REVISED PRIODIC REVIEW REPORT (PRR)

Kendall Polken Nashua Tape Facility
2600 Seventh Avenue
Watervliet, New York

NYSDEC Site Identification No. 401062
Order on Consent Index
No. CO: 4-20001205-3375 (Amended on January 10, 2019)

May 9, 2025

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CERTIFICATION

"For each institutional or engineering control identified for the site (Former Norton/Nashua Tape Products Facility (NYSDEC Site Name: Kendall Polken Nashua Tape Facility), located at 2600 Seventh Avenue, Watervliet, New York), I certify that all of the following statements are true:

- The inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under my direction;
- The institutional control and/or engineering control employed at this site is unchanged from the date the control was put in place, or last approved by the Department;
- Nothing has occurred that would impair the ability of the control to protect the public health and environment;
- Nothing has occurred that would constitute a violation or failure to comply with any site management plan for this control;
- Access to the site will continue to be provided to the Department to evaluate the remedy, including access to evaluate the continued maintenance of this control;
- If a financial assurance mechanism is required under the oversight document for the site, the mechanism remains valid and sufficient for their intended purpose under the document;
- Use of the site is compliant with the Environmental Easement;
- The engineering control systems are performing as designed and are effective;
- 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 in this report is accurate and complete.

I certify that all information and statements in this certification form 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, Ravi Kumar Korlipara, of Korlipara Engineering (150 Broadhollow Road, Melville, NY), am certifying as Saint-Gobain's Designated Site Representative for the site."

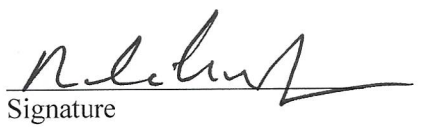
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NYS Professional Engineer #	Date	Signature

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May 2025

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2600 Seventh Avenue
Watervliet, New York

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LIST OF ACRONYMS

List of Abbreviations/Acronyms used in this document

AOC	Area of Concern
cis-1,2-DCE	cis-1,2-Dichloroethylene
CMO	Corrective Measures Objectives
COC	Compounds of Concern
1,1-DCE	1,1-Dichloroethylene
DOH	Department of Health
EB	Enhanced Bioremediation
EC	Engineering Controls
EFR	Enhanced Fluid Recovery
FER	Final Engineering Report
FES	Forensic Environmental Services, Inc.
HASP	Health and Safety Plan
IC	Institutional Control
ICM	Interim Corrective Measures
ISCO	In-Situ Chemical Oxidation
LEL	Lower Explosive Limit
LNAPL	Light Non-Aqueous Liquid
MDL	Minimum Detection Limit
MFR	Modified Fenton's Reagent
MNA	Monitored Natural Attenuation
mg/L	Milligrams per liter
ng/L	nanograms per liter
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
ORP	Oxidation Reduction Potential
PAH	Polycyclic Aromatic Hydrocarbon
PCE	Tetrachloroethene
PFAS	Perfluoroalkyl/polyfluoroalkyl substance
PID	Photoionization Detector
ppb	Parts per Billion
ppm	Parts per Million
PRR	Periodic Review Report
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
RAO	Remedial Action Objective
SGC	Saint-Gobain Corporation
SCO	Soil Cleanup Objectives
TCE	Trichloroethylene
TICs	Tentatively Identified Compounds
$\mu g/m^3$	Micrograms per cubic meter
µg/L	Micrograms per liter
µg/kg	Micrograms per kilogram
VOC	Volatile Organic Compound

EXECUTIVE SUMMARY

Saint-Gobain Corporation (SGC) entered into an Order on Consent with the New York State Department of Environmental Conservation (NYSDEC) in June 2002 (NYSDEC Order on Consent Index No. CO: 4-20001205-3375, as amended on January 10, 2019), to investigate and remediate the Former Norton/Nashua Tape Products Facility (NYSDEC Site Name: Kendall Polken Nashua Tape Facility) located at 2600 Seventh Avenue in the Town of Watervliet, Albany County, New York (NYSDEC Site Identification No. 401062; USEPA identification number of NYD0668299599). The site is zoned for industrial and commercial purposes and is currently used for: 1) the warehousing of various commercial materials; 2) vehicle maintenance and parking (Durham School Services); and 3) office space.

This *Revised Periodic Review Report* (*PRR*) is being submitted for ongoing project activities at the site in accordance with the August 2019 *Site Management Plan* (*SMP*) and August 2019 *Final Engineering Report* (*FER*), which were approved by the New York State Department of Environmental Conservation (NYSDEC) on November 5, 2019 and June 23, 2020, respectively. The *PRR* was originally submitted to the NYSDEC on January 22, 2025.

Based on a correspondence from the NYSDEC dated April 10, 2025, the following items have been incorporated into this *Revised PRR*: 1) the addition of the NYSDEC site name to the cover page; 2) Section 4.6 (Vapor Intrusion Monitoring) was revised to clarify that tetrachloroethane (PCE) was previously identified as a site-specific Compound of Concern (COC); 3) Figure 2-6 was revised to include an additional 100 microgram per liter (µg/L) isoconcentration line; and 4) labels were added to identify the X and Y axes on the Community Air Monitoring Plan (CAMP) plots (see Appendix C). In addition, due to an unknown error, the Institutional Controls Certification Form in the original PRR uploaded to the NYSDEC File Transfer Service was illegible. This form is presented in Appendix B. The purpose of this *PRR* is to summarize and evaluate the remedies implemented at the site in accordance with the May 25, 2017 *Statement of Basis* and the August 2019 *SMP*. A brief description of the remedial actions and associated sampling activities conducted at the site through November 30, 2024 is presented herein. Additional details on all remedial and associated sampling activities conducted at the site can be found in the *SMP* and the *FER*, as well as in the *Quarterly Progress Reports* previously submitted to the NYSDEC. Site Location, Generalized Area, and Site Layout maps are presented in Figures 1-1 through 1-3, respectively.

The principal COC in soil and groundwater beneath the site is toluene, which is associated with the Former Tank Farm and Former Solvent Line Areas of Concern (AOCs) (see Figure 1-3). Based on the investigation and Interim Corrective Measures (ICM) previously conducted at the site, the final corrective measures selected by the NYSDEC in the May 25, 2017 *Statement of Basis* include: 1) maintenance of a site cap; 2) In-Situ Chemical Oxidation (ISCO) in conjunction with Enhanced Fluid Recovery (EFR); and 3) enhanced bioremediation (EB) via nutrient supplementation. Ongoing remedial and associated groundwater and vapor monitoring activities at the site are being conducted in accordance with the approved *SMP* and *FER*.

