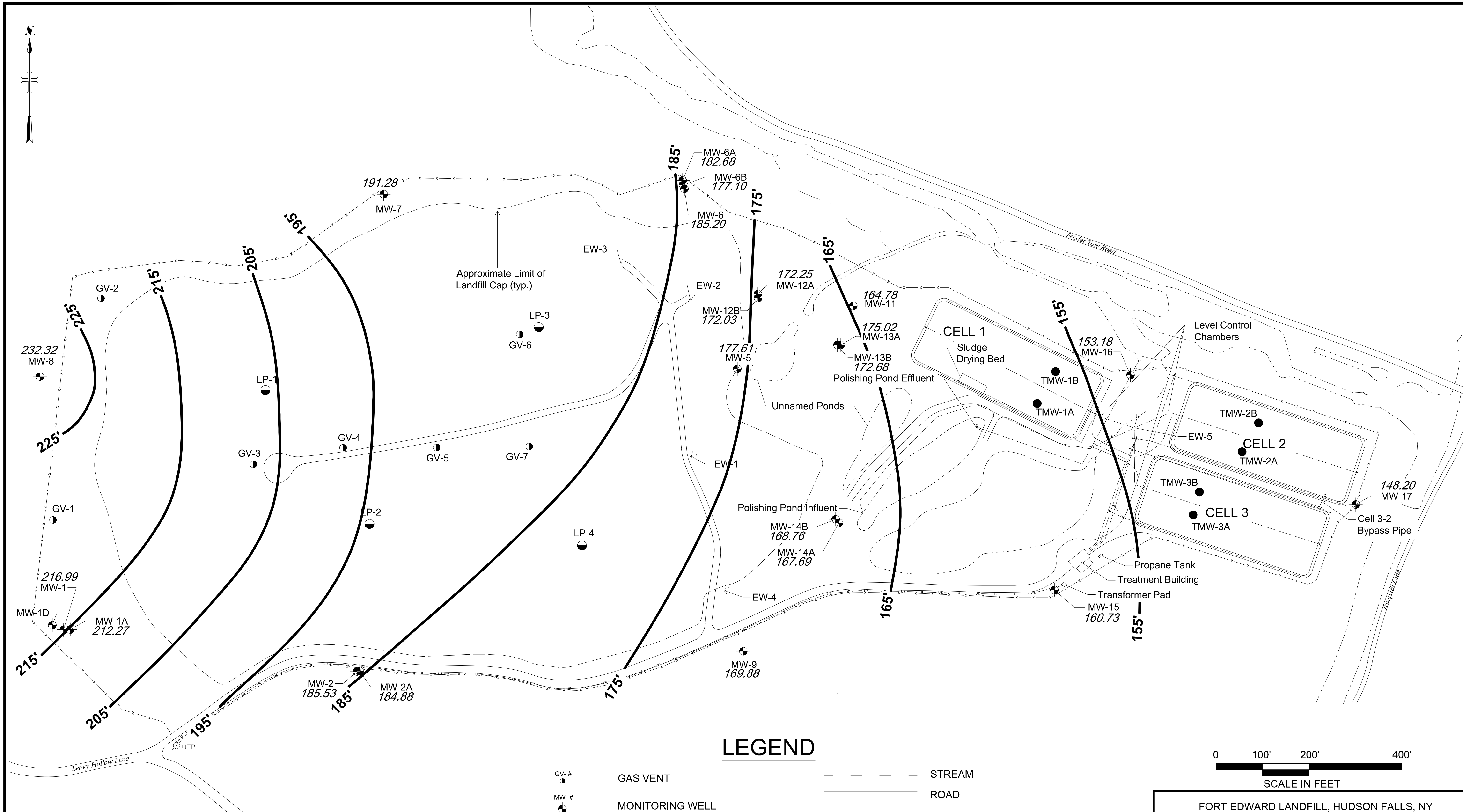
1. USGS QUADRANGLE INFORMATION
   QUAD ID: 43073-C5
   NAME: HUDSON FALLS, NEW YORK
   DATE PUB: 1968

FORT EDWARD LANDFILL, HUDSON FALLS, NY
NYSDEC SITE 558001
GROUNDWATER MONITORING REPORT

SITE LOCATION MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE B1


N
MW-6A
182.68
MW-6B
177.10
MW-6
185.20
191.28
MW-7
Approximate Limit of
Landfill Cap (typ.)
EW-3
EW-2
172.25
MW-12A
MW-12B
172.03
164.78
MW-11
175.02
MW-13A
MW-13B
172.68
177.61
MW-5
Polishing Pond Effluent
Unnamed Ponds
CELL 1
Sludge
Drying Bed
TMW-1B
TMW-1A
153.18
MW-16
Level Control
Chambers
TMW-2B
CELL 2
TMW-2A
EW-5
TMW-3B
CELL 3
TMW-3A
148.20
MW-17
Cell 3-2
Bypass Pipe
Propane Tank
Treatment Building
Transformer Pad
MW-15
160.73
Feeder Tow Road
Towpath Lane
232.32
MW-8
GV-2
LP-3
GV-6
LP-1
GV-4
GV-3
GV-5
GV-7
EW-1
GV-1
LP-2
LP-4
Polishing Pond Influent
MW-14B
168.76
MW-14A
167.69
EW-4
216.99
MW-1
MW-1D
MW-1A
212.27
MW-2
185.53
MW-2A
184.88
MW-9
169.88
UTP
Leavy Hollow Lane
225'
215'
205'
195'
185'
175'
165'
155'
LEGEND
GAS VENT
MONITORING WELL
PIEZOMETER
UTILITY POLE
155' POTENTIOMETRIC CONTOUR
148.20 GROUNDWATER ELEVATION (FEET A.M.S.L.)
STREAM
ROAD
EDGE OF POND
UNDERGROUND TREATMENT PIPING
UNDERGROUND ELECTRIC
FENCE
EW-# EXTRACTION WELL
0 100' 200' 400'
SCALE IN FEET

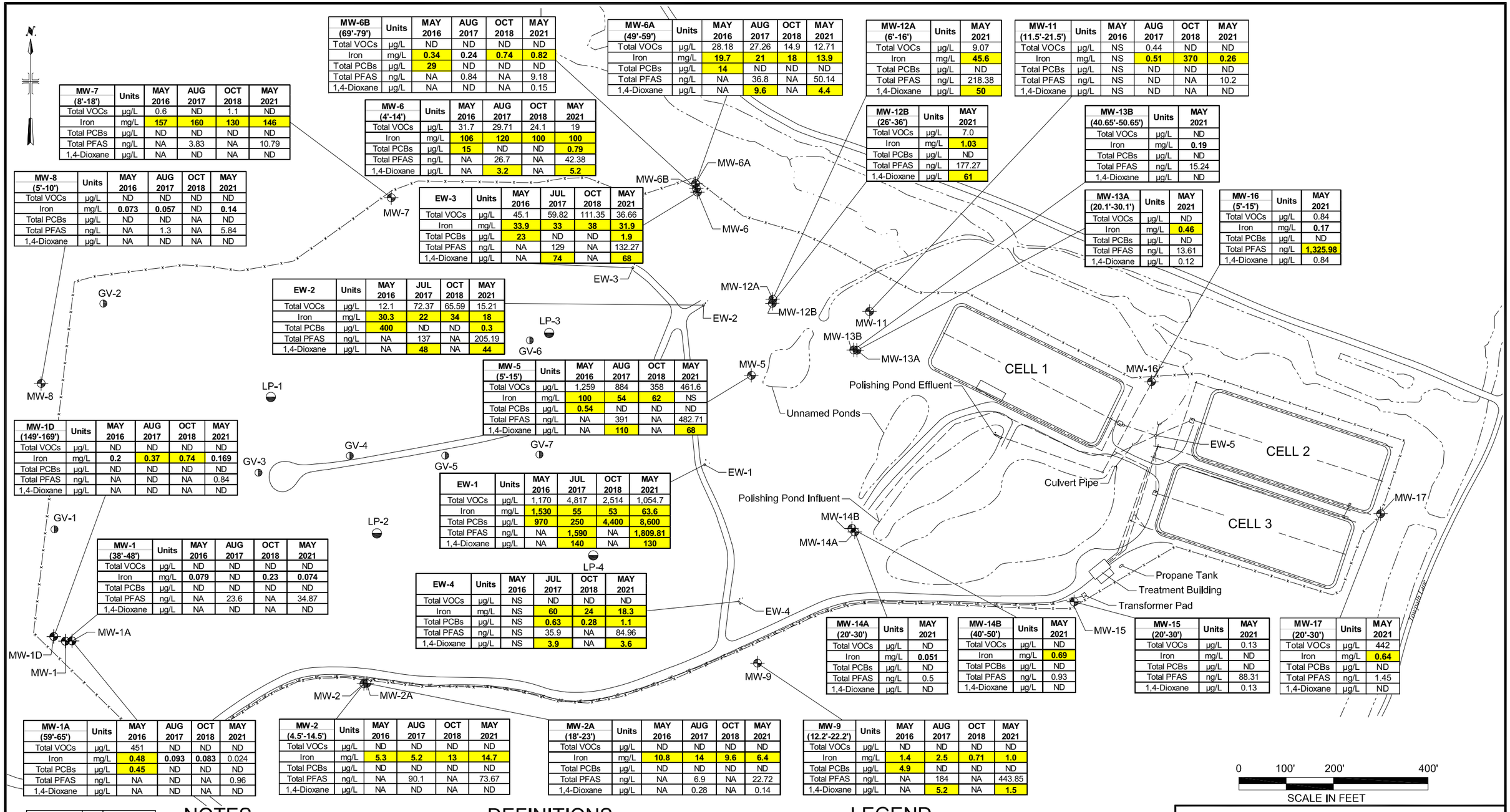
MAP BASED ON SURVEY PERFORMED BY DARRAH LAND SURVEYING, PLLC, 4/2017, 12/2019, AND 2/2021.
ORTHOIMAGERY FROM NYS ORTHOIMAGERY APPLICATION ONLINE DATED 2013.

FORT EDWARD LANDFILL, HUDSON FALLS, NY
NYSDEC SITE 558001
GROUNDWATER MONITORING REPORT

POTENTIOMETRIC CONTOURS
MAY 2021

ARCADIS

FIGURE
B2



MW-7 (8'-18')	Units	MAY 2016	AUG 2017	OCT 2018	MAY 2021
Total VOCs	µg/L	0.6	ND	1.1	ND
Iron	mg/L	**157**	**160**	**130**	**146**
Total PCBs	µg/L	ND	ND	ND	ND
Total PFAS	ng/L	NA	3.83	NA	10.79
1,4-Dioxane	µg/L	NA	ND	NA	ND

MW-6B (69'-79')	Units	MAY 2016	AUG 2017	OCT 2018	MAY 2021
Total VOCs	µg/L	ND	ND	ND	ND
Iron	mg/L	**0.34**	**0.24**	**0.74**	**0.82**
Total PCBs	µg/L	**29**	ND	ND	ND
Total PFAS	ng/L	NA	0.84	NA	9.18
1,4-Dioxane	µg/L	NA	ND	NA	0.15

MW-6A (49'-59')	Units	MAY 2016	AUG 2017	OCT 2018	MAY 2021
Total VOCs	µg/L	28.18	27.26	14.9	12.71
Iron	mg/L	**19.7**	**21**	**18**	**13.9**
Total PCBs	µg/L	**14**	ND	ND	ND
Total PFAS	ng/L	NA	36.8	NA	50.14
1,4-Dioxane	µg/L	NA	**9.6**	NA	**4.4**

MW-12A (6'-16')	Units	MAY 2021
Total VOCs	µg/L	9.07
Iron	mg/L	**45.6**
Total PCBs	µg/L	ND
Total PFAS	ng/L	218.38
1,4-Dioxane	µg/L	**50**

MW-11 (11.5'-21.5')	Units	MAY 2016	AUG 2017	OCT 2018	MAY 2021
Total VOCs	µg/L	NS	0.44	ND	ND
Iron	mg/L	NS	**0.51**	**370**	**0.26**
Total PCBs	µg/L	NS	ND	ND	ND
Total PFAS	ng/L	NS	ND	NA	10.2
1,4-Dioxane	µg/L	NS	ND	NA	ND

MW-6 (4'-14')	Units	MAY 2016	AUG 2017	OCT 2018	MAY 2021
Total VOCs	µg/L	31.7	29.71	24.1	19
Iron	mg/L	**106**	**120**	**100**	**100**
Total PCBs	µg/L	**15**	ND	ND	**0.79**
Total PFAS	ng/L	NA	26.7	NA	42.38
1,4-Dioxane	µg/L	NA	**3.2**	NA	**5.2**

MW-12B (26'-36')	Units	MAY 2021
Total VOCs	µg/L	7.0
Iron	mg/L	**1.03**
Total PCBs	µg/L	ND
Total PFAS	ng/L	177.27
1,4-Dioxane	µg/L	**61**

MW-13B (40.65'-50.65')	Units	MAY 2021
Total VOCs	µg/L	ND
Iron	mg/L	**0.19**
Total PCBs	µg/L	ND
Total PFAS	ng/L	15.24
1,4-Dioxane	µg/L	ND

MW-8 (5'-10')	Units	MAY 2016	AUG 2017	OCT 2018	MAY 2021
Total VOCs	µg/L	ND	ND	ND	ND
Iron	mg/L	**0.073**	**0.057**	ND	**0.14**
Total PCBs	µg/L	ND	ND	NA	ND
Total PFAS	ng/L	NA	1.3	NA	5.84
1,4-Dioxane	µg/L	NA	ND	NA	ND

EW-3	Units	MAY 2016	JUL 2017	OCT 2018	MAY 2021
Total VOCs	µg/L	45.1	59.82	111.35	36.66
Iron	mg/L	**33.9**	**33**	**38**	**31.9**
Total PCBs	µg/L	**23**	ND	ND	**1.9**
Total PFAS	ng/L	NA	129	NA	132.27
1,4-Dioxane	µg/L	NA	**74**	NA	**68**

MW-13A (20.1'-30.1')	Units	MAY 2021
Total VOCs	µg/L	ND
Iron	mg/L	**0.46**
Total PCBs	µg/L	ND
Total PFAS	ng/L	13.61
1,4-Dioxane	µg/L	0.12

MW-16 (5'-15')	Units	MAY 2021
Total VOCs	µg/L	0.84
Iron	mg/L	**0.17**
Total PCBs	µg/L	ND
Total PFAS	ng/L	**1,325.98**
1,4-Dioxane	µg/L	0.84

EW-2	Units	MAY 2016	JUL 2017	OCT 2018	MAY 2021
Total VOCs	µg/L	12.1	72.37	65.59	15.21
Iron	mg/L	**30.3**	**22**	**34**	**18**
Total PCBs	µg/L	**400**	ND	ND	**0.3**
Total PFAS	ng/L	NA	137	NA	205.19
1,4-Dioxane	µg/L	NA	**48**	NA	**44**

MW-5 (5'-15')	Units	MAY 2016	AUG 2017	OCT 2018	MAY 2021
Total VOCs	µg/L	1,259	884	358	461.6
Iron	mg/L	**100**	**54**	**62**	NS
Total PCBs	µg/L	**0.54**	ND	ND	ND
Total PFAS	ng/L	NA	391	NA	482.71
1,4-Dioxane	µg/L	NA	**110**	NA	**68**

MW-1D (149'-169')	Units	MAY 2016	AUG 2017	OCT 2018	MAY 2021
Total VOCs	µg/L	ND	ND	ND	ND
Iron	mg/L	**0.2**	**0.37**	**0.74**	**0.169**
Total PCBs	µg/L	ND	ND	ND	ND
Total PFAS	ng/L	NA	ND	NA	0.84
1,4-Dioxane	µg/L	NA	ND	NA	ND

EW-1	Units	MAY 2016	JUL 2017	OCT 2018	MAY 2021
Total VOCs	µg/L	1,170	4,817	2,514	1,054.7
Iron	mg/L	**1,530**	**55**	**53**	**63.6**
Total PCBs	µg/L	**970**	**250**	**4,400**	**8,600**
Total PFAS	ng/L	NA	**1,590**	NA	**1,809.81**
1,4-Dioxane	µg/L	NA	**140**	NA	**130**

MW-1 (38'-48')	Units	MAY 2016	AUG 2017	OCT 2018	MAY 2021
Total VOCs	µg/L	ND	ND	ND	ND
Iron	mg/L	**0.079**	ND	**0.23**	**0.074**
Total PCBs	µg/L	ND	ND	ND	ND
Total PFAS	ng/L	NA	23.6	NA	34.87
1,4-Dioxane	µg/L	NA	ND	NA	ND

EW-4	Units	MAY 2016	JUL 2017	OCT 2018	MAY 2021
Total VOCs	µg/L	NS	ND	ND	ND
Iron	mg/L	NS	**60**	**24**	**18.3**
Total PCBs	µg/L	NS	**0.63**	**0.28**	**1.1**
Total PFAS	ng/L	NS	35.9	NA	84.96
1,4-Dioxane	µg/L	NS	**3.9**	NA	**3.6**

MW-14A (20'-30')	Units	MAY 2021
Total VOCs	µg/L	ND
Iron	mg/L	**0.051**
Total PCBs	µg/L	ND
Total PFAS	ng/L	0.5
1,4-Dioxane	µg/L	ND

MW-14B (40'-50')	Units	MAY 2021
Total VOCs	µg/L	ND
Iron	mg/L	**0.69**
Total PCBs	µg/L	ND
Total PFAS	ng/L	0.93
1,4-Dioxane	µg/L	ND

MW-15 (20'-30')	Units	MAY 2021
Total VOCs	µg/L	0.13
Iron	mg/L	ND
Total PCBs	µg/L	ND
Total PFAS	ng/L	88.31
1,4-Dioxane	µg/L	0.13

MW-17 (20'-30')	Units	MAY 2021
Total VOCs	µg/L	442
Iron	mg/L	**0.64**
Total PCBs	µg/L	ND
Total PFAS	ng/L	1.45
1,4-Dioxane	µg/L	ND

MW-1A (59'-65')	Units	MAY 2016	AUG 2017	OCT 2018	MAY 2021
Total VOCs	µg/L	451	ND	ND	ND
Iron	mg/L	**0.48**	**0.093**	**0.083**	0.024
Total PCBs	µg/L	**0.45**	ND	ND	ND
Total PFAS	ng/L	NA	ND	NA	0.96
1,4-Dioxane	µg/L	NA	ND	NA	ND

MW-2 (4.5'-14.5')	Units	MAY 2016	AUG 2017	OCT 2018	MAY 2021
Total VOCs	µg/L	ND	ND	ND	ND
Iron	mg/L	**5.3**	**5.2**	**13**	**14.7**
Total PCBs	µg/L	ND	ND	ND	ND
Total PFAS	ng/L	NA	90.1	NA	73.67
1,4-Dioxane	µg/L	NA	ND	NA	ND

MW-2A (18'-23')	Units	MAY 2016	AUG 2017	OCT 2018	MAY 2021
Total VOCs	µg/L	ND	ND	ND	ND
Iron	mg/L	**10.8**	**14**	**9.6**	**6.4**
Total PCBs	µg/L	ND	ND	ND	ND
Total PFAS	ng/L	NA	6.9	NA	22.72
1,4-Dioxane	µg/L	NA	0.28	NA	0.14

MW-9 (12.2'-22.2')	Units	MAY 2016	AUG 2017	OCT 2018	MAY 2021
Total VOCs	µg/L	ND	ND	ND	ND
Iron	mg/L	**1.4**	**2.5**	**0.71**	**1.0**
Total PCBs	µg/L	**4.9**	ND	ND	ND
Total PFAS	ng/L	NA	184	NA	443.85
1,4-Dioxane	µg/L	NA	**5.2**	NA	**1.5**

Analyte (Screen Interval)	Units	NYSDEC Class GA Standard
Total VOCs	µg/L	--
Iron	mg/L	0.3
Total PCBs	µg/L	0.09
Total PFAS	ng/L	500
1,4-Dioxane	µg/L	1.0

NOTES

1. HIGHLIGHTED VALUES EXCEED NYSDEC CLASS GA STANDARDS.

DEFINITIONS

µg/L - MICROGRAM PER LITER
mg/L - MILLIGRAM PER LITER
ng/L - NANOGRAM PER LITER
NA - NOT ANALYZED
NS - NOT SAMPLED
ND - NOT DETECTED
PCBs - POLYCHLORINATED BIPHENYLS
PFAS - PERFLUORINATED ALKYL SUBSTANCES
VOCs - VOLATILE ORGANIC COMPOUNDS

LEGEND

GV-# GAS VENT
MW-# MONITORING WELL
LP-# PIEZOMETER
UTP UTILITY POLE
EW-# EXTRACTION WELL

STREAM
ROAD
EDGE OF POND
UNDERGROUND TREATMENT PIPING
UNDERGROUND ELECTRIC
FENCE

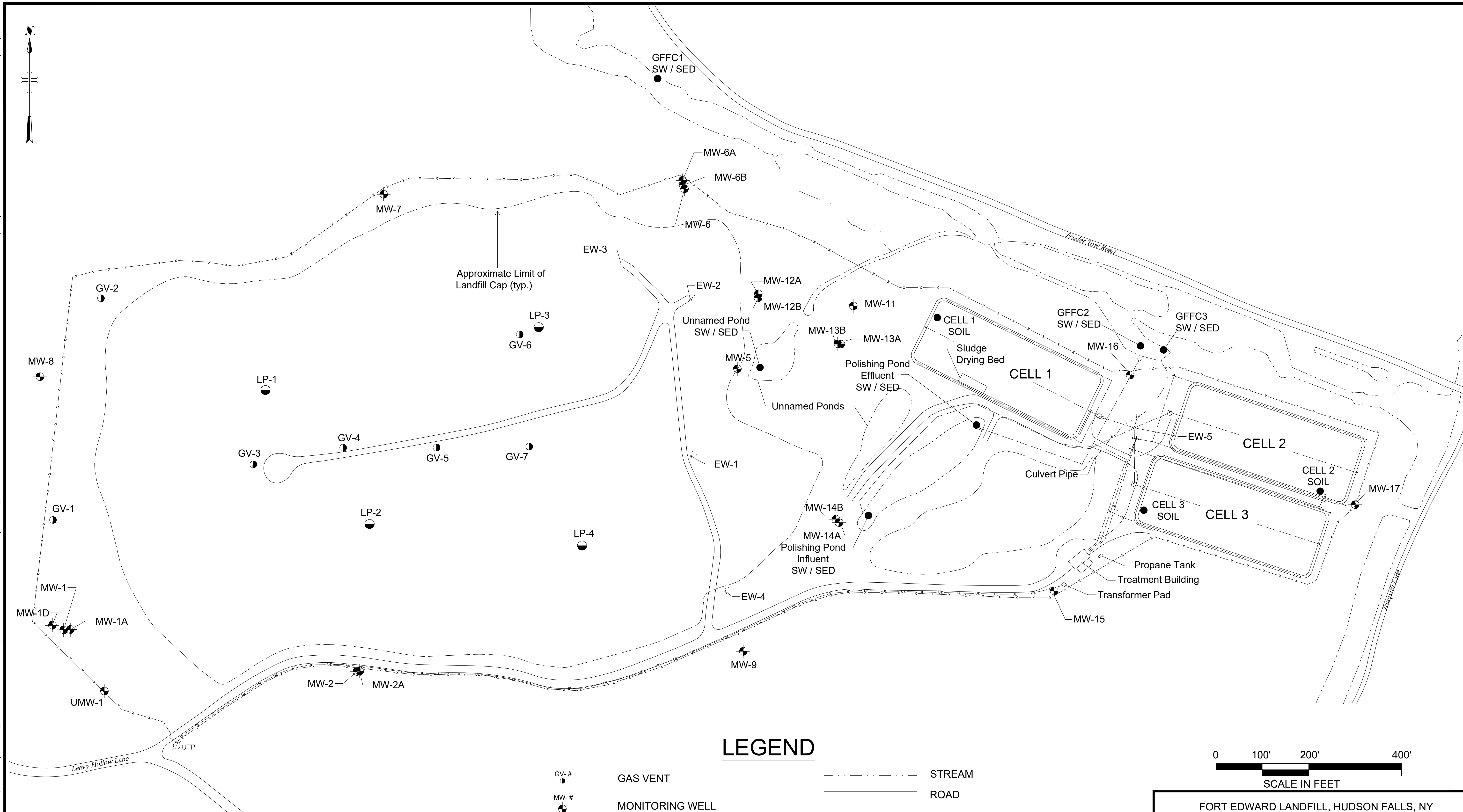
MAP BASED ON SURVEY PERFORMED BY DARRAH LAND SURVEYING, PLLC, 4/2017, 12/2019, AND 2/2021.
ORTHOIMAGERY FROM NYS ORTHOIMAGERY APPLICATION ONLINE DATED 2013.

FORT EDWARD LANDFILL, HUDSON FALLS, NY
NYSDEC SITE 558001
GROUNDWATER MONITORING REPORT

GROUNDWATER ANALYTICAL RESULTS

ARCADIS

FIGURE B3



N
GFFC1
SW / SED
MW-6A
MW-6B
MW-6
MW-7
Approximate Limit of
Landfill Cap (typ.)
EW-3
EW-2
MW-12A
MW-12B
MW-11
Unnamed Pond
SW / SED
MW-13B
MW-13A
CELL 1
SOIL
Sludge
Drying Bed
CELL 1
GFFC2
SW / SED
GFFC3
SW / SED
MW-16
Feeder Tow Road
GV-2
LP-3
GV-6
MW-8
LP-1
MW-5
Polishing Pond
Effluent
SW / SED
Unnamed Ponds
EW-5
CELL 2
GV-4
GV-3
GV-5
GV-7
EW-1
Culvert Pipe
CELL 2
SOIL
MW-17
GV-1
LP-2
LP-4
MW-14B
MW-14A
Polishing Pond
Influent
SW / SED
CELL 3
SOIL
CELL 3
Propane Tank
Treatment Building
Transformer Pad
MW-1
MW-1D
MW-1A
EW-4
MW-15
Towpath Lane
MW-9
MW-2
MW-2A
UMW-1
UTP
Leavy Hollow Lane
LEGEND
GV- #
GAS VENT
MW- #
MONITORING WELL
LP- #
PIEZOMETER
UTP
UTILITY POLE
SOIL
SOIL SAMPLING LOCATIONS
SW / SED
SURFACE WATER / SEDIMENT
SAMPLING LOCATIONS
STREAM
ROAD
EDGE OF POND
UNDERGROUND TREATMENT PIPING
UE
UNDERGROUND ELECTRIC
FENCE
0
100'
200'
400'
SCALE IN FEET

MAP BASED ON SURVEY PERFORMED BY DARRAH LAND SURVEYING, PLLC, 4/2017, 12/2019, AND 2/2021.
ORTHOIMAGERY FROM NYS ORTHOIMAGERY APPLICATION ONLINE DATED 2013.

FORT EDWARD LANDFILL, HUDSON FALLS, NY
NYSDEC SITE 558001
GROUNDWATER MONITORING REPORT

SURFACE WATER, SEDIMENT, AND SOIL SAMPLING LOCATIONS

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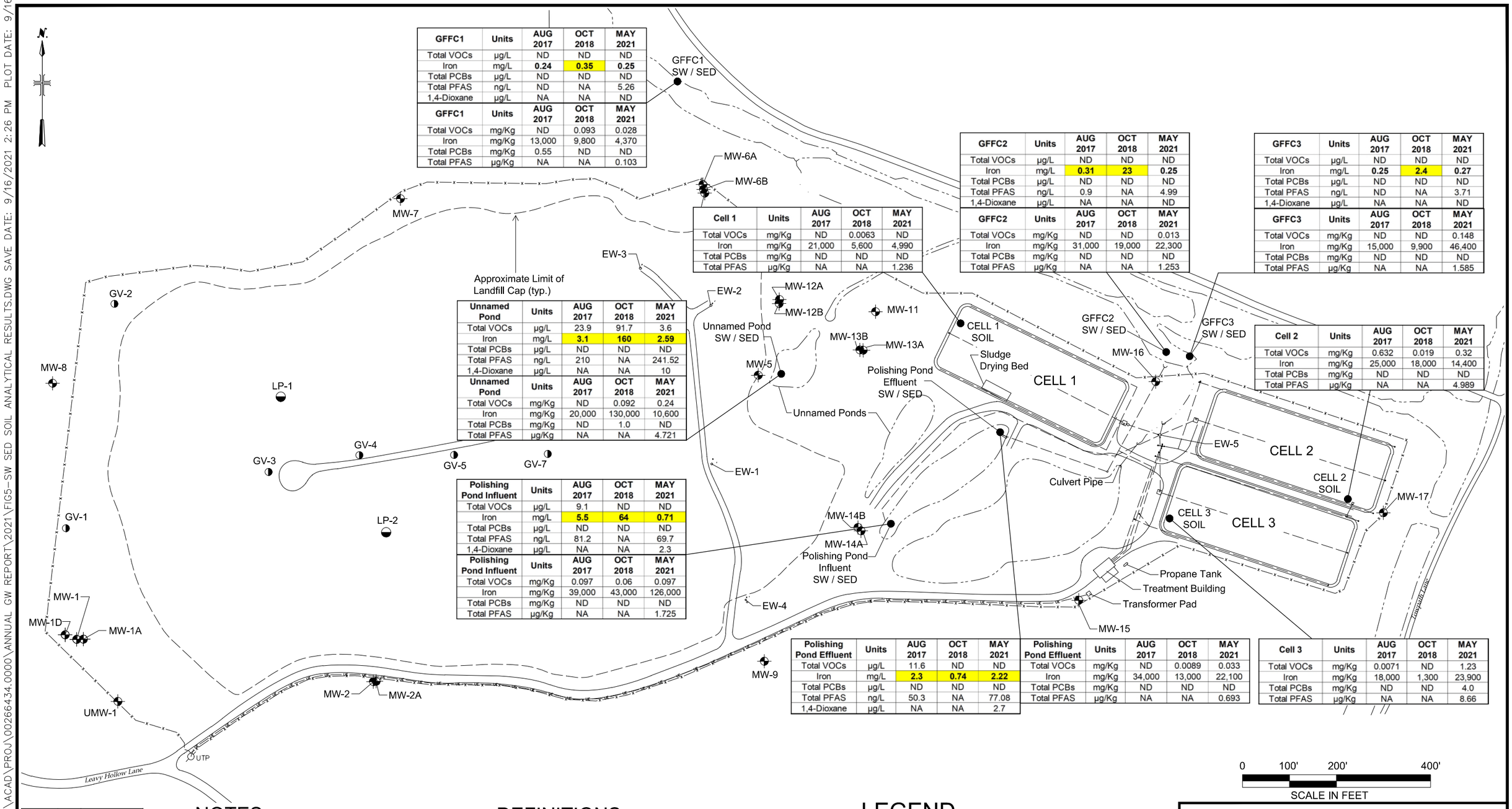
FIGURE B4



GFFC1	Units	AUG 2017	OCT 2018	MAY 2021
Total VOCs	µg/L	ND	ND	ND
Iron	mg/L	**0.24**	**0.35**	**0.25**
Total PCBs	µg/L	ND	ND	ND
Total PFAS	ng/L	ND	NA	5.26
1,4-Dioxane	µg/L	NA	NA	ND

GFFC1	Units	AUG 2017	OCT 2018	MAY 2021
Total VOCs	mg/Kg	ND	0.093	0.028
Iron	mg/Kg	13,000	9,800	4,370
Total PCBs	mg/Kg	0.55	ND	ND
Total PFAS	µg/Kg	NA	NA	0.103

Cell 1	Units	AUG 2017	OCT 2018	MAY 2021
Total VOCs	mg/Kg	ND	0.0063	ND
Iron	mg/Kg	21,000	5,600	4,990
Total PCBs	mg/Kg	ND	ND	ND
Total PFAS	µg/Kg	NA	NA	1.236

GFFC2	Units	AUG 2017	OCT 2018	MAY 2021
Total VOCs	µg/L	ND	ND	ND
Iron	mg/L	**0.31**	**23**	**0.25**
Total PCBs	µg/L	ND	ND	ND
Total PFAS	ng/L	0.9	NA	4.99
1,4-Dioxane	µg/L	NA	NA	ND

GFFC2	Units	AUG 2017	OCT 2018	MAY 2021
Total VOCs	mg/Kg	ND	ND	0.013
Iron	mg/Kg	31,000	19,000	22,300
Total PCBs	mg/Kg	ND	ND	ND
Total PFAS	µg/Kg	NA	NA	1.253

GFFC3	Units	AUG 2017	OCT 2018	MAY 2021
Total VOCs	µg/L	ND	ND	ND
Iron	mg/L	**0.25**	**2.4**	**0.27**
Total PCBs	µg/L	ND	ND	ND
Total PFAS	ng/L	ND	NA	3.71
1,4-Dioxane	µg/L	NA	NA	ND

GFFC3	Units	AUG 2017	OCT 2018	MAY 2021
Total VOCs	mg/Kg	ND	ND	0.148
Iron	mg/Kg	15,000	9,900	46,400
Total PCBs	mg/Kg	ND	ND	ND
Total PFAS	µg/Kg	NA	NA	1.585

Cell 2	Units	AUG 2017	OCT 2018	MAY 2021
Total VOCs	mg/Kg	0.632	0.019	0.32
Iron	mg/Kg	25,000	18,000	14,400
Total PCBs	mg/Kg	ND	ND	ND
Total PFAS	µg/Kg	NA	NA	4.989

Unnamed Pond	Units	AUG 2017	OCT 2018	MAY 2021
Total VOCs	µg/L	23.9	91.7	3.6
Iron	mg/L	**3.1**	**160**	**2.59**
Total PCBs	µg/L	ND	ND	ND
Total PFAS	ng/L	210	NA	241.52
1,4-Dioxane	µg/L	NA	NA	10

Unnamed Pond	Units	AUG 2017	OCT 2018	MAY 2021
Total VOCs	mg/Kg	ND	0.092	0.24
Iron	mg/Kg	20,000	130,000	10,600
Total PCBs	mg/Kg	ND	1.0	ND
Total PFAS	µg/Kg	NA	NA	4.721

Polishing Pond Influent	Units	AUG 2017	OCT 2018	MAY 2021
Total VOCs	µg/L	9.1	ND	ND
Iron	mg/L	**5.5**	**64**	**0.71**
Total PCBs	µg/L	ND	ND	ND
Total PFAS	ng/L	81.2	NA	69.7
1,4-Dioxane	µg/L	NA	NA	2.3

Polishing Pond Influent	Units	AUG 2017	OCT 2018	MAY 2021
Total VOCs	mg/Kg	0.097	0.06	0.097
Iron	mg/Kg	39,000	43,000	126,000
Total PCBs	mg/Kg	ND	ND	ND
Total PFAS	µg/Kg	NA	NA	1.725

Polishing Pond Effluent	Units	AUG 2017	OCT 2018	MAY 2021
Total VOCs	µg/L	11.6	ND	ND
Iron	mg/L	**2.3**	**0.74**	**2.22**
Total PCBs	µg/L	ND	ND	ND
Total PFAS	ng/L	50.3	NA	77.08
1,4-Dioxane	µg/L	NA	NA	2.7

Polishing Pond Effluent	Units	AUG 2017	OCT 2018	MAY 2021
Total VOCs	mg/Kg	ND	0.0089	0.033
Iron	mg/Kg	34,000	13,000	22,100
Total PCBs	mg/Kg	ND	ND	ND
Total PFAS	µg/Kg	NA	NA	0.693

Cell 3	Units	AUG 2017	OCT 2018	MAY 2021
Total VOCs	mg/Kg	0.0071	ND	1.23
Iron	mg/Kg	18,000	1,300	23,900
Total PCBs	mg/Kg	ND	ND	4.0
Total PFAS	µg/Kg	NA	NA	8.66

Analyte	Units	NYSDEC Surface Water Standards
Total VOCs	µg/L	--
Iron	mg/L	0.3
Total PCBs	µg/L	0.00012
Total PFAS	ng/L	500
1,4-Dioxane	µg/L	1.0

Analyte	Units	NYSDEC Standards Sediment	NYSDEC Standards Commercial Use Soil
Total VOCs	mg/Kg	--	--
Iron	mg/Kg	--	--
Total PCBs	mg/Kg	0.0041	1.0
Total PFAS	µg/Kg	--	--

NOTES

1. HIGHLIGHTED VALUES EXCEED NYSDEC STANDARDS FOR AQUATIC LIFE, SEDIMENT, OR COMMERCIAL USE.
2. SEE ASSOCIATED TABLES FOR FURTHER DETAILS.

DEFINITIONS

µg/Kg - MICROGRAM PER KILOGRAM
µg/L - MICROGRAM PER LITER
mg/Kg - MILLIGRAM PER KILOGRAM
mg/L - MILLIGRAM PER LITER
ng/L - NANOGRAM PER LITER
NA - NOT ANALYZED
ND - NOT DETECTED
PCBs - POLYCHLORINATED BIPHENYLS
PFAS - PERFLUORINATED ALKYL SUBSTANCES
VOCs - VOLATILE ORGANIC COMPOUNDS

LEGEND

GV-# GAS VENT
MW-# MONITORING WELL
LP-# PIEZOMETER
UTP UTILITY POLE
EW-# EXTRACTION WELL
SOIL SOIL SAMPLING LOCATIONS
SW / SED SURFACE WATER / SEDIMENT SAMPLING LOCATIONS
STREAM
ROAD
EDGE OF POND
UNDERGROUND TREATMENT PIPING
UNDERGROUND ELECTRIC FENCE

MAP BASED ON SURVEY PERFORMED BY DARRAH LAND SURVEYING, PLLC, 4/2017, 12/2019, AND 2/2021.
ORTHOIMAGERY FROM NYS ORTHOIMAGERY APPLICATION ONLINE DATED 2013.

FORT EDWARD LANDFILL, HUDSON FALLS, NY
NYSDEC SITE 558001
GROUNDWATER MONITORING REPORT

SURFACE WATER, SEDIMENT, AND SOIL ANALYTICAL RESULTS

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FIGURE B5

Appendix C

2022 Groundwater Sampling Report Tables and Figures

Table C1
Summary of Water Level Data
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Well ID	Measuring Point Elevation (ft. amsl)	September 2022	
		Depth to Water (ft.)	Groundwater Elevation (ft. amsl)
MW-1	256.94	41.44	215.50
MW-1A	253.55	41.77	211.78
MW-1D	258.66	48.11	210.55
MW-2	193.86	10.12	183.74
MW-2A	193.93	11.40	182.53
MW-5	183.43	5.71	177.72
MW-6/-6C	192.98	8.66	184.32
MW-6A	192.80	10.35	182.45
MW-6B	192.55	14.48	178.07
MW-7	210.47	17.68	192.79
MW-8	240.09	7.89	232.20
MW-9	174.49	6.58	167.91
MW-11	182.36	20.91	161.45
MW-12A	175.55	3.41	172.14
MW-12B	175.76	4.08	171.68
MW-13A	183.50	13.35	170.15
MW-13B	183.45	10.10	173.35
MW-14A	176.06	12.10	163.96
MW-14B	177.07	8.25	168.82
MW-15	168.61	12.59	156.02
MW-16	161.89	9.56	152.33
MW-17	159.11	11.79	147.32

Notes:
All measurments are in feet.