ISCO injection activities at the site are being conducted on an annual basis with the most recent event conducted in June 2024. EFR activities are conducted twice per year with the most recent events performed on November 12 and 13 and December 9 and 10, 2024. Because ISCO activities have the capacity to desorb contaminants from the soil particles, EFR activities are

conducted subsequent to ISCO to maximize contaminant removal. EB (nutrient dosing) and field nitrate and phosphate monitoring activities were performed in January, March, June, November, and December 2024. MNA sampling is also being conducted to monitor groundwater conditions at downgradient on-site and off-site sampling locations. Groundwater sampling activities conducted at the site in 2024 included: February 2024 (post-EFR, pre-ISCO, and semi-annual event); August 2024 (first post-ISCO event); and October 2024 (second post-ISCO and expanded annual sampling event).

Sampling activities conducted at the site to date have demonstrated that the dissolved-phase toluene plume has decreased in overall aerial extent and magnitude in response to site remedial activities. Institutional Controls (ICs) and Engineering Controls (ECs) specified in the Environmental Easement and SMP (approved by the NYSDEC on November 5, 2019) are functioning as designed and are protective of human health and the environment. Remedial activities, continued groundwater monitoring, and reporting activities planned for 2025 will be conducted in accordance with the NYSDEC-approved *SMP*.

SECTION 1.0
SITE OVERVIEW

1.1 Site Location

The site is located in the County of Albany, New York at 2600 Seventh Avenue and is identified as Section 32.8 Block 3 and Lot 1.1 on the Town of Colonie Tax Map #32.07. The site is situated on an approximately 22-acre area and is bounded by the Delaware and Hudson Railroad to the north, residential properties to the east and south, and other commercial/industrial facilities to the west. The boundaries of the site are more fully described in the Metes and Bounds site description presented in the August 2019 *SMP* (see Appendix A - Environmental Easement). Site Location, Generalized Area, and Site Layout maps are presented in Figures 1-1 through 1-3, respectively.

1.2 Nature and Extent of Contamination (Prior to Final Corrective Measures)

Based on the site investigation and remedial activities conducted by FES to date, the May 2017 NYSDEC *Statement of Basis* included the following COCs for the site: toluene, heptane, polycyclic aromatic hydrocarbons (PAH's), and tetrachloroethene (PCE). Additional details on historical sampling activities were presented in the 2019 *SMP* and *FER*.

Soil

During site investigation and remedial activities conducted by FES from 2003 through 2012 (i.e., prior to Final Corrective Measures), over 200 soil borings were installed with over 200 soil samples collected and submitted for laboratory analysis. Based on field screening and analytical results obtained from these soil investigations, the principal COC at the site was identified as toluene. Toluene impact at the site is greatest from the "capillary zone" just above the water table (approximate depth eight to ten feet) to four to five feet below the water table (total depth approximately 15 feet). Evidence of shallow soil impact (i.e., soils above the water table and photoionization detector (PID) readings greater than 100 parts per million [ppm]) was limited to selected borings: 1) south and east of the former tank farm; 2) immediately adjacent to, and east of, the former Solvent Lines; 3) near storm sewer lines east of the North Cut-Out in Building #61; and 4) west and north of the former East Cut-Out in Building #58. In comparison, deeper soil impact (i.e., soils below the water table and PID readings greater than 100 ppm) was found in borings: 1) throughout the former tank farm area; 2) west and east of the former Solvent Lines; 3) across the northern half of Building #58; and 4) in the northwest corner of Building #59. Site maps depicting PID readings and laboratory analytical results are presented in Figures 2-1 and 2-2.

Tables 2-1 and 2-2 and Figure 2-2 summarize the results of all on-site soil samples that exceed the Commercial Use Soil Cleanup Objectives (SCO)s at the site prior to implementing the Final Corrective Measures. Toluene was the only VOC to exceed the SCO in on-site soil samples (see Table 2-1 and Figure 2-2). Specifically, toluene exceeds the NYSDEC Restricted Use Commercial SCO in a total of seven soil samples at concentrations ranging from 740,000 micrograms per kilogram (µg/kg) (SB-102, 9 to 10 feet) to 14,000,000 µg/kg (MP-27, 11 to 12 feet). Although the toluene concentration in soil sample SB-102, 9 to 10 feet (740,000 µg/kg) exceeded the applicable SCO, this was a saturated soil sample collected below the water table and

not indicative of vadose zone conditions (Note: the toluene concentration from the vadose zone in soil sample SB-102, 4 to 5 feet was 4 J µg/kg). Furthermore, groundwater sampling results from 2004 to 2024 indicate that the dissolved-phase toluene plume has contracted significantly as a result of active remedial activities (soil excavation, ISCO, EFR, and enhanced bioremediation), as well as natural attenuation processes. Consequently, the area adjacent to soil boring SB-102 was not included in the Environmental Easement area (see Figure 2-2). Based upon site groundwater quality data, the Environmental Easement, which includes a 50-foot buffer around the lateral extent of the toluene plume (see Figure 3-1), is sufficient to prevent future exposure to remaining on-site soil and groundwater contamination.

The most heavily impacted soils proximal to the former tank farm were excavated and removed from the site in 2011; however, additional soil excavation was not possible due to the presence of the existing warehouse buildings, as well as the subsurface water and storm sewer utility lines immediately north of Building #61. Pursuant to the SMP, ISCO, EFR, and EB remedial activities were conducted in these areas in 2024.

In order to evaluate current soil conditions within the designated ISCO treatment area proximal to the northern wall of Building #61, a total of five soil borings (2024-SB-1 through 2024-SB-5) were installed on May 28 and 29, 2024 in conjunction with the pre-ISCO clearance borings. These borings were primarily installed for visual observations and PID screening; however, one soil sample was collected for lab analysis from boring 2024-SB-5, located proximal to monitoring well MP-27.

The five soil borings were distributed across the designated ISCO treatment area and included: 1) 2024-SB-1, located between the storm sewer line and the southern boundary of the 2011 soil excavation; 2) 2024-SB-2, located north of building #61/northwest of monitoring well MP-29; 3) 2024-SB-3, located between the former solvent lines and monitoring well MP-26; 4) 2024-SB-4, located proximal to monitoring well MP-28; and 5) 2024-SB-5, located proximal to monitoring well MP-26 (see Figure 1-7).