Definitions:
amsl - above mean sea level.
ft - feet.

Table C2
Volatile Organic Compound Analytical Results for 2022 Groundwater
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYSDEC Class GA Standard	MW-01	MW-01A	DUP-MW	MW-01D	MW-02	MW-02A	MW-05	MW-06	MW-06A	MW-06B	MW-07	MW-08	MW-09	MW-11
Sample Date		9/28/2022	9/27/2022	9/27/2022	9/26/2022	9/27/2022	9/26/2022	9/28/2022	9/28/2022	9/28/2022	9/28/2022	9/26/2022	9/26/2022	9/30/2022	N/A
Volatile Organic Compounds (µg/L)															
Acetone	50	50 U	50 U	3.9 J	50 U	50 U	50 U	5.2 J	3.4 J	2.1 J	50 U	50 U	50 U	50 U	NS
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	2.7	2.6	0.56 J	1 U	1 U	1 U	1 U	NS
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	NS
Bromodichloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NS
Bromoform	50	1 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	2 U	2 U	1 U	NS
Bromomethane	5	2 UJ	2 U	2 U	2 UJ	2 U	2 U	4 UJ	2 UJ	2 UJ	2 UJ	2 U	2 U	2 U	NS
2-Butanone (MEK)	50	20 U	20 U	20 U	20 U	20 U	20 U	40 U	20 U	20 U	20 U	20 U	20 U	20 U	NS
Carbon Disulfide	60	5 U	5 UJ	5 UJ	5 U	5 UJ	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	NS
Carbon Tetrachloride	5	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	NS
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	6.1	15	3.2	1 U	1 U	1 U	1 U	NS
Chlorodibromomethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NS
Chloroethane	5	2 U	2 U	2 U	2 U	2 U	2 U	4 U	2 U	2 U	2 U	0.37 J	2 U	2 U	NS
Chloroform	7	2 U	2 U	2 U	2 U	2 U	2 U	4 U	2 U	2 U	2 U	2 U	2 U	2 U	NS
Chloromethane	5	2 U	2 U	2 U	2 U	2 U	2 U	4 U	2 U	2 U	2 U	2 U	2 U	2 U	NS
Cyclohexane	--	5 U	5 UJ	5 UJ	5 U	5 UJ	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	NS
1,2-Dibromo-3-chloropropane (DBCP)	0.04	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 UJ	5 U	5 U	5 U	5 U	5 U	NS
1,2-Dibromoethane (EDB)	0.0006	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NS
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	0.3 J	1 U	1 U	1 U	1 U	NS
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	2 U	0.2 J	3.2	1 U	1 U	1 U	1 U	NS
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1.7 J	1.5	3.5	1 U	1 U	1 U	1 U	NS
Dichlorodifluoromethane (Freon 12)	5	2 U	2 U	2 U	2 U	2 U	2 U	4 U	2 U	2 U	2 U	2 U	2 U	2 U	NS
1,1-Dichloroethane	5	1 U	1 UJ	1 UJ	1 U	1 UJ	1 U	2 U	1 U	0.25 J	1 U	1 U	1 U	1 U	NS
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	NS
1,1-Dichloroethylene	5	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	NS
cis-1,2-Dichloroethylene	5	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	0.23 J	1 U	1 U	1 U	1 U	NS
trans-1,2-Dichloroethylene	5	1 U	1 UJ	1 UJ	1 U	1 UJ	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	NS
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	NS
cis-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NS
trans-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NS
1,4-Dioxane	0.35	50 U	50 U	50 U	50 U	50 U	50 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U	NS
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	0.9 J	1 U	1 U	1 U	1 U	1 U	1 U	NS
Methyl N-Butyl Ketone (2-Hexanone)	50	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	NS
Isopropylbenzene (Cumene)	5	1 U	1 U	1 U	1 U	1 U	1 U	0.98 J	0.35 J	1 U	1 U	1 U	1 U	1 U	NS
Methyl Acetate	--	1 U	1 U	1 U	1 U	1 U	1 UJ	2 U	1 UJ	1 U	1 U	1 UJ	1 UJ	1 U	NS
Methyl-tert-butylether (MTBE)	10	1 U	1 UJ	1 UJ	1 U	1 UJ	1 U	1.2 J	0.26 J	0.2 J	1 U	1 U	1 U	1 U	NS
Methylcyclohexane	--	1 U	1 U	1 U	1 U	1 U	1 U	1.9 J	1 U	1 U	1 U	1 U	1 U	1 U	NS
Dichloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	NS
4-Methyl-2-Pentanone (MIBK)	--	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	NS
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	NS
1,1,2,2-Tetrachloroethane	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NS
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	NS
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	2.4	1 U	1 U	1 U	1 U	1 U	1 U	NS
1,2,3-Trichlorobenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 UJ	5 U	5 U	5 U	5 U	5 U	NS
1,2,4-T richlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 UJ	2.4	1 U	1 U	1 U	1 U	NS
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	NS
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	NS
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	NS
Trichlorofluoromethane (Freon 11)	5	2 U	2 U	2 U	2 U	2 U	2 U	4 U	2 U	2 U	2 U	2 U	2 U	2 U	NS
1,1,2-trichloro-1,2,2-trifluoroethane (Freon 1)	5	1 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	2 U	2 U	1 U	NS
Vinyl Chloride	2	2 U	2 UJ	2 UJ	2 U	2 UJ	2 UJ	210	2 U	2 U	2 U	2 UJ	2 UJ	2 U	NS
Xylenes (total)	5	1 U	1 U	1 U	1 U	1 U	1 U	5.8	1 U	1 U	1 U	1 U	1 U	1 U	NS
Total VOCs	--	ND	ND	3.9 J	ND	ND	ND	238.9 J	23.31 J	15.9 J	ND	0.37 J	ND	ND	NS

Notes:
Concentrations detected above the NYSDEC Class GA Standard are highlighted in yellow.
MW-11 was dry during the September 2022 sampling event.

Definitions:
J - The concentration is an approximate value.
µg/L - micrograms per liter.
NS - Not sampled
ND - Non detect.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
UJ - The compound was analyzed for but was not detected. The reported quantation limit is approximate.
"--" - No regulatory criteria exists for respective analyte.

Table C2
Volatile Organic Compound Analytical Results for 2022 Groundwater
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYSDEC Class GA Standard	MW-12A	MW-12B	MW-13A	MW-13B	MW-14A	MW-14B	MW-15	MW-16	MW-17	EXMW-34	EW-1	EW-2	EW-3	EW-4
Sample Date		9/29/2022	9/29/2022	9/29/2022	9/29/2022	9/29/2022	9/29/2022	9/30/2022	9/30/2022	9/30/2022	9/27/2022	9/26/2022	9/26/2022	9/26/2022	9/26/2022
Volatile Organic Compounds (µg/L)															
Acetone	50	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	1200 U	5.9 J	51	50 U
Benzene	1	1.9	3.2	1 U	1 U	1 U	1 U	1 U	1 U	0.85 J	1 U	25 U	1.3 J	2.8	1 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	2 U	1 U	1 U
Bromodichloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	12 U	1 U	0.5 U	0.5 U
Bromoform	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	2 U	1 U	1 U
Bromomethane	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	50 UJ	4 UJ	2 UJ	2 UJ
2-Butanone (MEK)	50	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	500 U	40 U	20 U	20 U
Carbon Disulfide	60	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	120 U	10 U	5 U	5 U
Carbon Tetrachloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	120 U	10 U	5 U	5 U
Chlorobenzene	5	0.76 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	0.66 J	20	0.26 J
Chlorodibromomethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	12 U	1 U	0.5 U	0.5 U
Chloroethane	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	50 U	4 U	0.77 J	0.51 J
Chloroform	7	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	50 U	4 U	2 U	2 U
Chloromethane	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	50 U	4 U	2 U	2 U
Cyclohexane	--	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	120 U	10 U	5 U	5 U
1,2-Dibromo-3-chloropropane (DBCP)	0.04	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	120 U	10 U	5 U	5 U
1,2-Dibromoethane (EDB)	0.0006	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	12 U	1 U	0.5 U	0.5 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	2 U	0.41 J	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	2 U	0.31 J	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	2 U	5	1 U
Dichlorodifluoromethane (Freon 12)	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	50 U	4 U	2 U	2 U
1,1-Dichloroethane	5	0.65 J	0.71 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	25 U	2 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	2 U	1 U	1 U
1,1-Dichloroethylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	2 U	1 U	1 U
cis-1,2-Dichloroethylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.4 J	450	2 U	1 U	1 U
trans-1,2-Dichloroethylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	25 U	2 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	2 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	12 U	1 U	0.5 U	0.5 U
trans-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	12 U	1 U	0.5 U	0.5 U
1,4-Dioxane	0.35	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	1200 U	100 U	42 J	50 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.3	1 U	25 U	2 U	1 U	1 U
Methyl N-Butyl Ketone (2-Hexanone)	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	250 U	20 U	10 U	10 U
Isopropylbenzene (Cumene)	5	0.34 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4.7	1 U	25 U	2 U	0.61 J	1 U
Methyl Acetate	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	2 U	1 U	1 U
Methyl-tert-butylether (MTBE)	10	0.55 J	0.62 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	25 U	0.42 J	0.41 J	1 U
Methylcyclohexane	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.8	1 U	25 U	2 U	1 U	1 U
Dichloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	120 U	10 U	5 U	5 U
4-Methyl-2-Pentanone (MIBK)	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	250 U	20 U	10 U	10 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	2 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	12 U	1 U	0.5 U	0.5 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.65 J	1 U	1 U	25 U	2 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.51 J	1 U	25 U	2 U	1 U	1 U
1,2,3-Trichlorobenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	120 U	10 U	5 U	5 U
1,2,4-T richlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	2 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	2 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	2 U	1 U	1 U
Trichloroethene	5	0.25 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	2 U	1 U	1 U
Trichlorofluoromethane (Freon 11)	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	50 U	4 U	2 U	2 U
1,1,2-trichloro-1,2,2-trifluoroethane (Freon 1)	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	2 U	1 U	1 U
Vinyl Chloride	2	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1.6 J	2300	4 U	2 U	0.24 J
Xylenes (total)	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	2 U	1 U	1 U
Total VOCs	--	4.45 J	4.53 J	ND	ND	ND	ND	ND	0.65 J	14.16 J	2 J	2750	8.28 J	123.31 J	1.01 J

Notes:
Concentrations detected above the NYSDEC Class GA Standard are highlighted in yellow.
MW-11 was dry during the September 2022 sampling event.

Definitions:
J - The concentration is an approximate value.
µg/L - micrograms per liter.
NS - Not sampled
ND - Non detect.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
UJ - The compound was analyzed for but was not detected. The reported quantation limit is approximate.
"--" - No regulatory criteria exists for respective analyte.

Table C3
Groundwater and Leachate Analytical Data May 1995 - September 2022
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Well ID	Parameter	NYSDEC Class GA Standard	Units	Sample Date																			
				May-95	Aug-95	May-99	Oct-99	May-00	Oct-01	May-02	Apr-03	Aug-04	Jul-07	Oct-08	Mar-10	Oct-11	Sep-12	Oct-13	Jan-15	May-16	Aug-17	Oct-18	May-21	Sep-22
MW-1	Total VOCs	--	µg/L	5.0	ND	ND	ND	ND	19	ND	ND	2.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Iron	0.3	mg/L	45.4	13	0.498	1.1	2.2	1.1	1.6	1.1	NA	20.1	1.17	ND	ND	0.29	0.21	0.053	0.079	ND	0.23	0.074	0.14
	Total PCBs	0.09	µg/L	NA	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	0.82	ND	ND	ND	ND	ND	ND	ND
MW-1A	Total VOCs	--	µg/L	7.0	11	1.0	ND	3.0	ND	ND	ND	5.0	ND	ND	ND	ND	ND	ND	0.99	451	ND	ND	ND	ND
	Iron	0.3	mg/L	0.827	0.331	0.75	2.1	2.6	2.8	0.41	1.1	NA	11.5	1.63	0.185	0.352	0.55	0.25	0.19	0.48	0.093	0.083	0.024	0.13
	Total PCBs	0.09	µg/L	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	7.4	ND	28	0.45	ND	ND	ND	ND
MW-1D	Total VOCs	--	µg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	26.1	ND	ND	ND	1.1	ND	ND	ND	ND	ND
	Iron	0.3	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.185	1.14	0.19	0.074	0.18	0.2	0.37	0.74	0.169	3.2
	Total PCBs	0.09	µg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	0.81	ND	ND	ND	ND	ND	ND	ND
MW-2	Total VOCs	--	µg/L	9.0	8.0	10	ND	ND	ND	ND	ND	5.0	ND	ND	ND	6.7	ND	ND	ND	ND	ND	ND	ND	ND
	Iron	0.3	mg/L	1.27	8.03	7.62	2.9	15	1.1	5.8	5.2	NA	9.86	5.32	2.17	4.74	2.8	2.2	1.7	5.3	5.2	13	14.7	1.5
	Total PCBs	0.09	µg/L	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-2A	Total VOCs	--	µg/L	ND	ND	6.0	ND	ND	ND	ND	ND	4.0	ND	ND	ND	ND	ND	ND	ND	ND	0.28	ND	ND	ND
	Iron	0.3	mg/L	4.62	4.89	4.83	8.6	13	7.5	9.3	6.8	NA	15.2	11.2	8.19	11.2	9.1	9.8	10.7	10.8	14	9.6	6.4	8.9
	Total PCBs	0.09	µg/L	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	0.28	ND	ND	ND	ND	ND	ND	ND
MW-5	Total VOCs	--	µg/L	8,641	11,438	NS	NS	27,034	50,271	NS	11,352	4,209	NA	NA	365	NS	NS	NS	1,858	1,259	908.4	358	461.6	238.88
	Iron	0.3	mg/L	82.5	66.2	NS	NS	130	95	NS	95	ND	NA	NA	142	NS	NS	NS	56.5	100	54	62	NS	46
	Total PCBs	0.09	µg/L	ND	ND	NS	NS	NA	NA	NS	NS	ND	NA	NA	ND	NS	NS	NS	1.1	0.54	ND	ND	ND	ND
MW-6	Total VOCs	--	µg/L	112	83	26	38	38	62	60	37	63	17	23	25	23	22.4	22.14	40.75	31.7	32.9	24.1	19	15.94
	Iron	0.3	mg/L	37.4	63.7	49.3	80	84	97	100	130	NA	135	120	123	139	103	102	106	106	120	100	100	19
	Total PCBs	0.09	µg/L	ND	ND	NA	ND	ND	NA	NA	NA	3.3	ND	0.43	0.72	0.18	0.37	ND	11	15	ND	0.58	0.79	ND
MW-6A	Total VOCs	--	µg/L	30	4.0	ND	3.0	13	16	9.0	16	17	8.0	19	44	67.7	35.41	37.04	35.25	28.18	29.5	14.9	12.71	ND
	Iron	0.3	mg/L	0.404	0.428	0.388	2.6	35	35	49	54	NA	33.1	27.4	23.4	24.4	23.8	21.2	21.2	19.7	21	18	13.9	0.44
	Total PCBs	0.09	µg/L	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	3.8	14	ND	ND	ND	ND
MW-6B	Total VOCs	--	µg/L	30	ND	8.0	ND	ND	NA	ND	ND	4.0	ND	ND	ND	ND	ND	ND	0.94	ND	ND	ND	ND	23.31
	Iron	0.3	mg/L	8.13	19.9	49	1.2	17	NA	9.1	38	NA	157	3.16	2.38	0.521	0.78	0.35	5.0	0.34	0.24	0.74	0.82	120
	Total PCBs	0.09	µg/L	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	0.91	ND	1.5	29	ND	ND	ND	ND
MW-7	Total VOCs	--	µg/L	3.0	ND	5.0	ND	ND	ND	ND	NA	11	ND	ND	ND	ND	ND	2.78	1.91	0.6	ND	1.1	ND	0.37
	Iron	0.3	mg/L	23.6	30.8	8.06	2.2	17	23	27	NA	240	217	143	119	188	146	195	154	157	160	130	146	110
	Total PCBs	0.09	µg/L	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	0.27	ND	ND	ND	ND	ND
MW-8	Total VOCs	--	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	6.0	ND	ND	ND	NS	ND	4.4	ND	ND	ND	ND	ND	ND
	Iron	0.3	mg/L	0.195	0.362	0.873	0.46	1.4	0.29	2.3	NA	NA	19.9	0.25	8.49	NS	4.0	1.5	9.8	0.073	0.057	ND	0.14	0.035
	Total PCBs	0.09	µg/L	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND	ND	NS	1.0	ND	ND	ND	ND	ND	ND	ND
MW-9	Total VOCs	--	µg/L	NA	NA	7.0	ND	ND	ND	ND	ND	4.0	ND	ND	ND	ND	ND	ND	ND	ND	5.2	ND	ND	ND
	Iron	0.3	mg/L	NA	NA	0.946	0.56	2.0	0.26	0.39	5.3	NA	1.59	0.213	0.14	23.9	8.2	0.2	3.0	1.4	2.5	0.71	1.0	0.61
	Total PCBs	0.09	µg/L	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	1.8	0.34	ND	4.9	ND	ND	ND	ND
MW-11	Total VOCs	--	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS	NS	NS	0.44	ND	ND	NS
	Iron	0.3	mg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS	NS	NS	0.51	370	0.26	NS
	Total PCBs	0.09	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS	NS	NS	ND	ND	ND	NS

Table C3
Groundwater and Leachate Analytical Data May 1995 - September 2022
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Well ID	Parameter	NYSDEC Class GA Standard	Units	Sample Date																		
				May-95	Aug-95	May-99	Oct-99	May-00	Oct-01	May-02	Apr-03	Aug-04	Jul-07	Oct-08	Mar-10	Oct-11	Sep-12	Oct-13	Jan-15	May-16	Aug-17	Oct-18	May-21	Sep-22
MW-12A	Total VOCs	--	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	9.07	4.45
	Iron	0.3	mg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	45.6	33
	Total PCBs	0.09	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND	ND
MW-12B	Total VOCs	--	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7.0	4.53
	Iron	0.3	mg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.03	16
	Total PCBs	0.09	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND	ND
MW-13A	Total VOCs	--	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND	ND
	Iron	0.3	mg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.457	0.41
	Total PCBs	0.09	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND	ND
MW-13B	Total VOCs	--	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND	ND
	Iron	0.3	mg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.185	0.16
	Total PCBs	0.09	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND	ND
MW-14A	Total VOCs	--	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND	ND
	Iron	0.3	mg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.0508	0.071
	Total PCBs	0.09	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND	ND
MW-14B	Total VOCs	--	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND	ND
	Iron	0.3	mg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.691	0.59
	Total PCBs	0.09	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND	ND
MW-15	Total VOCs	--	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND	ND
	Iron	0.3	mg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND	ND
	Total PCBs	0.09	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND	ND
MW-16	Total VOCs	--	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND	0.65
	Iron	0.3	mg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.172	0.089
	Total PCBs	0.09	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND	ND
MW-17	Total VOCs	--	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	442	14.16
	Iron	0.3	mg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.635	0.63
	Total PCBs	0.09	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND	ND
EW-1	Total VOCs	--	µg/L	*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	630	429	NS	525	1,347	1,170	4,817.3	2,513.7	1,054.7	2,750
	Iron	0.3	mg/L	*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	53.7	48.5	NS	66.2	70.2	1,530	55	53	63.6	41
	Total PCBs	0.09	µg/L	*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	49	1,824	NS	650	1,100	970	250	4,400	8,600	1300
EW-2	Total VOCs	--	µg/L	*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	140.8	7.2	NS	5.2	9.29	12.1	72.37	65.59	15.21	8.28
	Iron	0.3	mg/L	*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	40.1	24.5	NS	27.8	29.4	30.3	22	34	18	45
	Total PCBs	0.09	µg/L	*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.27	0.16	NS	ND	ND	400	ND	ND	0.3	ND
EW-3	Total VOCs	--	µg/L	*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	53.2	51.2	NS	75.22	68.9	45.1	132.52	111.35	36.66	123.31
	Iron	0.3	mg/L	*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	40.6	123	NS	33.8	31.7	33.9	33	38	31.9	130
	Total PCBs	0.09	µg/L	*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	2.7	1.6	NS	2.9	2.2	23	ND	ND	1.9	ND
EW-4	Total VOCs	--	µg/L	*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	NS	1.2	NA	NS	3.99	ND	ND	1.01
	Iron	0.3	mg/L	*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	20.1	377	NS	32.5	NA	NS	60	24	18.3	17
	Total PCBs	0.09	µg/L	*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.6	3.3	NS	2.06	2.3	NS	0.63	0.28	1.1	0.3

Notes:

Concentrations detected above the New York State Department of Environmental Conservation (NYSDEC) Class GA Standard are highlighted in yellow.
95-'00 Data Source: Final Evaluation and Assessment Report. Fort Edward Landfill. NYSDEC. July 2001. URS Consultants
VOC totals from 1995 through 2000 include only concentrations of VOCs that were detected above NYSDEC Class GA Standards, while the 2007, 2008, 2011, 2012, 2015, and 2016 VOC totals include all detections, whether above or below NYSDEC Class GA Standards.

MW-11 was dry during the September 2022 sampling event.

Definitions:
µg/L - microgram per liter.
mg/L - milligram per liter.
NA - Not Analyzed.
ND - Not detected above the Method Detection Limit or the Reporting Limit.
NS - Not Sampled.
PCBs - Polychlorinated Biphenyls.
VOCs - Volatile Organic Compounds.
"--" - No regulatory criteria exists for the respective analyte.
"*" - Well was not installed during the respective time period.

Table C4
Polychlorinated Biphenyl Analytical Results for 2022 Groundwater
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYSDEC Class GA Standard	MW-01	MW-01A	DUP-MW	MW-01D	MW-02	MW-02A	MW-05	MW-06	MW-06A	MW-06B	MW-07	MW-08	MW-09	MW-11
Sample Date		9/28/2022	9/27/2022	9/27/2022	9/26/2022	9/27/2022	9/26/2022	9/28/2022	9/28/2022	9/28/2022	9/28/2022	9/26/2022	9/26/2022	9/30/2022	N/A
Polychlorinated Biphenyls (µg/L)															
Aroclor 1016	--	0.2 U	0.21 U	0.21 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.2 U	NS
Aroclor 1221	--	0.2 U	0.21 U	0.21 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.2 U	NS
Aroclor 1232	--	0.2 U	0.21 U	0.21 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.2 U	NS
Aroclor 1242	--	0.2 U	0.21 U	0.21 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.2 U	NS
Aroclor 1248	--	0.2 U	0.21 U	0.21 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.2 U	NS
Aroclor 1254	--	0.2 U	0.21 U	0.21 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.2 U	NS
Aroclor 1260	--	0.2 U	0.21 U	0.21 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.2 U	NS
Aroclor 1262	--	0.2 U	0.21 U	0.21 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.2 U	NS
Aroclor 1268	--	0.2 U	0.21 U	0.21 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.2 U	NS
Total PCBs	0.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS

Location	NYSDEC Class GA Standard	MW-12A	MW-12B	MW-13A	MW-13B	MW-14A	MW-14B	MW-15	MW-16	MW-17	EXMW-34	EW-1	EW-2	EW-3	EW-4
Date		9/29/2022	9/29/2022	9/29/2022	9/29/2022	9/29/2022	9/29/2022	9/30/2022	9/30/2022	9/30/2022	9/27/2022	9/26/2022	9/26/2022	9/26/2022	9/26/2022
Polychlorinated Biphenyls (µg/L)															
Aroclor 1016	--	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	1300	0.2 U	0.2 U	0.3
Aroclor 1221	--	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	98 U	0.2 U	0.2 U	0.2 U
Aroclor 1232	--	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	98 U	0.2 U	0.2 U	0.2 U
Aroclor 1242	--	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	98 U	0.2 U	0.2 U	0.2 U
Aroclor 1248	--	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	98 U	0.2 U	0.2 U	0.2 U
Aroclor 1254	--	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	98 U	0.2 U	0.2 U	0.2 U
Aroclor 1260	--	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	98 U	0.2 U	0.2 U	0.2 U
Aroclor 1262	--	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	98 U	0.2 U	0.2 U	0.2 U
Aroclor 1268	--	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	98 U	0.2 U	0.2 U	0.2 U
Total PCBs	0.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1300	ND	ND	0.3

Notes:
Concentrations detected above the NYSDEC Class GA Standard are highlighted in yellow.
MW-11 was dry during the September 2022 sampling event.

Definitions:
µg/L - micrograms per liter.
NS - Not sampled
ND - Non detect.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
"--" - No regulatory criteria exists for respective analyte.

Table C5
Metal Analytical Results for 2022 Groundwater
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYSDEC Class GA Standard	MW-01	MW-01A	DUP-MW	MW-01D	MW-02	MW-02A	MW-05	MW-06	MW-06A	MW-06B	MW-07	MW-08	MW-09	MW-11
Sample Date		9/28/2022	9/27/2022	9/27/2022	9/26/2022	9/27/2022	9/26/2022	9/28/2022	9/28/2022	9/28/2022	9/28/2022	9/26/2022	9/26/2022	9/30/2022	N/A
Metals (mg/L)															
Aluminum		0.05 U	0.05 U	0.05 U	2.9	0.05 U	0.05 U	0.14	0.033 J	0.057	0.047 J	0.05 U	0.05 U	0.05 U	NS
Antimony	0.003	0.013 J	0.05 U	0.05 U	0.05 U	0.05 U	0.01 J	0.023 J	0.034 J	0.02 J	0.05 U	0.026 J	0.0098 J	0.05 U	NS
Arsenic	0.025	0.01 U	0.01 U	0.0051 J	0.01 U	0.01 U	0.01 U	0.017	0.0084 J	0.0065 J	0.0073 J	0.01 U	0.01 U	0.01 U	NS
Barium	1	0.019 J	0.0084 J	0.0082 J	0.45	0.01 J	0.059	0.33	0.036 J	0.11	0.0069 J	0.029 J	0.013 J	0.065	NS
Beryllium	0.003	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	NS
Cadmium	0.005	0.001 J	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0012 J	0.0012 J	0.0012 J	0.0014 J	0.004 U	0.004 U	0.004 U	NS
Calcium		41	12	12	28	47	35	100	70	100	9	70	47	68	NS
Chromium	0.05	0.0034 J	0.01 U	0.01 U	0.0041 J	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0027 J	0.0081 J	NS
Cobalt		0.01 U	0.01 U	0.01 U	0.0017 J	0.01 U	0.01 U	0.014	0.022	0.0033 J	0.01 U	0.0081 J	0.01 U	0.01 U	NS
Copper	0.2	0.01 U	0.01 U	0.01 U	0.01 U	0.011	0.01 U	0.01 U	0.01 U	0.0042 J	0.01 U	0.01 U	0.01 U	0.01 U	NS
Iron	0.3	0.14	0.13	0.12	3.2	1.5	8.9	46	120	19	0.44	110	0.035 J	0.61	NS
Lead	0.025	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NS
Magnesium	35	8.4	1.5	1.5	6.1	7.7	12	40	14	39	1.6	15	10	130	NS
Manganese	0.3	0.0026 J	0.016	0.015	0.061	0.16	0.29	1.1	1.2	1.5	0.032	2.1	0.0037 J	0.083	NS
Mercury	0.0007	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	NS
Nickel	0.1	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.022	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NS
Potassium		1.1 J	0.49 J	0.49 J	3.5	1.2 J	1.4 J	16	5.4	7.1	1.6 J	1.4 J	0.93 J	0.66 J	NS
Selenium	0.01	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NS
Silver	0.05	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NS
Sodium	20	63	22	21	41	35	39	220	8.6	31	42	2.4	18	120	NS
Thallium	0.0005	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NS
Vanadium		0.0044 J	0.01 U	0.01 U	0.0065 J	0.0078 J	0.0036 J	0.015	0.0072 J	0.008 J	0.01 U	0.0081 J	0.0054 J	0.03	NS
Zinc	2	0.0074 J	0.01 U	0.01 U	0.048	0.01 U	0.01 U	0.0098 J	0.0079 J	0.015	0.083	0.01 U	0.01 U	0.01 U	NS

Table C5
Metal Analytical Results for 2022 Groundwater
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYSDEC Class GA Standard	MW-12A	MW-12B	MW-13A	MW-13B	MW-14A	MW-14B	MW-15	MW-16	MW-17	EXMW-34	EW-1	EW-2	EW-3	EW-4
Sample Date		9/29/2022	9/29/2022	9/29/2022	9/29/2022	9/29/2022	9/29/2022	9/30/2022	9/30/2022	9/30/2022	9/27/2022	9/26/2022	9/26/2022	9/26/2022	9/26/2022
Metals (mg/L)															
Aluminum		0.21	0.05 U	0.05 U	0.22	0.05 U	0.54 J	0.05 U	0.05 U	0.05 U	0.05 U	0.077	0.017 J	0.05 U	0.05 U
Antimony	0.003	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.02 J	0.021 J	0.027 J	0.017 J
Arsenic	0.025	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0054 J	0.01 U	0.01 U	0.021	0.01 U
Barium	1	0.15	0.22	0.068	0.047 J	0.044 J	0.025 J	0.049 J	0.068	0.068	0.06	0.28	0.1	0.42	0.035 J
Beryllium	0.003	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Cadmium	0.005	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Calcium		120	130	30	6.8	25	8.1	37	120	36	52	140	120	80	79
Chromium	0.05	0.0042 J	0.0039 J	0.01 U	0.01 U	0.01 U	0.01 U	0.0069 J	0.0049 J	0.0053 J	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Cobalt		0.0015 J	0.0025 J	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0029 J	0.0097 J	0.013	0.003 J
Copper	0.2	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Iron	0.3	33	16	0.41	0.16	0.071	0.59	0.05 U	0.089	0.63	1	41	45	130	17
Lead	0.025	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Magnesium	35	42	45	12	0.5	9.9	1.9	100	64	68	20	40	47	37	17
Manganese	0.3	1.9	1.8	0.059	0.0023 J	0.016	0.014	0.08	2	0.11	0.32	1.7	0.82	0.27	1.4
Mercury	0.0007	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U
Nickel	0.1	0.0096 J	0.01	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0099 J	0.01 U	0.01 U
Potassium		2.8	2.2	6.4	5	1.1 J	6.8	3	1.3 J	2.3	0.98 J	4.8	3.6	25	1.9 J
Selenium	0.01	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Silver	0.05	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	20	110	110	58	47	55	56	110	33	75	57	62	98	47	39
Thallium	0.0005	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Vanadium		0.027	0.027	0.0097 J	0.0037 J	0.0085 J	0.01 U	0.031	0.028	0.029	0.014	0.0092 J	0.013	0.024	0.0058 J
Zinc	2	0.017	0.018	0.01 U	0.01 U	0.0055 J	0.0042 J	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

Notes:
Concentrations detected above the NYSDEC Class GA Standard are highlighted in yellow.
MW-11 was dry during the September 2022 sampling event.

Definitions:
J - The concentration is an approximate value.
mg/L - milligrams per Liter.
NA - Not analyzed.
U - The compound was analyzed for but was not detected above the level of the reported sample quantation limit. .
UJ - The compound was analyzed for but was not detected. The reported quantation limit is approximate.
NS - Not sampled
"--" - No regulatory criteria exists for respective analyte.

Table C6
Emerging Contaminant Analytical Results for 2022 Groundwater
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYSDEC GUIDANCE VALUES - HUMAN HEALTH (ng/L)	MW-01	MW-01A	DUP-MW	MW-01D	MW-02	MW-02A	MW-05	MW-06	MW-06A	MW-06B	MW-07	MW-08	MW-09	MW-11
Sample Date		9/28/2022	9/27/2022	9/27/2022	9/26/2022	9/27/2022	9/26/2022	9/28/2022	9/28/2022	9/28/2022	9/28/2022	9/26/2022	9/26/2022	9/30/2022	N/A
Perfluorinated Alkyl Substances (ng/L)															
Perfluorobutanoic acid (PFBA)	--	3.5	1.9 U	1.8 U	1.8 U	1.9	2.0 J	41.0 J	6.0 J	2.2 J	1.4 J	20.0 U	1.7 J	90.0 J	NS
Perfluorobutane sulfonic acid (PFBS)	--	4.6	1.9 U	1.8 U	1.8 U	4.6	4.3	5.7 J	1.5 J	4.1 U	0.5 J	20.0 U	2.3	6.3	NS
Perfluoropentanoic acid (PFPeA)	--	3.9	1.9 U	1.8 U	1.8 U	1.1 J	4.7	41.0 J	3.9 J	2.1 J	0.7 J	20.0 U	1.9 U	190.0	NS
Perfluorohexanoic acid (PFHxA)	--	5.2	1.9 U	1.8 U	1.8 U	0.5 J	4.1 J	86.0	9.1	7.6	2.0	20.0 U	1.9 U	200.0	NS
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	--	1.8 U	1.9 U	1.8 U	1.8 U	1.7 U	4.1 U	4.1 U	4.1 U	4.1 U	1.8 U	20.0 U	1.9 U	1.8 U	NS
Perfluorodecanoic acid (PFDA)	--	1.8 U	1.9 U	1.8 U	1.8 U	0.7 J	4.1 U	4.1 U	4.1 U	4.1 U	1.8 U	20.0 U	1.9 U	1.8 U	NS
Perfluorododecanoic acid (PFDoA)	--	1.8 U	1.9 U	1.8 U	1.8 U	1.7 U	4.1 U	4.1 U	4.1 U	4.1 U	1.8 U	20.0 U	1.9 U	1.8 U	NS
Perfluoroheptane sulfonic acid (PFHpS)	--	1.8 U	1.9 U	1.8 U	1.8 U	1.7 U	4.1 U	3.2 J	4.1 U	4.1 U	1.8 U	20.0 U	1.9 U	0.9 J	NS
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	1.8 U	1.9 U	1.8 U	1.8 U	1.7 U	4.1 U	2.8 J	4.1 U	4.1 U	1.8 U	20.0 U	1.9 U	1.8 U	NS
N-Methylperfluoroocatane sulfonamidoacetic acid (MeFOSAA)	--	1.8 U	1.9 J	1.5 J	1.8 U	1.7 U	4.1 U	4.1 U	4.1 U	4.1 U	1.8 U	20.0 U	1.9 U	1.8 U	NS
Perfluorotetradecanoic acid (PFTA)	--	1.8 U	1.9 U	1.8 U	1.8 U	1.7 UJ	4.1 U	4.1 U	4.1 UJ	4.1 U	1.8 U	20.0 U	1.9 U	1.8 U	NS
Perfluorotridecanoic acid (PFTrDA)	--	1.8 U	1.9 U	1.8 U	1.8 U	1.7 UJ	4.1 U	4.1 U	4.1 UJ	4.1 U	1.8 U	20.0 U	1.9 U	1.8 U	NS
Perfluorodecane sulfonic acid (PFDS)	--	1.8 U	1.9 U	1.8 U	1.8 U	1.7 U	4.1 U	4.1 U	4.1 U	4.1 U	1.8 U	20.0 U	1.9 U	1.8 U	NS
Perfluorooctane sulfonamide (FOSA)	--	1.8 U	1.9 U	1.8 U	1.8 U	1.7 UJ	4.1 U	4.1 U	4.1 UJ	4.1 U	1.8 UJ	20.0 U	1.9 U	1.8 U	NS
Perfluorohexane sulfonic acid (PFHxS)	--	1.7	1.9 U	1.8 U	1.8 U	0.6 J	1.1 J	36.0	2.1 J	3.4 J	1.8 U	20.0 U	1.9 U	4.4	NS
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	--	1.8 U	1.9 U	1.8 U	9.1	1.7 U	4.1 U	10.0 J	2.6 J	4.1 U	1.2 J	10.0 J	1.9 U	1.8 U	NS
Perfluoroundecanoic acid (PFUnA)	--	1.8 U	1.9 U	1.8 U	1.8 U	1.7 U	4.1 U	4.1 U	4.1 U	4.1 U	1.8 U	20.0 U	1.9 U	1.8 U	NS
Perfluoroheptanoic acid (PFHpA)	--	3.7	1.9 U	1.8 U	2.8	0.8 J	1.6 J	29.0	3.5 J	3.4 J	0.3 J	20.0 U	1.9 U	40.0	NS
Perfluorooctanoic acid (PFOA)	6.7	11.0	0.9 J	0.8 J	1.8 U	39.0	4.6	120.0	12.0 J	17.0	0.9 J	7.6 J	1.2 J	85.0	NS
Perfluorooctane sulfonic acid (PFOS)	2.7	5.4	0.7 J	1.8 U	1.8 UJ	58.0	4.1 UJ	60.0	9.8	7.6	1.8 U	20.0 U	2.2	10.0	NS
Perfluorononanoic acid (PFNA)	--	1.8 U	1.9 U	1.8 U	1.8 U	3.3	4.1 U	1.1 J	4.1 U	4.1 U	1.8 U	20.0 U	1.9 U	0.5 J	NS
Total PFOA and PFOS	--	16.4	1.6 J	0.8 J	ND	77.0	4.6	180.0	21.8 J	24.6	0.9 J	7.6 J	3.4 J	95.0	NS
Total Perfluoroalkylated substances (PFASs)	--	39.0	3.5 J	2.3 J	11.9	110.5 J	22.4 J	435.8	50.5 J	43.3	7.0	17.6 J	7.4	627.0 J	NS
1,4-Dioxane (µg/L)															
1,4-Dioxane	0.35	0.2 U	0.046 J	0.2 U	0.2 U	0.19 U	0.19 U	66.0	8.1	6.4	0.2 U	0.19 U	0.2 U	1.2	NS

Table C6
Emerging Contaminant Analytical Results for 2022 Groundwater
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYSDEC GUIDANCE VALUES - HUMAN HEALTH (ng/L)	MW-12A	MW-12B	MW-13A	MW-13B	MW-14A	MW-14B	MW-15	MW-16	MW-17	EXMW-34	EW-1	EW-2	EW-3	EW-4
Sample Date		9/29/2022	9/29/2022	9/29/2022	9/29/2022	9/29/2022	9/29/2022	9/30/2022	9/30/2022	9/30/2022	9/27/2022	9/26/2022	9/26/2022	9/26/2022	9/26/2022
Perfluorinated Alkyl Substances (ng/L)															
Perfluorobutanoic acid (PFBA)	--	1.9 UJ	25.0 J	0.7 J	1.0 J	2.2	4.5	16.0	17.0	1.8 U	5.7	33.0 J	26.0 J	21.0 J	5.0
Perfluorobutane sulfonic acid (PFBS)	--	1.9 U	3.0 J	1.8 U	1.9 U	1.8 U	1.9 U	0.8 J	0.7 J	1.8 U	0.3 J	1.5 J	4.2 U	1.0 J	1.4 J
Perfluoropentanoic acid (PFPeA)	--	24.0 J	17.0	0.7 J	1.8 J	1.8 U	1.9 U	58.0	56.0	1.8 U	6.5	51.0 J	20.0 J	11.0	9.3
Perfluorohexanoic acid (PFHxA)	--	61.0	50.0	0.6 J	2.2 J	1.8 U	1.9 U	38.0	38.0	1.8 U	14.0	91.0	53.0	26.0	14.0
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	--	1.9 U	4.1 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	4.2 U	4.2 U	4.1 U	4.2 U
Perfluorodecanoic acid (PFDA)	--	1.9 U	4.1 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	4.2 U	4.2 U	4.1 U	4.2 U
Perfluorododecanoic acid (PFDoA)	--	1.9 U	4.1 U	1.8 UJ	1.9 U	1.8 U	1.9 UJ	1.8 U	1.9 U	1.8 U	1.8 U	4.2 U	4.2 U	4.1 U	4.2 U
Perfluoroheptane sulfonic acid (PFHpS)	--	1.3 J	4.1 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	4.2 U	4.2 U	4.1 U	4.2 U
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	1.9 U	4.1 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.7 J	3.4 J	4.1 U	4.2 U
N-Methylperfluoroocatane sulfonamidoacetic acid (MeFOSAA)	--	1.9 U	4.1 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	4.2 U	4.2 U	4.1 U	4.2 U
Perfluorotetradecanoic acid (PFTA)	--	1.9 UJ	4.1 U	1.8 UJ	1.9 U	1.8 U	1.9 UJ	1.8 U	1.9 U	1.8 U	1.8 U	4.2 U	4.2 U	4.1 U	4.2 U
Perfluorotridecanoic acid (PFTrDA)	--	1.9 UJ	4.1 U	1.8 UJ	1.9 U	1.8 U	1.9 UJ	1.8 U	1.9 U	1.8 U	1.8 U	4.2 U	4.2 U	4.1 U	4.2 U
Perfluorodecane sulfonic acid (PFDS)	--	1.9 U	4.1 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	4.2 U	4.2 U	4.1 U	4.2 U
Perfluorooctane sulfonamide (FOSA)	--	1.9 UJ	4.1 U	1.8 UJ	1.9 U	1.8 UJ	1.9 U	1.8 U	1.9 UJ	1.8 UJ	1.8 UJ	4.2 UJ	4.2 U	4.1 U	4.2 U
Perfluorohexane sulfonic acid (PFHxS)	--	25.0	21.0 J	1.8 U	1.9 U	1.8 U	1.9 U	3.2	3.0	1.8 U	1.8 U	7.1	19.0	9.1 J	1.3 J
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	--	3.0	13.0 J	1.8 U	1.9 U	7.3	1.9 UJ	33.0	29.0	0.7 J	1.8 U	4.2 U	4.2 U	4.1 U	4.2 U
Perfluoroundecanoic acid (PFUnA)	--	1.9 U	4.1 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	4.2 U	4.2 U	4.1 U	4.2 U
Perfluoroheptanoic acid (PFHpA)	--	23.0	18.0	0.4 J	0.8	1.8 U	1.9 U	25.0	23.0	1.8 U	3.0	15.0	18.0 J	10.0	5.2
Perfluorooctanoic acid (PFOA)	6.7	71.0 J	64.0	2.7	2.7	1.8 U	1.9 U	18.0	17.0	1.8 U	12.0	85.0	65.0	35.0	16.0
Perfluorooctane sulfonic acid (PFOS)	2.7	23.0	14.0	1.8 U	1.9 U	1.8 U	1.9 U	1.6 J	1.6 J	1.8 U	1.8 U	2.9 J	25.0 J	11.0 J	5.4 J
Perfluorononanoic acid (PFNA)	--	0.8 J	4.1 U	1.8 U	1.9 U	1.8 U	1.9 U	0.5 J	0.5 J	1.8 U	1.8 U	4.2 U	0.8 J	4.1 U	4.2 U
Total PFOA and PFOS	--	94.0 J	78.0	2.7	2.7	ND	ND	19.6 J	18.6 J	ND	12.0	87.9 J	90.0 J	46.0 J	21.4 J
Total Perfluoroalkylated substances (PFASs)	--	232.1 J	225.0 J	5.1 J	8.5 J	9.5	4.5	194.1 J	185.8 J	0.7 J	41.5 J	288.2 J	230.2 J	124.1 J	57.6 J
1,4-Dioxane (µg/L)															
1,4-Dioxane	0.35	78.0	96.0	0.1 J	0.2 U	0.2 U	0.2 U	0.2 U	1.0	0.2 U	8.5	49.0	42.0	66.0	2.0

Notes:
Constitutents detected above the New York State Department of Environmental Conservation Guidance Values are highlighted in yellow.
MW-11 was dry during the September 2022 sampling event.