In general, the upper 10 to 15 feet of each boring did not exhibit elevated PID readings and borings 2024-SB-2 and 2024-SB-4, the two easternmost borings, did not exhibit PID readings above 40 parts per million (ppm). Elevated PID readings were present in: 1) 2024-SB-1 from 11 to 15 feet at concentrations ranging from 108.1 ppm to 1,500 ppm; 2) 2024-SB-3 at 16 feet at a concentration that exceeded the maximum value of the PID (>15,000 ppm); 3) 2024-SB-5 from 14 to 16 feet at concentrations ranging from 301.1 ppm to 1,016 ppm.

With respect to the soil sample collected from soil boring 2024-SB-5 (14.5 – 15 feet), only two VOCs were detected (acetone and toluene) at concentrations of 750 micrograms per kilogram (µg/kg) and 3,800 µg/kg, respectively, both of which are below their respective NYSDEC Restricted Use (Commercial) Soil Cleanup Objectives (SCOs), but above the Protection of Groundwater Criteria SCOs. Additional details on the May 2024 soil boring installation and associated sampling activities were presented in the *Quarterly Progress Report on Project Activities - April 1 through June 30, 2024* (FES, August 19, 2024).

Groundwater

The current monitoring well array consists of 45 on-site and 11 off-site overburden groundwater monitoring wells/small diameter monitoring points (see Figures 1-3, 2-3, and 2-4). Based on historical sampling activities, three areas of the site have exhibited elevated toluene concentrations. These include: 1) Building #58 proximal to monitoring well MP-37; 2) along the north wall of Building #61 (proximal to monitoring wells MP-24 through MP-27); and 3) proximal to monitoring well MW-27 (i.e., northeast corner of the 2011 soil excavation area) (Note: the toluene concentrations in MW-27 have decreased significantly from a historical maximum of 260,000 µg/L in July 2011 to 0.65 J micrograms per liter [µg/L] in October 2024, Table 4-4), i.e., to well below its NYSDEC groundwater standard of 5 µg/L.

Light Non-Aqueous Phase Liquid (LNAPL) was previously detected in certain monitoring wells in the northern portion of the site proximal to the former tank farm area (MW-14, MW-28, and MP-25 through MP-27) at apparent product thicknesses (APT) ranging from 0.02 feet to 0.55 feet, as well as in MP-37 in October 2014 (APT of 0.16 feet to 0.20 feet) (see Table 1-1). In addition, transient detections of LNAPL were also identified in monitoring wells MP-25, MP-26, MP-27, and/or MW-28 during ISCO activities in 2017 and 2018. A transient detection of LNAPL was observed during the May 2018 ISCO event in monitoring well MW-28 at an estimated thickness of 0.10 to 0.20 feet. LNAPL gauging data are presented in Table 1-1. Groundwater elevation data are presented in Table 1-2. It should also be noted that no LNAPL was observed in any of the soil borings (Geoprobe macrocore samples) installed in May 2024.

The maximum toluene concentrations in groundwater are present along the interior and exterior portions of the northern wall of Building #61 with a maximum concentration of 350,000 µg/L observed in monitoring well MW-28 in April 2019. Figures 2-5 and 2-6 depict the historical maximum (2004) and current (October 2024) toluene distributions in groundwater, respectively. Based on current groundwater sampling data, the spatial distribution of the toluene plume, above the NYSDEC standard of 5 µg/L, remains defined and ongoing monitoring is being conducted in accordance with the approved SMP.

1.3 Remedial History

Comprehensive summaries of all remedial activities conducted at the site through 2018 were presented in the 2019 *SMP* and *FER*. Figures depicting the EB areas, EFR locations, and the most recent (2024) ISCO and EB/EFR areas are presented in Figures 1-4 through 1-8. A brief (chronological) summary of the remedial activities conducted at the site is presented below.

June 2009	Standing water and visible sediment were removed from all accessible on-site storm sewer manholes via vacuum truck. ISCO injection activities were conducted between the northern wall of Building #61 and the former tank farm area. Approximately 8,000 gallons of ISCO reagents (catalyst [1,600 gallons], sodium persulfate [3,200 gallons], and hydrogen peroxide [3,200 gallons]) were injected into the subsurface. EFR activities were also conducted at monitoring well MP-11.

2009 and 2010	Pilot testing of EB via oxygen, ozone, and peroxide delivery was conducted.
March 2011	Soil excavation (source removal) activities were conducted in the Former Tank Farm Area. A total of 1,413 tons of soil was removed from the site for disposal/treatment. Due to the presence of toluene in post-excavation soil sample SW-N-3 at a concentration above the NYSDEC Restricted Use (Commercial) SCO, ISCO treatment measures were initiated. A mixture of activated sodium persulfate and modified Fenton's reagent (MFR; stabilized hydrogen peroxide and chelated iron catalyst) was introduced directly into the open excavation to chemically oxidize toluene in the soil and groundwater immediately beneath, and in the general vicinity of the excavation. Specifically, a total of 4,700 gallons of activated sodium persulfate, 4,700 gallons of stabilized hydrogen peroxide, and 4,700 gallons of chelated iron catalyst were pumped directly into the open excavation from March 8 - 10, 2011.
November 2012	ISCO injection activities were conducted between the northern wall of Building #61 and the former tank farm area and proximal to monitoring well MW-27. Approximately 8,800 gallons of ISCO reagents (catalyst [1,600 gallons], sodium persulfate [3,200 gallons], and hydrogen peroxide [3,200 gallons]) were injected into the subsurface.
February 2016	ISCO pilot testing activities were conducted proximal to monitoring wells MP-37 and MW-27. Approximately 8,800 gallons of ISCO reagents (catalyst [1,540 gallons], sodium persulfate [4,400 gallons], and hydrogen peroxide [2,860 gallons]) were injected into the subsurface during each event.
May 2017	ISCO injection activities were conducted in three areas of the site including: Building #58 proximal to monitoring well MP-37, as well as at interior and exterior locations proximal to the northern wall of Building #61. A total of 17,780 gallons of ISCO reagents (catalyst [3,220 gallons], sodium persulfate [8,820 gallons], and hydrogen peroxide [5,740 gallons]) were injected into the subsurface.
May 2018	ISCO injection activities were conducted in three areas of the site including: Building #58 proximal to monitoring well MP-37, as well as at interior and exterior locations proximal to the northern wall of Building #61. A total of 23,220 gallons of ISCO reagents (catalyst [4,080 gallons], sodium persulfate [11,600 gallons], and

hydrogen peroxide [7,540 gallons]) were injected into the subsurface.

Final Corrective Measures

June 2019	ISCO injection activities were conducted in three areas of the site including: Building #58 proximal to monitoring well MP-37, as well as at interior and exterior locations proximal to the northern wall of Building #61. A total of 23,245 gallons of ISCO reagents (catalyst [4,075 gallons], sodium persulfate [11,600 gallons], and hydrogen peroxide [7,570 gallons]) were injected into the subsurface.
May/June 2020	ISCO injection activities were conducted in two areas of the site including: Building #58 proximal to monitoring well MP-37 and interior and exterior locations proximal to the northern wall of Building #61 (Note: because toluene concentrations decreased to 11 µg/L, ISCO was not conducted in the vicinity of MW-27). A total of 23,245 gallons of ISCO reagents (catalyst [3,220 gallons], sodium persulfate [9,200 gallons], and hydrogen peroxide [5,980 gallons]) were injected into the subsurface.
June 2021	ISCO injection activities were conducted in two areas of the site including: Building #58 proximal to monitoring well MP-37 and interior and exterior locations proximal to the northern wall of Building #61. A total of 20,000 gallons of ISCO reagents (catalyst [3,500 gallons], sodium persulfate [10,000 gallons], and hydrogen peroxide [6,500 gallons]) were injected into the subsurface.
November 2021	The northern portion of the Environmental Easement area (north of Building #61 to the northern property line was milled (excluding the portion of the 2011 excavation area) and repaved. The newly-paved area measures approximately 55 feet by 275 feet and was repaved with 3 inches of binder and 2 inches of commercial-grade asphalt.
June 2022	ISCO injection activities were conducted in two areas of the site including: Building #58 proximal to monitoring well MP-37 and interior and exterior locations proximal to the northern wall of Building #61 (Note: the northern injection area was expanded to the east to encompass monitoring well MP-29, which exhibited toluene concentrations above 10,000 µg/L). A total of 22,400 gallons of ISCO reagents (catalyst [3,920 gallons], sodium persulfate [11,200 gallons], and hydrogen peroxide [7,280 gallons]) were injected into the subsurface.

June 2023	ISCO injection activities were conducted in interior and exterior locations along the northern wall of Building #61. A total of 20,800 gallons of ISCO reagents (catalyst [3,640 gallons], sodium persulfate [10,400 gallons], and hydrogen peroxide [6,760 gallons]) were injected into the subsurface.
June 2024	ISCO injection activities were conducted in interior and exterior locations along the northern wall of Building #61. A total of 20,930 gallons of ISCO reagents (catalyst [3,680 gallons], sodium persulfate [10,350 gallons], and hydrogen peroxide [6,900 gallons]) were injected into the subsurface.
2011 – 2024	EFR activities conducted at various locations across the northern half of the site. A total of EFR 43 events were conducted from an array of 19 monitoring wells with approximately 69,434 gallons of groundwater removed for off-site disposal.
2013 – 2024	EB (well dosing with nitrate and/or phosphate) activities conducted (generally concurrent with EFR activities to enhance the dispersion and distribution of added nutrients).

1.4 Remedial Goals and Closure Criteria

As outlined in the May 2017 *Statement of Basis* and the August 2019 *SMP*, the site is currently zoned for commercial and industrial purposes. Specific Remedial Action Objectives/Standards at the site include: 1) Protection of Public Health Restricted Use Commercial SCOs (6 NYCRR Part 375) for on-site soil; 2) Unrestricted Use SCOs (6 NYCRR Part 375) for soil in the off-site residential areas (i.e., Alden and Craig Streets); 3) NYCRR 703 Ambient Water Quality Standards for on-site and off-site groundwater; and 4) NYSDOH Guidance for Evaluating Soil Vapor Intrusion (October 2006 including the February 2024 updates to the Soil Vapor/Indoor Air Decision Matrices); 5) NYSDEC Technical Guidance for Screening Contaminated Sediments, 1999 for on-site storm and sanitary sewer sediments; and 6) NYSDEC Class C surface water (6 NYCRR Part 703) for on-site storm and sanitary sewer water.

The Corrective Measures Objectives (CMOs)/Remedial Action Objectives (RAOs) for the Site are listed in the May 2017 Final *Statement of Basis* as follows.

<u>Groundwater</u>

CMOs/RAOs for Public Health Protection

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

CMOs/RAOs for Environmental Protection

- Restore the groundwater aquifer to pre-disposal/pre-release conditions, to the extent practicable.

- Remove the source of groundwater or surface water contamination.

Soil

CMOs/RAOs for Public Health Protection

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

CMOs/RAOs for Environmental Protection

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

Soil Vapor

CMOs/RAOs for Public Health Protection

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

1.5 Significant Changes

Ongoing remedial and associated sampling activities at the site are being conducted in accordance with the remedies selected by the NYSDEC in the May 25, 2017 *Statement of Basis* and the procedures outlined in the August 2019 *SMP*. No significant changes were identified with respect to the remedial and/or sampling activities conducted at the site from December 2023 to October 2024.

SECTION 2.0
REMEDY EVALUATION

An evaluation of current and historical groundwater quality data indicates that the dissolved-phase toluene plume has decreased in both aerial extent and magnitude over time as a result of soil excavation, EFR, ISCO, and EB activities, as well as intrinsic/enhanced biological degradation.

While toluene concentrations have been variable in selected monitoring wells in response to remedial activities, and seasonal variations in water table elevations, concentrations are significantly reduced in all locations in comparison to historical maximums. Figures 2-5 and 2-6 depict the historical maximum (2004) and current (October 2024) toluene distributions in groundwater, respectively. Plots of toluene concentrations in selected wells over time are presented in Figures 2-7 through 2-16.