Definitions:
J - The concentration is an approximate value.
ND - Not detected
NS - Not sampled
µg/L - micrograms per liter.
ng/L - nanograms per liter.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
UJ - The compound was analyzed for but was not detected. The reported quantation limit is approximate.
"--" - No regulatory criteria exists for respective analyte.

Table C7
Volatile Organic Compound Analytical Results for 2023 Surface Water
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYSDEC Aquatic Life - Chronic A(C)	NYSDEC Aquatic Life - Acute A(A)	Unnamed Pond	Polishing Pond Influent	DUP - Polishing Pond Influent	Polishing Pond Effluent	GFFC1	GFFC2	GFFC3
Sample Date			10/3/2022	10/3/2022	10/3/2022	9/26/2022	10/3/2022	10/3/2022	10/3/2022
Volatile Organic Compounds (µg/L)									
Acetone	--	--	10 J	3.3 J	2.7 J	50 U	50 U	3.5 J	50 U
Benzene	210	760	0.5 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromochloromethane	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	--	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	--	--	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bromomethane	--	--	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Butanone (MEK)	--	--	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Carbon Disulfide	--	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Tetrachloride	--	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	5.0	--	1.0 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorodibromomethane	--	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	--	--	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Cyclohexane	--	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	--	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane (EDB)	--	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	5.0	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	5.0	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	5.0	--	0.3 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (Freon 12)	--	--	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1-Dichloroethane	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethylene	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethylene	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethylene	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	--	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,3-Dichloropropene	--	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	17	150	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone (MBK)	--	--	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Isopropylbenzene (Cumene)	2.6	23	0.2 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert-Butyl Ether (MTBE)	--	--	0.9 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Cyclohexane	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1,2-Tetrachloroethane	--	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Table C7
Volatile Organic Compound Analytical Results for 2023 Surface Water
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYSDEC Aquatic Life - Chronic A(C)	NYSDEC Aquatic Life - Acute A(A)	Unnamed Pond	Polishing Pond Influent	DUP - Polishing Pond Influent	Polishing Pond Effluent	GFFC1	GFFC2	GFFC3
Sample Date			10/3/2022	10/3/2022	10/3/2022	9/26/2022	10/3/2022	10/3/2022	10/3/2022
Volatile Organic Compounds (µg/L)									
Tetrachloroethylene	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	100	480	0.4 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	5	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	5.0	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethylene	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (Freon 11)	--	--	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 11	--	--	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 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
m+p Xylene	65	590	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	65	590	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	65	590	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total VOCs	--	--	12.9 J	3.3 J	2.7 J	ND	ND	3.5 J	ND

Notes:
Concentrations detected above the New York State Department of Environmental Conservation (NYSDEC) Aquatic Life - Chronic Standards are highlighted in yellow.
Concentrations detected above the NYSDEC Aquatic Life - Chronic and Acute Standards are highlighted in orange.

Definitions:
J - The concentration is an approximate value.
µg/L - Micrograms per liter.
ND - Non detect.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
"--" - No regulatory criteria exists for respective analyte.

Table C8
Polychlorinated Biphenyl Analytical Results for 2022 Surface Water
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYSDEC Protection of Wildlife (W)	Unnamed Pond	Polishing Pond Influent	DUP - Polishing Pond Influent	Polishing Pond Effluent	GFFC1	GFFC2	GFFC3
Sample Date		10/3/2022	10/3/2022	10/3/2022	9/26/2022	10/3/2022	10/3/2022	10/3/2022
Polychlorinated Biphenyls (µg/L)								
PCB-1016	--	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U
PCB-1221	--	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U
PCB-1232	--	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U
PCB-1242	--	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U
PCB-1248	--	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U
PCB-1254	--	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U
PCB-1260	--	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U
PCB-1262	--	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U
PCB-1268	--	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U
Total PCBs	0.00012	ND	ND	ND	ND	ND	ND	ND

Notes:
Concentrations detected above the New York State Department of Environmental Conservation (NYSDEC) Protection of Wildlife Standards are highlighted in yellow.

Definitions:
µg/L - micrograms per liter.
ND - Non detect.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
"--" - No regulatory criteria exists for respective analyte.

Table C9
Metal Analytical Results for 2022 Surface Water
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYSDEC Aquatic Life - Chronic A(C)	NYSDEC Aquatic Life - Acute A(A)	Unnamed Pond	Polishing Pond Influent	DUP - Polishing Pond Influent	Polishing Pond Effluent	GFFC1	GFFC2	GFFC3
Sample Date			10/3/2022	10/3/2022	10/3/2022	9/26/2022	10/3/2022	10/3/2022	10/3/2022
Total Metals (mg/L)									
Aluminum	0.1	--	0.017 J	0.023 J	0.017 J	0.05 U	0.026 J	0.053	0.031 J
Antimony	--	--	0.018 J	0.015 J	0.011 J	0.05 U	0.05 U	0.011 J	0.05 U
Arsenic	0.15	0.34	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Barium	--	--	0.12	0.029 J	0.029 J	0.05 U	0.012 J	0.035 J	0.012 J
Beryllium [H]	1.0	--	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Cadmium [H]	0.0021	0.0038	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Calcium	--	--	110	100	97	84	16	77	16
Chromium [H]	0.07	0.6	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Cobalt	0.005	0.11	0.0039 J	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Copper [H]	0.009	0.013	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Iron	0.3	0.3	37	2.8	2.5	2.1	0.24	3.3	0.33
Lead [H]	0.004	0.1	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Magnesium	--	--	38	22	22	17	2.9	18	3
Manganese	--	--	0.76	0.56	0.53	0.42	0.014	0.94	0.021
Mercury	0.00077	0.0014	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U
Nickel [H]	0.05	0.47	0.015	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Potassium	--	--	5	2.4	2.3	3.1	0.94 J	2.1	1.2 J
Selenium	0.0046	--	0.05 U	0.016 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Silver [H]	0.0001	0.0041	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	--	--	150	40	41	34	23	34	23
Thallium	0.008	0.02	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Vanadium	0.014	0.19	0.0096 J	0.01 U	0.0044 J	0.01 U	0.01 U	0.0047 J	0.01 U
Zinc [H]	0.083	0.12	0.01 U	0.0058 J	0.0051 J	0.01 U	0.018	0.049	0.056

Notes:
Concentrations detected above the New York State Department of Environmental Conservation (NYSDEC) Aquatic Life - Chronic Standards are highlighted in yellow.
Concentrations detected above the NYSDEC Aquatic Life - Chronic and Acute Standards are highlighted in orange.

Definitions:
B - Compound was found in the blank sample.
[H] - indicates that the NYSDEC Chronic and/or Acute standard is hardness dependent, hardness expressed as 100 parts per million (ppm) calcium carbonate. It should be noted that hardness dependent standards are for dissolved concentrations, but the above are total concentrations.
J - The concentration is an approximate value.
mg/L - milligrams per liter.
ppm - parts per million
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
"--" - No regulatory criteria exists for respective analyte.

Table C10
Emerging Contaminant Analytical Results for 2022 Surface Water
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYSDEC GUIDANCE VALUES - Aquatic Life - Chronic (ng/L)	NYSDEC GUIDANCE VALUES - Aquatic Life - Acute (ng/L)	Unnamed Pond	Polishing Pond Influent	DUP - Polishing Pond Influent	Polishing Pond Effluent	GFFC1	GFFC2	GFFC3
Sample Date			10/3/2022	10/3/2022	10/3/2022	9/26/2022	10/3/2022	10/3/2022	10/3/2022
Perfluorinated Alkyl Substance (ng/L)									
Perfluorobutanoic acid (PFBA)	--	--	42	8.7	8.6	7.7	1.2 J	7.1	1.5 J
Perfluorobutane sulfonic acid (PFBS)	--	--	39	16	15	13	1.6 J	12	2
Perfluoropentanoic acid (PFPeA)	--	--	2.8 J	2.3	2.2	1.8 U	1.2 J	1.9	1.4 J
Perfluorohexanoic acid (PFHxA)	--	--	30	2.3	2.5	1.8 U	0.94 J	1.9	1.0 J
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	--	--	77	17	16	16	1.5 J	12	1.5 J
Perfluorodecanoic acid (PFDA)	--	--	2.6 J	1.8 U	0.98 J	1.8 U	1.9 U	1.8 U	1.8 U
Perfluorododecanoic acid (PFDoA)	--	--	30	6.3	6.3	6.4	0.86 J	5.2	0.95 J
Perfluoroheptane sulfonic acid (PFHpS)	--	--	100	22	24	18	2	14	2.2
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	--	74	37	54	6.3	1.5 J	10	2.0
N-Methylperfluoroocatane sulfonamidoacetic acid (MeFOSAA)	--	--	1.7 J	2.4	3.1	1.8 U	1.9 U	0.93 J	0.34
Perfluorotetradecanoic acid (PFTA)	--	--	4.1 U	1 J	1.7 J	1.8 U	1.9 U	1.8 U	1.8 U
Perfluorotridecanoic acid (PFTrDA)	--	--	4.1 U	1.8 U	0.5 J	1.8 U	1.9 U	1.8 U	1.8 U
Perfluorodecane sulfonic acid (PFDS)	--	--	4.1 U	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U
Perfluorooctane sulfonamide (FOSA)	--	--	4.1 U	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U
Perfluorohexane sulfonic acid (PFHxS)	--	--	4.1 U	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	--	--	4.1 U	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U
Perfluoroundecanoic acid (PFUnA)	--	--	4.1 U	0.71 J	1 J	1.8 U	1.9 U	1.8 U	1.8 U
Perfluoroheptanoic acid (PFHpA)	--	--	4.1 U	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U
Perfluorooctanoic acid (PFOA)	--	--	12	0.87 J	1.2 J	1.8 U	1.9 U	1.8 U	1.8 U
Perfluorooctane sulfonic acid (PFOS)	160,000	710,000	0.91 J	1.7 J	1.5 J	1.8 U	0.94 J	0.8 J	0.71 J
Perfluorononanoic acid (PFNA)	--	--	4.1 U	1.8 U	0.69 J	1.8 U	1.9 U	1.8 U	1.8 U
Total PFOA + PFOS	--	--	174.0	59	78	24.3	3.5 J	24	4.2
Total PFAS	--	--	412.0 J	118.3 J	139.3 J	67.4	11.7 J	65.8 J	13.6 J
1,4-Dioxane (µg/L)									
1,4-Dioxane	18,000	160,000	49	2.3	2.2	1.4	0.2 U	1.6	0.2 U

Notes:
Concentrations detected above the New York State Department of Environmental Conservation (NYSDEC) Guidance Values Aquatic Life - Chronic Standards are highlighted in yellow.
Concentrations detected above the NYSDEC Guidance Values Aquatic Life - Chronic and Acute Standards are highlighted in orange.

Definitions:
J - The concentration is an approximate value.
µg/L - micrograms per liter.
ng/L - nanograms per liter.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
"--" - No regulatory criteria exists for respective analyte.

Table C11
Volatile Organic Compound Analytical Results for 2022 Sediment
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYSDEC FRESHWATER SGVS CLASS A	NYSDEC FRESHWATER SGVS CLASS C	NYSDEC WILDLIFE BSGV	Unnamed Pond	Polishing Pond Influent	DUP-Polishing Pond Influent	Polishing Pond Effluent	GFFC1	GFFC2	GFFC3
Sample Date				10/3/2022	10/3/2022	10/3/2022	10/3/2022	10/3/2022	10/3/2022	10/3/2022
Volatile Organic Compounds (mg/Kg)										
Acetone	--	--	--	0.022 J	0.17 J	0.13 J	0.032 J	0.14 U	0.3 U	0.13 U
Benzene	0.53	1.9	--	0.0047 U	0.0037 U	0.0039 U	0.0033 U	0.0027 U	0.006 U	0.0025 U
Bromochloromethane	--	--	--	0.0047 U	0.0037 U	0.0039 U	0.0033 U	0.0027 U	0.006 U	0.0025 U
Bromodichloromethane	--	--	--	0.0047 U	0.0037 U	0.0039 U	0.0033 U	0.0027 U	0.006 U	0.0025 U
Bromoform	--	--	--	0.0047 U	0.0037 U	0.0039 U	0.0033 U	0.0027 U	0.006 U	0.0025 U
Bromomethane	--	--	--	0.023 U	0.019 U	0.02 U	0.017 U	0.014 U	0.03 U	0.013 U
2-Butanone (MEK)	--	--	--	0.094 U	0.037 J	0.026 J	0.067 U	0.054 U	0.018 J	0.05 U
Carbon Disulfide	--	--	--	0.023 U	0.019 U	0.02 U	0.017 U	0.014 U	0.03 U	0.013 U
Carbon Tetrachloride	1.07	9.6	--	0.0047 U	0.0037 U	0.0039 U	0.0033 U	0.0027 U	0.006 U	0.0025 U
Chlorobenzene	0.2	1.7	--	0.0017 J	0.0037 U	0.0039 U	0.0033 U	0.0027 U	0.006 U	0.0025 U
Chlorodibromomethane	--	--	--	0.0023 U	0.0019 U	0.002 U	0.0017 U	0.0014 U	0.003 U	0.0013 U
Chloroethane	--	--	--	0.047 U	0.037 U	0.039 U	0.033 U	0.027 U	0.06 U	0.025 U
Chloroform	--	--	--	0.0094 U	0.0074 U	0.0078 U	0.0067 U	0.0054 U	0.012 U	0.005 U
Chloromethane	--	--	--	0.023 U	0.019 U	0.02 U	0.017 U	0.014 U	0.03 U	0.013 U
Cyclohexane	--	--	--	0.023 U	0.019 U	0.02 U	0.017 U	0.014 U	0.03 U	0.013 U
1,2-Dibromo-3-chloropropane (DBCP)	--	--	--	0.0094 U	0.0074 U	0.0078 U	0.0067 U	0.0054 U	0.12 U	0.005 U
1,2-Dibromoethane (EDB)	--	--	--	0.0023 U	0.0019 U	0.02 U	0.017 U	0.0014 U	0.003 U	0.0013 U
1,2-Dichlorobenzene	0.28	2.5	--	0.0047 U	0.0037 U	0.0039 U	0.0033 U	0.0027 U	0.006 U	0.0025 U
1,3-Dichlorobenzene	1.8	7.1	--	0.0047 U	0.0037 U	0.0039 U	0.0033 U	0.0027 U	0.006 U	0.0025 U
1,4-Dichlorobenzene	0.72	3.3	--	0.0013 J	0.0037 U	0.0039 U	0.0033 U	0.0027 U	0.006 U	0.0025 U
Dichlorodifluoromethane (Freon 12)				0.047 U	0.037 U	0.039 U	0.033 U	0.027 U	0.06 U	0.025 U
1,1-Dichloroethane	--	--	--	0.0047 U	0.0037 U	0.0039 U	0.0033 U	0.0027 U	0.006 U	0.0025 U
1,2-Dichloroethane	--	--	--	0.0047 U	0.0037 U	0.0039 U	0.0033 U	0.0027 U	0.006 U	0.0025 U
1,1-Dichloroethylene	0.52	4.7	--	0.0094 U	0.0074 U	0.0078 U	0.0067 U	0.0054 U	0.012 U	0.005 U
cis-1,2-Dichloroethylene	--	--	--	0.0047 U	0.0037 U	0.0039 U	0.0033 U	0.0027 U	0.006 U	0.0025 U
trans-1,2-Dichloroethylene	1.2	11	--	0.0047 U	0.0037 U	0.0039 U	0.0033 U	0.0027 U	0.006 U	0.0025 U
1,2-Dichloropropane	--	--	--	0.0047 U	0.0037 U	0.0039 U	0.0033 U	0.0027 U	0.006 U	0.0025 U
cis-1,3-Dichloropropene	--	--	--	0.0023 U	0.019 U	0.002 U	0.017 U	0.0014 U	0.003 U	0.0013 U
trans-1,3-Dichloropropene	--	--	--	0.0023 U	0.019 U	0.002 U	0.017 U	0.0014 U	0.003 U	0.0013 U
1,4-Dioxane	--	--	--	0.23 U	0.19 U	0.2 U	0.17 U	0.14 U	0.3 U	0.13 U
Ethylbenzene	0.43	3.7	--	0.0047 U	0.0037 U	0.0039 U	0.0033 U	0.0027 U	0.006 U	0.0025 U
Methyl N-Butyl Ketone (2-Hexanone)	--	--	--	0.047 U	0.037 U	0.039 U	0.033 U	0.027 U	0.06 U	0.025 U
Isopropylbenzene (Cumene)	0.21	1.8	--	0.0047 U	0.0037 U	0.0039 U	0.0033 U	0.0027 U	0.006 U	0.0025 U
Methyl Acetate	--	--	--	0.0047 U	0.0037 U	0.0039 U	0.0033 U	0.0027 U	0.006 U	0.0025 U
Methyl-tert-butylether (MTBE)	--	--	--	0.0094 U	0.0074 U	0.0078 U	0.0067 U	0.0054 U	0.012 U	0.005 U
Methylcyclohexane	--	--	--	0.0047 U	0.0037 U	0.0039 U	0.0033 U	0.0027 U	0.006 U	0.0025 U
Dichloromethane	--	--	--	0.047 U	0.037 U	0.039 U	0.033 U	0.027 U	0.06 U	0.025 U
4-Methyl-2-Pentanone (MIBK)	--	--	--	0.047 U	0.037 U	0.039 U	0.033 U	0.027 U	0.06 U	0.025 U
Styrene	--	--	--	0.0047 U	0.0037 U	0.0039 U	0.0033 U	0.0027 U	0.006 U	0.0025 U
1,1,2,2-Tetrachloroethane	2.8	5.4	--	0.0023 U	0.0019 U	0.002 U	0.017 U	0.0014 U	0.003 U	0.0013 U
Tetrachloroethene	16	57	--	0.0047 U	0.0037 U	0.0039 U	0.0033 U	0.0027 U	0.006 U	0.0025 U
Toluene	0.93	4.5	--	0.0047 U	0.0037 U	0.0039 U	0.0033 U	0.0027 U	0.006 U	0.0025 U
1,2,3-Trichlorobenzene	0.23	2.8	--	0.0047 U	0.0037 U	0.0039 U	0.0033 U	0.0027 U	0.006 U	0.0025 U
1,2,4-Trichlorobenzene	35	55	--	0.0047 U	0.0037 U	0.0039 U	0.0033 U	0.0027 U	0.006 U	0.0025 U
1,1,1-Trichloroethane	1.9	3.5	0.25	0.0047 U	0.0037 U	0.0039 U	0.0033 U	0.0027 U	0.006 U	0.0025 U
1,1,2-Trichloroethane	1.9	3.5	0.25	0.0047 U	0.0037 U	0.0039 U	0.0033 U	0.0027 U	0.006 U	0.0025 U

Table C11
Volatile Organic Compound Analytical Results for 2022 Sediment
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYSDEC FRESHWATER SGVS CLASS A	NYSDEC FRESHWATER SGVS CLASS C	NYSDEC WILDLIFE BSGV	Unnamed Pond	Polishing Pond Influent	DUP-Polishing Pond Influent	Polishing Pond Effluent	GFFC1	GFFC2	GFFC3
Sample Date				10/3/2022	10/3/2022	10/3/2022	10/3/2022	10/3/2022	10/3/2022	10/3/2022
Trichloroethene	1.8	8.6	--	0.0047 U	0.0037 U	0.0039 U	0.0033 U	0.0027 U	0.006 U	0.0025 U
Trichlorofluoromethane (Freon 11)				0.023 U	0.019 U	0.02 U	0.017 U	0.014 U	0.03 U	0.013 U
1,1,2-trichloro-1,2,2-trifluoroethane (Freon 1)	--	--	--	0.023 U	0.019 U	0.02 U	0.017 U	0.014 U	0.03 U	0.013 U
Vinyl Chloride	--	--	--	0.023 U	0.019 U	0.02 U	0.017 U	0.014 U	0.03 U	0.013 U
Xylenes (total)	0.59	5.2	--	0.0047 U	0.0037 U	0.0039 U	0.0033 U	0.0027 U	0.006 U	0.0025 U
Total VOCs	--	--	--	0.025 J	0.207 J	0.156 J	0.032 J	ND	0.018 J	ND

Notes:
Sediment Guidance Values (SGVs) are normalized to 2% total organic carbon (TOC) since sample specific TOC results are not available, as presented in New York State Department of Environmental Conservation
All sediment samples for which SGVs are available are classified as Class A sediment.
The sum of trichloroethane isomers were used for the SGVs for each isomer (1,1,1-Trichloroethane and 1,1,2-Trichloroethane).
Concentrations detected above the NYSDEC sediment guidance values (SGV) for wildlife are highlighted in yellow.

Definitions:
J - The concentration is an approximate value.
mg/Kg - milligrams per kilogram.
ND - Non detect
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
"--" - No regulatory criteria exists for respective analyte.
SGV - Sediment Guidance Values

Table C12
Polychlorinated Biphenyl Analytical Results for 2022 Sediment
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYSDEC FRESHWATER SGVS CLASS A	NYSDEC FRESHWATER SGVS CLASS C	NYSDEC WILDLIFE BSGV	Unnamed Pond	Polishing Pond Influent	DUP-Polishing Pond Influent	Polishing Pond Effluent	GFFC1	GFFC2	GFFC3
Sample Date				10/3/2022	10/3/2022	10/3/2022	10/3/2022	10/3/2022	10/3/2022	10/3/2022
Polychlorinated Biphenyls (mg/Kg)										
Aroclor 1016	--	--	--	0.13 U	0.15 U	0.16 U	0.13 U	0.11 U	0.22 U	0.1 U
Aroclor 1221	--	--	--	0.13 U	0.15 U	0.16 U	0.13 U	0.11 U	0.22 U	0.1 U
Aroclor 1232	--	--	--	0.13 U	0.15 U	0.16 U	0.13 U	0.11 U	0.22 U	0.1 U
Aroclor 1242	--	--	--	0.13 U	0.15 U	0.16 U	0.13 U	0.13	0.22 U	0.1 U
Aroclor 1248	--	--	--	0.13 U	0.15 U	0.16 U	0.13 U	0.11 U	0.22 U	0.1 U
Aroclor 1254	--	--	--	0.13 U	0.15 U	0.16 U	0.13 U	0.11 U	0.22 U	0.1 U
Aroclor 1260	--	--	--	0.13 U	0.15 U	0.16 U	0.13 U	0.11 U	0.22 U	0.1 U
Aroclor 1262	--	--	--	0.13 U	0.15 U	0.16 U	0.13 U	0.11 U	0.22 U	0.1 U
Aroclor 1268	--	--	--	0.13 U	0.15 U	0.16 U	0.13 U	0.11 U	0.22 U	0.1 U
Total PCBs	0.1	1	0.0041	ND	ND	ND	ND	0.13	ND	ND

Notes:
All sediment samples for which Sediment Guidance Values (SGVs) are available are classified as Class A sediment.
Concentrations detected above the NYSDEC Fresh Water SGVs for Class A sediments are highlighted in yellow.

Definitions:
mg/Kg - milligrams per kilogram.
ND - Non detect.
SGV - sediment guidance value.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
"--" - No regulatory criteria exists for respective analyte.

Table C13
Metal Analytical Results for 2022 Sediment
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYSDEC FRESHWATER SGVS CLASS A	NYSDEC FRESHWATER SGVS CLASS C	Unnamed Pond	Polishing Pond Influent	DUP-Polishing Pond Influent	Polishing Pond Effluent	GFFC1	GFFC2	GFFC3
Sample Date			10/3/2022	10/3/2022	10/3/2022	10/3/2022	10/3/2022	10/3/2022	10/3/2022
Metals (mg/Kg)									
Aluminum	--	--	5500	15000 J	27000 J	22000	4400	6300	6500
Antimony	--	--	1.9 J	3.0 J	3.2 J	2.0 J	0.88 J	4.9 U	1.8 J
Arsenic	10	33	3.0 J	3.6 J	4.7 J	3.0 J	0.99 J	7.9 J	2.1 J
Barium	--	--	36	120 J	210 J	160	24	130	49
Beryllium	--	--	0.20 J	0.56	1.1	0.81	0.19 J	0.27 J	0.27
Cadmium	1	5	0.57 U	0.20 J	0.26 J	0.23 J	0.24 J	0.93 J	0.19 J
Calcium	--	--	4300	3100	3800	3500	1600	7000	2600
Chromium	43	110	6.3	24 J	44 J	35	7.4	17	11
Cobalt	--	--	3.8	11 J	20 J	15	2.7	11	4.9
Copper	32	150	5.5	17	12	19	7.5	26	7.0
Iron	--	--	9600	29000 J	55000 J	26000	5700	33000	13000
Lead	36	130	5.4	13 J	23 J	17	52	46	15
Magnesium	--	--	2400	4700 J	10000 J	6600	1700	4100	3000
Manganese	--	--	65	250	300	260	57	4500	260
Mercury	0.2	1	0.044 U	0.050	0.021 J	0.044 J	0.060	0.32	0.048
Nickel	23	49	6.6	18 J	32 J	27	4.8	13	9.6
Potassium	--	--	580	1900 J	3800 J	2800 J	380	810	1100 J
Selenium	--	--	5.7 U	6 U	6.6 U	5.8 U	4.8 U	9.8 U	4.4 U
Silver	1	2.2	0.57 U	0.6 U	0.66 U	0.58 U	0.48 U	6.8 J	0.24 J
Sodium	--	--	290	170 J	210 J	210 J	97 J	170 J	130 J
Thallium	--	--	1.4 J	3 U	3.3 U	2.9 U	2.4 U	4.9 U	2.2 U
Vanadium	--	--	13	34 J	59 J	44	9.8	19	13
Zinc	120	460	31 J	71 J	94 J	85 J	66 J	190 J	85 J

Notes:
All detected analytical sediment sample data for which Sediment Guidance Values (SGVs) are available are classified as Class A, B, or C sediment in accordance with New York State Department of Environmental Conservation (NYSDEC) 2014 and indicated by shading.

Class A sediments, undetected and unclassified sediment concentrations have no highlight (white background).

Concentrations detected between the NYSDEC Class A and Class C SGVs are identified as Class B sediments and are highlighted in yellow.

Concentrations detected above NYSDEC Class C SGVs are highlighted in orange.

Definitions:
B - Compound was found in the blank sample.
J - The concentration is an approximate value.
mg/Kg - milligrams per kilogram.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
UJ - The compound was analyzed for but not detected. The reported quantitation limit is approximate.
SGV - Sediment Guidance Values
"--" - No regulatory criteria exists for respective analyte.

Table C14
Perfluorinated Alkyl Substances Analytical Results for 2022 Sediment
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	Unnamed Pond	Polishing Pond Influent	DUP-Polishing Pond Influent	Polishing Pond Effluent	GFFC1	GFFC2	GFFC3
Sample Date	**10/3/2022**	**10/3/2022**	**10/3/2022**	**10/3/2022**	**10/3/2022**	**10/3/2022**	**10/3/2022**
Perfluorinated Alkyl Substances (µg/Kg)							
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	0.75 U	0.81 U	0.86 U	0.78 U	0.65 U	1.2 U	0.59 U
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	0.75 U	0.81 U	0.86 U	0.78 U	0.65 U	1.2 U	0.59 U
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	5.7 J	0.81 U	0.86 U	0.78 U	0.65 U	1.2 UJ	0.59 U
N-Methylperfluoroocatane sulfonamidoacetic acid (MeFOSAA)	0.75 UJ	0.81 U	0.86 U	0.78 U	0.65 U	1.2 UJ	0.59 U
Perfluorobutane sulfonic acid (PFBS)	0.75 U	0.81 U	0.86 U	0.78 U	0.65 U	1.2 U	0.59 U
Perfluorobutanoic acid (PFBA)	0.75 U	0.81 U	0.86 U	0.19 J	0.65 U	1.2 U	0.59 U
Perfluorodecane sulfonic acid (PFDS)	0.75 U	0.81 U	0.86 U	0.78 U	0.65 U	1.2 U	0.59 U
Perfluorodecanoic acid (PFDA)	0.75 U	0.81 U	0.86 U	0.78 U	0.65 U	1.2 U	0.59 U
Perfluorododecanoic acid (PFDoA)	0.75 U	0.81 U	0.86 U	0.78 U	0.65 U	1.2 U	0.59 U
Perfluoroheptane sulfonic acid (PFHpS)	0.75 U	0.81 U	0.86 U	0.78 U	0.65 U	1.2 U	0.59 U
Perfluoroheptanoic acid (PFHpA)	0.75 U	0.81 U	0.86 U	0.78 U	0.65 U	1.2 U	0.59 U
Perfluorohexane sulfonic acid (PFHxS)	0.75 U	0.81 U	0.86 U	0.78 U	0.65 U	1.2 U	0.59 U
Perfluorohexanoic acid (PFHxA)	0.75 U	0.81 U	0.86 U	0.78 U	0.65 U	1.2 U	0.59 U
Perfluorononanoic acid (PFNA)	0.75 U	0.81 U	0.86 U	0.78 U	0.65 U	1.2 U	0.59 U
Perfluorooctane sulfonamide (PFOSA)	0.20 J	0.81 U	0.86 U	0.78 U	0.65 U	1.2 U	0.59 U
Perfluorooctane sulfonic acid (PFOS)	1.3	0.81 U	0.86 U	0.75 J	0.12 J	0.26 J	0.59 U
Perfluorooctanoic acid (PFOA)	0.75 U	0.81 U	0.86 U	0.78 U	0.65 U	1.2 U	0.59 U
Perfluoropentanoic acid (PFPeA)	0.75 U	0.81 U	0.86 U	0.78 U	0.65 U	1.2 U	0.59 U
Perfluorotetradecanoic acid (PFTeDA)	0.75 UJ	0.81 U	0.86 UJ	0.78 U	0.65 UJ	1.2 UJ	0.59 U
Perfluorotridecanoic acid (PFTrDA)	0.75 UJ	0.81 U	0.86 UJ	0.78 U	0.65 UJ	1.2 UJ	0.59 U
Perfluoroundecanoic acid (PFUdA)	0.75 U	0.81 U	0.86 U	0.78 U	0.65 U	1.2 U	0.59 U
Total Perfluoroalkylated substances (PFASs)	7.2 J	ND	ND	0.94 J	0.12 J	0.26 J	ND
Total PFOA and PFOS	1.3	ND	ND	0.75 J	0.12 J	0.26 J	ND

Notes:
There are currently no regulatory standards or guidance values for Perfluorinated Alkyl Substances in sediment.

Definitions:
J - The concentration is an approximate value.
µg/Kg - micrograms per kilogram.
NA - Not analyzed.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
UJ - The compound was analyzed for but not detected. The reported quantitation limit is approximate.

Table C15
Volatile Organic Compound Analytical Results for 2022 Soil
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYSDEC 6 NYCRR Part 375 Commercial Use	Cell 1	Cell 2	Cell 3
Sample Date		10/3/2022	9/29/2022	9/29/2022
Volatile Organic Compounds (mg/Kg)				
Acetone	500	0.14 U	11 U	5.1 U
Benzene	44	0.0029 U	0.21 U	0.1 U
Bromochloromethane		0.0029 U	0.21 U	0.1 U
Bromodichloromethane	--	0.0029 U	0.21 U	0.1 U
Bromoform	--	0.0029 U	0.42 U	0.21 U
Bromomethane	--	0.014 U	0.42 U	0.21 U
2-Butanone (MEK)	500	0.058 U	4.2 U	2.1 U
Carbon Disufide	--	0.014 U	1.1 U	0.51 U
Carbon Tetrachloride	22	0.0029 U	0.21 U	0.1 U
Chlorobenzene	500	0.0029 U	0.21 U	0.1 U
Chlorodibromomethane	--	0.0014 U	0.11 U	0.051 U
Chloroethane	--	0.029 U	0.42 U	0.21 U
Chloroform	350	0.0058 U	0.42 U	0.21 U
Chloromethane		0.014 U	0.42 U	0.21 U
Cyclohexane		0.014 U	0.42 U	0.21 U
1,2-Dibromo-3-chloropropane (DBCP)		0.0058 U	1.1 U	0.51 U
1,2-Dibromoethane (EDB)	--	0.0014 U	0.11 U	0.051 U
1,2-Dichlorobenzene	500	0.0029 U	0.21 U	0.1 U
1,3-Dichlorobenzene	280	0.0029 U	0.21 U	0.1 U
1,4-Dichlorobenzene	130	0.0029 U	0.21 U	0.1 U
Dichlorodifluoromethane (Freon 12)	--	0.029 U	0.42 U	0.21 U
1,1-Dichloroethane	240	0.0029 U	0.21 U	0.1 U
1,2-Dichloroethane	30	0.0029 U	0.21 U	0.1 U
1,1-Dichloroethylene	500	0.0058 U	0.21 U	0.1 U
cis-1,2-Dichloroethylene	500	0.0029 U	0.21 U	0.1 U
trans-1,2-Dichloroethylene	500	0.0029 U	0.21 U	0.1 U
1,2-Dichloropropane	--	0.0029 U	0.21 U	0.1 U
cis-1,3-Dichloropropene	--	0.0014 U	0.11 U	0.051 U
trans-1,3-Dichloropropene	--	0.0014 U	0.11 U	0.051 U
1,4-Dioxane		0.14 U	11 U	5.1 U
Ethylbenzene	390	0.0029 U	0.21 U	0.1 U

Table C15
Volatile Organic Compound Analytical Results for 2022 Soil
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYSDEC 6 NYCRR Part 375 Commercial Use	Cell 1	Cell 2	Cell 3
Sample Date		10/3/2022	9/29/2022	9/29/2022
2-Hexanone (MBK)	--	0.029 U	2.1 U	1 U
Isopropylbenzene (Cumene)	--	0.0029 U	0.21 U	0.1 U
Methyl Acetate	--	0.0029 U	0.75 J	0.62 J
Methyl tert-Butyl Ether (MTBE)	500	0.0058 U	0.21 U	0.1 U
Methyl Cyclohexane	--	0.0029 U	0.21 U	0.1 U
Methylene Chloride	500	0.029 U	1.1 U	0.51 U
Styrene	--	0.0029 U	0.21 U	0.1 U
Tetrachloroethylene	150	0.0029 U	0.21 U	0.1 U
1,2,3-Trichlorobenzene	--	0.0029 U	1.1 U	0.51 U
1,1,1-Trichloroethane	500	0.0029 U	0.21 U	0.1 U
1,1,2-Trichloroethane	--	0.0029 U	0.21 U	0.1 U
Trichloroethylene	200	0.0029 U	0.21 U	0.1 U
Trichlorofluoromethane (Freon 11)	--	0.014 U	0.42 U	0.21 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1	--	0.014 U	0.42 U	0.21 U
Vinyl Chloride	13	0.014 U	0.42 UJ	0.21 UJ
Total Xylenes	500	0.0029 U	0.21 U	0.1 U
Total VOCs	--	ND	0.75 J	0.62 J

Notes:
Concentrations detected above the New York State Department of Environmental Conservation (NYSDEC) 6 New York Codes, Rules, and Regulations (NYCRR) Part 375 Commerical use soil cleanup objective are highlighted in yellow.

Definitions:
J - The concentration is an approximate value.
mg/Kg - milligrams per kilogram.
ND - Non detect.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
UJ - The compound was analyzed for but was not detected. The reported quantation limit is approximate.
"--" - No regulatory criteria exists for respective analyte.

Table C16
Polychlorinated Biphenyl Analytical Results for 2022 Soil
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYSDEC 6 NYCRR Part 375 Commercial Use	Cell 1	Cell 2	Cell 3
Sample Date		10/3/2022	9/29/2022	9/29/2022
Polychlorinated Biphenyls (mg/Kg)				
PCB-1016	--	0.12 U	0.18 U	0.089 U
PCB-1221	--	0.12 U	0.18 U	0.089 U
PCB-1232	--	0.12 U	0.18 U	0.089 U
PCB-1242	--	0.12 U	0.18 U	0.089 U
PCB-1248	--	0.12 U	0.18 U	0.089 U
PCB-1254	--	0.12 U	0.079 J	0.089 U
PCB-1260	--	0.12 U	0.12 J	0.062 J
PCB-1262	--	0.12 U	0.18 U	0.089 U
PCB-1268	--	0.12 U	0.18 U	0.089 U
Total PCBs	1.0	ND	0.20 J	0.062 J

Notes:
Concentrations detected above the New York State Department of Environmental Conservation (NYSDEC) 6 New York Codes, Rules, and Regulations (NYCRR) Part 375 Commerical use soil cleanup objective are highlighted in yellow.

Definitions:
J - The concentration is an approximate value.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
ND - Non detect.
mg/Kg - milligrams per kilogram.
"--" - No regulatory criteria exists for respective analyte.

Table C17
Metal Analytical Results for 2022 Soil
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYSDEC 6 NYCRR Part 375 Commercial Use	Cell 1	Cell 2	Cell 3
Sample Date		10/3/2022	9/29/2022	9/29/2022
Metals (mg/Kg)				
Aluminum	--	23000	26000	3000
Antimony	--	0.56 J	1.7 J	1.9 U
Arsenic	16	6.1	6.3 J	3.8 J
Barium	400	120	170	26
Beryllium	590	0.6	1.1	0.16 J
Cadmium	9.3	0.21 J	0.33 J	0.16 J
Calcium	--	22000	12000	55000
Chromium	1,500	19 J	35	7
Cobalt	--	4.5	8.4	2.9
Copper	270	24	40	4.8
Iron	--	15000	17000	5700
Lead	1,000	7.1	15	5.9
Magnesium	--	11000	4900	18000
Manganese	10,000	150	340	190
Mercury	2.8	0.024 J	0.03 J	0.011 J
Nickel	310	15	26	7
Potassium	--	2600	2800 J	960 J
Selenium	1,500	4.9 U	7.8 U	3.8 U
Silver	1,500	0.49 U	0.78 U	0.17 J
Sodium	--	55 J	310 J	220
Thallium	--	2.4 U	1.9 J	1.9 U
Vanadium	--	21 J	37	7.3
Zinc	10,000	47 J	86 J	25 J

Notes:
Concentrations detected above the New York State Department of Environmental Conservation (NYSDEC) 6 New York Codes, Rules, and Regulations (NYCRR) Part 375 Commerical use soil cleanup objective are highlighted in yellow.

Definitions:
J - The concentration is an approximate value.
mg/Kg - milligrams per kilogram.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
"--" - No regulatory criteria exists for respective analyte.

Table C18
Perfluorinated Alkyl Substances Analytical Results for 2022 Soil
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYSDEC Commercial Use Soil Guidance Value	Cell 1	Cell 2	Cell 3
Sample Date		10/3/2022	9/29/2022	9/29/2022
Perfluorinated Alkyl Substances (µg/Kg)				
Perfluorobutanoic acid (PFBA)	--	0.65 U	1 U	0.081 J
Perfluorobutane sulfonic acid (PFBS)	--	0.65 U	1 U	0.54 U
Perfluoropentanoic acid (PFPeA)	--	0.65 U	1 U	0.54 U
Perfluorohexanoic acid (PFHxA)	--	0.65 U	1 U	0.54 U
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	--	0.65 U	1 U	0.54 U
Perfluorodecanoic acid (PFDA)	--	0.65 U	1 U	0.088 J
Perfluorododecanoic acid (PFDoA)	--	0.65 U	1 U	0.54 U
Perfluoroheptane sulfonic acid (PFHpS)	--	0.65 U	1 U	0.54 U
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	0.65 UJ	1 U	0.54 U
N-Methylperfluoroocatane sulfonamidoacetic acid (MeFOSAA)	--	0.65 U	1 U	0.54 U
Perfluorotetradecanoic acid (PFTA)	--	0.65 UJ	1 U	0.54 U
Perfluorotridecanoic acid (PFTrDA)	--	0.65 UJ	1 U	0.54 U
Perfluorodecane sulfonic acid (PFDS)	--	0.65 U	1 U	0.54 U
Perfluorooctane sulfonamide (FOSA)	--	0.65 U	1 U	0.54 U
Perfluorohexane sulfonic acid (PFHxS)	--	0.65 U	1 U	0.54 U
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	--	0.65 U	1 U	0.54 U
Perfluoroundecanoic acid (PFUnA)	--	0.65 U	1 U	0.54 U
Perfluoroheptanoic acid (PFHpA)	--	0.65 U	1 U	0.11 J
Perfluorooctanoic acid (PFOA)	500	0.65 U	1 U	0.27 J
Perfluorooctane sulfonic acid (PFOS)	440	0.17 J	0.66 J	0.3 J
Perfluorononanoic acid (PFNA)	--	0.65 U	1 U	0.11 J
Total PFOA + PFOS	--	0.17 J	0.66 J	0.57 J
Total PFAS	--	0.17 J	0.66 J	0.96 J

Notes:
Concentrations detected above the New York State Department of Environmental Conservation (NYSDEC) Commerical Use soil guidance values are highlighted in yellow.

Definitions:

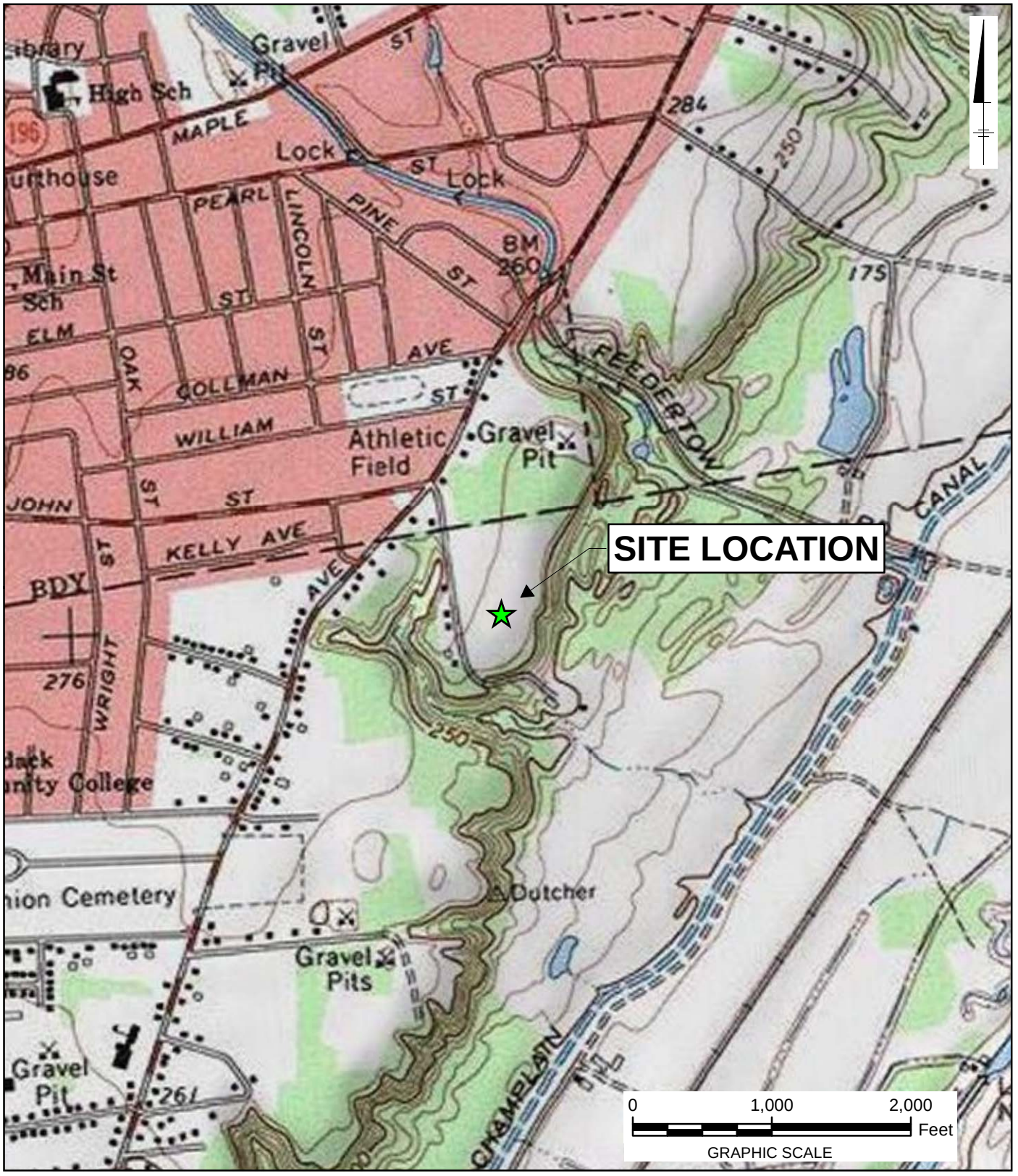
J - The concentration is an approximate value.

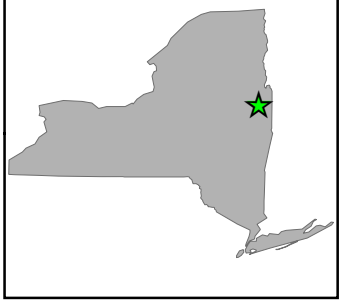
µg/Kg - micrograms per kilogram.

NA - Not analyzed.

U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

"--" - No regulatory criteria exists for respective analyte.





NOTE:

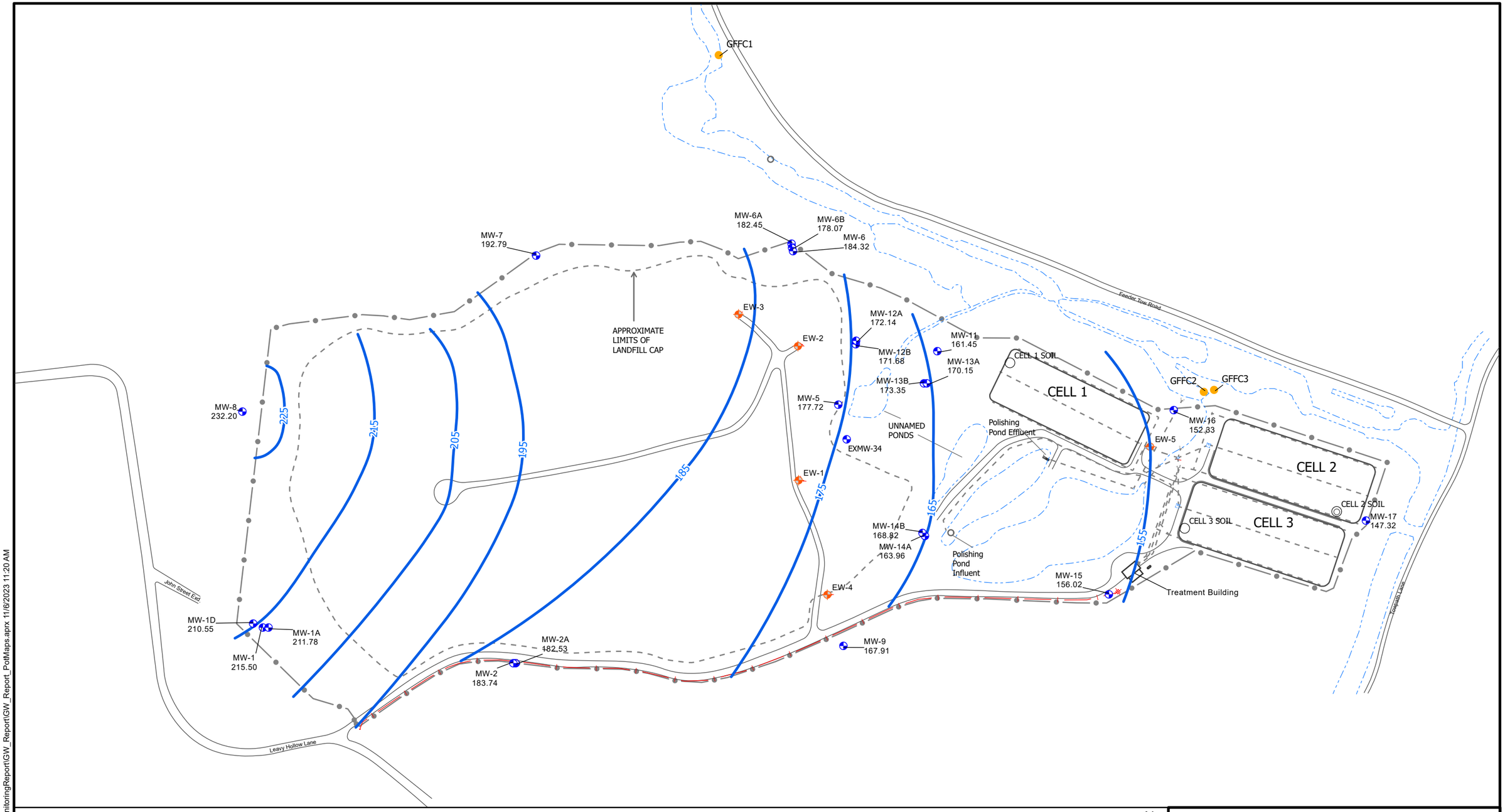
1. USGS QUADRANGLE INFORMATION
   QUAD ID: 43073-C5
   NAME: HUDSON FALLS, NEW YORK
   DATE PUB: 1968

FORT EDWARD LANDFILL, HUDSON FALLS, NY
NYSDEC SITE 558001
GROUNDWATER MONITORING REPORT

SITE LOCATION MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE C1



Legend

- Monitoring Well
- Extraction Well
- Road
- Water Edge
- Buried Electrical Line
- Fence
- Underground Treatment Piping
- Potentiometric Contour
- 215.5 Groundwater Elevation (in feet above mean seal level [ft. amsl])

0 500 1,000 1,500 2,000 Feet

GRAPHIC SCALE

N

FORT EDWARD LANDFILL, HUDSON FALLS, NY
NYSDEC SITE 558001

GROUNDWATER MONITORING REPORT

POTENTIOMETRIC CONTOURS SEPTEMBER 2022

ARCADIS

FIGURE
C2

City: Clifton Park Div/Group: ENV Created By: J. Kullberg Last Saved By: Giroux
Project Fort Edward Landfill
T:_ENV\NYSDEC\FtEdward\GroundwaterMonitoringReport\GW_Report\GW_Report_PotMaps.aprx 11/6/2023 11:20 AM

EW-3	Units	MAY 2016	AUG 2017	OCT 2018	MAY 2021	SEPT 2022
Total VOCs	µg/L	45.1	132.52	111.35	36.66	123.31
Iron	mg/L	**33.9**	**33**	**38**	**31.9**	**130**
Total PCBs	µg/L	**23**	ND	ND	**1.9**	ND
Total PFAS	ng/L	NA	129	NA	132.27	124.1
1,4-Dioxane	µg/L	NA	**74**	NA	**68**	**66**

MW-6B (69'- 79')	Units	MAY 2016	AUG 2017	OCT 2018	MAY 2021	SEPT 2022
Total VOCs	µg/L	ND	ND	ND	ND	23.31
Iron	mg/L	**0.34**	0.24	**0.74**	**0.82**	**120**
Total PCBs	µg/L	**29**	ND	ND	ND	ND
Total PFAS	ng/L	NA	0.84	NA	9.18	7
1,4-Dioxane	µg/L	NA	ND	NA	0.15	0.25

MW-6 (4'- 14')	Units	MAY 2016	AUG 2017	OCT 2018	MAY 2021	SEPT 2022
Total VOCs	µg/L	31.7	32.9	24.1	19	15.94
Iron	mg/L	**106**	**120**	**100**	**100**	**19**
Total PCBs	µg/L	**15**	ND	**0.58**	**0.79**	ND
Total PFAS	ng/L	NA	26.7	NA	42.38	50.5
1,4-Dioxane	µg/L	NA	**3.2**	NA	**5.2**	**8.1**

MW-6A (49'- 59')	Units	MAY 2016	AUG 2017	OCT 2018	MAY 2021	SEPT 2022
Total VOCs	µg/L	28.18	29.5	14.9	12.71	ND
Iron	mg/L	**19.7**	**21**	**18**	**13.9**	**0.44**
Total PCBs	µg/L	**14**	ND	ND	ND	ND
Total PFAS	ng/L	NA	36.8	NA	50.14	43.3
1,4-Dioxane	µg/L	NA	**9.6**	NA	**4.4**	**6.4**

MW-12A (6'-16')	Units	MAY 2021	SEPT 2022
Total VOCs	µg/L	9.07	4.45
Iron	mg/L	**45.6**	**33**
Total PCBs	µg/L	ND	ND
Total PFAS	ng/L	218.38	232.1
1,4-Dioxane	µg/L	**50**	**78**

MW-12B (26'-36')	Units	MAY 2021	SEPT 2022
Total VOCs	µg/L	7.0	4.53
Iron	mg/L	**1.03**	**16**
Total PCBs	µg/L	ND	ND
Total PFAS	ng/L	177.27	225
1,4-Dioxane	µg/L	**61**	**96**

MW-11 (11.5'-21.5')	Units	MAY 2016	AUG 2017	OCT 2018	MAY 2021	SEPT 2022
Total VOCs	µg/L	NS	0.44	ND	ND	NS
Iron	mg/L	NS	**0.51**	**370**	0.26	NS
Total PCBs	µg/L	NS	ND	ND	ND	NS
Total PFAS	ng/L	NS	ND	NA	10.2	NS
1,4-Dioxane	µg/L	NS	ND	NA	ND	NS

MW-13B (40.65'-50.65')	Units	MAY 2021	SEPT 2022
Total VOCs	µg/L	ND	ND
Iron	mg/L	0.185	0.16
Total PCBs	µg/L	ND	ND
Total PFAS	ng/L	15.24	8.5
1,4-Dioxane	µg/L	ND	ND

MW-13A (20.1'-30.1')	Units	MAY 2021	SEPT 2022
Total VOCs	µg/L	ND	ND
Iron	mg/L	**0.457**	**0.41**
Total PCBs	µg/L	ND	ND
Total PFAS	ng/L	13.61	5.1
1,4-Dioxane	µg/L	0.12	0.063

MW-16 (5'-15')	Units	MAY 2021	SEPT 2022
Total VOCs	µg/L	ND	0.65
Iron	mg/L	0.172	0.089
Total PCBs	µg/L	ND	ND
Total PFAS	ng/L	1325.98	185.8
1,4-Dioxane	µg/L	**0.84**	**0.98**

MW-7 (8'-18')	Units	MAY 2016	AUG 2017	OCT 2018	MAY 2021	SEPT 2022
Total VOCs	µg/L	0.6	ND	1.1	ND	0.37
Iron	mg/L	**157**	**160**	**130**	**146**	**110**
Total PCBs	µg/L	ND	ND	ND	ND	ND
Total PFAS	ng/L	NA	3.83	NA	10.79	17.6
1,4-Dioxane	µg/L	NA	ND	NA	ND	ND

MW-8 (5'-10')	Units	MAY 2016	AUG 2017	OCT 2018	MAY 2021	SEPT 2022
Total VOCs	µg/L	ND	ND	ND	ND	ND
Iron	mg/L	0.073	0.057	ND	0.14	0.035
Total PCBs	µg/L	ND	ND	ND	ND	ND
Total PFAS	ng/L	NA	1.3	NA	5.84	7.4
1,4-Dioxane	µg/L	NA	ND	NA	ND	ND

EW-2	Units	MAY 2016	AUG 2017	OCT 2018	MAY 2021	SEPT 2022
Total VOCs	µg/L	12.1	72.37	65.59	15.21	8.28
Iron	mg/L	**30.3**	**22**	**34**	**18**	**45**
Total PCBs	µg/L	**400**	ND	ND	**0.3**	ND
Total PFAS	ng/L	NA	137	NA	205.19	230.2
1,4-Dioxane	µg/L	NA	**48**	NA	**44**	**42**

MW-1 (38' - 48')	Units	MAY 2016	AUG 2017	OCT 2018	MAY 2021	SEPT 2022
Total VOCs	µg/L	ND	ND	ND	ND	ND
Iron	mg/L	0.079	ND	0.23	0.074	0.14
Total PCBs	µg/L	ND	ND	ND	ND	ND
Total PFAS	ng/L	NA	23.60	NA	34.87	39
1,4-Dioxane	µg/L	NA	ND	NA	ND	ND

MW-5 (5'- 15')	Units	MAY 2016	AUG 2017	OCT 2018	MAY 2021	SEPT 2022
Total VOCs	µg/L	1,259	908.4	358	461.6	238.88
Iron	mg/L	**100**	**54**	**62**	NS	**46**
Total PCBs	µg/L	**0.54**	ND	ND	ND	ND
Total PFAS	ng/L	NA	391	NA	482.71	435.8
1,4-Dioxane	µg/L	NA	**110**	NA	**68**	**66**

EXMW-34	Units	SEPT 2022
Total VOCs	µg/L	2.0
Iron	mg/L	**1.0**
Total PCBs	µg/L	ND
Total PFAS	ng/L	41.5
1,4-Dioxane	µg/L	**8.5**

MW-1D (149' - 169')	Units	MAY 2016	AUG 2017	OCT 2018	MAY 2021	SEPT 2022
Total VOCs	µg/L	ND	ND	ND	ND	ND
Iron	mg/L	0.2	**0.37**	**0.74**	0.169	**3.2**
Total PCBs	µg/L	ND	ND	ND	ND	ND
Total PFAS	ng/L	NA	ND	NA	0.84	2.31
1,4-Dioxane	µg/L	NA	ND	NA	ND	ND

MW-2 (4.5' - 14.5')	Units	MAY 2016	AUG 2017	OCT 2018	MAY 2021	SEPT 2022
Total VOCs	µg/L	ND	ND	ND	ND	ND
Iron	mg/L	**5.3**	**5.2**	**13**	**14.7**	**1.5**
Total PCBs	µg/L	ND	ND	ND	ND	ND
Total PFAS	ng/L	NA	90.10	NA	73.67	110.5
1,4-Dioxane	µg/L	NA	ND	NA	ND	ND

EW-1	Units	MAY 2016	AUG 2017	OCT 2018	MAY 2021	SEPT 2022
Total VOCs	µg/L	1,170	4,817.3	2,513.7	1,054.7	2750
Iron	mg/L	**1,530**	**55**	**53**	**63.6**	**41**
Total PCBs	µg/L	**970**	**250**	**4,400**	**8,600**	**1300**
Total PFAS	ng/L	NA	1590	NA	1809.81	288.2
1,4-Dioxane	µg/L	NA	**140**	NA	**130**	**49**

MW-14B (40'-50')	Units	MAY 2021	SEPT 2022
Total VOCs	µg/L	ND	ND
Iron	mg/L	**0.691**	**0.59**
Total PCBs	µg/L	ND	ND
Total PFAS	ng/L	0.93	4.5
1,4-Dioxane	µg/L	ND	ND

MW-14A (20'-30')	Units	MAY 2021	SEPT 2022
Total VOCs	µg/L	ND	ND
Iron	mg/L	0.0508	0.071
Total PCBs	µg/L	ND	ND
Total PFAS	ng/L	0.5	9.5
1,4-Dioxane	µg/L	ND	ND

MW-17 (20'-30')	Units	MAY 2021	SEPT 2022
Total VOCs	µg/L	442	14.16
Iron	mg/L	**0.635**	**0.63**
Total PCBs	µg/L	ND	ND
Total PFAS	ng/L	1.45	0.7
1,4-Dioxane	µg/L	ND	ND

MW-15 (20'-30')	Units	MAY 2021	SEPT 2022
Total VOCs	µg/L	0.13	ND
Iron	mg/L	ND	ND
Total PCBs	µg/L	ND	ND
Total PFAS	ng/L	88.31	194.1
1,4-Dioxane	µg/L	0.13	ND

MW-1A (59' - 65')	Units	MAY 2016	AUG 2017	OCT 2018	MAY 2021	SEPT 2022
Total VOCs	µg/L	451	ND	ND	ND	ND
Iron	mg/L	**0.48**	0.093	0.083	0.024	0.13
Total PCBs	µg/L	**0.45**	ND	ND	ND	ND
Total PFAS	ng/L	NA	ND	NA	0.96	3.48
1,4-Dioxane	µg/L	NA	ND	NA	ND	0.046

MW-2A (18' - 23')	Units	MAY 2016	AUG 2017	OCT 2018	MAY 2021	SEPT 2022
Total VOCs	µg/L	ND	0.28	ND	ND	ND
Iron	mg/L	**10.8**	**14**	**9.6**	**6.4**	**8.9**
Total PCBs	µg/L	ND	ND	ND	ND	ND
Total PFAS	ng/L	NA	6.9	NA	22.72	22.3
1,4-Dioxane	µg/L	NA	0.28	NA	0.14	ND

EW-4	Units	MAY 2016	AUG 2017	OCT 2018	MAY 2021	SEPT 2022
Total VOCs	µg/L	NS	3.99	ND	ND	1.01
Iron	mg/L	NS	**60**	**24**	**18.3**	**17**
Total PCBs	µg/L	NS	**0.63**	**0.28**	**1.1**	**0.3**
Total PFAS	ng/L	NA	35.9	NA	84.96	61.8
1,4-Dioxane	µg/L	NA	**3.9**	NA	**3.6**	**2**

MW-9 (12.2'-22.2')	Units	MAY 2016	AUG 2017	OCT 2018	MAY 2021	SEPT 2022
Total VOCs	µg/L	ND	5.2	ND	ND	ND
Iron	mg/L	**1.4**	**2.5**	**0.71**	**1.0**	**0.61**
Total PCBs	µg/L	**4.9**	ND	ND	ND	ND
Total PFAS	ng/L	NA	184.0	NA	443.85	627
1,4-Dioxane	µg/L	NA	**5.2**	NA	**1.5**	**1.2**

Analyte (Screen Interval)	Units	NYSDEC Class GA Standards or Guidance Values
Total VOCs	µg/L	--
Iron	mg/L	0.3
Total PCBs	µg/L	0.09
Total PFAS	ng/L	--
1,4-Dioxane	µg/L	0.35

NOTES

1. HIGHLIGHTED VALUES EXCEED NYSDEC CLASS GA STANDARDS OR GUIDANCE VALUES.

MAP BASED ON SURVEY PERFORMED BY DARRAH LAND SURVEYING, PLLC, 4/2017, 12/2019, AND 2/2021.

DEFINITIONS

µg/L - MICROGRAM PER LITER
mg/L - MILLIGRAM PER LITER
ng/L - NANOGRAM PER LITER
NA - NOT ANALYZED
NS - NOT SAMPLED
ND - NOT DETECTED
PCBs - POLYCHLORINATED BIPHENYLS
PFAS - PERFLUORINATED ALKYL SUBSTANCES
VOCs - VOLATILE ORGANIC COMPOUNDS

LEGEND

MONITORING WELL
EXTRACTION WELL
SOIL SAMPLING LOCATION
FEEDER CANAL SAMPLING LOCATION
ROAD
WATER EDGE
BURIED ELECTRICAL LINE
FENCE
UNDERGROUND TREATMENT PIPING

0 250 500 Feet
GRAPHIC SCALE

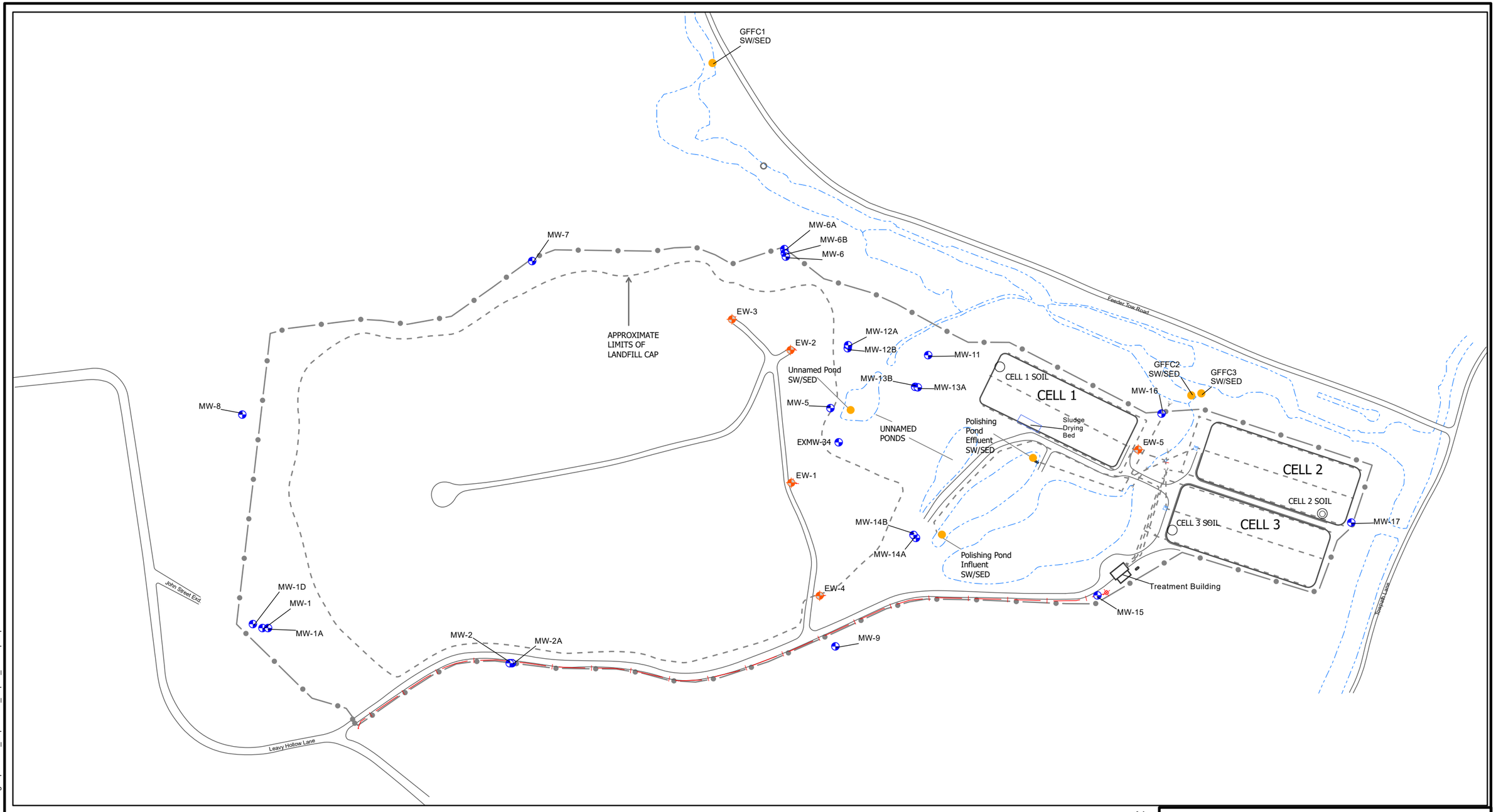
FORT EDWARD LANDFILL, HUDSON FALLS, NY
NYSDEC SITE 558001
GROUNDWATER MONITORING REPORT

GROUNDWATER ANALYTICAL RESULTS SEPTEMBER 2022

ARCADIS

FIGURE
C3

City: Clifton Park Div/Group: ENV Created By: J. Kullberg Last Saved By: LJohns
Project Fort Edward Landfill
\\arcadis-us.com\app\GIS\Processing_ENV\NYSDEC\FtEdward\GroundwaterMonitoringReport\GW_Report\GW_Report aprx 11/6/2023 3:24 PM



0 500 1,000 1,500 2,000 Feet

GRAPHIC SCALE

N

Legend

- Monitoring Well
- Extraction Well
- Soil Sampling Location
- Surface Water/Sediment Sampling Location
- Road
- Water Edge
- Buried Electrical Line
- Fence
- Underground Treatment Piping

MAP BASED ON SURVEY PERFORMED BY DARRAH LAND SURVEYING, PLLC, 4/2017, 12/2019, AND 2/2021.