A total of 25 EFR events, multiple rounds of ISCO, EB, as well as soil excavation have been conducted proximal to monitoring well MW-27 in the northern portion of the site (see Figures 1-4 through 1-7). Although variable at times and with additional influence associated with ISCO, EFR, and EB activities, toluene concentrations in MW-27 exhibit an overall decreasing trend with a historic low of 0.65 µg/L observed during the most recent event in October 2024 (see Figure 2-8, Table 4-4). Furthermore, during the previous eight sampling events at MW-27 from April 2022 to August 2024, toluene only exceeded the applicable groundwater standard (5 µg/L) during the August 2022 event (6.2 µg/L). Groundwater monitoring and EB activities will continue to be conducted in the vicinity of MW-27 in accordance with the *SMP*.

Toluene concentrations in monitoring wells located along the northern wall of Building #61 (MW-28, MP-24 through MP-27, and MP-29) exhibit a higher degree of variability and have persisted above 10,000 µg/L in several locations (see Figures 2-9 through 2-13). However, monitoring wells MW-28 and MP-24 through MP-27 have exhibited generally decreasing trends since mid- to late-2017 in response to ISCO, EFR, and EB activities. Conversely, toluene concentrations in monitoring well MP-29 exhibited an increasing trend from September 2018 to April 2022 (see Figure 2-14), but decreased from April 2022 to October 2024. The elevated toluene concentrations in MP-29 are likely a function of desorption of LNAPL from the soil column following ISCO injection activities. In response to the observed increase in toluene concentrations in MP-29, the ISCO injection area was expanded to encompass this well during ISCO events from 2021 to 2024 and EFR was conducted from October 2019 to October 2024.

While toluene concentrations in monitoring wells MP-25 and MP-26 remain elevated with concentrations of 58,000 µg/L and 43,000 µg/L, respectively, observed during the October 2024 sampling event, concentrations in wells MW-28 and MP-24 through MP-29 (with the exception of MP-25 and MP-26) have decreased significantly compared to historical maximums, including to a non-detect level in MP-24 (Table 4-4).

Due to the observed toluene concentrations in monitoring well MP-39, which is located in the Durham Bus area, in November 2017 (29,000 µg/L), October 2020 (15,000 µg/L), and October 2024 (12,000 µg/L), EFR events were conducted on this well in February 2018, December 2020,

December 2022, and November and December 2024 (see Figure 2-15). Toluene concentrations in MP-39 have been variable over time (see Figure 2-15). The toluene concentration in MP-39 decreased to 4,700 µg/L in April 2021, to 0.67 J in October 2021, and was not detected during the November 2023 sampling event (see Table 4-4). Elevated toluene concentrations were observed during the three sampling events conducted at MP-39 in 2022: April (16,000 µg/L); July (17,000 µg/L); and September (37,000 µg/L). Based on these data, EFR events were conducted at MP-39 in December 2022 and February 2023. Subsequent to these additional EFR events, the toluene concentrations in MP-39 decreased to 7,200 µg/L in May 2023 and 2,100 µg/L in August 2023 and toluene was not detected during the November 2023 sampling event (see Figure 2-15, Table 4-4). The toluene concentration in MP-39 rebounded to 12,000 in October 2024. However, monitoring well MP-40, which is located approximately 50 feet east (downgradient) of MP-39 was sampled on seven (7) occasions from July 2012 to October 2024 and no VOCs were ever detected during any of these events, thus confirming the stability of the toluene plume from migrating any further downgradient of an approximate location east of MP-39 and west of MP-40 (see Table 4-4, Figure 2-6).

Wells MP-39 and MP-40 will continue to be monitored on a semi-annual basis. In the event toluene concentrations in MP-39 persist above 10,000 µg/L, additional EFR events will be conducted in accordance with the *SMP*. Monitoring well MP-40 will also be sampled on an annual basis to monitor downgradient conditions in this area.

With respect to monitoring well MP-37, which is located in the northern portion of Building #58 and immediately west, and at the termination point, of the former solvent lines (see Figure 1-7), multiple rounds of ISCO, a total of 37 EFR events, as well as EB activities have been conducted in its vicinity from December 2011 to November 2024 (see Figure 2-16). In response to these remedial activities, toluene concentrations in MP-37 decreased from a historical maximum of 190,000 µg/L (October 2011) to a historical low of 870 µg/L in August 2024. The toluene concentration in MP-37 increased slightly in October 2024 to 3,600 µg/L; however, toluene concentrations exhibit an overall decreasing trend since June 2017 (see Figure 2-16). EB activities will continue to be conducted at MP-37 (i.e., field nitrate/phosphate monitoring and nutrient dosing of adjacent monitoring well MW-37R). In addition, EFR will be conducted at MP-37 in the event toluene concentrations increase above 10,000 µg/L.

Groundwater sampling and performance monitoring are currently being implemented to monitor groundwater quality on and off-site. Based on the groundwater sampling data, the spatial distribution of the toluene plume (with concentrations above the NYSDEC standard 5 µg/L), remains defined and decreasing in magnitude. Also, an Environmental Easement encompassing a 50-foot buffer zone around the lateral extent of the toluene plume has been established in the northern and central portions of the site (Figure 1-3), to provide sufficient margin of safety to prevent future exposure to remaining on-site soil and groundwater contamination.

SECTION 3.0
INSTITUTIONAL/ENGINEERING CONTROL COMPLIANCE REPORT

In recognition of the fact that residual soil and groundwater contamination remain at the site, Institutional Controls (ICs) and Engineering Controls (ECs) are required to protect human health and the environment. The March 2019 Environmental Easement and the August 2019 *SMP* outlined the procedures for the implementation and management of all IC/ECs at the site.

3.1 Institutional Controls

In accordance with the August 2019 SMP, the ICs for the site are as follows:

- Allows the use and development of the controlled property for commercial and industrial uses as defined by Part 375-1.8(g), although land use is subject to local zoning laws;

- Requires the remedial party to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);

- Restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH; and

- Requires compliance with the Department approved Site Management Plan.

The fully-executed Environmental Easement was recorded with Albany County on March 14, 2019 and a complete set of documents were included as Attachment A of the 2019 *SMP*.

3.2 Engineering Controls

Contact with residual contamination at the site is prevented by a cover system placed over the former tank farm area. In addition, the existing concrete slabs and building foundations serve as a cap regarding interior portions of Building #58, #59, and #61 within the Environmental Easement area (see Figure 3-1). The condition and integrity of the cover system is inspected on an annual basis in accordance with the approved *SMP*. Additional site/cap inspections are conducted during routine site visits for groundwater sampling and/or scheduled remedial activities (ISCO, EFR, EB, etc.).