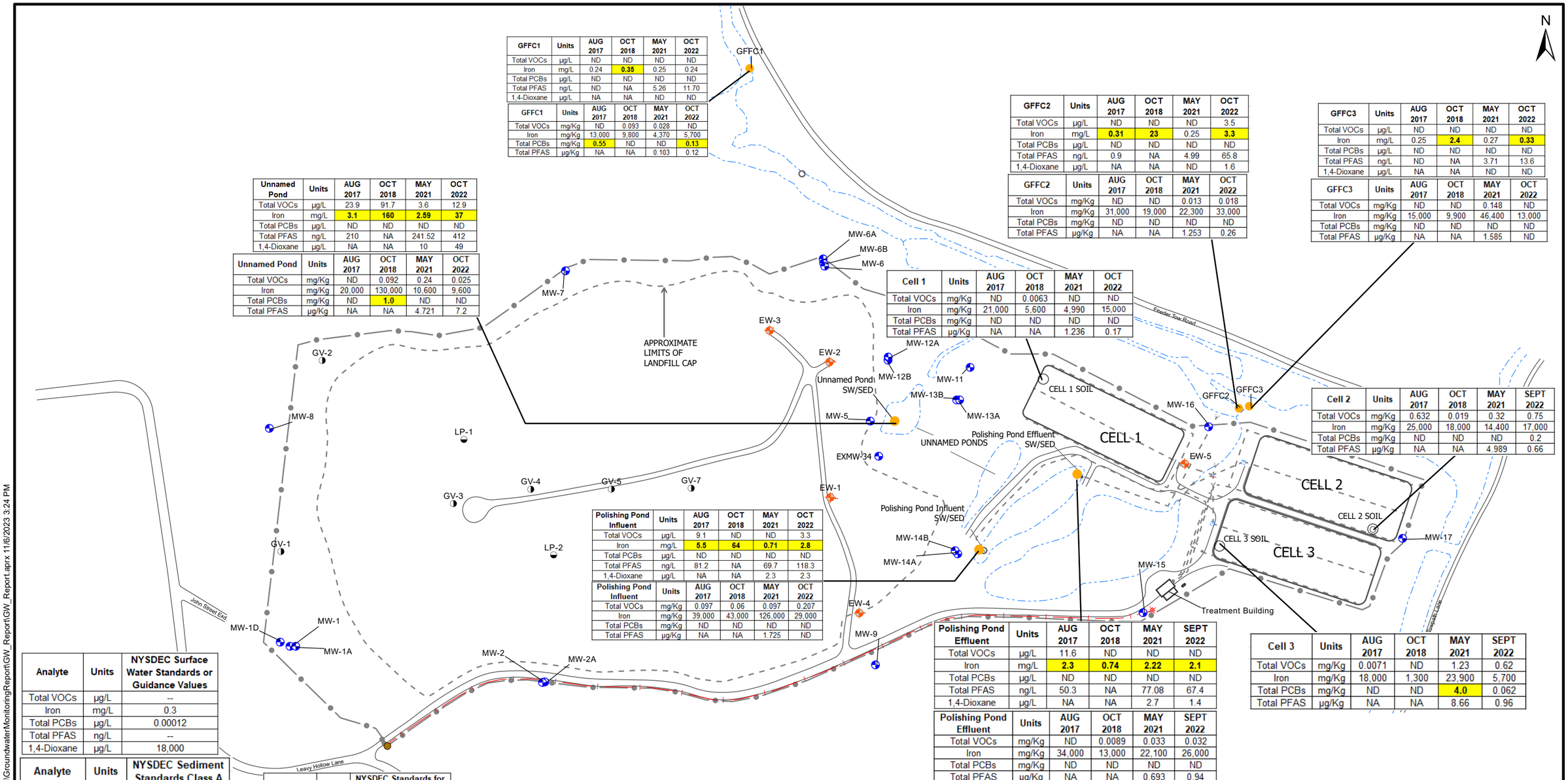
FORT EDWARD LANDFILL, HUDSON FALLS, NY
NYSDEC SITE 558001
GROUNDWATER MONITORING REPORT

SURFACE WATER, SEDIMENT, AND SOIL SAMPLING LOCATIONS

ARCADIS

FIGURE C4

City: Clifton Park Div/Group: ENV Created By: J. Kullberg Last Saved By: Giroux
Project Fort Edward Landfill
T:_ENV\NYSDEC\FtEdward\GroundwaterMonitoringReport\GW_Report\GW_Report_PotMaps.aprx 11/7/2023 10:08 AM



GFFC1	Units	AUG 2017	OCT 2018	MAY 2021	OCT 2022
Total VOCs	µg/L	ND	ND	ND	ND
Iron	mg/L	0.24	**0.35**	0.25	0.24
Total PCBs	µg/L	ND	ND	ND	ND
Total PFAS	ng/L	ND	NA	5.26	11.70
1,4-Dioxane	µg/L	NA	NA	ND	ND

GFFC1	Units	AUG 2017	OCT 2018	MAY 2021	OCT 2022
Total VOCs	mg/Kg	ND	0.093	0.028	ND
Iron	mg/Kg	13,000	9,800	4,370	5,700
Total PCBs	mg/Kg	**0.55**	ND	ND	**0.13**
Total PFAS	µg/Kg	NA	NA	0.103	0.12

GFFC2	Units	AUG 2017	OCT 2018	MAY 2021	OCT 2022
Total VOCs	µg/L	ND	ND	ND	3.5
Iron	mg/L	**0.31**	**23**	0.25	**3.3**
Total PCBs	µg/L	ND	ND	ND	ND
Total PFAS	ng/L	0.9	NA	4.99	65.8
1,4-Dioxane	µg/L	NA	NA	ND	1.6

GFFC2	Units	AUG 2017	OCT 2018	MAY 2021	OCT 2022
Total VOCs	mg/Kg	ND	ND	0.013	0.018
Iron	mg/Kg	31,000	19,000	22,300	33,000
Total PCBs	mg/Kg	ND	ND	ND	ND
Total PFAS	µg/Kg	NA	NA	1.253	0.26

GFFC3	Units	AUG 2017	OCT 2018	MAY 2021	OCT 2022
Total VOCs	µg/L	ND	ND	ND	ND
Iron	mg/L	0.25	**2.4**	0.27	**0.33**
Total PCBs	µg/L	ND	ND	ND	ND
Total PFAS	ng/L	ND	NA	3.71	13.6
1,4-Dioxane	µg/L	NA	NA	ND	ND

GFFC3	Units	AUG 2017	OCT 2018	MAY 2021	OCT 2022
Total VOCs	mg/Kg	ND	ND	0.148	ND
Iron	mg/Kg	15,000	9,900	46,400	13,000
Total PCBs	mg/Kg	ND	ND	ND	ND
Total PFAS	µg/Kg	NA	NA	1.585	ND

Unnamed Pond	Units	AUG 2017	OCT 2018	MAY 2021	OCT 2022
Total VOCs	µg/L	23.9	91.7	3.6	12.9
Iron	mg/L	**3.1**	**160**	**2.59**	**37**
Total PCBs	µg/L	ND	ND	ND	ND
Total PFAS	ng/L	210	NA	241.52	412
1,4-Dioxane	µg/L	NA	NA	10	49

Unnamed Pond	Units	AUG 2017	OCT 2018	MAY 2021	OCT 2022
Total VOCs	mg/Kg	ND	0.092	0.24	0.025
Iron	mg/Kg	20,000	130,000	10,600	9,600
Total PCBs	mg/Kg	ND	**1.0**	ND	ND
Total PFAS	µg/Kg	NA	NA	4.721	7.2

Cell 1	Units	AUG 2017	OCT 2018	MAY 2021	OCT 2022
Total VOCs	mg/Kg	ND	0.0063	ND	ND
Iron	mg/Kg	21,000	5,600	4,990	15,000
Total PCBs	mg/Kg	ND	ND	ND	ND
Total PFAS	µg/Kg	NA	NA	1.236	0.17

Cell 2	Units	AUG 2017	OCT 2018	MAY 2021	SEPT 2022
Total VOCs	mg/Kg	0.632	0.019	0.32	0.75
Iron	mg/Kg	25,000	18,000	14,400	17,000
Total PCBs	mg/Kg	ND	ND	ND	0.2
Total PFAS	µg/Kg	NA	NA	4.989	0.66

Polishing Pond Influent	Units	AUG 2017	OCT 2018	MAY 2021	OCT 2022
Total VOCs	µg/L	9.1	ND	ND	3.3
Iron	mg/L	**5.5**	**64**	**0.71**	**2.8**
Total PCBs	µg/L	ND	ND	ND	ND
Total PFAS	ng/L	81.2	NA	69.7	118.3
1,4-Dioxane	µg/L	NA	NA	2.3	2.3

Polishing Pond Influent	Units	AUG 2017	OCT 2018	MAY 2021	OCT 2022
Total VOCs	mg/Kg	0.097	0.06	0.097	0.207
Iron	mg/Kg	39,000	43,000	126,000	29,000
Total PCBs	mg/Kg	ND	ND	ND	ND
Total PFAS	µg/Kg	NA	NA	1.725	ND

Polishing Pond Effluent	Units	AUG 2017	OCT 2018	MAY 2021	SEPT 2022
Total VOCs	µg/L	11.6	ND	ND	ND
Iron	mg/L	**2.3**	**0.74**	**2.22**	**2.1**
Total PCBs	µg/L	ND	ND	ND	ND
Total PFAS	ng/L	50.3	NA	77.08	67.4
1,4-Dioxane	µg/L	NA	NA	2.7	1.4

Polishing Pond Effluent	Units	AUG 2017	OCT 2018	MAY 2021	SEPT 2022
Total VOCs	mg/Kg	ND	0.0089	0.033	0.032
Iron	mg/Kg	34,000	13,000	22,100	26,000
Total PCBs	mg/Kg	ND	ND	ND	ND
Total PFAS	µg/Kg	NA	NA	0.693	0.94

Cell 3	Units	AUG 2017	OCT 2018	MAY 2021	SEPT 2022
Total VOCs	mg/Kg	0.0071	ND	1.23	0.62
Iron	mg/Kg	18,000	1,300	23,900	5,700
Total PCBs	mg/Kg	ND	ND	**4.0**	0.062
Total PFAS	µg/Kg	NA	NA	8.66	0.96

Analyte	Units	NYSDEC Surface Water Standards or Guidance Values
Total VOCs	µg/L	--
Iron	mg/L	0.3
Total PCBs	µg/L	0.00012
Total PFAS	ng/L	--
1,4-Dioxane	µg/L	18,000

Analyte	Units	NYSDEC Sediment Standards Class A
Total VOCs	mg/Kg	--
Iron	mg/Kg	--
Total PCBs	mg/Kg	0.1
Total PFAS	µg/Kg	--

Analyte	Units	NYSDEC Standards for Commercial Use Soil
Total VOCs	mg/Kg	--
Iron	mg/Kg	--
Total PCBs	mg/Kg	1.0
Total PFAS	µg/Kg	--

0 250 500 Feet

GRAPHIC SCALE

NOTES

1. HIGHLIGHTED VALUES EXCEED NYSDEC CLASS STANDARDS FOR AQUATIC LIFE, SEDIMENT, COMMERCIAL USE, OR GUIDANCE VALUES.
2. SEE ASSOCIATED TABLES FOR FURTHER DETAILS.

MAP BASED ON SURVEY PERFORMED BY DARRAH LAND SURVEYING, PLLC, 4/2017, 12/2019, AND 2/2021.

DEFINITIONS

µg/Kg - MICROGRAM PER KILOGRAM
µg/L - MICROGRAM PER LITER
mg/L - MILLIGRAM PER KILOGRAM
mg/L - MILLIGRAM PER LITER
ng/L - NANOGRAM PER LITER
NA - NOT ANALYZED
NS - NOT SAMPLED
ND - NOT DETECTED
PCBs - POLYCHLORINATED BIPHENYLS
PFAS - PERFLUORINATED ALKYL SUBSTANCES
VOCs - VOLATILE ORGANIC COMPOUNDS

LEGEND

MONITORING WELL
EXTRACTION WELL
SOIL SAMPLING LOCATION
SURFACE WATER/ SEDIMENT SAMPLING LOCATIONS
UTILITY POLE
PIEZOMETER
GAS VENT
ROAD
WATER EDGE
BURIED ELECTRICAL LINE
FENCE
UNDERGROUND TREATMENT PIPING

FORT EDWARD LANDFILL, HUDSON FALLS, NY
NYSDEC SITE 558001

GROUNDWATER MONITORING REPORT

SURFACE WATER, SEDIMENT, AND SOIL ANALYTICAL RESULTS SEPTEMBER 2022

ARCADIS

FIGURE **C5**

City: Clifton Park Div/Group: ENV Created By: J. Kullberg Last Saved By: LJohns
Project Fort Edward Landfill
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Appendix D

2023 Groundwater Sampling Report Tables and Figures

Table D1
Summary of Water Level Data
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Well ID	Measuring Point Elevation (ft. amsl)	December 2023	
		Depth to Water (ft.)	Groundwater Elevation (ft. amsl)
MW-1	256.94	39.31	217.63
MW-1A	253.55	40.81	212.74
MW-1D	258.66	44.22	214.44
MW-2	193.86	8.96	184.90
MW-2A	193.93	11.54	182.39
MW-5	183.43	6.40	177.03
MW-6/-6C	192.98	7.96	185.02
MW-6A	192.80	10.89	181.91
MW-6B	192.55	16.17	176.38
MW-7	210.47	18.58	191.89
MW-8	240.09	8.10	231.99
MW-9	174.49	4.78	169.71
MW-12A	175.55	3.27	172.28
MW-12B	175.76	3.80	171.96
MW-13A	183.50	11.26	172.24
MW-13B	183.45	11.69	171.76
MW-14A	176.06	10.14	165.92
MW-14B	177.07	8.17	168.90
MW-15	168.61	9.02	159.59
MW-16	161.89	9.48	152.41
MW-17	159.11	11.21	147.90

Notes:
All measurments are in feet.

Definitions:
amsl - above mean sea level.
ft - feet.

Table D2
Volatile Organic Compound Analytical Results for 2023 Groundwater
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYSDEC Class GA Standard	MW-01	MW-01A	MW-01A DUP	MW-01D	MW-02	MW-02A	MW-05	MW-06	MW-06A	MW-06B	MW-07	MW-08	MW-09	MW-11
Sample Date		11/28/2023	11/30/2023	11/30/2023	11/28/2023	11/28/2023	11/28/2023	11/29/2023	11/29/2023	11/30/2023	11/29/2023	11/28/2023	11/28/2023	11/29/2023	N/A
Volatile Organic Compounds (ug/L)															
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	NS
1,1,2,2-Tetrachloroethane	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NS
1,1,2-trichloro-1,2,2-trifluoroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	NS
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	NS
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	NS
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	NS
1,2,3-Trichlorobenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	NS
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	4.3	1 U	1 U	1 U	1 U	NS
1,2-Dibromo-3-chloropropane	0.04	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	NS
1,2-Dibromoethane	0.0006	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NS
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	10 U	0.19 J	0.37 J	1 U	1 U	1 U	1 U	NS
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	NS
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	NS
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	10 U	0.24 J	3.6	1 U	0.23 J	0.21 J	1 U	NS
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1.0	4.5	1 U	1 U	1 U	1 U	NS
1,4-Dioxane	0.35	50 U	50 U	50 U	50 U	50 U	50 U	500 U	50 U	50 U	50 U	50 U	50 U	50 U	NS
2-Butanone (MEK)	50	20 U	20 U	20 U	20 U	20 U	20 U	200 U	20 U	20 U	20 U	20 U	20 U	20 U	NS
4-Methyl-2-Pentanone	--	10 U	10 U	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	NS
Acetone	50	50 U	50 U	50 U	2.0 J	50 U	50 U	500 U	3.0 J	50 U	50 U	50 U	50 U	50 U	NS
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	10 U	2.0	0.49 J	1 U	1 U	1 U	1 U	NS
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	NS
Bromodichloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NS
Bromoform	50	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	NS
Bromomethane	5	2 U	2 U	2 U	2 U	2 U	2 U	20 U	2 U	2 U	2 U	2 U	2 U	2 U	NS
Carbon Disulfide	60	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	NS
Carbon Tetrachloride	5	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	NS
CFC-11	5	2 U	2 U	2 U	2 U	2 U	2 U	20 U	2 U	2 U	2 U	2 U	2 U	2 U	NS
CFC-12	5	2 U	2 U	2 U	2 U	2 U	2 U	20 U	2 U	2 U	2 U	2 U	2 U	2 U	NS
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	5.9 J	12	3.5	1 U	1 U	1 U	1 U	NS
Chlorodibromomethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NS
Chloroethane	5	2 U	2 U	2 U	2 U	2 U	2 U	20 U	1.2 J	0.83 J	2 U	2 U	2 U	2 U	NS
Chloroform	7	2 U	2 U	2 U	2 U	2 U	2 U	20 U	2 U	2 U	2 U	2 U	2 U	2 U	NS
Chloromethane	5	2 U	2 U	2 U	2 U	2 U	2 U	20 U	2 U	2 U	2 U	2 U	2 U	2 U	NS
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	0.17 J	1 U	1 U	1 U	1 U	NS
cis-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NS
Cyclohexane	--	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	NS
Dichloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	NS
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	NS
Isopropylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	10 U	0.34 J	1 U	1 U	1 U	1 U	1 U	NS
Methyl Acetate	--	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	NS
Methyl N-Butyl Ketone (2-Hexanone)	50	10 U	10 U	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	NS
Methylcyclohexane	--	1 U	1 U	1 U	1 U	1 U	1 U	10 U	0.17 J	1 U	1 U	1 U	1 U	1 U	NS
Methyl-tert-butylether	10	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	NS
Styrene (Monomer)	5	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	NS
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	NS
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	NS
Total Xylenes	5	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	NS
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	NS
trans-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NS
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	NS
Vinyl chloride	2	2 U	2 U	2 U	2 U	2 U	2 U	190	2 U	2 U	2 U	2 U	2 U	2 U	NS
Total VOCs	--	ND	ND	ND	2.0 J	ND	ND	195.9 J	20.14 J	17.76 J	ND	0.23 J	0.21 J	ND	NS

Notes:
Concentrations detected above the NYSDEC Class GA Standard are highlighted in yellow.
MW-11 was dry during the November 2023 sampling event.

Definitions:
J - The concentration is an approximate value.
µg/L - micrograms per liter.
NS - Not sampled
ND - Non detect.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
UJ - The compound was analyzed for but was not detected. The reported quantation limit is approximate.
"--" - No regulatory criteria exists for respective analyte.

Table D2
Volatile Organic Compound Analytical Results for 2023 Groundwater
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYSDEC Class GA Standard	MW-12A	MW-12B	MW-12B DUP	MW-13A	MW-13B	MW-14A	MW-14B	MW-15	MW-16	MW-17	EXMW-34	EW-1	EW-2	EW-3	EW-4
Sample Date		11/29/2023	11/29/2023	11/29/2023	11/30/2023	11/30/2023	11/30/2023	11/30/2023	11/30/2023	11/30/2023	11/30/2023	11/29/2023	12/19/2023	12/19/2023	12/19/2023	12/19/2023
Volatile Organic Compounds (ug/L)																
1,1,1-Trichloroethane	5	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	2 U	2 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	12 U	1 U	1 U	0.5 U
1,1,2-trichloro-1,2,2-trifluoroethane	5	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	2 U	2 U	1 U
1,1,2-Trichloroethane	1	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	2 U	2 U	1 U
1,1-Dichloroethane	5	0.38 J	0.67 J	0.64 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	0.68 J	2 U	1 U
1,1-Dichloroethene	5	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	2 U	2 U	1 U
1,2,3-Trichlorobenzene	5	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	120 U	10 U	10 U	5 U
1,2,4-Trichlorobenzene	5	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	2 U	2 U	1 U
1,2-Dibromo-3-chloropropane	0.04	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	120 U	10 U	10 U	5 U
1,2-Dibromoethane	0.0006	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	12 U	1 U	1 U	0.5 U
1,2-Dichlorobenzene	3	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	2 U	0.34 J	1 U
1,2-Dichloroethane	0.6	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	2 U	2 U	1 U
1,2-Dichloropropane	1	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	2 U	2 U	1 U
1,3-Dichlorobenzene	3	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	2 U	2 U	1 U
1,4-Dichlorobenzene	3	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	2 U	3.9	1 U
1,4-Dioxane	0.35	43 J	75	70	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	1200 U	100 U	100 U	50 U
2-Butanone (MEK)	50	40 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	93 J	40 U	40 U	20 U
4-Methyl-2-Pentanone	--	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	250 U	20 U	20 U	10 U
Acetone	50	100 U	3.4 J	4.6 J	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	78 J	7.5 J	14 J	50 U
Benzene	1	0.86 J	2.9	2.6	1 U	1 U	1 U	1 U	1 U	1 U	0.39 J	1 U	12 J	3.4	2.4	1 U
Bromochloromethane	5	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	2 U	2 U	1 U
Bromodichloromethane	50	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	12 U	1 U	1 U	0.5 U
Bromoform	50	2 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	2 U	2 U	1 U
Bromomethane	5	4 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	50 U	4 U	4 U	2 U
Carbon Disulfide	60	10 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	120 U	10 U	10 U	5 U
Carbon Tetrachloride	5	10 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	120 U	10 U	10 U	5 U
CFC-11	5	4 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	50 U	4 U	4 U	2 U
CFC-12	5	4 U	0.5 J	0.28 J	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	50 U	4 U	4 U	2 U
Chlorobenzene	5	0.46 J	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	9.5 J	1.4 J	16	1 U
Chlorodibromomethane	50	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	12 U	1 U	1 U	0.5 U
Chloroethane	5	4 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	50 U	4 U	4 U	2 U
Chloroform	7	4 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.44 J	2 U	50 U	4 U	4 U	2 U
Chloromethane	5	4 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	50 U	4 U	4 U	2 U
cis-1,2-Dichloroethene	5	2 U	0.5 U	0.52 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	340	2 U	2 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	12 U	1 U	1 U	0.5 U
Cyclohexane	--	10 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	120 U	10 U	10 U	5 U
Dichloromethane	5	10 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	120 U	10 U	10 U	5 U
Ethylbenzene	5	2 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.26 J	1 U	25 U	2 U	2 U	1 U
Isopropylbenzene	5	2 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.94 J	1 U	25 U	2 U	0.40 J	1 U
Methyl Acetate	--	2 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	2 U	2 U	1 U
Methyl N-Butyl Ketone (2-Hexanone)	50	20 U	0.5 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	250 U	20 U	20 U	10 U
Methylcyclohexane	--	2 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	3.2	1 U	25 U	2 U	2 U	1 U
Methyl-tert-butylether	10	0.42 J	0.5 J	0.54 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	0.52 J	2 U	1 U
Styrene (Monomer)	5	2 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	2 U	2 U	1 U
Tetrachloroethene	5	2 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	2 U	2 U	1 U
Toluene	5	2 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	22 J	2 U	2 U	1 U
Total Xylenes	5	2 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	2 U	2 U	1 U
trans-1,2-Dichloroethene	5	2 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	2 U	2 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	12 U	1 U	1 U	0.5 U
Trichloroethene	5	2 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	2 U	2 U	1 U
Vinyl chloride	2	4 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1.1 J	840	4 U	4 U	2 U
Total VOCs	--	45.12 J	0.5 J	79.18 J	ND	ND	ND	ND	50 U	ND	5.23 J	1.1 J	1394.5 J	13.5 J	37.04 J	ND

Notes:
Concentrations detected above the NYSDEC Class GA Standard are highlighted in yellow.
MW-11 was dry during the November 2023 sampling event.

Definitions:
J - The concentration is an approximate value.
µg/L - micrograms per liter.
NS - Not sampled
ND - Non detect.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
UJ - The compound was analyzed for but was not detected. The reported quantation limit is approximate.
"--" - No regulatory criteria exists for respective analyte.

Table D3
Groundwater and Leachate Analytical Data May 1995 - December 2023
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Well ID	Parameter	NYSDEC Class GA Standard	Units	Sample Date																				
				May-95	Aug-95	May-99	Oct-99	May-00	Oct-01	May-02	Apr-03	Aug-04	Jul-07	Oct-08	Mar-10	Oct-11	Sep-12	Oct-13	Jan-15	May-16	Aug-17	Oct-18	May-21	Sep-22	Dec-23
MW-1	Iron	0.3	mg/L	45.4	13	0.498	1.1	2.2	1.1	1.6	1.1	NA	20.1	1.17	ND	ND	0.29	0.21	0.053	0.079	ND	0.23	0.074	0.14	ND
	Total PCBs	0.09	µg/L	NA	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	0.82	ND	ND	ND	ND	ND	ND	ND	ND
MW-1A	Total VOCs	--	µg/L	7.0	11	1.0	ND	3.0	ND	ND	ND	5.0	ND	ND	ND	ND	ND	ND	0.99	451	ND	ND	ND	ND	ND
	Iron	0.3	mg/L	0.827	0.331	0.75	2.1	2.6	2.8	0.41	1.1	NA	11.5	1.63	0.185	0.352	0.55	0.25	0.19	0.48	0.093	0.083	0.024	0.13	0.056
	Total PCBs	0.09	µg/L	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	7.4	ND	28	0.45	ND	ND	ND	ND	ND
MW-1D	Total VOCs	--	µg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	26.1	ND	ND	ND	1.1	ND	ND	ND	ND	ND	2.0
	Iron	0.3	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.185	1.14	0.19	0.074	0.18	0.2	0.37	0.74	0.169	3.2	0.14
	Total PCBs	0.09	µg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	0.81	ND	ND	ND	ND	ND	ND	ND	ND
MW-2	Total VOCs	--	µg/L	9.0	8.0	10	ND	ND	ND	ND	ND	5.0	ND	ND	ND	6.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Iron	0.3	mg/L	1.27	8.03	7.62	2.9	15	1.1	5.8	5.2	NA	9.86	5.32	2.17	4.74	2.8	2.2	1.7	5.3	5.2	13	14.7	1.5	0.97
	Total PCBs	0.09	µg/L	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-2A	Total VOCs	--	µg/L	ND	ND	6.0	ND	ND	ND	ND	ND	4.0	ND	ND	ND	ND	ND	ND	ND	ND	0.28	ND	ND	ND	ND
	Iron	0.3	mg/L	4.62	4.89	4.83	8.6	13	7.5	9.3	6.8	NA	15.2	11.2	8.19	11.2	9.1	9.8	10.7	10.8	14	9.6	6.4	8.9	8.9
	Total PCBs	0.09	µg/L	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	0.28	ND	ND	ND	ND	ND	ND	ND	ND
MW-5	Total VOCs	--	µg/L	8,641	11,438	NS	NS	27,034	50,271	NS	11,352	4,209	NA	NA	365	NS	NS	NS	1,858	1,259	908.4	358	461.6	238.88	195.9
	Iron	0.3	mg/L	82.5	66.2	NS	NS	130	95	NS	95	ND	NA	NA	142	NS	NS	NS	56.5	100	54	62	NS	46	39
	Total PCBs	0.09	µg/L	ND	ND	NS	NS	NA	NA	NS	NS	ND	NA	NA	ND	NS	NS	NS	1.1	0.54	ND	ND	ND	ND	ND
MW-6	Total VOCs	--	µg/L	112	83	26	38	38	62	60	37	63	17	23	25	23	22.4	22.14	40.75	31.7	32.9	24.1	19	15.94	20.14
	Iron	0.3	mg/L	37.4	63.7	49.3	80	84	97	100	130	NA	135	120	123	139	103	102	106	106	120	100	100	19	99
	Total PCBs	0.09	µg/L	ND	ND	NA	ND	ND	NA	NA	NA	3.3	ND	0.43	0.72	0.18	0.37	ND	11	15	ND	0.58	0.79	ND	ND
MW-6A	Total VOCs	--	µg/L	30	4.0	ND	3.0	13	16	9.0	16	17	8.0	19	44	67.7	35.41	37.04	35.25	28.18	29.5	14.9	12.71	ND	17.76
	Iron	0.3	mg/L	0.404	0.428	0.388	2.6	35	35	49	54	NA	33.1	27.4	23.4	24.4	23.8	21.2	21.2	19.7	21	18	13.9	0.44	16
	Total PCBs	0.09	µg/L	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	3.8	14	ND	ND	ND	ND	ND
MW-6B	Total VOCs	--	µg/L	30	ND	8.0	ND	ND	NA	ND	ND	4.0	ND	ND	ND	ND	ND	ND	0.94	ND	ND	ND	ND	23.31	ND
	Iron	0.3	mg/L	8.13	19.9	49	1.2	17	NA	9.1	38	NA	157	3.16	2.38	0.521	0.78	0.35	5.0	0.34	0.24	0.74	0.82	120	0.31
	Total PCBs	0.09	µg/L	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	0.91	ND	1.5	29	ND	ND	ND	ND	ND
MW-7	Total VOCs	--	µg/L	3.0	ND	5.0	ND	ND	ND	ND	NA	11	ND	ND	ND	ND	ND	2.78	1.91	0.6	ND	1.1	ND	0.37	0.23
	Iron	0.3	mg/L	23.6	30.8	8.06	2.2	17	23	27	NA	240	217	143	119	188	146	195	154	157	160	130	146	110	110
	Total PCBs	0.09	µg/L	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	0.27	ND	ND	ND	ND	ND	ND
MW-8	Total VOCs	--	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	6.0	ND	ND	ND	NS	ND	4.4	ND	ND	ND	ND	ND	ND	0.21
	Iron	0.3	mg/L	0.195	0.362	0.873	0.46	1.4	0.29	2.3	NA	NA	19.9	0.25	8.49	NS	4.0	1.5	9.8	0.073	0.057	ND	0.14	0.035	ND
	Total PCBs	0.09	µg/L	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND	ND	NS	1.0	ND	ND	ND	ND	ND	ND	ND	ND
MW-9	Total VOCs	--	µg/L	NA	NA	7.0	ND	ND	ND	ND	ND	4.0	ND	ND	ND	ND	ND	ND	ND	ND	5.2	ND	ND	ND	ND
	Iron	0.3	mg/L	NA	NA	0.946	0.56	2.0	0.26	0.39	5.3	NA	1.59	0.213	0.14	23.9	8.2	0.2	3.0	1.4	2.5	0.71	1.0	0.61	0.51
	Total PCBs	0.09	µg/L	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	1.8	0.34	ND	4.9	ND	ND	ND	ND	ND
MW-11	Total VOCs	--	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS	NS	NS	0.44	ND	ND	NS	NS
	Iron	0.3	mg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS	NS	NS	0.51	370	0.26	NS	NS
	Total PCBs	0.09	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS	NS	NS	ND	ND	ND	NS	NS

Notes:

Concentrations detected above the New York State Department of Environmental Conservation (NYSDEC) Class GA Standard are highlighted in yellow.
95-'00 Data Source: Final Evaluation and Assessment Report. Fort Edward Landfill. NYSDEC. July 2001. URS Consultants
VOC totals from 1995 through 2000 include only concentrations of VOCs that were detected above NYSDEC Class GA Standards, while the 2007, 2008, 2011, 2012, 2015, and 2016 VOC totals include all detections, whether above or below NYSDEC Class GA Standards.

MW-11 was dry during the September 2022 sampling event.

Definitions:
µg/L - microgram per liter.
mg/L - milligram per liter.
NA - Not Analyzed.
ND - Not detected above the Method Detection Limit or the Reporting Limit.
NS - Not Sampled.
PCBs - Polychlorinated Biphenyls.
VOCs - Volatile Organic Compounds.
"--" - No regulatory criteria exists for the respective analyte.
"*" - Well was not installed during the respective time period.

Table D3
Groundwater and Leachate Analytical Data May 1995 - December 2023
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Well ID	Parameter	NYSDEC Class GA Standard	Units	Sample Date																			
				May-95	Aug-95	May-99	Oct-99	May-00	Oct-01	May-02	Apr-03	Aug-04	Jul-07	Oct-08	Mar-10	Oct-11	Sep-12	Oct-13	Jan-15	May-16	Aug-17	Oct-18	May-21	Sep-22	Dec-23
MW-12A	Total VOCs	--	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	9.07	4.45	45.12
	Iron	0.3	mg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	45.6	33	36
	Total PCBs	0.09	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND	ND	ND
MW-12B	Total VOCs	--	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7.0	4.53	82.78
	Iron	0.3	mg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.03	16	19
	Total PCBs	0.09	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND	ND	ND
MW-13A	Total VOCs	--	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND	ND	ND
	Iron	0.3	mg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.457	0.41	0.25
	Total PCBs	0.09	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND	ND	ND
MW-13B	Total VOCs	--	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND	ND	ND
	Iron	0.3	mg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.185	0.16	0.64
	Total PCBs	0.09	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND	ND	ND
MW-14A	Total VOCs	--	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND	ND	ND
	Iron	0.3	mg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.0508	0.071	0.58
	Total PCBs	0.09	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND	ND	ND
MW-14B	Total VOCs	--	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND	ND	ND
	Iron	0.3	mg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.691	0.59	0.77
	Total PCBs	0.09	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND	ND	ND
MW-15	Total VOCs	--	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND	ND	ND
	Iron	0.3	mg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND	ND	ND
	Total PCBs	0.09	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND	ND	ND
MW-16	Total VOCs	--	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND	0.65	ND
	Iron	0.3	mg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.172	0.089	0.086
	Total PCBs	0.09	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND	ND	ND
MW-17	Total VOCs	--	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	442	14.16	5.23
	Iron	0.3	mg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.635	0.63	0.75
	Total PCBs	0.09	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND	ND	ND
EXMW-34	Total VOCs	--	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.0	1.1
	Iron	0.3	mg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.0	1.4
	Total PCBs	0.09	µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ND	ND
EW-1	Total VOCs	--	µg/L	*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	630	429	NS	525	1,347	1,170	4,817.3	2,513.7	1,054.7	2,750	1,395
	Iron	0.3	mg/L	*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	53.7	48.5	NS	66.2	70.2	1,530	55	53	63.6	41	130
	Total PCBs	0.09	µg/L	*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	49	1,824	NS	650	1,100	970	250	4,400	8,600	1300	173
EW-2	Total VOCs	--	µg/L	*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	140.8	7.2	NS	5.2	9.29	12.1	72.37	65.59	15.21	8.28	13.5
	Iron	0.3	mg/L	*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	40.1	24.5	NS	27.8	29.4	30.3	22	34	18	45	82
	Total PCBs	0.09	µg/L	*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.27	0.16	NS	ND	ND	400	ND	ND	0.3	ND	ND
EW-3	Total VOCs	--	µg/L	*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	53.2	51.2	NS	75.22	68.9	45.1	132.52	111.35	36.66	123.31	37.04
	Iron	0.3	mg/L	*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	40.6	123	NS	33.8	31.7	33.9	33	38	31.9	130	370
	Total PCBs	0.09	µg/L	*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	2.7	1.6	NS	2.9	2.2	23	ND	ND	1.9	ND	ND
EW-4	Total VOCs	--	µg/L	*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	NS	1.2	NA	NS	3.99	ND	ND	1.01	ND
	Iron	0.3	mg/L	*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	20.1	377	NS	32.5	NA	NS	60	24	18.3	17	10
	Total PCBs	0.09	µg/L	*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.6	3.3	NS	2.06	2.3	NS	0.63	0.28	1.1	0.3	0.31

Notes:
Concentrations detected above the New York State Department of Environmental Conservation (NYSDEC) Class GA Standard are highlighted in yellow.
95-'00 Data Source: Final Evaluation and Assessment Report. Fort Edward Landfill. NYSDEC. July 2001. URS Consultants
VOC totals from 1995 through 2000 include only concentrations of VOCs that were detected above NYSDEC Class GA Standards, while the 2007, 2008, 2011, 2012, 2015, and 2016 VOC totals include all detections, whether above or below NYSDEC Class GA Standards.
MW-11 was dry during the 2022 and 2023 sampling event.

Definitions:
µg/L - microgram per liter.
mg/L - milligram per liter.
NA - Not Analyzed.
ND - Not detected above the Method Detection Limit or the Reporting Limit.
NS - Not Sampled.
PCBs - Polychlorinated Biphenyls.
VOCs - Volatile Organic Compounds.
"--" - No regulatory criteria exists for the respective analyte.
"*" - Well was not installed during the respective time period.

Table D4
Polychlorinated Biphenyl Analytical Results for 2023 Groundwater
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYS Class GA Standard	MW-01	MW-01A	MW-01A DUP	MW-01D	MW-02	MW-02A	MW-05	MW-06	MW-06A	MW-06B	MW-07	MW-08	MW-09	MW-11
Sample Date		11/28/2023	11/30/2023	11/30/2023	11/28/2023	11/28/2023	11/28/2023	11/29/2023	11/29/2023	11/30/2023	11/29/2023	11/28/2023	11/28/2023	11/29/2023	N/A
Polychlorinated Biphenyls (ug/L)															
Aroclor 1016	--	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U	0.22 U	0.21 U	0.18 U	0.2 U	0.2 U	0.18 U	0.19 U	0.19 U	NS
Aroclor 1221	--	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U	0.22 U	0.21 U	0.18 U	0.2 U	0.2 U	0.18 U	0.19 U	0.19 U	NS
Aroclor 1232	--	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U	0.22 U	0.21 U	0.18 U	0.2 U	0.2 U	0.18 U	0.19 U	0.19 U	NS
Aroclor 1242	--	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U	0.22 U	0.21 U	0.18 U	0.2 U	0.2 U	0.18 U	0.19 U	0.19 U	NS
Aroclor 1248	--	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U	0.22 U	0.21 U	0.18 U	0.2 U	0.2 U	0.18 U	0.19 U	0.19 U	NS
Aroclor 1254	--	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U	0.22 U	0.21 U	0.18 U	0.2 U	0.2 U	0.18 U	0.19 U	0.19 U	NS
Aroclor 1260	--	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U	0.22 U	0.21 U	0.18 U	0.2 U	0.2 U	0.18 U	0.19 U	0.19 U	NS
Aroclor 1262	--	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U	0.22 U	0.21 U	0.18 U	0.2 U	0.2 U	0.18 U	0.19 U	0.19 U	NS
Aroclor 1268	--	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U	0.22 U	0.21 U	0.18 U	0.2 U	0.2 U	0.18 U	0.19 U	0.19 U	NS
Total PCBs	0.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS

Location	NYS Class GA Standard	MW-12A	MW-12A DUP	MW-12B	MW-13A	MW-13B	MW-14A	MW-14B	MW-15	MW-16	MW-17	EXMW-34	EW-1	EW-2	EW-3	EW-4
Sample Date		11/29/2023	11/29/2023	11/29/2023	11/30/2023	11/30/2023	11/30/2023	11/30/2023	11/30/2023	11/30/2023	11/30/2023	11/30/2023	12/19/2023	12/19/2023	12/19/2023	12/19/2023
Polychlorinated Biphenyls (ug/L)																
Aroclor 1016	--	0.2 U	0.19 U	0.21 U	0.19 U	0.19 U	0.2 U	0.2 U	0.21 U	0.18 U	0.2 U	0.19 U	173	0.2 U	0.2 U	0.31
Aroclor 1221	--	0.2 U	0.19 U	0.21 U	0.19 U	0.19 U	0.2 U	0.2 U	0.21 U	0.18 U	0.2 U	0.19 U	40.4 U	0.2 U	0.2 U	0.19 U
Aroclor 1232	--	0.2 U	0.19 U	0.21 U	0.19 U	0.19 U	0.2 U	0.2 U	0.21 U	0.18 U	0.2 U	0.19 U	40.4 U	0.2 U	0.2 U	0.19 U
Aroclor 1242	--	0.2 U	0.19 U	0.21 U	0.19 U	0.19 U	0.2 U	0.2 U	0.21 U	0.18 U	0.2 U	0.19 U	40.4 U	0.2 U	0.2 U	0.19 U
Aroclor 1248	--	0.2 U	0.19 U	0.21 U	0.19 U	0.19 U	0.2 U	0.2 U	0.21 U	0.18 U	0.2 U	0.19 U	40.4 U	0.2 U	0.2 U	0.19 U
Aroclor 1254	--	0.2 U	0.19 U	0.21 U	0.19 U	0.19 U	0.2 U	0.2 U	0.21 U	0.18 U	0.2 U	0.19 U	40.4 U	0.2 U	0.2 U	0.19 U
Aroclor 1260	--	0.2 U	0.19 U	0.21 U	0.19 U	0.19 U	0.2 U	0.2 U	0.21 U	0.18 U	0.2 U	0.19 U	40.4 U	0.2 U	0.2 U	0.19 U
Aroclor 1262	--	0.2 U	0.19 U	0.21 U	0.19 U	0.19 U	0.2 U	0.2 U	0.21 U	0.18 U	0.2 U	0.19 U	NA	NA	NA	NA
Aroclor 1268	--	0.2 U	0.19 U	0.21 U	0.19 U	0.19 U	0.2 U	0.2 U	0.21 U	0.18 U	0.2 U	0.19 U	NA	NA	NA	NA
Total PCBs	0.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	173	ND	ND	0.31

Notes:
Concentrations detected above the NYSDEC Class GA Standard are highlighted in yellow.
MW-11 was dry during the November 2023 sampling event.

Definitions:
J - The concentration is an approximate value.
µg/L - micrograms per liter.
NS - Not sampled
ND - Non detect.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
"--" - No regulatory criteria exists for respective analyte.