3.3 Annual Site Inspection

Cap/site inspections to evaluate the condition of the engineering controls (i.e., asphalt and concrete caps) within the designated Environmental Easement (see Figure 3-1) were conducted on March 15 and October 23, 2024. Cap System Inspection Forms including photographic logs are presented in Appendix A. A NYSDEC *Institutional and Engineering Controls Certification Form* is presented in Appendix B.

Overall, site conditions remained unchanged since the previous reporting year's site inspection conducted on December 6, 2023. It should be noted that a portion of the fence along the northern property boundary was removed by the property owner in 2021 to make room for additional school bus parking and vehicular access to the northern portion of the site. However, the removal this portion of the fencing does not affect the cover system. Furthermore, access to Building #61 is restricted to authorized personnel and security cameras are also present along the exterior of the northern exterior wall of Building #61.

The concrete floor inside the active warehouse area in Buildings #58, #59, and #61 (i.e., within the Environmental Easement) was observed to be in good to excellent condition. Some minor (hairline) cracks were noted in the concrete slab in certain areas; however, no significant cracks or breaches in the concrete cap were identified. The recently repaved parking area north of Building #61, as well as the monitoring well vaults (road boxes) for wells MW-25 through MW-28 and MP-23 through MP-25 that were replaced on December 13, 2021, were also in excellent condition.

Based on the March and October 2024 Cap Inspections, the Engineering Controls at the site are functioning as designed and are protective of human health and the environment.

3.4 Conclusions and Recommendations

A site walkover and Annual Cap Inspection will be conducted in 2025 to ensure that the asphalt/concrete caps are functioning as designed. The integrity of the capped areas will also be checked during routine site visits for groundwater sampling, EB activities, etc.

Procedures for the inspection of the cover system (see Figure 3-1) are provided in the Monitoring and Sampling Plan included in Section 4.0 of the *SMP* and include: 1) minimum annual site-wide inspections; and 2) site-wide inspections subsequent to severe weather events that may affect the ECs or monitoring wells.

Any future site redevelopment activities will maintain the existing site cover including paved surface parking areas, building slabs and foundation elements, or soil where the upper one foot of exposed surface soil meets the applicable SCOs for commercial use. The site cover will be maintained in a manner that ensures its intended function to prevent exposure to impacted soils. Examples of cover maintenance include: sealing of cracks and patching of potholes.

SECTION 4.0
MONITORING PLAN COMPLIANCE REPORT

4.1 Monitoring Plan Components

The monitoring plan presented in Section 4.0 of the August 2019 *SMP* describes the approved remedial activities for the site (ISCO, EFR, enhanced bioremediation, MNA, and ICs/ECs), as well as the measures for evaluating the overall performance and effectiveness of the site remedies and includes: 1) post-remediation monitoring and sampling; 2) semi-annual groundwater sampling (including an expanded annual event); 3) sub-slab and indoor air monitoring in conjunction with ISCO activities; and 4) site-wide inspections of the ECs. Post-remediation sampling requirements are presented in Table 4-1. Detailed sample collection and analytical procedures and protocols are provided in Appendix G (Quality Assurance Project Plan) of the *SMP*.

4.2 In-Situ Chemical Oxidation (ISCO) Activities (June 4 - 13, 2024)

ISCO injection/treatment activities were conducted by ISOTEC of West Windsor, New Jersey from June 4 to 13, 2024 in interior and exterior areas along the north wall of Building #61 (proximal to monitoring wells MP-24 through MP-27). A total of 20,930 gallons of ISCO reagents were injected into the subsurface during the 8-day injection event at depths ranging from 7 to 15 feet including: 1) 3,680 gallons of catalyst/stabilizer; 6,900 gallons of hydrogen peroxide; and 10,350 gallons of sodium persulfate into 23 borings in the vicinity of target wells (see Table 4-2). ISCO injection locations are presented in Figure 1-7. Additional details on the June 2024 ISCO activities were presented in the *Quarterly Progress Report on Project Activities - April 1 through September 30, 2023* (FES, August 19, 2024).

Field monitoring was conducted throughout ISCO injection activities to: 1) evaluate the progress of the injection; 2) document the approximate radius of influence around each injection point; and 3) conduct air monitoring in accordance with the site-specific Health and Safety Plan (HASP). Field monitoring parameters included: 1) depth-to-water; 2) monitoring well headspace PID, lower explosive limit (LEL), oxygen, and carbon dioxide; 3) groundwater quality parameters (temperature, conductivity, pH, oxidation reduction potential [ORP]; 4) injected reagents (iron, hydrogen peroxide, and persulfate; and 5) worker breathing zone PID monitoring.

Evidence of radial influence surrounding ISCO injection points including elevated specific conductivity, ORP, and pH levels, as well as the presence of injected reagents (iron, hydrogen peroxide, and persulfate) in groundwater were detected in monitoring wells within and adjacent to the injection areas. Radial influence from the injection points was observed in all monitoring wells within the injection area, as well as perimeter monitoring wells including: MP-23, MP-30, MP-31, and to a lesser extent MW-24 (ORP only). LNAPL was not observed in any monitoring well throughout injection activities.

4.3 Enhanced Fluid Recovery (EFR) Activities (December 2023 – December 2024)

The most recent EFR events conducted at the site subsequent to the submittal of the 2023 *PRR* on December 11, 2023 were conducted on November 12 and 13 and December 9 and 10, 2024. EFR during the above-referenced events was conducted on monitoring wells that exhibited

dissolved toluene concentrations above 10,000 µg/L during the most recent sampling event prior to the EFR (see Table 4-4) and included monitoring wells MP-25, MP-26, MP-27, MP-29, MP-37, MP-39, and MW-28. A brief description of the EFR activities is presented below. Additional details on the December 2023 and January 2024 EFR events were presented in the *Quarterly Progress Reports* dated January 29 and April 10, 2024. The November and December 2024 EFR events will be summarized in the *Fourth Quarter 2024 Quarterly Progress Report*, which is scheduled for submittal in January 2025.

The December 2023 EFR event was conducted on December 5 and 6, 2023 and included monitoring wells MP-25, MP-26, MP-27, MP-29, MP-37, and MW-28 (see Figure 1-8). Because toluene was not detected in monitoring wells MW-27 or MP-39 during the November 2023 sampling event (see Table 4-4 and Figure 1-8), EFR was not conducted at these locations. A total of approximately 1,831 gallons of groundwater, which also included 107 gallons from two on-site purge water drums was recovered during the December 2023 EFR event.