Table D5
Metal Analytical Results for 2023 Groundwater
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYSDEC Class GA Standard	MW-01	MW-01A	MW-01A DUP	MW-01D	MW-02	MW-02A	MW-05	MW-06	MW-06A	MW-06B	MW-07	MW-08	MW-09	MW-11
Sample Date		11/28/2023	11/30/2023	11/30/2023	11/28/2023	11/28/2023	11/28/2023	11/29/2023	11/29/2023	11/30/2023	11/29/2023	11/28/2023	11/28/2023	11/29/2023	NA
Metals (mg/L)															
Aluminum	--	0.05 U	0.077 B	0.075 B	0.024 J	0.05 U	0.05 U	0.090	0.05 U	0.05 U	0.055	0.05 U	0.05 U	0.20	NS
Antimony	0.003	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NS
Arsenic	0.025	0.01 U	0.0082 J	0.0084 J	0.01 U	0.01 U	0.01 U	0.017	0.014	0.0098 J	0.0090 J	0.0076 J	0.01 U	0.01 U	NS
Barium	1	0.020 J	0.0077 J	0.0076 J	0.43	0.016 J	0.060	0.29	0.030 J	0.096	0.0066 J	0.023 J	0.013 J	0.058	NS
Beryllium	0.003	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	NS
Cadmium	0.005	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	NS
Calcium	--	45	13 B	13 B	19	74 B	33	92	64	99	8.5	53	48	72	NS
Chromium	0.05	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NS
Cobalt	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.013	0.020	0.0025 J	0.01 U	0.0095 J	0.01 U	0.01 U	NS
Copper	0.2	0.0097 J	0.0063 BJ	0.01 BU	0.01 U	0.01 BU	0.01 U	0.011	0.01 U	0.0048 BJ	0.0099 J	0.01 U	0.01 U	0.0074 J	NS
Iron	0.3	0.05 U	0.056	0.058	0.14	0.97	8.9	39	99 B	16	0.31	110	0.05 U	0.51	NS
Lead	0.025	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NS
Magnesium	35	9.2	1.6 B	1.6 B	4.9	14 B	12	38	12	38	1.4	12	10	110	NS
Manganese	0.3	0.01 U	0.016	0.016	0.018	0.45	0.29	0.83	1.0	1.3	0.017	1.6	0.0044 J	0.071	NS
Mercury	0.0007	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 BU	0.0002 BU	0.0002 U	0.0002 BU	0.0002 U	0.0002 U	0.0002 BU	NS
Nickel	0.1	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.021	0.01 U	0.0068 J	0.01 U	0.01 U	0.01 U	0.01 U	NS
Potassium	--	1.0 J	0.51 J	0.49 J	2.5	1.4 J	1.3 J	15	4.7	6.3	1.1 J	1.3 J	0.83 J	0.72 J	NS
Selenium	0.01	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NS
Silver	0.05	0.01 U	0.0050 BJ	0.0052 BJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NS
Sodium	20	50	22	23	39	43	39	190	4.7	29	41	2.0 J	17	93	NS
Thallium	0.0005	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NS
Vanadium	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NS
Zinc	2	0.01 BU	0.01 BU	1.01 BU	0.01 U	1.01 BU	0.01 U	0.01 BU	0.01 U	0.012	0.031 B	0.01 U	0.01 U	0.01 BU	NS

Notes:
Concentrations detected above the NYSDEC Class GA Standard are highlighted in yellow.
MW-11 was dry during the November and December 2023 sampling event.

Definitions:
B - Compound was found in the blank sample.
J - The concentration is an approximate value.
mg/L - milligrams per Liter.
NA - Not analyzed.
U - The compound was analyzed for but was not detected above the level of the reported sample quantation limit. .
UJ - The compound was analyzed for but was not detected. The reported quantation limit is approximate.
NS - Not sampled
"--" - No regulatory criteria exists for respective analyte.

Table D5
Metal Analytical Results for 2023 Groundwater
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYSDEC Class GA Standard	MW-12A	MW-12B	MW-12A DUP	MW-13A	MW-13B	MW-14A	MW-14B	MW-15	MW-16	MW-17	EXMW-34	EW-1	EW-2	EW-3	EW-4
Sample Date		11/29/2023	11/29/2023	11/29/2023	11/30/2023	11/30/2023	11/30/2023	11/30/2023	11/30/2023	11/30/2023	11/30/2023	11/29/2023	12/19/2023	12/19/2023	12/19/2023	12/19/2023
Metals (mg/L)																
Aluminum	--	0.066	0.024 J	0.025 J	0.22 B	0.72 B	0.69	0.87	0.05 U	0.050 B	0.05 BU	0.024 J	0.53	0.05 U	0.080	0.021 J
Antimony	0.003	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Arsenic	0.025	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.072	0.10	0.01 U
Barium	1	0.14	0.22	0.22	0.071	0.069	0.050	0.025 J	0.048 J	0.066	0.068	0.093	0.59	0.28	1.7	0.022 J
Beryllium	0.003	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Cadmium	0.005	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0021 J	0.004 U	0.0021 J	0.004 U
Calcium	--	120	130	130	43 B	12 B	24	8.5	36	100 B	39 B	79	150	110	92	54
Chromium	0.05	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Cobalt	--	0.0030 J	0.0036 J	0.0039 J	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0021 J	0.01 U	0.01 U	0.0080 J	0.0043 J	0.016	0.0025 J
Copper	0.2	0.0098 J	0.01 U	0.0070 J	0.0052 BJ	0.0063 BJ	0.0069 BJ	0.0064 BJ	0.0050 BJ	0.01 BU	0.01 BU	0.010	0.0085 J	0.01 U	0.0053 J	0.01 U
Iron	0.3	36	19	19	0.25	0.64	0.58	0.77	0.05 U	0.086	0.75	1.4	130	82	370	10
Lead	0.025	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.021	0.01 U	0.01 U	0.01 U
Magnesium	35	41	48	47	16 B	0.62	11	2.2	100	60 B	69 B	34	58	42	36	13
Manganese	0.3	2.1	2.0	1.9	0.073	0.012	0.046	0.014	0.090	0.73	0.13	0.64	1.1	0.83	0.38	1.0
Mercury	0.0007	0.0002 BU	0.0002 BU	0.0002 BU	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 BU	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Nickel	0.1	0.011	0.011	0.011	0.01 U	0.0030 J	0.01 U	0.0025 J	0.01 U	0.0050 J	0.01 U	0.0028 J	0.024	0.0097 J	0.0040 J	0.01 U
Potassium	--	2.9	2.4	2.4	1.4 J	6.4	1.3 J	3.4	3.1	1.3 J	2.4	1.2 J	36	2.6	28	1.6 J
Selenium	0.01	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Silver	0.05	0.01 U	0.01 U	0.01 U	0.0047 BJ	0.0047 BJ	0.01 U	0.01 U	0.01 U	0.0045 BJ	0.0049 BJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	20	110	120	110	71	52	57	56	110	47	79	70	200	96	52	31
Thallium	0.0005	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Vanadium	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.017	0.0074 J	0.085	0.01 U
Zinc	2	0.01 BU	0.01 U	0.01 BU	0.01 BU	0.0058 J	0.01 U	0.01 U	0.01 U	0.01 BU	0.01 BU	0.01 BU	0.079	0.01 U	0.01 U	0.01 U

Notes:
Concentrations detected above the NYSDEC Class GA Standard are highlighted in yellow.
MW-11 was dry during the November and December 2023 sampling event.

Definitions:
B - Compound was found in the blank sample.
J - The concentration is an approximate value.
mg/L - milligrams per Liter.
NA - Not analyzed.
U - The compound was analyzed for but was not detected above the level of the reported sample quantation limit. .
UJ - The compound was analyzed for but was not detected. The reported quantation limit is approximate.
NS - Not sampled
"--" - No regulatory criteria exists for respective analyte.

Table D6
Emerging Contaminant Analytical Results for 2023 Groundwater
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYSDEC GUIDANCE VALUES - Aquatic Life - Acute	NYSDEC GUIDANCE VALUES - Aquatic Life - Chronic	NYSDEC GUIDANCE- HUMAN HEALTH	EXMW-34	MW-01	MW-01A	MW-01A DUP	MW-01D	MW-02	MW-02A	MW-05
Sample Date				11/29/2023	11/28/2023	11/30/2023	11/30/2023	11/28/2023	11/28/2023	11/28/2023	11/29/2023
Per- and Polyfluoroalkyl Substances (ng/L)											
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor)	--	--	--	3.6 U	4.1 U	3.7 U	3.8 U	3.7 U	4 U	3.8 U	8.2 U
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (HFPO-DA)	--	--	--	3.6 U	4.1 U	3.7 U	3.8 U	3.7 U	4 U	3.8 U	8.2 U
2H, 2H, 3H, 3H-perfluorodecanoic acid (7:3 FTCA)	--	--	--	45 U	52 U	47 U	48 U	46 U	50 U	48 U	100 U
2H, 2H, 3H, 3H-perfluorohexanoic acid	--	--	--	9.1 U	10 U	9.3 U	9.5 U	9.3 U	9.9 U	9.6 U	12 J
2H, 2H, 3H, 3H-perfluorooctanoic acid (5:3 FTCA)	--	--	--	45 U	52 U	47 U	48 U	46 U	50 U	48 U	110
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	--	--	--	3.6 U	4.1 U	3.7 U	3.8 U	3.7 U	4 U	3.8 U	8.2 U
4:2 Fluorotelomer sulfonate (4:2 FTS)	--	--	--	3.6 U	4.1 U	3.7 U	3.8 U	3.7 UJ	4 U	3.8 U	8.2 U
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	--	--	--	3.6 U	4.1 U	3.7 U	3.8 U	3.7 U	4 U	3.8 U	8.2 U
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	--	--	--	3.6 U	4.1 U	3.7 U	3.8 U	3.7 U	4 U	3.8 U	8.2 U
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CL-PF3ONS)	--	--	--	3.6 U	4.1 U	3.7 U	3.8 U	3.7 U	4 U	3.8 U	8.2 U
N-Ethyl perfluorooctane sulfonamide (N-EtFOSA)	--	--	--	0.91 U	1 U	0.93 U	0.95 U	0.93 U	0.99 U	0.96 U	2 U
N-Ethyl perfluorooctane sulfonamide ethanol (N-EtFOSE)	--	--	--	9.1 U	10 U	9.3 U	9.5 U	9.3 U	9.9 U	9.6 U	20 U
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	--	--	0.91 U	1 U	0.93 U	0.95 U	0.93 U	0.99 U	0.96 U	5.1
N-Methyl perfluorooctane sulfonamide (N-MeFOSA)	--	--	--	0.91 U	1 U	0.93 U	0.95 U	0.93 U	0.99 U	0.96 U	2 U
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	--	--	--	9.1 U	10 U	9.3 U	9.5 U	9.3 U	9.9 U	9.6 U	20 U
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	--	--	0.91 U	1 U	0.93 U	0.95 U	0.93 U	0.99 U	0.96 U	2 U
Nonafluoro-3,6-Dioxaheptonic Acid (NFDHA)	--	--	--	1.8 U	2.1 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	4.1 U
Perfluoro (2-Ethoxyethane) Sulfonic Acid (PFEESA)	--	--	--	1.8 U	2.1 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	4.1 U
Perfluoro-3-methoxypropanoic aci (PFMPA)	--	--	--	1.8 U	2.1 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	4.1 U
Perfluoro-4-Methoxybutanic acid (PFMBA)	--	--	--	1.8 U	2.1 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	4.1 U
Perfluorobutane sulfonic acid (PFBS)	--	--	--	0.55 J	6.1	0.93 U	0.95 U	0.93 U	4.3	6.3	4.0
Perfluorobutanoic acid (PFBA)	--	--	--	7.8	4.3	2.3 J	2.6 J	1.8 J	5.6	4.3	54
Perfluorodecane sulfonic acid (PFDS)	--	--	--	0.91 U	1 U	0.93 U	0.95 U	0.93 U	0.99 U	0.96 U	2 U
Perfluorodecanoic acid (PFDA)	--	--	--	0.91 U	1 U	0.93 U	0.95 U	0.93 U	0.99 U	0.96 U	2 U
Perfluorododecane sulfonic acid (PFDOS)	--	--	--	0.91 U	1 U	0.93 U	0.95 U	0.93 U	0.99 U	0.96 U	2 U
Perfluorododecanoic acid (PFDoA)	--	--	--	0.91 U	1 U	0.93 U	0.95 U	0.93 U	0.99 U	0.96 U	2 U
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--	0.91 U	0.38 J	0.93 U	0.95 U	0.93 U	0.99 U	0.96 U	1.2 J
Perfluoroheptanoic acid (PFHpA)	--	--	--	4.0	4.7	0.93 U	0.95 U	0.27 J	1.3	1.8	32
Perfluorohexane sulfonic acid (PFHxS)	--	--	--	0.63 J	2.3	0.93 U	0.95 U	0.93 U	1.6	1.1	16
Perfluorohexanoic acid (PFHxA)	--	--	--	17	5.3	0.93 U	0.95 U	0.93 U	0.85 J	4.9	87
Perfluorononane sulfonic acid (PFNS)	--	--	--	0.91 U	1 U	0.93 U	0.95 U	0.93 U	0.99 U	0.96 U	2 U
Perfluorononanoic acid (PFNA)	--	--	--	0.91 U	1 U	0.93 U	0.95 U	0.93 U	0.52 J	0.96 U	1.0 J
Perfluorooctane sulfonamide (PFOSA)	--	--	--	0.91 U	1 U	0.93 U	0.95 U	0.90 J	0.99 U	0.96 U	2 U
Perfluorooctane sulfonic acid (PFOS)	710,000	160,000	2.7	0.52 J	11	0.93 U	0.95 U	0.93 U	27	0.96 U	52
Perfluorooctanoic acid (PFOA)	--	--	6.7	16 B	14 B	0.93 U	0.95 U	0.93 U	16	3.9	94 B
Perfluoropentane sulfonic acid (PFPeSA)	--	--	--	0.26 J	0.49 J	0.93 U	0.95 U	0.93 U	0.99 U	0.96 U	2.4
Perfluoropentanoic acid (PFPeA)	--	--	--	11	4.2	1.9 U	1.9 U	1.9 U	2 U	4.7 B	52
Perfluorotetradecanoic acid (PFTeDA)	--	--	--	0.91 U	1 U	0.93 U	0.95 U	0.93 U	0.99 U	0.96 U	2 U
Perfluorotridecanoic acid (PFTrDA)	--	--	--	0.91 U	1 U	0.93 U	0.95 U	0.93 U	0.99 U	0.96 U	2 U
Perfluoroundecanoic acid (PFUdA)	--	--	--	0.91 U	1 U	0.93 U	0.95 U	0.93 U	0.99 U	0.96 U	2 U
Total Suspended Solids (mg/L)											
Total Suspended Solids	--	--	--	10	10 U	10 U	10 U	10 U	10 U	10	68
1,4-Dioxane (ug/L)											
1,4-Dioxane	160,000	18,000	0.35	12	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.2 U	55

Notes:
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Table D6
Emerging Contaminant Analytical Results for 2023 Groundwater
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYSDEC GUIDANCE VALUES - Aquatic Life - Acute	NYSDEC GUIDANCE VALUES - Aquatic Life - Chronic	NYSDEC GUIDANCE- HUMAN HEALTH	MW-06	MW-06A	MW-06B	MW-07	MW-08	MW-09
Sample Date				11/29/2023	11/30/2023	11/29/2023	11/28/2023	11/28/2023	11/29/2023
Per- and Polyfluoroalkyl Substances (ng/L)									
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor)	--	--	--	8.1 U	3.9 U	3.9 U	8 U	3.8 U	4 U
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (HFPO-DA)	--	--	--	8.1 U	3.9 U	3.9 U	8 U	3.8 U	4 U
2H, 2H, 3H, 3H-perfluorodecanoic acid (7:3 FTCA)	--	--	--	100 U	49 U	48 U	100 U	48 U	49 U
2H, 2H, 3H, 3H-perfluorohexanoic acid	--	--	--	20 U	9.8 U	9.6 U	20 U	9.5 U	9.9 U
2H, 2H, 3H, 3H-perfluorooctanoic acid (5:3 FTCA)	--	--	--	100 U	49 U	48 U	100 U	48 U	49 U
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	--	--	--	8.1 U	3.9 U	3.9 U	8 U	3.8 U	4 U
4:2 Fluorotelomer sulfonate (4:2 FTS)	--	--	--	8.1 U	3.9 U	3.9 U	8 U	3.8 U	4 U
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	--	--	--	8.1 UJ	3.9 UJ	3.9 U	8 UJ	3.8 U	4 U
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	--	--	--	8.1 U	3.9 U	3.9 U	8 U	3.8 U	4 U
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CL-PF3ONS)	--	--	--	8.1 U	3.9 U	3.9 U	8 U	3.8 U	4 U
N-Ethyl perfluorooctane sulfonamide (N-EtFOSA)	--	--	--	2 U	0.98 U	0.96 U	2 U	0.95 U	0.99 U
N-Ethyl perfluorooctane sulfonamide ethanol (N-EtFOSE)	--	--	--	20 U	9.8 U	9.6 U	20 U	9.5 U	9.9 U
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	--	--	2 U	0.98 U	0.96 U	2 U	0.95 U	0.99 U
N-Methyl perfluorooctane sulfonamide (N-MeFOSA)	--	--	--	2 U	0.98 U	0.96 U	2 U	0.95 U	0.99 U
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	--	--	--	20 U	9.8 U	9.6 U	20 U	9.5 U	9.9 U
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	--	--	2 U	0.98 U	0.96 U	2 U	0.95 U	0.99 U
Nonafluoro-3,6-Dioxaheptonic Acid (NFDHA)	--	--	--	4.1 U	2 U	1.9 U	4 U	1.9 U	2 U
Perfluoro (2-Ethoxyethane) Sulfonic Acid (PFEESA)	--	--	--	4.1 U	2 U	1.9 U	4 U	1.9 U	2 U
Perfluoro-3-methoxypropanoic aci (PFMPA)	--	--	--	4.1 U	2 U	1.9 U	4 U	1.9 U	2 U
Perfluoro-4-Methoxybutanic acid (PFMBA)	--	--	--	4.1 U	2 U	1.9 U	4 U	1.9 U	2 U
Perfluorobutane sulfonic acid (PFBS)	--	--	--	1.0 J	0.75 J	0.34 J	2 U	3.4	4.1
Perfluorobutanoic acid (PFBA)	--	--	--	8.7	5.1	3.0 J	8 U	3.4 J	57
Perfluorodecane sulfonic acid (PFDS)	--	--	--	2 U	0.98 U	0.96 U	2 U	0.95 U	0.99 U
Perfluorodecanoic acid (PFDA)	--	--	--	2 U	0.98 U	0.96 U	2 U	0.95 U	0.99 U
Perfluorododecane sulfonic acid (PFDOS)	--	--	--	2 U	0.98 U	0.96 U	2 U	0.95 U	0.99 U
Perfluorododecanoic acid (PFDoA)	--	--	--	2 U	0.98 U	0.96 U	2 U	0.95 U	0.99 U
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--	2 U	0.98 U	0.96 U	2 U	0.95 U	0.99 U
Perfluoroheptanoic acid (PFHpA)	--	--	--	2.4	3.0	1.7	2 U	0.95 U	20
Perfluorohexane sulfonic acid (PFHxS)	--	--	--	1.0 J	1.7	0.96 U	2 U	0.95 U	2.2
Perfluorohexanoic acid (PFHxA)	--	--	--	4.1	6.2	3.3	0.65 J	0.95 U	89
Perfluorononane sulfonic acid (PFNS)	--	--	--	2 U	0.98 U	0.96 U	2 U	0.95 U	0.99 U
Perfluorononanoic acid (PFNA)	--	--	--	2 U	0.25 J	0.96 U	2 U	0.95 U	0.45 J
Perfluorooctane sulfonamide (PFOSA)	--	--	--	2 U	0.98 U	0.59 J	2 U	0.95 U	0.99 U
Perfluorooctane sulfonic acid (PFOS)	710,000	160,000	2.7	5.3	6.2	0.56 J	1.2 J	0.95 U	0.34 J
Perfluorooctanoic acid (PFOA)	--	--	6.7	10 B	11	0.63 BJ	4.5	1.0	42 B
Perfluoropentane sulfonic acid (PFPeSA)	--	--	--	2 U	0.44 J	0.96 U	2 U	0.95 U	1.3
Perfluoropentanoic acid (PFPeA)	--	--	--	3.8 J	3.0	4.0	4 U	1.9 U	100
Perfluorotetradecanoic acid (PFTeDA)	--	--	--	2 U	0.98 U	0.96 U	2 U	0.95 U	0.99 U
Perfluorotridecanoic acid (PFTrDA)	--	--	--	2 U	0.98 U	0.96 U	2 U	0.95 U	0.99 U
Perfluoroundecanoic acid (PFUdA)	--	--	--	2 U	0.98 U	0.96 U	2 U	0.95 U	0.99 U
Total Suspended Solids (mg/L)									
Total Suspended Solids	--	--	--	34	38	10 U	16	10 U	10 U
1,4-Dioxane (ug/L)									
1,4-Dioxane	160,000	18,000	0.35	2.8	4.7	0.15 J	0.19 U	0.2 U	0.66

Notes:
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Table D6
Emerging Contaminant Analytical Results for 2023 Groundwater
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYSDEC GUIDANCE VALUES - Aquatic Life - Acute	NYSDEC GUIDANCE VALUES - Aquatic Life - Chronic	NYSDEC GUIDANCE- HUMAN HEALTH	MW-12A	MW-12A DUP	MW-12B	MW-13A	MW-13B	MW-14A
Sample Date				11/29/2023	11/29/2023	11/29/2023	11/30/2023	11/30/2023	11/30/2023
Per- and Polyfluoroalkyl Substances (ng/L)									
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor)	--	--	--	7.6 U	3.9 U	8.1 U	3.8 U	3.6 U	4.1 U
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (HFPO-DA)	--	--	--	7.6 U	3.9 U	8.1 U	3.8 U	3.6 U	4.1 U
2H, 2H, 3H, 3H-perfluorodecanoic acid (7:3 FTCA)	--	--	--	95 U	49 U	100 U	47 U	44 U	51 U
2H, 2H, 3H, 3H-perfluorohexanoic acid	--	--	--	8.9 J	6.5 J	9.4 J	9.4 U	8.9 U	10 U
2H, 2H, 3H, 3H-perfluorooctanoic acid (5:3 FTCA)	--	--	--	24 J	42 J	32 J	47 U	44 U	51 U
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	--	--	--	7.6 U	3.9 U	8.1 U	3.8 U	3.6 U	4.1 U
4:2 Fluorotelomer sulfonate (4:2 FTS)	--	--	--	7.6 U	3.9 U	8.1 U	3.8 U	3.6 U	4.1 UJ
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	--	--	--	7.6 U	3.9 U	8.1 U	3.8 U	23 J	4.1 UJ
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	--	--	--	7.6 U	3.9 U	8.1 U	3.8 U	3.6 U	4.1 U
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CL-PF3ONS)	--	--	--	7.6 U	3.9 U	8.1 U	3.8 U	3.6 U	4.1 U
N-Ethyl perfluorooctane sulfonamide (N-EtFOSA)	--	--	--	1.9 U	0.98 U	2 U	0.94 U	0.89 U	1 U
N-Ethyl perfluorooctane sulfonamide ethanol (N-EtFOSE)	--	--	--	19 U	9.8 U	20 U	9.4 U	8.9 U	10 U
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	--	--	1.9 U	0.98 U	2 U	0.94 U	0.89 U	1 U
N-Methyl perfluorooctane sulfonamide (N-MeFOSA)	--	--	--	1.9 U	0.98 U	2 U	0.94 U	0.89 U	1 U
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	--	--	--	19 U	9.8 U	20 U	9.4 U	8.9 U	10 U
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	--	--	1.9 U	0.98 U	2 U	0.94 U	0.89 U	1 U
Nonafluoro-3,6-Dioxaheptonic Acid (NFDHA)	--	--	--	3.8 U	2 U	4.1 U	1.9 U	1.8 U	2 U
Perfluoro (2-Ethoxyethane) Sulfonic Acid (PFEESA)	--	--	--	3.8 U	2 U	4.1 U	1.9 U	1.8 U	2 U
Perfluoro-3-methoxypropanoic aci (PFMPA)	--	--	--	3.8 U	2 U	4.1 U	1.9 U	1.8 U	2 U
Perfluoro-4-Methoxybutanic acid (PFMBA)	--	--	--	3.8 U	2 U	4.1 U	1.9 U	1.8 U	2 U
Perfluorobutane sulfonic acid (PFBS)	--	--	--	3.6	3.1	4.5	0.94 U	0.89 U	1 U
Perfluorobutanoic acid (PFBA)	--	--	--	29	32	33	3.6 J	3.0 J	4.1 U
Perfluorodecane sulfonic acid (PFDS)	--	--	--	1.9 U	0.98 U	2 U	0.94 U	0.89 U	1 U
Perfluorodecanoic acid (PFDA)	--	--	--	1.9 U	0.98 U	2 U	0.94 U	0.89 U	1 U
Perfluorododecane sulfonic acid (PFDOS)	--	--	--	1.9 U	0.98 U	2 U	0.94 U	0.89 U	1 U
Perfluorododecanoic acid (PFDoA)	--	--	--	1.9 U	0.98 U	2 U	0.94 U	0.89 U	1 U
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--	1.9 U	0.45 J	2 U	0.94 U	0.89 U	1 U
Perfluoroheptanoic acid (PFHpA)	--	--	--	20	23	21	0.39 J	0.60 J	1 U
Perfluorohexane sulfonic acid (PFHxS)	--	--	--	9.0	9.6	10	0.94 U	0.89 U	1 U
Perfluorohexanoic acid (PFHxA)	--	--	--	46	50	53	2.2	0.85 J	1 U
Perfluorononane sulfonic acid (PFNS)	--	--	--	1.9 U	0.98 U	2 U	0.94 U	0.89 U	1 U
Perfluorononanoic acid (PFNA)	--	--	--	0.74 J	1.3	0.97 J	0.94 U	0.89 U	1 U
Perfluorooctane sulfonamide (PFOSA)	--	--	--	1.9 U	0.98 U	2 U	0.94 U	0.89 U	1 U
Perfluorooctane sulfonic acid (PFOS)	710,000	160,000	2.7	15	5.5	5.5	0.94 U	0.89 U	1 U
Perfluorooctanoic acid (PFOA)	--	--	6.7	55 B	56 B	60 B	0.63 J	1.5	1 U
Perfluoropentane sulfonic acid (PFPeSA)	--	--	--	2.6	2.5	3.2	0.94 U	0.89 U	1 U
Perfluoropentanoic acid (PFPeA)	--	--	--	3.8 U	2 U	4.1 U	3.3	0.94 J	0.54 J
Perfluorotetradecanoic acid (PFTeDA)	--	--	--	1.9 U	0.98 U	2 U	0.94 U	0.89 U	1 U
Perfluorotridecanoic acid (PFTrDA)	--	--	--	1.9 U	0.98 U	2 U	0.94 U	0.89 U	1 U
Perfluoroundecanoic acid (PFUdA)	--	--	--	1.9 U	0.36 J	2 U	0.94 U	0.89 U	1 U
Total Suspended Solids (mg/L)									
Total Suspended Solids	--	--	--	66	36	34	10 U	10 U	30
1,4-Dioxane (ug/L)									
1,4-Dioxane	160,000	18,000	0.35	63	83	81	0.19 U	0.19 U	0.2 U

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Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYSDEC GUIDANCE VALUES - Aquatic Life - Acute	NYSDEC GUIDANCE VALUES - Aquatic Life - Chronic	NYSDEC GUIDANCE- HUMAN HEALTH	MW-14B	MW-15	MW-16	MW-17	EW-1	EW-2	EW-3	EW-4
Sample Date				11/30/2023	11/30/2023	11/30/2023	11/30/2023	12/19/2023	12/19/2023	12/19/2023	12/19/2023
Per- and Polyfluoroalkyl Substances (ng/L)											
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor)	--	--	--	3.7 U	4 U	3.7 U	3.7 U	40 U	20 U	80 U	4 U
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (HFPO-DA)	--	--	--	3.7 U	4 U	3.7 U	3.7 U	40 U	20 U	80 U	4 U
2H, 2H, 3H, 3H-perfluorodecanoic acid (7:3 FTCA)	--	--	--	47 U	50 U	46 U	46 U	500 U	250 U	1000 U	50 U
2H, 2H, 3H, 3H-perfluorohexanoic acid	--	--	--	9.4 U	9.9 U	9.2 U	9.3 U	38 J	50 U	200 U	10 U
2H, 2H, 3H, 3H-perfluorooctanoic acid (5:3 FTCA)	--	--	--	47 U	50 U	46 U	46 U	530	250 U	1000 U	50 U
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	--	--	--	3.7 U	4 U	3.7 U	3.7 U	40 U	20 U	80 U	4 U
4:2 Fluorotelomer sulfonate (4:2 FTS)	--	--	--	3.7 UJ	0.77 J	4.9	3.7 U	40 U	20 U	80 U	4 U
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	--	--	--	3.7 UJ	23 J	690 D	1.1 J	40 U	20 U	80 U	4 U
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	--	--	--	3.7 U	4 U	2.8 J	3.7 U	40 U	20 U	80 U	4 U
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CL-PF3ONS)	--	--	--	3.7 U	4 U	3.7 U	3.7 U	40 U	20 U	80 U	4 U
N-Ethyl perfluorooctane sulfonamide (N-EtFOSA)	--	--	--	0.94 U	0.99 U	0.92 U	0.93 U	10 U	5 U	20 U	1 U
N-Ethyl perfluorooctane sulfonamide ethanol (N-EtFOSE)	--	--	--	9.4 U	9.9 U	9.2 U	9.3 U	100 U	50 U	200 U	10 U
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	--	--	0.94 U	0.99 U	0.92 U	0.93 U	94	5 U	20 U	1 U
N-Methyl perfluorooctane sulfonamide (N-MeFOSA)	--	--	--	0.94 U	0.99 U	0.92 U	0.93 U	10 U	5 U	20 U	1 U
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	--	--	--	9.4 U	9.9 U	9.2 U	9.3 U	100 U	50 U	200 U	10 U
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	--	--	0.94 U	0.99 U	0.92 U	0.93 U	10 U	5 U	20 U	1 U
Nonafluoro-3,6-Dioxaheptonic Acid (NFDHA)	--	--	--	1.9 U	2 U	1.8 U	1.9 U	20 U	10 U	40 U	2 U
Perfluoro (2-Ethoxyethane) Sulfonic Acid (PFEESA)	--	--	--	1.9 U	2 U	1.8 U	1.9 U	20 U	10 U	40 U	2 U
Perfluoro-3-methoxypropanoic aci (PFMPA)	--	--	--	1.9 U	2 U	1.8 U	1.9 U	20 U	10 U	40 U	2 U
Perfluoro-4-Methoxybutanic acid (PFMBA)	--	--	--	1.9 U	2 U	1.8 U	1.9 U	20 U	10 U	40 U	2 U
Perfluorobutane sulfonic acid (PFBS)	--	--	--	0.94 U	0.70 J	1.6	0.93 U	8.8 J	1.8 J	20 U	1.3
Perfluorobutanoic acid (PFBA)	--	--	--	1.5 J	17	28	3.7 U	150	31	46 J	3.2 J
Perfluorodecane sulfonic acid (PFDS)	--	--	--	0.94 U	0.99 U	0.92 U	0.93 U	10 U	5 U	20 U	1 U
Perfluorodecanoic acid (PFDA)	--	--	--	0.94 U	0.99 U	0.21 J	0.93 U	10 U	5 U	20 U	1 U
Perfluorododecane sulfonic acid (PFDOS)	--	--	--	0.94 U	0.99 U	0.92 U	0.93 U	10 U	5 U	20 U	1 U
Perfluorododecanoic acid (PFDoA)	--	--	--	0.94 U	0.99 U	0.92 U	0.93 U	10 U	5 U	20 U	1 U
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--	0.94 U	0.99 U	0.99	0.93 U	10 U	5 U	20 U	1 U
Perfluoroheptanoic acid (PFHpA)	--	--	--	0.94 U	19	49	0.36 J	130	16	10 J	1.6
Perfluorohexane sulfonic acid (PFHxS)	--	--	--	0.94 U	2.7	15	0.93 U	28	7.5	5.0 J	0.96 J
Perfluorohexanoic acid (PFHxA)	--	--	--	1.1	35	70	0.93 U	390	44	23	1.9
Perfluorononane sulfonic acid (PFNS)	--	--	--	0.94 U	0.99 U	0.92 U	0.93 U	10 U	5 U	20 U	1 U
Perfluorononanoic acid (PFNA)	--	--	--	0.94 U	0.40 J	1.4	0.93 U	2.2 J	5 U	20 U	1 U
Perfluorooctane sulfonamide (PFOSA)	--	--	--	0.32 J	0.99 U	0.92 U	0.93 U	10 U	5 U	20 U	1 U
Perfluorooctane sulfonic acid (PFOS)	710,000	160,000	2.7	0.94 U	1.2	10	0.93 U	43	15	13 J	7.9
Perfluorooctanoic acid (PFOA)	--	--	6.7	0.94 U	13	45	0.93 U	1000	45	30	7.2
Perfluoropentane sulfonic acid (PFPeSA)	--	--	--	0.94 U	0.46 J	1.5	0.93 U	5.5 J	2.1 J	20 U	0.24 J
Perfluoropentanoic acid (PFPeA)	--	--	--	2.6	54	92	1.9 U	230	35	19 J	1.7 J
Perfluorotetradecanoic acid (PFTeDA)	--	--	--	0.94 U	0.99 U	0.92 U	0.93 U	10 U	5 U	20 U	1 U
Perfluorotridecanoic acid (PFTrDA)	--	--	--	0.94 U	0.99 U	0.92 U	0.93 U	10 U	5 U	20 U	1 U
Perfluoroundecanoic acid (PFUdA)	--	--	--	0.94 U	0.99 U	0.92 U	0.93 U	10 U	5 U	20 U	1 U
Total Suspended Solids (mg/L)											
Total Suspended Solids	--	--	--	10 U	10 U	16	10 U	250	100	890	10
1,4-Dioxane (ug/L)											
1,4-Dioxane	160,000	18,000	0.35	0.2 UJ	0.2 U	0.46 J	0.13 J	110	37 J	41	0.37

Notes:
Constitutents detected above the New York State Department of Environmental Conservation Guidance Values are highlighted in yellow.

Definitions:
B - Compound was found in the blank and sample.
J - The concentration is an approximate value.
µg/L - micrograms per liter.
ng/L - nanograms per liter.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
UJ - The compound was analyzed for but was not detected. The reported quantation limit is approximate.
"--" - No regulatory criteria exists for respective analyte.

Table D7
Volatile Organic Compound Analytical Results for 2023 Surface Water
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYSDEC Aquatic Life - Acute A(A)	NYSDEC Aquatic Life - Chronic A(C)	Unnamed Pond-1	Unnamed Pond-1 DUP	Unnamed Pond-2	GFFC1	GFFC2	GFFC3	CC1	CC2
Sample Date			11/30/2023	11/30/2023	11/30/2023	12/1/2023	12/1/2023	12/1/2023	12/1/2023	12/1/2023
Volatile Organic Compounds (µg/L)										
1,1,1-Trichloroethane	--	--	2 U	2 U	2 U	1 U	2 U	1 U	1 U	2 U
1,1,2,2-Tetrachloroethane	--	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-trichloro-1,2,2-trifluoroethane	--	--	2 U	2 U	2 U	1 U	2 U	1 U	1 U	2 U
1,1,2-Trichloroethane	--	--	2 U	2 U	2 U	1 U	2 U	1 U	1 U	2 U
1,1-Dichloroethane	--	--	2 U	2 U	2 U	1 U	2 U	1 U	1 U	2 U
1,1-Dichloroethene	--	--	2 U	2 U	2 U	1 U	2 U	1 U	1 U	2 U
1,2,3-Trichlorobenzene	5	5	10 U	10 U	10 U	5 U	10 U	5 U	5 U	10 U
1,2,4-Trichlorobenzene	5	5	2 U	2 U	2 U	1 U	2 U	1 U	1 U	2 U
1,2-Dibromo-3-chloropropane	--	--	10 U	10 U	10 U	5 U	10 U	5 U	5 U	10 U
1,2-Dibromoethane	--	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	--	5	2 U	2 U	2 U	1 U	2 U	1 U	1 U	2 U
1,2-Dichloroethane	--	--	2 U	2 U	2 U	1 U	2 U	1 U	1 U	2 U
1,2-Dichloropropane	--	--	2 U	2 U	2 U	1 U	2 U	1 U	1 U	2 U
1,3-Dichlorobenzene	--	5	2 U	2 U	2 U	1 U	2 U	1 U	1 U	2 U
1,4-Dichlorobenzene	--	5	2 U	2 U	2 U	1 U	2 U	1 U	1 U	2 U
1,4-Dioxane	--	--	100 U	100 U	100 U	50 U	100 U	50 U	50 U	100 U
2-Butanone (MEK)	--	--	40 U	40 U	40 U	20 U	40 U	20 U	20 U	40 U
4-Methyl-2-Pentanone	--	--	20 U	20 U	20 U	10 U	20 U	10 U	10 U	20 U
Acetone	--	--	100 U	4.0 J	10 J	2.7 J	5.3 J	50 U	2.9 J	8.2 J
Benzene	760	210	2 U	2 U	2 U	1 U	2 U	1 U	1 U	2 U
Bromochloromethane	--	--	2 U	2 U	2 U	1 U	2 U	1 U	1 U	2 U
Bromodichloromethane	--	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	--	--	2 U	2 U	2 U	1 U	2 U	1 U	1 U	2 U
Bromomethane	--	--	4 U	4 U	4 U	2 U	4 U	2 U	2 U	4 U
Carbon Disulfide	--	--	10 U	10 U	10 U	5 U	10 U	5 U	5 U	10 U
Carbon Tetrachloride	--	--	10 U	10 U	10 U	5 U	10 U	5 U	5 U	10 U
CFC-11	--	--	4 U	4 U	4 U	2 U	4 U	2 U	2 U	4 U
CFC-12	--	--	4 U	4 U	4 U	2 U	4 U	2 U	2 U	4 U
Chlorobenzene	--	5	2 U	2 U	2 U	1 U	2 U	1 U	1 U	2 U
Chlorodibromomethane	--	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	--	--	4 U	4 U	4 U	2 U	4 U	2 U	2 U	4 U
Chloroform	--	--	4 U	4 U	4 U	2 U	4 U	2 U	2 U	4 U
Chloromethane	--	--	4 U	4 U	4 U	2 U	4 U	2 U	2 U	4 U
cis-1,2-Dichloroethene	--	--	2 U	2 U	2 U	1 U	2 U	1 U	1 U	2 U
cis-1,3-Dichloropropene	--	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane	--	--	10 U	10 U	10 U	5 U	10 U	5 U	5 U	10 U
Dichloromethane	--	--	10 U	10 U	10 U	5 U	10 U	5 U	5 U	10 U
Ethylbenzene	150	17	2 U	2 U	2 U	1 U	2 U	1 U	1 U	2 U
Isopropylbenzene	23	2.6	2 U	2 U	2 U	1 U	2 U	1 U	1 U	2 U
Methyl Acetate	--	--	2 U	2 U	2 U	1 U	2 U	1 U	1 U	2 U
Methyl N-Butyl Ketone (2-Hexanone)	--	--	20 U	20 U	20 U	10 U	20 U	10 U	10 U	20 U
Methylcyclohexane	--	--	2 U	2 U	2 U	1 U	2 U	1 U	1 U	2 U
Methyl-tert-butylether	--	--	2 U	2 U	2 U	1 U	2 U	1 U	1 U	2 U
Styrene (Monomer)	--	--	2 U	2 U	2 U	1 U	2 U	1 U	1 U	2 U
Tetrachloroethene	--	--	2 U	2 U	2 U	1 U	2 U	1 U	1 U	2 U
Toluene	480	100	2 U	2 U	2 U	1 U	2 U	1 U	1 U	2 U
Total VOCs	--	--	100 U	4.0 J	10 J	2.7 J	5.3 J	50 U	2.9 J	8.2 J
Total Xylenes	590	65	2 U	2 U	2 U	1 U	2 U	1 U	1 U	2 U
trans-1,2-Dichloroethene	--	--	2 U	2 U	2 U	1 U	2 U	1 U	1 U	2 U
trans-1,3-Dichloropropene	--	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	--	--	2 U	2 U	2 U	1 U	2 U	1 U	1 U	2 U
Vinyl chloride	--	--	4 U	4 U	4 U	2 U	4 U	2 U	2 U	4 U

Notes:
Concentrations detected above the New York State Department of Environmental Conservation (NYSDEC) Aquatic Life - Chronic Standards are highlighted in yellow.
Concentrations detected above the NYSDEC Aquatic Life - Chronic and Acute Standards are highlighted in orange.
Definitions:
J - The concentration is an approximate value.
µg/L - Micrograms per liter.
ND - Non detect.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
"--" - No regulatory criteria exists for respective analyte.