The January 2024 EFR event was conducted on January 25 and 26, 2024 and included monitoring wells MW-28, MP-25, MP-26, MP-27, MP-29, and MP-37 (see Figure 1-8). A total of approximately 1,693 gallons of groundwater was recovered during the January 2024 EFR event.

The November 2024 EFR event was conducted on November 12 and 13, 2024 and included monitoring wells MP-25, MP-26, MP-27, MP-29, and MP-39 (see Figure 1-8). A total of approximately 848 gallons of groundwater was recovered during the November 2024 EFR event plus an additional 130 gallons of purge water from groundwater sampling events was removed from three on-site 55-gallon drums for a total of 978 gallons.

The December 2024 EFR event was conducted on December 9 and 10, 2024 and included monitoring wells MW-28, MP-25, MP-26, MP-27, MP-29, and MP-39 (see Figure 1-8). A total of approximately 1,660 gallons of groundwater was recovered during the December 2024 EFR event.

4.4 Enhanced Bioremediation (EB) Activities (December 2023 – November 2024)

Since the submittal of the 2023 *PRR* on December 11, 2023, field nitrate/phosphate monitoring and/or nutrient dosing activities were conducted during the December 2023 and January and November 2024 EFR events, as well as supplemental dosing events in March and June 2024. Following ISCO injection activities in June 2024 (see Figure 1-7), groundwater bio-supplementation activities were delayed within the treatment areas (proximal to the north wall of Building #61 and the MP-37 area) in order to allow for the injected reagents to be consumed. Nutrient dosing wells include: MP-23, MP-24, MW-20, MW-26, and MW-37R; EFR wells include: MP-25, MP-26, MP-27, MP-29, MP-37, and MP-39; and MW-28. (Note: due to toluene concentrations decreasing below 10,000 µg/L in MP-37 in February 2024, EFR was not conducted at this location in November 2024). EFR and locations of bio-supplementation wells are illustrated in Figure 1-8 and well dosing activities are summarized in Table 4-3.

Prior to EFR activities in December 2023, nitrate was detected in dosing wells as follows: MP-23 (8.0 mg/L); MP-24 (1.0 mg/L), MW-20 (4.0 mg/L), MW-26 (2.0 mg/L), and MW-37R (6.0 mg/L) (see Table 4-3). Phosphate was detected in all five dosing wells (pre-EFR) at concentrations ranging from 15.0 mg/L (MW-20) to 25.0 mg/L (MP-23 and MP-24, see Table 4-3). Based on this data, phosphate dosing was not conducted at any well (all phosphate concentrations >0.5 mg/L).

Nitrate dosing (approximately 100 - 200 grams of potassium nitrate dissolved in two gallons of potable-grade water) was conducted at MP-24. Additional post-EFR nitrate dosing was conducted on wells MP-23, MW-20, and MW-37R. All post-EFR phosphate levels in (EFR area) dosing wells (MP-23, MP-24, MW-20, MW-26, and/or MW-37R) were above the dosing thresholds; therefore, no additional dosing was conducted.

Prior to EFR activities in January 2024, nitrate was detected in dosing wells as follows: MP-23 (15.0 mg/L); MP-24 (15.0 mg/L), MW-20 (8.0 mg/L), MW-26 (1.0 mg/L), and MW-37R (4.0 mg/L) (see Table 4-3). Phosphate was detected in all five dosing wells (pre-EFR) at concentrations ranging from 15.0 mg/L (MW-26 and MP-24) to 40.0 mg/L (MP-37R, see Table 4-3). Based on this data, phosphate dosing was not conducted at any well (all phosphate concentrations >0.5 mg/L). Nitrate dosing (approximately 100 - 200 grams of potassium nitrate dissolved in two gallons of potable-grade water) was conducted at MW-26. Additional post-EFR nitrate dosing was conducted on wells MP-23, MW-20, and MW-37R. All post-EFR phosphate levels in (EFR area) dosing wells (MP-23, MP-24, MW-20, MW-26, and/or MW-37R) were above the dosing thresholds; therefore, no additional dosing was conducted.

During the March 2024 bio-supplementation field event, nitrate was not detected in any dosing well and phosphate was detected as follows: MW-20 (10 mg/L); MW-26 (5 mg/L); MP-23 (10 mg/L) and MW-37R (5 mg/L). Dosing well MP-24 was not accessible. Based on this data, phosphate dosing was not conducted at any well. Nitrate dosing (approximately 100 - 200 grams of potassium nitrate dissolved in two gallons of potable-grade water) was conducted at MW-20, MW-26, MP-23, and MW-37R (see Table 4-3). Bio-supplementation readings and associated dosing activities will be conducted during regularly-scheduled site visits in 2025 in accordance with the *SMP*.

As stated above, EB activities were not conducted within/proximal to the 2024 ISCO injection area. However, on June 13, 2024, field nitrate and phosphate readings were collected from dosing wells MW-26 and MW-37R (see Figure 1-8 and Table 4-3). Nitrate and phosphate were above the dosing thresholds in both wells; therefore, nutrient dosing was not conducted.

During the November 2024 EFR/bio-supplementation field event, nitrate was not detected in any dosing well and phosphate was detected as follows: MW-20 (20 mg/L); MW-26 (10 mg/L); MP-23 (20 mg/L); MP-24 (20 mg/L); and MW-37R (15 mg/L). Based on this data, phosphate dosing was not conducted at any well. Nitrate dosing (approximately 100 - 200 grams of potassium nitrate dissolved in two gallons of potable-grade water) was conducted at MW-20, MW-26, MP-23, MP-24, and MW-37R (see Table 4-3). All post-EFR phosphate levels in (EFR area) dosing wells (MP-23, MP-24, MW-20, MW-26, and/or MW-37R) were above the dosing thresholds; therefore, no additional dosing was conducted.

During the December 2024 EFR/bio-supplementation field event, nitrate was not detected in dosing wells MW-24, MW-26, or MW-37R, but was present in MP-23 at 4.0 ppm and MP-24 and MW-20 each at 1.0 ppm. Phosphate concentrations ranged from 20 mg/L (MW-26) to 35 mg/L (MW-20). Based on this data, phosphate dosing was not conducted at any well. Nitrate dosing (approximately 100 - 200 grams of potassium nitrate dissolved in two gallons of potable-grade water) was conducted at MP-24, MW-20, MW-24, MW-26, and MW-37R (see Table 4-3). All post-EFR nitrate and phosphate levels in (EFR area) dosing wells (MP-23, MP-24, MW-20, and MW-24) were above the dosing thresholds; therefore, no additional dosing was conducted.