Table D8
Polychlorinated Biphenyl Analytical Results for 2023 Surface Water
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYSDEC Protection of Wildlife (W)	Unnamed Pond-1	Unnamed Pond-1 DUP	Unnamed Pond-2	GFFC1	GFFC2	GFFC3	CC1	CC2
Sample Date		11/30/2023	11/30/2023	11/30/2023	12/1/2023	12/1/2023	12/1/2023	12/1/2023	12/1/2023
Polychlorinated Biphenyls (µg/L)									
Aroclor 1016	--	0.2 U	0.19 U	0.21 U	0.18 U	0.18 U	0.19 U	0.22 U	0.19 U
Aroclor 1221	--	0.2 U	0.19 U	0.21 U	0.18 U	0.18 U	0.19 U	0.22 U	0.19 U
Aroclor 1232	--	0.2 U	0.19 U	0.21 U	0.18 U	0.18 U	0.19 U	0.22 U	0.19 U
Aroclor 1242	--	0.2 U	0.19 U	0.21 U	0.18 U	0.18 U	0.19 U	0.22 U	0.19 U
Aroclor 1248	--	0.2 U	0.19 U	0.21 U	0.18 U	0.18 U	0.19 U	0.22 U	0.19 U
Aroclor 1254	--	0.2 U	0.19 U	0.21 U	0.18 U	0.18 U	0.19 U	0.22 U	0.19 U
Aroclor 1260	--	0.2 U	0.19 U	0.21 U	0.18 U	0.18 U	0.19 U	0.22 U	0.19 U
Aroclor 1262	--	0.2 U	0.19 U	0.21 U	0.18 U	0.18 U	0.19 U	0.22 U	0.19 U
Aroclor 1268	--	0.2 U	0.19 U	0.21 U	0.18 U	0.18 U	0.19 U	0.22 U	0.19 U
Total PCBs	0.00012	0.2 U	0.19 U	0.21 U	0.18 U	0.18 U	0.19 U	0.22 U	0.19 U

Notes:
Concentrations detected above the New York State Department of Environmental Conservation (NYSDEC) Protection of Wildlife Standards are highlighted in yellow.

Definitions:
µg/L - micrograms per liter.
ND - Non detect.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
"--" - No regulatory criteria exists for respective analyte.

Table D9
Metal Analytical Results for 2023 Surface Water
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYSDEC Aquatic Life - Acute A(A)	NYSDEC Aquatic Life - Chronic A(C)	Unnamed Pond-1	Unnamed Pond-1 DUP	Unnamed Pond-2	GFFC1	GFFC2	GFFC3	CC1	CC2
Sample Date			11/30/2023	11/30/2023	11/30/2023	12/1/2023	12/1/2023	12/1/2023	12/1/2023	12/1/2023
Total Metals (mg/L)										
Aluminum	--	0.1	0.05 U	0.05 U	1.1	0.071 B	0.22 B	0.058 B	0.16 B	2.8 B
Antimony	--	--	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Arsenic	0.34	0.15	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Barium	--	--	0.059	0.030 J	0.027 J	0.032 J	0.040 J	0.011 J	0.027 J	0.037 J
Beryllium [H]	--	1	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Cadmium [H]	0.00384	0.00209	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Calcium	--	--	110	99	14	54 B	90 B	78 B	54 B	23 B
Chromium [H]	0.57	0.074	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Cobalt	0.11	0.005	0.0021 J	0.01 U	0.0021 J	0.01 U	0.0056 J	0.01 U	0.01 U	0.01 U
Copper [H]	0.013	0.009	0.01 U	0.01 U	0.0076 BJ	0.01 U	0.01 U	0.0049 BJ	0.01 U	0.0072 BJ
Iron	0.3	0.3	22	4.8	2.0	0.62	4.1	0.16	2.1	2.8
Lead [H]	0.097	0.004	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Magnesium	--	--	25	20	5.8	8.7 B	20 B	17 B	11 B	9.6 B
Manganese	--	--	0.42	0.17	0.47	0.099	0.73	0.019	0.27	0.28
Mercury	0.0014	0.00077	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Nickel [H]	0.468	0.052	0.0061 J	0.0037 J	0.01 U	0.01 U	0.0061 J	0.01 U	0.01 U	0.0038 J
Potassium	--	--	4.2	2.4	5.9	2.1	2.7	1.3 J	2.1	5.3
Selenium	--	0.0046	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Silver [H]	0.00406	0.0001	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0044 BJ	0.0049 BJ	0.0051 BJ
Sodium	--	--	61	32	2.3	65	32	7.6	46	5.8
Thallium	0.02	0.008	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Vanadium	0.19	0.014	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Zinc [H]	0.116	0.083	0.01 U	0.01 U	0.019	0.01 U	0.0050 J	0.01 U	0.01 U	0.0096 J

Notes:
Concentrations detected above the New York State Department of Environmental Conservation (NYSDEC) Aquatic Life - Chronic Standards are highlighted in yellow.
Concentrations detected above the NYSDEC Aquatic Life - Chronic and Acute Standards are highlighted in orange.

Definitions:
B - Compound was found in the blank sample.
[H] - indicates that the NYSDEC Chronic and/or Acute standard is hardness dependent, hardness expressed as 100 parts per million (ppm) calcium
J - The concentration is an approximate value.
mg/L - milligrams per liter.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
"--" - No regulatory criteria exists for respective analyte.

Table D10
Emerging Contaminant Analytical Results for 2023 Surface Water
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYSDEC GUIDANCE VALUES - Aquatic Life - Acute	NYSDEC GUIDANCE VALUES - Aquatic Life - Chronic	NYSDEC GUIDANCE- HUMAN HEALTH	Unnamed Pond-1	Unnamed Pond-1 DUP	Unnamed Pond-2	GFFC1	GFFC2	GFFC3	CC1	CC2
Sample Date				11/30/2023	11/30/2023	11/30/2023	12/1/2023	12/1/2023	12/1/2023	12/1/2023	12/1/2023
Per- and Polyfluoroalkyl Substances (ng/L)											
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor)	--	--	--	4.0 U	3.9 U	3.8 U	3.7 U	3.9 U	4.6 U	3.9 U	3.9 U
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (HFPO-DA)	--	--	--	4.0 U	3.9 U	3.8 U	3.7 U	3.9 U	4.6 U	3.9 U	3.9 U
2H, 2H, 3H, 3H-perfluorodecanoic acid (7:3 FTCA)	--	--	--	50.0 U	49.0 U	47.0 U	47.0 U	48.0 U	58.0 U	49.0 U	49.0 U
2H, 2H, 3H, 3H-perfluorohexanoic acid	--	--	--	9.9 U	9.8 U	9.5 U	9.3 U	9.6 U	12.0 U	9.8 U	9.8 U
2H, 2H, 3H, 3H-perfluorooctanoic acid (5:3 FTCA)	--	--	--	50.0 U	49.0 U	47.0 U	47.0 U	48.0 U	58.0 U	49.0 U	49.0 U
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	--	--	--	4.0 U	3.9 U	3.8 U	3.7 U	3.9 U	4.6 U	3.9 U	3.9 U
4:2 Fluorotelomer sulfonate (4:2 FTS)	--	--	--	4.0 U	3.9 U	3.8 U	3.7 U	3.9 U	4.6 U	3.9 U	3.9 U
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	--	--	--	4.0 U	3.9 U	3.8 U	3.7 U	3.9 U	4.6 U	3.9 U	3.9 U
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	--	--	--	4.0 U	3.9 U	3.8 U	3.7 U	3.9 U	4.6 U	3.9 U	3.9 U
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CL-PF3ONS)	--	--	--	4.0 U	3.9 U	3.8 U	3.7 U	3.9 U	4.6 U	3.9 U	3.9 U
N-Ethyl perfluorooctane sulfonamide (N-EtFOSA)	--	--	--	1.0 U	1.0 U	1.0 U	0.9 U	1.0 U	1.2 U	1.0 U	1.0 U
N-Ethyl perfluorooctane sulfonamide ethanol (N-EtFOSE)	--	--	--	9.9 U	9.8 U	9.5 U	9.3 U	9.6 U	12.0 U	9.8 U	9.8 U
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	--	--	0.88 J	1.1	1.0 U	0.9 U	1.0 U	1.2 U	1.0 U	1.0 U
N-Methyl perfluorooctane sulfonamide (N-MeFOSA)	--	--	--	1.0 U	1.0 U	1.0 U	0.9 U	1.0 U	1.2 U	1.0 U	1.0 U
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	--	--	--	9.9 U	9.8 U	9.5 U	9.3 U	9.6 U	12.0 U	9.8 U	9.8 U
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	--	--	1.0 U	1.0 U	1.0 U	0.9 U	1.0 U	1.2 U	1.0 U	1.0 U
Nonafluoro-3,6-Dioxaheptonic Acid (NFDHA)	--	--	--	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	2.3 U	2.0 U	2.0 U
Perfluoro (2-Ethoxyethane) Sulfonic Acid (PFEESA)	--	--	--	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	2.3 U	2.0 U	2.0 U
Perfluoro-3-methoxypropanoic aci (PFMPA)	--	--	--	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	2.3 U	2.0 U	2.0 U
Perfluoro-4-Methoxybutanic acid (PFMBA)	--	--	--	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	2.3 U	2.0 U	2.0 U
Perfluorobutane sulfonic acid (PFBS)	--	--	--	1.4	1.2	0.45 J	4.0	1.6	0.89 J	3.1	0.84 J
Perfluorobutanoic acid (PFBA)	--	--	--	13	11	5.5	4.3	12	5.9	5.2	9.5
Perfluorodecane sulfonic acid (PFDS)	--	--	--	1.0 U	1.0 U	1.0 U	0.9 U	1.0 U	1.2 U	1.0 U	1.0 U
Perfluorodecanoic acid (PFDA)	--	--	--	1.0 U	1.0 U	1.0 U	0.9 U	1.0 U	1.2 U	1.0 U	1.0 U
Perfluorododecane sulfonic acid (PFDOS)	--	--	--	1.0 U	1.0 U	1.0 U	0.9 U	1.0 U	1.2 U	1.0 U	1.0 U
Perfluorododecanoic acid (PFDoA)	--	--	--	1.0 U	1.0 U	1.0 U	0.9 U	1.0 U	1.2 U	1.0 U	1.0 U
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--	0.62 J	0.52 J	1.0 U	0.9 U	1.0 U	1.2 U	1.0 U	1.0 U
Perfluoroheptanoic acid (PFHpA)	--	--	--	6.8	6.4	0.67 J	1.2	7.5	5.1	2.2	2.0
Perfluorohexane sulfonic acid (PFHxS)	--	--	--	3.4	3.3	0.26 J	1.1	1.6	1.0 J	1.3	0.42 J
Perfluorohexanoic acid (PFHxA)	--	--	--	14	14	0.54 J	1.9	14	8.0	3.9	3.4
Perfluorononane sulfonic acid (PFNS)	--	--	--	1.0 U	1.0 U	1.0 U	0.9 U	1.0 U	1.2 U	1.0 U	1.0 U
Perfluorononanoic acid (PFNA)	--	--	--	0.91 J	0.87 J	0.40 J	0.22 J	0.38 J	0.39 J	1.0 U	0.71 J
Perfluorooctane sulfonamide (PFOSA)	--	--	--	1.0 U	1.0 U	1.2	0.9 U	1.0 U	1.2 U	1.0 U	0.45 J
Perfluorooctane sulfonic acid (PFOS)	710,000	160,000	2.7	26	29	1.0	3.4	3.3	7.8	2.7	4.1
Perfluorooctanoic acid (PFOA)	--	--	6.7	29	27	1.3	3.6	17	6.4	4.8	4.5
Perfluoropentane sulfonic acid (PFPeSA)	--	--	--	0.55 J	0.73 J	1.0 U	0.9 U	0.29 J	1.2 U	0.33 J	1.0 U
Perfluoropentanoic acid (PFPeA)	--	--	--	9.8	8.0	1.9 U	2.2	13	10	3.6	4.6
Perfluorotetradecanoic acid (PFTeDA)	--	--	--	1.0 U	1.0 U	1.0 U	0.9 U	1.0 U	1.2 U	1.0 U	1.0 U
Perfluorotridecanoic acid (PFTrDA)	--	--	--	1.0 U	1.0 U	1.0 U	0.9 U	1.0 U	1.2 U	1.0 U	1.0 U
Perfluoroundecanoic acid (PFUdA)	--	--	--	1.0 U	0.28 J	1.0 U	0.9 U	1.0 U	1.2 U	1.0 U	1.0 U
Total Suspended Solids (mg/L)											
Total Suspended Solids	--	--	--	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	32
1,4-Dioxane (µg/L)											
1,4-Dioxane	160,000	18,000	0.35	28	7.6	0.2 U	0.2 U	1.6	0.25	0.48	0.2 UJ

Notes:
Constitutents detected above the applicable New York State Department of Environmental Conservation Guidance Values are highlighted in yellow.

Definitions:
J - The concentration is an approximate value.
µg/L - micrograms per liter.
ng/L - nanograms per liter.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
UJ - The compound was analyzed for but was not detected. The reported quantation limit is approximate.
"--" - No regulatory criteria exists for respective analyte.

Table D11
Volatile Organic Compound Analytical Results for 2023 Sediment
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYSDEC FRESHWATER SGVS CLASS A	NYSDEC FRESHWATER SGVS CLASS C	NYSDEC WILDLIFE BSGV	Unnamed Pond-1	Unnamed Pond-1 DUP	Unnamed Pond-2	GFFC1	GFFC2	GFFC3	CC1	CC2
Sample Date				11/30/2023	11/30/2023	11/30/2023	12/1/2023	12/1/2023	12/1/2023	12/1/2023	12/1/2023
VOCs (mg/kg)											
Acetone	--	--	--	28 U	1.4 J	38 U	4.8 U	6.5 U	0.013 J	0.1 U	5.4 U
Benzene	0.53	1.9	--	0.56 U	0.45 U	0.75 U	0.096 U	0.13 U	0.002 U	0.002 U	0.11 U
Bromochloromethane	--	--	--	0.56 U	0.45 U	0.75 U	0.096 U	0.13 U	0.002 U	0.002 U	0.11 U
Bromodichloromethane	--	--	--	0.56 U	0.45 U	0.75 U	0.096 U	0.13 U	0.002 U	0.002 U	0.11 U
Bromoform	--	--	--	0.56 U	0.45 U	0.75 U	0.096 U	0.13 U	0.002 U	0.002 U	0.11 U
Bromomethane	--	--	--	1.1 U	0.9 U	1.5 U	0.19 U	0.26 U	0.01 U	0.01 U	0.21 U
2-Butanone (MEK)	--	--	--	11 U	9 U	15 U	1.9 U	2.6 U	0.041 U	0.04 U	2.1 U
Carbon Disulfide	--	--	--	2.8 U	2.2 U	3.8 U	0.48 U	0.65 U	0.01 U	0.01 U	0.54 U
Carbon Tetrachloride	1.07	9.6	--	0.56 U	0.45 U	0.75 U	0.096 U	0.13 U	0.002 U	0.002 U	0.11 U
Chlorobenzene	0.2	1.7	--	0.56 U	0.45 U	0.75 U	0.096 U	0.13 U	0.002 U	0.002 U	0.11 U
Chlorodibromomethane	--	--	--	0.28 U	0.22 U	0.38 U	0.048 U	0.065 U	0.001 U	0.001 U	0.054 U
Chloroethane	--	--	--	1.1 U	0.9 U	1.5 U	0.19 U	0.26 U	0.02 U	0.02 U	0.21 U
Chloroform	--	--	--	1.1 U	0.9 U	1.5 U	0.19 U	0.26 U	0.0041 U	0.004 U	0.21 U
Chloromethane	--	--	--	1.1 U	0.9 U	1.5 U	0.19 U	0.26 U	0.01 U	0.01 U	0.21 U
Cyclohexane	--	--	--	1.1 U	0.9 U	1.5 U	0.19 U	0.26 U	0.01 U	0.01 U	0.21 U
1,2-Dibromo-3-chloropropane	--	--	--	2.8 U	2.2 U	3.8 U	0.48 U	0.65 U	0.002 U	0.002 U	0.54 U
1,2-Dibromoethane	--	--	--	0.28 U	0.22 U	0.38 U	0.048 U	0.065 U	0.001 U	0.001 U	0.054 U
1,2-Dichlorobenzene	0.28	2.5	--	0.56 U	0.45 U	0.75 U	0.096 U	0.13 U	0.002 U	0.002 U	0.11 U
1,3-Dichlorobenzene	1.8	7.1	--	0.56 U	0.45 U	0.75 U	0.096 U	0.13 U	0.002 U	0.002 U	0.11 U
1,4-Dichlorobenzene	0.72	3.3	--	0.56 U	0.45 U	0.75 U	0.096 U	0.13 U	0.002 U	0.002 U	0.11 U
CFC-12	--	--	--	1.1 U	0.9 U	1.5 U	0.19 U	0.26 U	0.02 U	0.02 U	0.21 U
1,1-Dichloroethane	--	--	--	0.56 U	0.45 U	0.75 U	0.096 U	0.13 U	0.002 U	0.002 U	0.11 U
1,2-Dichloroethane	--	--	--	0.56 U	0.45 U	0.75 U	0.096 U	0.13 U	0.002 U	0.002 U	0.11 U
1,1-Dichloroethene	0.52	4.7	--	0.56 U	0.45 U	0.75 U	0.096 U	0.13 U	0.0041 U	0.004 U	0.11 U
cis-1,2-Dichloroethene	--	--	--	0.56 U	0.45 U	0.75 U	0.096 U	0.13 U	0.002 U	0.002 U	0.11 U
trans-1,2-Dichloroethene	1.2	11	--	0.56 U	0.45 U	0.75 U	0.096 U	0.13 U	0.002 U	0.002 U	0.11 U
1,2-Dichloropropane	--	--	--	0.56 U	0.45 U	0.75 U	0.096 U	0.13 U	0.002 U	0.002 U	0.11 U
cis-1,3-Dichloropropene	--	--	--	0.28 U	0.22 U	0.38 U	0.048 U	0.065 U	0.001 U	0.001 U	0.054 U
trans-1,3-Dichloropropene	--	--	--	0.28 U	0.22 U	0.38 U	0.048 U	0.065 U	0.001 U	0.001 U	0.054 U
1,4-Dioxane	--	--	--	28 U	22 U	38 U	4.8 U	6.5 U	0.1 U	0.1 U	5.4 U
1,4-Dioxane (SIM)	--	--	--	0.05 U	0.048 U	0.026 J	NA	NA	NA	NA	NA
Ethylbenzene	0.43	3.7	--	0.56 U	0.45 U	0.75 U	0.096 U	0.13 U	0.002 U	0.002 U	0.11 U
Methyl N-Butyl Ketone (2-Hexanone)	--	--	--	5.6 U	4.5 U	7.5 U	0.96 U	1.3 U	0.02 U	0.02 U	1.1 U
Isopropylbenzene	0.21	1.8	--	0.56 U	0.45 U	0.75 U	0.096 U	0.13 U	0.002 U	0.002 U	0.11 U
Methyl Acetate	--	--	--	5.6 U	0.93 J	7.5 U	0.96 U	0.18 J	0.002 U	0.002 U	1.1 U
Methyl-tert-butylether	--	--	--	0.56 U	0.45 U	0.75 U	0.096 U	0.13 U	0.0041 U	0.004 U	0.11 U
Methylcyclohexane	--	--	--	0.56 U	0.45 U	0.75 U	0.096 U	0.13 U	0.0041 U	0.004 U	0.11 U
Dichloromethane	--	--	--	2.8 U	2.2 U	3.8 U	0.48 U	0.65 U	0.02 U	0.02 U	0.54 U
4-Methyl-2-Pentanone	--	--	--	5.6 U	4.5 U	7.5 U	0.96 U	1.3 U	0.02 U	0.02 U	1.1 U
Styrene (Monomer)	--	--	--	0.56 U	0.45 U	0.75 U	0.096 U	0.13 U	0.002 U	0.002 U	0.11 U
1,1,2,2-Tetrachloroethane	2.8	5.4	--	0.28 U	0.22 U	0.38 U	0.048 U	0.065 U	0.001 U	0.001 U	0.054 U
Tetrachloroethene	16	57	--	0.56 U	0.45 U	0.75 U	0.096 U	0.13 U	0.002 U	0.002 U	0.11 U
Toluene	0.93	4.5	--	0.56 U	0.45 U	0.75 U	0.096 U	0.13 U	0.002 U	0.002 U	0.11 U
1,2,3-Trichlorobenzene	0.23	2.8	--	2.8 U	2.2 U	3.8 U	0.48 U	0.65 U	0.002 U	0.002 U	0.54 U
1,2,4-Trichlorobenzene	35	55	--	0.56 U	0.45 U	0.75 U	0.096 U	0.13 U	0.002 U	0.002 U	0.11 U
1,1,1-Trichloroethane	1.9	3.5	0.25	0.56 U	0.45 U	0.75 U	0.096 U	0.13 U	0.002 U	0.002 U	0.11 U
1,1,2-Trichloroethane	1.9	3.5	0.25	0.56 U	0.45 U	0.75 U	0.096 U	0.13 U	0.002 U	0.002 U	0.11 U
Trichloroethene	1.8	8.6	--	0.56 U	0.45 U	0.75 U	0.096 U	0.13 U	0.002 U	0.002 U	0.11 U
CFC-11	--	--	--	1.1 U	0.9 U	1.5 U	0.19 U	0.26 U	0.01 U	0.01 U	0.21 U
1,1,2-trichloro-1,2,2-trifluoroethane	--	--	--	0.56 U	0.45 U	0.75 U	0.096 U	0.13 U	0.01 U	0.01 U	0.11 U
Vinyl chloride	--	--	--	1.1 U	0.9 U	1.5 U	0.19 U	0.26 U	0.01 U	0.01 U	0.21 U
Total Xylenes	0.59	5.2	--	0.56 U	0.45 U	0.75 U	0.096 U	0.13 U	0.002 U	0.002 U	0.11 U
Total VOCs	--	--	--	ND	2.33 J	ND	ND	0.18 J	0.013 J	ND	ND

Notes:
Sediment Guidance Values (SGVs) are normalized to 2% total organic carbon (TOC) since sample specific TOC results are not available, as presented in New York State Department of Environmental Conservation
All sediment samples for which SGVs are available are classified as Class A sediment.
The sum of trichloroethane isomers were used for the SGVs for each isomer (1,1,1-Trichloroethane and 1,1,2-Trichloroethane).
Concentrations detected above the NYSDEC sediment guidance values (SGV) for wildlife are highlighted in yellow.
Definitions:
J - The concentration is an approximate value.
mg/kg - milligrams per kilogram.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
"--" - No regulatory criteria exists for respective analyte.

Table D12
Polychlorinated Biphenyl Analytical Results for 2023 Sediment
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYSDEC FRESHWATER SGVS CLASS A	NYSDEC FRESHWATER SGVS CLASS C	NYSDEC WILDLIFE BSGV	GFFC1	GFFC2	GFFC3	CC1	CC2
Sample Date				12/1/2023	12/1/2023	12/1/2023	12/1/2023	12/1/2023
Polychlorinated Biphenyls (mg/kg)								
Aroclor 1016	--	--	--	0.14 U	0.17 U	0.11 U	0.1 U	0.16 U
Aroclor 1221	--	--	--	0.14 U	0.17 U	0.11 U	0.1 U	0.16 U
Aroclor 1232	--	--	--	0.14 U	0.17 U	0.11 U	0.1 U	0.16 U
Aroclor 1242	--	--	--	0.14 U	0.17 U	0.11 U	0.1 U	0.16 U
Aroclor 1248	--	--	--	0.24	0.17 U	0.13	0.14	0.17
Aroclor 1254	--	--	--	0.20	0.17 U	0.29	0.088 J	0.097 J
Aroclor 1260	--	--	--	0.14 U	0.17 U	0.057 J	0.1 U	0.16 U
Aroclor 1262	--	--	--	0.14 U	0.17 U	0.11 U	0.1 U	0.16 U
Aroclor 1268	--	--	--	0.14 U	0.17 U	0.11 U	0.1 U	0.16 U
Total PCBs	0.1	1	0.0041	0.44	0.17 U	0.477 J	0.228 J	0.267 J

Notes:
All sediment samples for which SGVs are available are classified as Class A sediment.
Concentrations detected above the NYSDEC Fresh Water SGVs for Class A sediments are highlighted in yellow.
Definitions:
mg/kg - milligrams per kilogram.
ND - Non detect.
SGV - sediment guidance value.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
"--" - No regulatory criteria exists for respective analyte.

Table D13
Metal Analytical Results for 2023 Sediment
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	NYSDEC FRESHWATER SGVS CLASS A	NYSDEC FRESHWATER SGVS CLASS C	Unnamed Pond-1	Unnamed Pond-1 DUP	Unnamed Pond-2	GFFC1	GFFC2	GFFC3	CC1	CC2
Sample Date			11/30/2023	11/30/2023	11/30/2023	12/1/2023	12/1/2023	12/1/2023	12/1/2023	12/1/2023
Metals (mg/kg)										
Aluminum			11000	12000	22000	3700	5400	4500	2600	4000
Antimony	--	--	10 U	7.3 U	14 U	3 U	3.5 U	2.3 U	2.2 U	3.2 U
Arsenic	10	33	9.8 J	5.4 J	28 U	1.9 J	12	1.4 J	0.89 J	1.1 J
Barium	--	--	110	100	170	23 B	240 B	30 B	12 B	31 B
Beryllium	--	--	0.68 J	0.67 J	0.81 J	0.22 J	0.30 J	0.24	0.13 J	0.20 J
Cadmium	1	5	2.1 U	1.5 U	1.5 J	1.6	0.36 J	1.3	0.44 U	0.26 J
Calcium	--	--	29000	29000	9300	2200	9800	2100	1300	4700
Chromium	43	110	18	19	34	9.8	10	7.8	3.7	6.0
Cobalt	--	--	11	9.2	6.8 J	2.5 J	13	3.2	1.6 J	2.3 J
Copper	32	150	26 B	19 B	29 B	11 B	8.0 B	5.8 B	3.0 B	6.8 B
Iron	--	--	70000	40000	17000	21000	45000	8300	5800	4900
Lead	36	130	11	9.4	68	50	9.9	14	8.8	23
Magnesium	--	--	4400	4600	3700	1200	2500	1700	1100	1500
Manganese	--	--	390	310	340	170	12000	150	59	51
Mercury	0.2	1	0.063 J	0.098 U	0.28	0.19	0.046 J	0.041	0.023 J	0.055
Nickel	23	49	25	20	20	6.5	13	6.7	3.1	8.2
Potassium	--	--	1900	2000	2900	350	810	550	230	500
Selenium	--	--	21 U	15 U	28 U	5.9 U	6.9 U	4.6 U	4.4 U	6.5 U
Silver	1	2.2	2.1 U	1.5 U	2.8 U	1.5	0.69 U	0.24 J	0.44 U	0.65 U
Sodium	--	--	860 J	920	1400 U	160 J	140 J	100 J	84 J	320 U
Thallium	--	--	10 U	7.3 U	14 U	3 U	3.5 U	2.3 U	2.2 U	3.2 U
Vanadium	--	--	32	28	37	10	15	9.4	6.3	7.6
Zinc	120	460	57	49	130	170	180	63	42	72

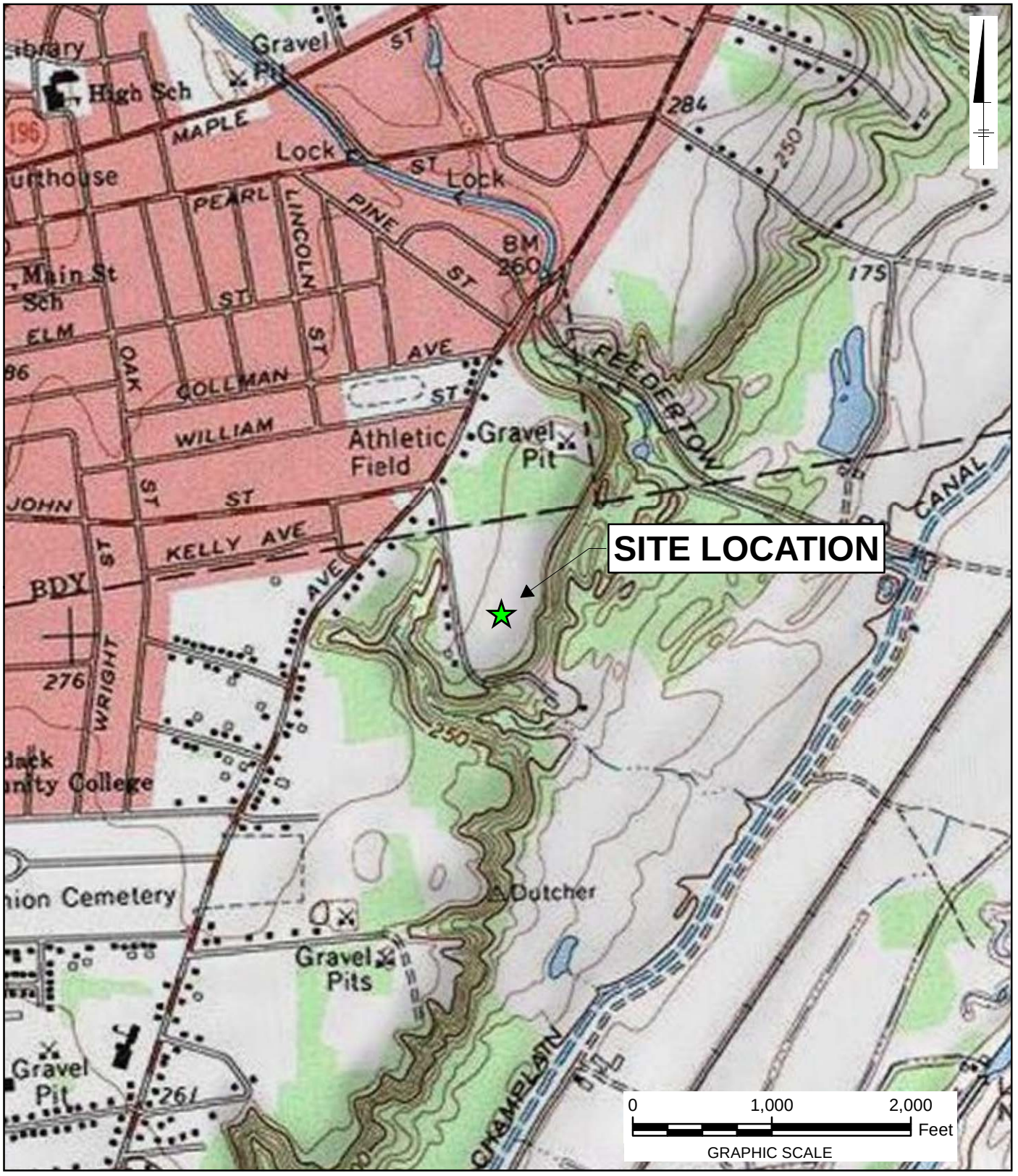
Notes:
All sediment samples for which SGVs are available are classified as Class A sediment.
Class A sediments, undetected and unclassified sediment concentrations have no highlight (white background).
Concentrations detected between the NYSDEC Class A and Class C SGVs are identified as Class B sediments and are highlighted in yellow.
Concentrations detected above NYSDEC Class C SGVs are highlighted in orange.

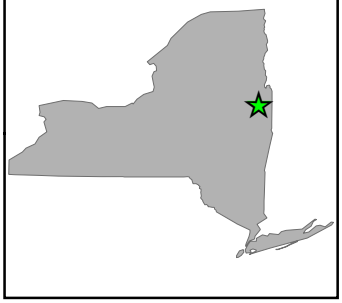
Definitions:
B - Compound was found in the blank sample.
J - The concentration is an approximate value.
mg/kg - milligrams per kilogram.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
SGV - Sediment Guidance Values
"--" - No regulatory criteria exists for respective analyte.

Table D14
Emerging Contaminant Analytical Results for 2023 Sediment
Fort Edward Landfill, Hudson Falls, New York
NYSDEC Site # 558001

Location	Unnamed Pond-1	Unnamed Pond-1 DUP	Unnamed Pond-2	CC1	CC2	GFFC1	GFFC2	GFFC3
Sample Date	11/30/2023	11/30/2023	11/30/2023	12/1/2023	12/1/2023	12/1/2023	12/1/2023	12/1/2023
Per- and Polyfluoroalkyl Substances (µg/kg)								
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor)	0.8 U	2.4 U	1.7 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (HFPO-DA)	0.8 U	2.4 U	1.7 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
2H, 2H, 3H, 3H-perfluorodecanoic acid (7:3 FTCA)	9.9 U	30 U	21 UJ	10 U	10 U	10 U	10 U	10 U
2H, 2H, 3H, 3H-perfluorohexanoic acid	2.0 U	5.9 U	4.3 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2H, 2H, 3H, 3H-perfluorooctanoic acid (5:3 FTCA)	9.9 U	30 U	21 UJ	10 U	10 U	10 U	10 U	10 U
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	0.8 U	2.4 U	1.7 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
4:2 Fluorotelomer sulfonate (4:2 FTS)	0.8 U	2.4 U	1.7 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	0.8 U	2.4 U	1.7 U	0.8 U	0.8 U	0.8 U	0.26 J	0.8 U
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	0.8 U	2.4 U	1.7 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CL-PF3ONS)	0.8 U	2.4 U	1.7 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
N-Ethyl perfluorooctane sulfonamide (N-EtFOSA)	0.2 U	0.6 U	0.4 UJ	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
N-Ethyl perfluorooctane sulfonamide ethanol (N-EtFOSE)	0.76 J	1.9 J	4.3 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	6.5	12	0.4 U	0.2 U	0.22	0.064 J	0.10 J	0.2 U
N-Methyl perfluorooctane sulfonamide (N-MeFOSA)	0.058 J	0.6 U	0.4 UJ	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	2.0 U	5.9 U	4.3 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
N-Methylperfluoroocatane sulfonamidoacetic acid (MeFOSAA)	0.061 J	0.6 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nonafluoro-3,6-Dioxaheptonic Acid (NFDHA)	0.4 U	1.2 U	0.9 UJ	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Perfluoro (2-Ethoxyethane) Sulfonic Acid (PFEESA)	0.4 U	1.2 U	0.9 UJ	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Perfluoro-3-methoxypropanoic aci (PFMPA)	0.4 U	1.2 U	0.9 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Perfluoro-4-Methoxybutanic acid (PFMBA)	0.4 U	1.2 U	0.9 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Perfluorobutane sulfonic acid (PFBS)	0.2 U	0.6 U	0.4 UJ	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorobutanoic acid (PFBA)	0.22 J	0.77 J	0.53 J	0.8 U	0.16 J	0.22 J	0.17 J	0.8 U
Perfluorodecane sulfonic acid (PFDS)	0.2 U	0.6 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorodecanoic acid (PFDA)	0.033 J	0.13 J	0.21 J	0.2 U	0.2 U	0.029 J	0.033 J	0.2 U
Perfluorododecane sulfonic acid (PFDOS)	0.2 U	0.6 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorododecanoic acid (PFDoA)	0.037 J	0.15 J	0.18 J	0.2 U	0.088 J	0.085 J	0.091 J	0.027 J
Perfluoroheptane sulfonic acid (PFHpS)	0.2 U	0.14 J	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluoroheptanoic acid (PFHpA)	0.080 J	0.29 J	0.077 J	0.2 U	0.2 U	0.060 J	0.067 J	0.2 U
Perfluorohexane sulfonic acid (PFHxS)	0.15 J	0.49 J	0.071 J	0.2 U	0.2 U	0.029 J	0.039 J	0.2 U
Perfluorohexanoic acid (PFHxA)	0.11 J	0.39 J	0.4 UJ	0.2 U	0.2 U	0.091 J	0.12 J	0.2 U
Perfluorononane sulfonic acid (PFNS)	0.2 U	0.6 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorononanoic acid (PFNA)	0.039 J	0.14 J	0.18 J	0.2 U	0.2 U	0.048 J	0.032 J	0.2 U
Perfluorooctane sulfonamide (PFOSA)	0.38	0.83	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorooctane sulfonic acid (PFOS)	5.0	17	1.1	0.2 U	0.40	0.14 J	0.60	0.2 U
Perfluorooctanoic acid (PFOA)	0.49	1.7	0.14 J	0.2 U	0.12 J	0.11 J	0.26	0.2 U
Perfluoropentane sulfonic acid (PFPeSA)	0.2 U	0.6 U	0.17 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluoropentanoic acid (PFPeA)	0.4 U	1.2 U	0.9 U	0.4 U	0.4 U	0.085 J	0.11 J	0.4 U
Perfluorotetradecanoic acid (PFTeDA)	0.027 J	0.6 U	0.13 J	0.2 U	0.029 J	0.053 J	0.036 J	0.2 U
Perfluorotridecanoic acid (PFTrDA)	0.034 J	0.6 U	0.27 J	0.2 U	0.077 J	0.065 J	0.058 J	0.2 U
Perfluoroundecanoic acid (PFUdA)	0.042 J	0.15 J	0.43	0.2 U	0.10 J	0.055 J	0.091 J	0.2 U

Notes:
Constitutents detected above the New York State Department of Environmental Conservation Guidance Values are highlighted in yellow.
Definitions:
J - The concentration is an approximate value.
µg/kg - micrograms per kilogram.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
UJ - The compound was analyzed for but was not detected. The reported quantation limit is approximate.
"--" - No regulatory criteria exists for respective analyte.





NOTE:

1. USGS QUADRANGLE INFORMATION
   QUAD ID: 43073-C5
   NAME: HUDSON FALLS, NEW YORK
   DATE PUB: 1968

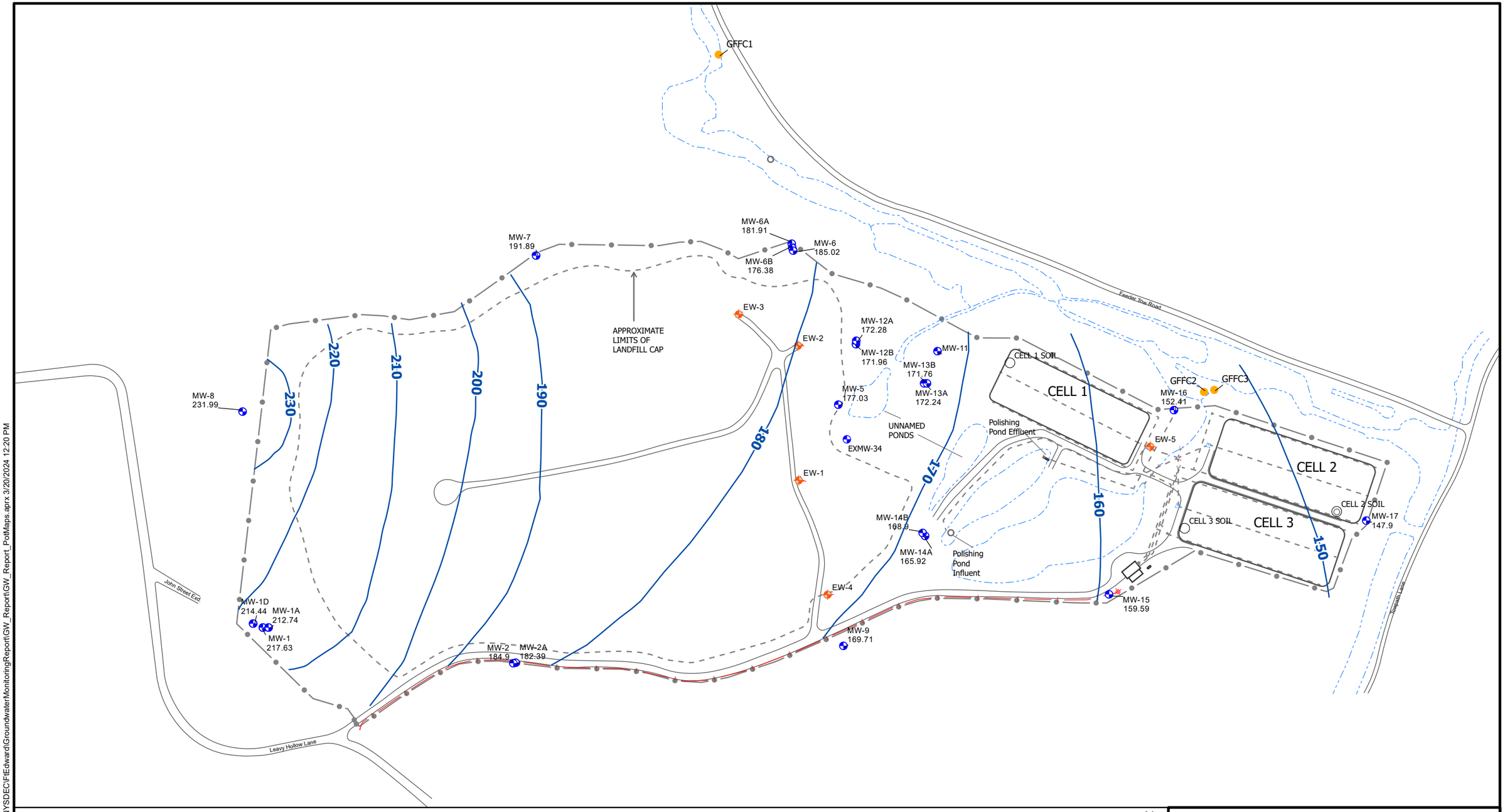
FORT EDWARD LANDFILL, HUDSON FALLS, NY
NYSDEC SITE 558001

GROUNDWATER MONITORING REPORT

SITE LOCATION MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE D1



Legend

- Monitoring Well
- Extraction Well
- Road
- Water Edge
- Buried Electrical Line
- Fence
- Underground Treatment Piping
- Potentiometric Contour
- 215.5 Groundwater Elevation (in feet above mean seal level [ft. amsl])

0 500 1,000 1,500 2,000 Feet

GRAPHIC SCALE

N

FORT EDWARD LANDFILL, HUDSON FALLS, NY
NYSDEC SITE 558001

GROUNDWATER MONITORING REPORT

POTENTIOMETRIC CONTOURS DECEMBER 2023

ARCADIS

FIGURE D2

City: Clifton Park Div/Group: ENV Created By: J. Kullberg Last Saved By: LJohns
Project Fort Edward Landfill
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EW-3	Units	AUG 2017	OCT 2018	MAY 2021	SEPT 2022	DEC 2023
Total VOCs	µg/L	132.52	111.35	36.66	123.31	37.04
Iron	mg/L	33	38	31.9	130	370
Total PCBs	µg/L	ND	ND	1.9	ND	ND
1,4-Dioxane	µg/L	74	NA	68	66	41

MW-6B (69'- 79')	Units	AUG 2017	OCT 2018	MAY 2021	SEPT 2022	NOV 2023
Total VOCs	µg/L	ND	ND	ND	23.31	ND
Iron	mg/L	0.24	0.74	0.82	120	0.31
Total PCBs	µg/L	ND	ND	ND	ND	ND
1,4-Dioxane	µg/L	ND	NA	0.15	0.25	0.15

MW-6 (4'- 14')	Units	AUG 2017	OCT 2018	MAY 2021	SEPT 2022	NOV 2023
Total VOCs	µg/L	32.9	24.1	19	15.94	20.14
Iron	mg/L	120	100	100	19	99
Total PCBs	µg/L	ND	0.58	0.79	ND	ND
1,4-Dioxane	µg/L	3.2	NA	5.2	8.1	2.8

MW-6A (49'- 59')	Units	AUG 2017	OCT 2018	MAY 2021	SEPT 2022	NOV 2023
Total VOCs	µg/L	29.5	14.9	12.71	ND	17.76
Iron	mg/L	21	18	13.9	0.44	16
Total PCBs	µg/L	ND	ND	ND	ND	ND
1,4-Dioxane	µg/L	9.6	NA	4.4	6.4	4.7

MW-12A (6'-16')	Units	AUG 2017	OCT 2018	MAY 2021	SEPT 2022	NOV 2023
Total VOCs	µg/L	*	*	9.07	4.45	45.12
Iron	mg/L	*	*	45.6	33	36
Total PCBs	µg/L	*	*	ND	ND	ND
1,4-Dioxane	µg/L	*	*	50	78	63

MW-12B (26'-36')	Units	AUG 2017	OCT 2018	MAY 2021	SEPT 2022	NOV 2023
Total VOCs	µg/L	*	*	7.0	4.53	82.78
Iron	mg/L	*	*	1.03	16	19
Total PCBs	µg/L	*	*	ND	ND	ND
1,4-Dioxane	µg/L	*	*	61	96	81

MW-11 (11.5'-21.5')	Units	AUG 2017	OCT 2018	MAY 2021	SEPT 2022	NOV 2023
Total VOCs	µg/L	0.44	ND	ND	NS	NS
Iron	mg/L	0.51	370	0.26	NS	NS
Total PCBs	µg/L	ND	ND	ND	NS	NS
1,4-Dioxane	µg/L	ND	NA	ND	NS	NS

MW-13B (40.65'-50.65')	Units	AUG 2017	OCT 2018	MAY 2021	SEPT 2022	NOV 2023
Total VOCs	µg/L	*	*	ND	ND	ND
Iron	mg/L	*	*	0.185	0.16	0.64
Total PCBs	µg/L	*	*	ND	ND	ND
1,4-Dioxane	µg/L	*	*	ND	ND	ND

MW-13A (20.1'-30.1')	Units	AUG 2017	OCT 2018	MAY 2021	SEPT 2022	NOV 2023
Total VOCs	µg/L	*	*	ND	ND	ND
Iron	mg/L	*	*	0.457	0.41	0.25
Total PCBs	µg/L	*	*	ND	ND	ND
1,4-Dioxane	µg/L	*	*	0.12	0.063	ND

MW-16 (5'-15')	Units	AUG 2017	OCT 2018	MAY 2021	SEPT 2022	NOV 2023
Total VOCs	µg/L	*	*	ND	0.65	ND
Iron	mg/L	*	*	0.172	0.089	0.086
Total PCBs	µg/L	*	*	ND	ND	ND
1,4-Dioxane	µg/L	*	*	0.84	0.98	0.49

MW-7 (8'-18')	Units	AUG 2017	OCT 2018	MAY 2021	SEPT 2022	NOV 2023
Total VOCs	µg/L	ND	1.1	ND	0.37	0.23
Iron	mg/L	160	130	146	110	110
Total PCBs	µg/L	ND	ND	ND	ND	ND
1,4-Dioxane	µg/L	ND	NA	ND	ND	ND

MW-8 (5'-10')	Units	AUG 2017	OCT 2018	MAY 2021	SEPT 2022	NOV 2023
Total VOCs	µg/L	ND	ND	ND	ND	0.21
Iron	mg/L	0.057	ND	0.14	0.035	ND
Total PCBs	µg/L	ND	ND	ND	ND	ND
1,4-Dioxane	µg/L	ND	NA	ND	ND	ND

EW-2	Units	AUG 2017	OCT 2018	MAY 2021	SEPT 2022	DEC 2023
Total VOCs	µg/L	72.37	65.59	15.21	8.28	13.5
Iron	mg/L	22	34	18	45	82
Total PCBs	µg/L	ND	ND	0.3	ND	ND
1,4-Dioxane	µg/L	48	NA	44	42	37

MW-1 (38' - 48')	Units	AUG 2017	OCT 2018	MAY 2021	SEPT 2022	NOV 2023
Total VOCs	µg/L	ND	ND	ND	ND	ND
Iron	mg/L	ND	0.23	0.074	0.14	ND
Total PCBs	µg/L	ND	ND	ND	ND	ND
1,4-Dioxane	µg/L	ND	NA	ND	ND	ND

MW-5 (5'- 15')	Units	AUG 2017	OCT 2018	MAY 2021	SEPT 2022	NOV 2023
Total VOCs	µg/L	908.4	358	461.6	238.88	195.9
Iron	mg/L	54	62	NS	46	39
Total PCBs	µg/L	ND	ND	ND	ND	ND
1,4-Dioxane	µg/L	110	NA	68	66	55

EXMW-34	Units	SEPT 2022	NOV 2023
Total VOCs	µg/L	2.0	1.1
Iron	mg/L	1.0	1.4
Total PCBs	µg/L	ND	ND
1,4-Dioxane	µg/L	8.5	12

MW-1D (149' - 169')	Units	AUG 2017	OCT 2018	MAY 2021	SEPT 2022	NOV 2023
Total VOCs	µg/L	ND	ND	ND	ND	2.0
Iron	mg/L	0.37	0.74	0.169	3.2	0.14
Total PCBs	µg/L	ND	ND	ND	ND	ND
1,4-Dioxane	µg/L	ND	NA	ND	ND	ND

MW-2 (4.5' - 14.5')	Units	AUG 2017	OCT 2018	MAY 2021	SEPT 2022	NOV 2023
Total VOCs	µg/L	ND	ND	ND	ND	ND
Iron	mg/L	5.2	13	14.7	1.5	0.97
Total PCBs	µg/L	ND	ND	ND	ND	ND
1,4-Dioxane	µg/L	ND	NA	ND	ND	ND

EW-1	Units	AUG 2017	OCT 2018	MAY 2021	SEPT 2022	DEC 2023
Total VOCs	µg/L	4,817.3	2,513.7	1,054.7	2750	1394.5
Iron	mg/L	55	53	63.6	41	130
Total PCBs	µg/L	250	4,400	8,600	1300	173
1,4-Dioxane	µg/L	140	NA	130	49	110

MW-14B (40'-50')	Units	AUG 2017	OCT 2018	MAY 2021	SEPT 2022	NOV 2023
Total VOCs	µg/L	*	*	ND	ND	ND
Iron	mg/L	*	*	0.691	0.59	0.77
Total PCBs	µg/L	*	*	ND	ND	ND
1,4-Dioxane	µg/L	*	*	ND	ND	ND

MW-14A (20'-30')	Units	AUG 2017	OCT 2018	MAY 2021	SEPT 2022	NOV 2023
Total VOCs	µg/L	*	*	ND	ND	ND
Iron	mg/L	*	*	0.0508	0.071	0.58
Total PCBs	µg/L	*	*	ND	ND	ND
1,4-Dioxane	µg/L	*	*	ND	ND	ND

MW-17 (20'-30')	Units	AUG 2017	OCT 2018	MAY 2021	SEPT 2022	NOV 2023
Total VOCs	µg/L	*	*	442	14.16	5.23
Iron	mg/L	*	*	0.635	0.63	0.75
Total PCBs	µg/L	*	*	ND	ND	ND
1,4-Dioxane	µg/L	*	*	ND	ND	0.13

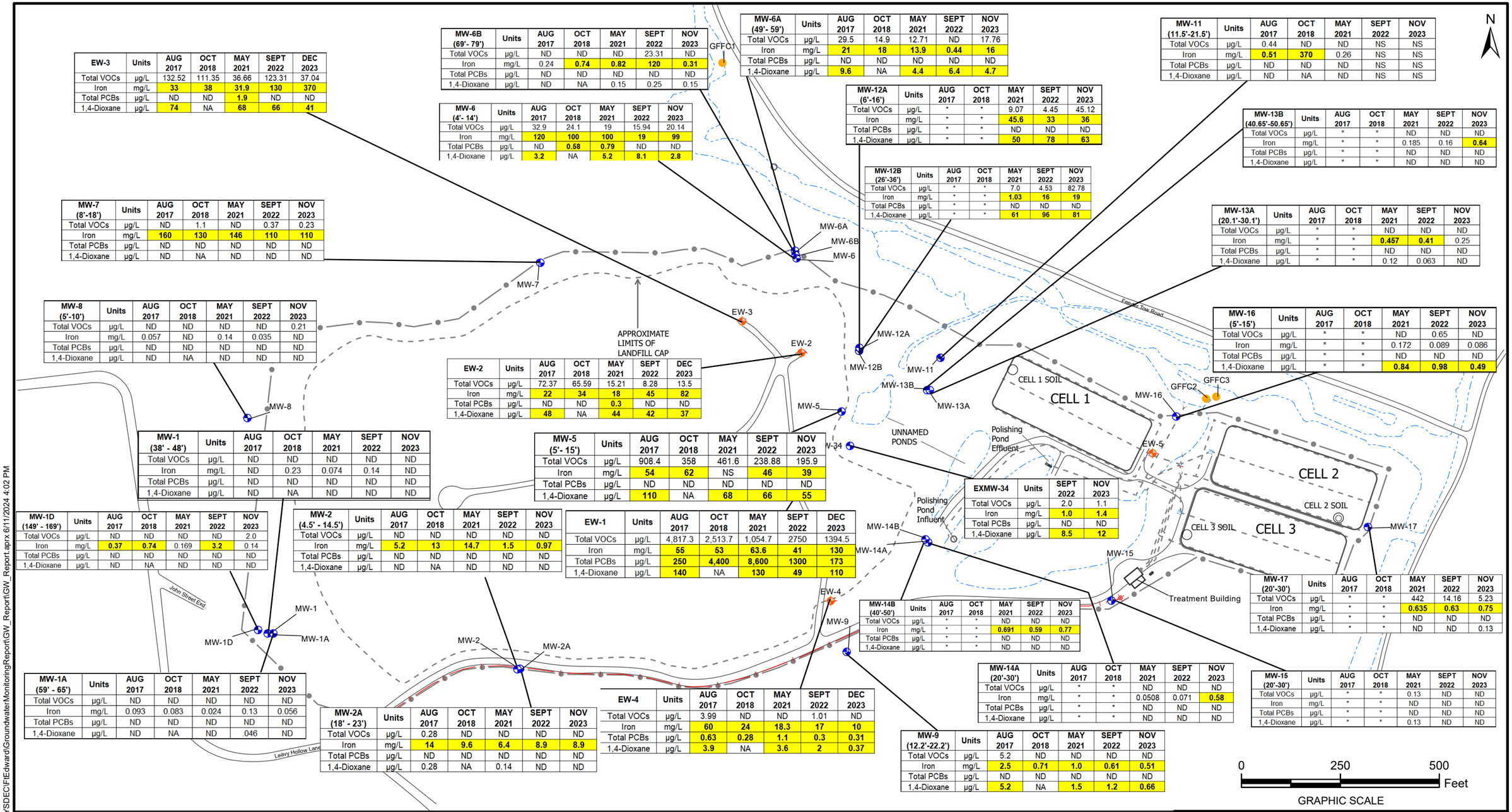
MW-15 (20'-30')	Units	AUG 2017	OCT 2018	MAY 2021	SEPT 2022	NOV 2023
Total VOCs	µg/L	*	*	0.13	ND	ND
Iron	mg/L	*	*	ND	ND	ND
Total PCBs	µg/L	*	*	ND	ND	ND
1,4-Dioxane	µg/L	*	*	0.13	ND	ND

MW-1A (59' - 65')	Units	AUG 2017	OCT 2018	MAY 2021	SEPT 2022	NOV 2023
Total VOCs	µg/L	ND	ND	ND	ND	ND
Iron	mg/L	0.093	0.083	0.024	0.13	0.056
Total PCBs	µg/L	ND	ND	ND	ND	ND
1,4-Dioxane	µg/L	ND	NA	ND	.046	ND

MW-2A (18' - 23')	Units	AUG 2017	OCT 2018	MAY 2021	SEPT 2022	NOV 2023
Total VOCs	µg/L	0.28	ND	ND	ND	ND
Iron	mg/L	14	9.6	6.4	8.9	8.9
Total PCBs	µg/L	ND	ND	ND	ND	ND
1,4-Dioxane	µg/L	0.28	NA	0.14	ND	ND

EW-4	Units	AUG 2017	OCT 2018	MAY 2021	SEPT 2022	DEC 2023
Total VOCs	µg/L	3.99	ND	ND	1.01	ND
Iron	mg/L	60	24	18.3	17	10
Total PCBs	µg/L	0.63	0.28	1.1	0.3	0.31
1,4-Dioxane	µg/L	3.9	NA	3.6	2	0.37

MW-9 (12.2'-22.2')	Units	AUG 2017	OCT 2018	MAY 2021	SEPT 2022	NOV 2023
Total VOCs	µg/L	5.2	ND	ND	ND	ND
Iron	mg/L	2.5	0.71	1.0	0.61	0.51
Total PCBs	µg/L	ND	ND	ND	ND	ND
1,4-Dioxane	µg/L	5.2	NA	1.5	1.2	0.66



Analyte (Screen Interval)	Units	NYSDEC Class GA Standards or Guidance Values
Total VOCs	µg/L	--
Iron	mg/L	0.3
Total PCBs	µg/L	0.09
1,4-Dioxane	µg/L	0.35

NOTES

1. HIGHLIGHTED VALUES EXCEED NYSDEC CLASS GA STANDARDS OR GUIDANCE VALUES.

MAP BASED ON SURVEY PERFORMED BY DARRAH LAND SURVEYING, PLLC, 4/2017, 12/2019, AND 2/2021.

DEFINITIONS

µg/L - MICROGRAM PER LITER
mg/L - MILLIGRAM PER LITER
ng/L - NANOGRAM PER LITER
NA - NOT ANALYZED
NS - NOT SAMPLED
ND - NOT DETECTED
PCBs - POLYCHLORINATED BIPHENYLS
PFAS - PERFLUORINATED ALKYL SUBSTANCES
VOCs - VOLATILE ORGANIC COMPOUNDS

LEGEND

MONITORING WELL
EXTRACTION WELL
SOIL SAMPLING LOCATION
FEEDER CANAL SAMPLING LOCATION
ROAD
WATER EDGE
BURIED ELECTRICAL LINE
FENCE
UNDERGROUND TREATMENT PIPING

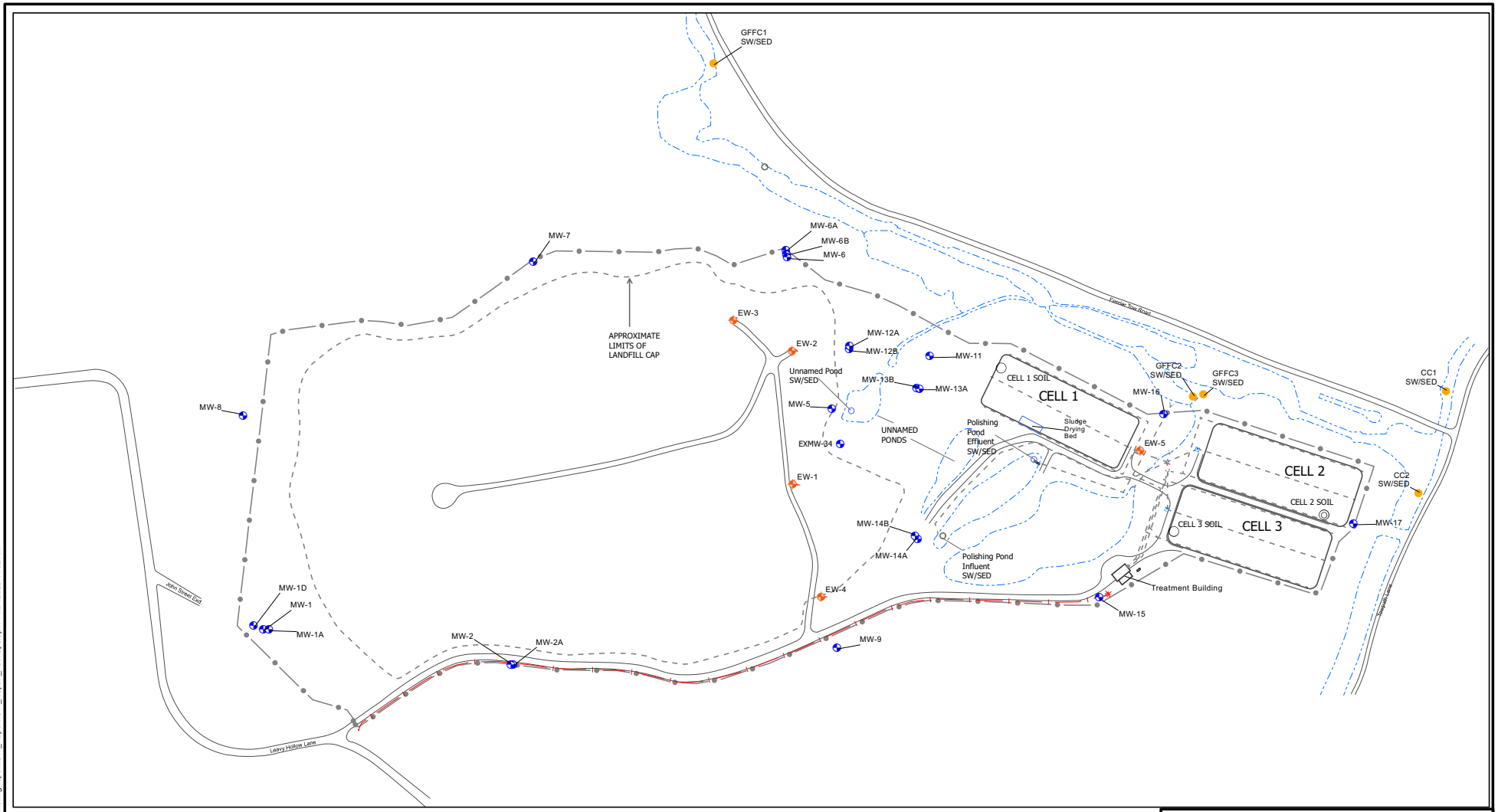
FORT EDWARD LANDFILL, HUDSON FALLS, NY
NYSDEC SITE 558001

GROUNDWATER MONITORING REPORT

GROUNDWATER ANALYTICAL RESULTS NOVEMBER 2023

ARCADIS

FIGURE
D3



0 500 1,000 1,500 2,000 Feet

GRAPHIC SCALE

N

Legend

- Monitoring Well
- Extraction Well
- Soil Sampling Location
- Surface Water/Sediment Sampling Location
- Road
- Water Edge
- Buried Electrical Line
- Fence
- Underground Treatment Piping

MAP BASED ON SURVEY PERFORMED BY DARRAH LAND SURVEYING, PLLC, 4/2017, 12/2019, AND 2/2021.

FORT EDWARD LANDFILL, HUDSON FALLS, NY
NYSDEC SITE 558001

GROUNDWATER MONITORING REPORT

SURFACE WATER AND SEDIMENT SAMPLING LOCATIONS

ARCADIS

FIGURE D4

City:Clifton Park Div/Group: ENV Created By: J. Kullberg Last Saved By: Giroux
Project Fort Edward Landfill
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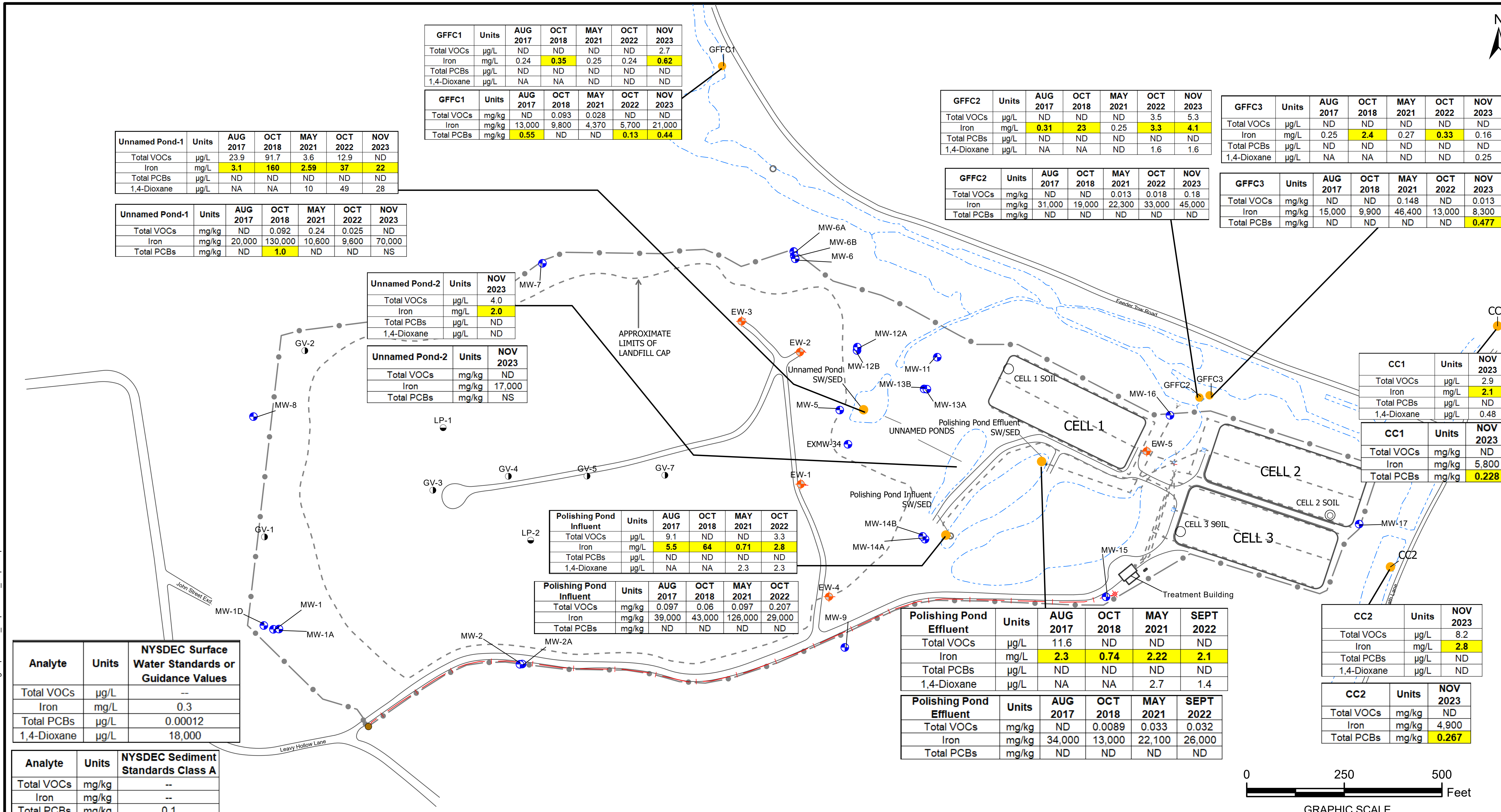


GFFC1	Units	AUG 2017	OCT 2018	MAY 2021	OCT 2022	NOV 2023
Total VOCs	µg/L	ND	ND	ND	ND	2.7
Iron	mg/L	0.24	0.35	0.25	0.24	0.62
Total PCBs	µg/L	ND	ND	ND	ND	ND
1,4-Dioxane	µg/L	NA	NA	ND	ND	ND

GFFC1	Units	AUG 2017	OCT 2018	MAY 2021	OCT 2022	NOV 2023
Total VOCs	mg/kg	ND	0.093	0.028	ND	ND
Iron	mg/kg	13,000	9,800	4,370	5,700	21,000
Total PCBs	mg/kg	0.55	ND	ND	0.13	0.44

Unnamed Pond-1	Units	AUG 2017	OCT 2018	MAY 2021	OCT 2022	NOV 2023
Total VOCs	µg/L	23.9	91.7	3.6	12.9	ND
Iron	mg/L	3.1	160	2.59	37	22
Total PCBs	µg/L	ND	ND	ND	ND	ND
1,4-Dioxane	µg/L	NA	NA	10	49	28

Unnamed Pond-1	Units	AUG 2017	OCT 2018	MAY 2021	OCT 2022	NOV 2023
Total VOCs	mg/kg	ND	0.092	0.24	0.025	ND
Iron	mg/kg	20,000	130,000	10,600	9,600	70,000
Total PCBs	mg/kg	ND	1.0	ND	ND	NS

Unnamed Pond-2	Units	NOV 2023
Total VOCs	µg/L	4.0
Iron	mg/L	2.0
Total PCBs	µg/L	ND
1,4-Dioxane	µg/L	ND

Unnamed Pond-2	Units	NOV 2023
Total VOCs	mg/kg	ND
Iron	mg/kg	17,000
Total PCBs	mg/kg	NS

GFFC2	Units	AUG 2017	OCT 2018	MAY 2021	OCT 2022	NOV 2023
Total VOCs	µg/L	ND	ND	ND	3.5	5.3
Iron	mg/L	0.31	23	0.25	3.3	4.1
Total PCBs	µg/L	ND	ND	ND	ND	ND
1,4-Dioxane	µg/L	NA	NA	ND	1.6	1.6

GFFC2	Units	AUG 2017	OCT 2018	MAY 2021	OCT 2022	NOV 2023
Total VOCs	mg/kg	ND	ND	0.013	0.018	0.18
Iron	mg/kg	31,000	19,000	22,300	33,000	45,000
Total PCBs	mg/kg	ND	ND	ND	ND	ND

GFFC3	Units	AUG 2017	OCT 2018	MAY 2021	OCT 2022	NOV 2023
Total VOCs	µg/L	ND	ND	ND	ND	ND
Iron	mg/L	0.25	2.4	0.27	0.33	0.16
Total PCBs	µg/L	ND	ND	ND	ND	ND
1,4-Dioxane	µg/L	NA	NA	ND	ND	0.25

GFFC3	Units	AUG 2017	OCT 2018	MAY 2021	OCT 2022	NOV 2023
Total VOCs	mg/kg	ND	ND	0.148	ND	0.013
Iron	mg/kg	15,000	9,900	46,400	13,000	8,300
Total PCBs	mg/kg	ND	ND	ND	ND	0.477

CC1	Units	NOV 2023
Total VOCs	µg/L	2.9
Iron	mg/L	2.1
Total PCBs	µg/L	ND
1,4-Dioxane	µg/L	0.48

CC1	Units	NOV 2023
Total VOCs	mg/kg	ND
Iron	mg/kg	5,800
Total PCBs	mg/kg	0.228

Polishing Pond Influent	Units	AUG 2017	OCT 2018	MAY 2021	OCT 2022
Total VOCs	µg/L	9.1	ND	ND	3.3
Iron	mg/L	5.5	64	0.71	2.8
Total PCBs	µg/L	ND	ND	ND	ND
1,4-Dioxane	µg/L	NA	NA	2.3	2.3

Polishing Pond Influent	Units	AUG 2017	OCT 2018	MAY 2021	OCT 2022
Total VOCs	mg/kg	0.097	0.06	0.097	0.207
Iron	mg/kg	39,000	43,000	126,000	29,000
Total PCBs	mg/kg	ND	ND	ND	ND

Polishing Pond Effluent	Units	AUG 2017	OCT 2018	MAY 2021	SEPT 2022
Total VOCs	µg/L	11.6	ND	ND	ND
Iron	mg/L	2.3	0.74	2.22	2.1
Total PCBs	µg/L	ND	ND	ND	ND
1,4-Dioxane	µg/L	NA	NA	2.7	1.4

Polishing Pond Effluent	Units	AUG 2017	OCT 2018	MAY 2021	SEPT 2022
Total VOCs	mg/kg	ND	0.0089	0.033	0.032
Iron	mg/kg	34,000	13,000	22,100	26,000
Total PCBs	mg/kg	ND	ND	ND	ND

CC2	Units	NOV 2023
Total VOCs	µg/L	8.2
Iron	mg/L	2.8
Total PCBs	µg/L	ND
1,4-Dioxane	µg/L	ND

CC2	Units	NOV 2023
Total VOCs	mg/kg	ND
Iron	mg/kg	4,900
Total PCBs	mg/kg	0.267

Analyte	Units	NYSDEC Surface Water Standards or Guidance Values
Total VOCs	µg/L	--
Iron	mg/L	0.3
Total PCBs	µg/L	0.00012
1,4-Dioxane	µg/L	18,000

Analyte	Units	NYSDEC Sediment Standards Class A
Total VOCs	mg/kg	--
Iron	mg/kg	--
Total PCBs	mg/kg	0.1

NOTES

1. HIGHLIGHTED VALUES EXCEED NYSDEC CLASS STANDARDS FOR AQUATIC LIFE, SEDIMENT, COMMERCIAL USE, OR GUIDANCE VALUES.
2. SEE ASSOCIATED TABLES FOR FURTHER DETAILS.

MAP BASED ON SURVEY PERFORMED BY DARRAH LAND SURVEYING, PLLC, 4/2017, 12/2019, AND 2/2021.

DEFINITIONS

µg/Kg - MICROGRAM PER KILOGRAM
µg/L - MICROGRAM PER LITER
mg/Kg - MILLIGRAM PER KILOGRAM
mg/L - MILLIGRAM PER LITER
ng/L - NANOGRAM PER LITER
NA - NOT ANALYZED
NS - NOT SAMPLED
ND - NOT DETECTED
PCBs - POLYCHLORINATED BIPHENYLS
PFAS - PERFLUORINATED ALKYL SUBSTANCES
VOCs - VOLATILE ORGANIC COMPOUNDS

LEGEND

MONITORING WELL
EXTRACTION WELL
SOIL SAMPLING LOCATION
SURFACE WATER/ SEDIMENT SAMPLING LOCATIONS
UTILITY POLE
PIEZOMETER
GAS VENT
ROAD
WATER EDGE
BURIED ELECTRICAL LINE
FENCE
UNDERGROUND TREATMENT PIPING

FORT EDWARD LANDFILL, HUDSON FALLS, NY
NYSDEC SITE 558001
GROUNDWATER MONITORING REPORT

SURFACE WATER AND SEDIMENT ANALYTICAL RESULTS NOVEMBER 2023

ARCADIS

FIGURE
D5

City: Clifton Park Div/Group: ENV Created By: J. Kullberg Last Saved By: LJohns
Project Fort Edward Landfill
\\arcadis-us.com\app\GIS\Processing_ENV\NYSDEC\FtEdward\GroundwaterMonitoringReport\GW_Report\GW_Report.aprx 7/16/2024 9:30 AM

Appendix E

IC/EC Certification Forms

Enclosure 1
Engineering Controls - Standby Consultant/Contractor Certification Form

Site Details **Box 1**

Site No. **558001**

Site Name **Fort Edward Landfill**

Site Address: Burgoyne Avenue Zip Code: 12828
City/Town: Fort Edward
County: Washington
Site Acreage: 23.0

Reporting Period: April 30, 2020 to April 30, 2023

**Note: In consultation with NYSDEC, the reporting period was extended to include data from January 1, 2018 to April, 1, 2024.*

		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?	☐	☒
	***Note: GreenSpark building permit and GreenSpark/LaBella SPDES. Work discussed in Section 3 of PRR, Landfill Cap Damage.*		

Box 2

		YES	NO
6.	Is the current site use consistent with the use(s) listed below?Closed Landfill	☒	☐
7.	Are all ICs/ECs in place and functioning as designed? ***	☐	☒
	****Note: The current ICs/ECs are in place and functioning as designed. However, the design is not suffcient to capture leachate from the northeast portion of the landfill.*		

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

9/5/24
Date

SITE NO. 558001 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
163-1-2	Town of Fort Edward	Soil Management Plan Monitoring Plan O&M Plan Site Management Plan

A decision on the remedy was made in 1988 (Seven Sites Agreement with GE).
Easement for access is in place.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
163-1-2	Groundwater Treatment System Cover System Leachate Collection Groundwater Containment Fencing/Access Control

Engineering Controls include:
-Leachate collection and treatment
-A cover system consisting of a geotextile and soil cover
-Partial Slurry Wall and groundwater collection trenches
-Fencing to control access

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification, 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 compete.

YES	NO
☒	☐

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

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

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

   (c) 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

9/5/24

Date

Box 6

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 Walter Jay (print name) at Arcadis of New York, Inc.

201 Fuller Road, Suite 201

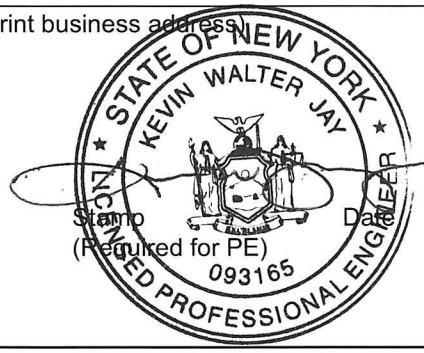
Albany, NY 12203

(print business address),

am certifying as a Professional Engineer.

Signature of Professional Engineer

Stamp (Required for PE)



Date 9-5-24

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