Bio-supplementation readings and associated dosing activities will be conducted during regularly-scheduled site visits in 2025 in accordance with the *SMP*.

4.5 Groundwater Monitoring

4.5.1 Volatile Organic Compounds (VOCs)

The current monitoring well array consists of 45 on-site and 11 off-site overburden groundwater monitoring wells/small diameter monitoring points (see Figures 1-3, 2-3, and 2-4). In accordance with the approved *SMP*, groundwater sampling activities are currently conducted on a semi-annual basis including an expanded off-site sampling event and two post-ISCO sampling events to monitor groundwater conditions subsequent to injection activities. Groundwater sampling activities in 2024 were conducted in: 1) February (post-EFR and pre-ISCO); 2) August (Post-ISCO); and 3) October (Post-ISCO/pre-EFR). The October 2024 event also included off-site sampling locations on Alden and Craig Streets. Groundwater analytical results are summarized in Table 4-4 and Figures 4-2 and 4-3.

All groundwater samples collected in 2024 were submitted to ALS Group USA, Corp. (ALS) of Rochester, New York for laboratory analysis of VOCs including heptane and included Category B laboratory deliverables. Final laboratory data packages were submitted to DataVal of Fayetteville, New York for third-party validation. Upon completion of the review of the validated laboratory reports, validated data will be uploaded NYSDEC EQuIS database.

The most recent (expanded annual) groundwater sampling event at the site was conducted in October 2024 and included on-site monitoring wells MW-12, MW-15R, MW-22, MW-27, MW-28, MP-24, MP-25, MP-26, MP-27, MP-29, MP-37, MP-39, MP-40 and off-site wells MP-6, MP-14, MP-17, MP-19, MP-22, MW-18, and MW-19. Analytical results are presented in Table 4-4 and Figures 4-1 and 4-2.

A total of 11 individual VOCs were present at detectable concentrations in one or more monitoring wells during the October 2024 sampling event: benzene, toluene, ethylbenzene, xylenes, cyclohexane, methylcyclohexane, heptane, 2-butanone, 4-methyl-2-pentanone, 1,1,1-trichloroethane (1,1,1-TCA), and chlorobenzene (see Table 4-4). Only toluene exceeded the applicable groundwater standard (5 µg/L) in 8 monitoring wells (see Table 4-4 and Figures 4-1 and 4-2). A contour map depicting the current (October 2024) dissolved-phase toluene plume is presented in Figure 2-6. With respect to the off-site wells sampled in October 2024, toluene was not detected in any well (see Table 4-4 and Figure 4-2).

Toluene was detected in 9 of the 13 on-site wells sampled in October 2024 with detected concentrations ranging from 0.65 J µg/L (MW-27) to 58,000 µg/L (MP-25). The October 2024 sampling results are presented in Figures 4-2 and 4-3. The current dissolved toluene plume, based on the October 2024 groundwater sampling event, is depicted in Figure 2-6. As shown on Figure 2-6, elevated toluene concentrations in groundwater are present proximal to the former Tank Farm area (along the northern wall of Building #61), in the Building #58 AOC proximal to monitoring well MP-37, as well as in MP-39 in the Durham Bus area. However, as stated above, toluene was not detected in downgradient, on-site monitoring wells MW-12, MW-15R, MW-40, or in off-site monitoring wells on Alden and Craig Streets. These data confirm that the plume is stable, confined

to the site, and is not migrating further downgradient of an approximate location east of MP-39 and west of MP-40 (see Table 4-4, Figure 2-6).

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4.6 Vapor Intrusion Monitoring (March and June 2024)

In accordance with the SMP and NYSDEC/NYSDOH approved work scope, vapor intrusion sampling activities are conducted during ISCO injection activities, which for the past several years, have been conducted in May/June of each calendar year. In order to evaluate sub-slab and indoor air vapor concentrations during the heating season (i.e., November 1 through March 31), a baseline vapor intrusion sampling event (without ISCO activities) was conducted on March 15, 2024. The vapor intrusion sampling event during the ISCO event was conducted on June 7, 2024. Vapor samples are collected in 6-liter Summa canisters equipped with laboratory-calibrated (8-hour) regulators. A brief summary of the analytical results from each event is presented below. Additional details on both events were presented in the *Quarterly Progress Report* dated August 19, 2024.

March 2024 Heating Season Sampling Event

The heating season sampling event included the collection of air-phase samples from: 1) existing sub-slab vapor monitoring points DB-VMP-2 and DB-VMP-3; 2) indoor air proximal to DB-VMP-3; and 3) an outdoor ambient sample (see Figure 2-3). In addition, a trip blank (QA/QC sample) accompanied the samples to and from the laboratory. All air-phase samples were submitted to ALS of Simi Valley, California (ALS) for analysis of VOCs via EPA Method TO-15 plus tentatively identified compounds (TICs).

A total of 34 individual VOCs were present in sub-slab VMPs DB-VMP-2 and/or DB-VMP-3 at concentrations ranging from 0.084 J micrograms per cubic meter ($\mu g/m^3$) (1,2-dichloroethane [1,2-DCA] in DB-VMP-2) to 33 $\mu g/m^3$ (PCE, also in DB-VMP-3). Toluene, which is the primary compound of concern in groundwater at the former Norton/Nashua Site, was also detected in DB-VMP-2 and DB-VMP-3 at concentrations of 12 $\mu g/m^3$ and 19 $\mu g/m^3$, respectively (see Table 4-5).

The May 2017 NYSDOH Soil Vapor/Indoor Air Matrices (A, B, and C) were updated in February 2024 to include the following additional parameters: 1) benzene, ethylbenzene, cyclohexane, isooctane (2,2,4-trimethylpentane), and 1,2,4- and 1,3,5-trimethylbenzene (Matrix D); 2) xylenes, heptane, and hexane (Matrix E); 3) and 3) toluene (Matrix F). During the March 2024 sampling event, one or more VOCs from each of the above-referenced Matrices were detected in DB-VMP-2 or DB-VMP-3 (see Table 4-5).

With respect to the indoor air sample, which was co-located with sub-slab sample DB-VMP-3, a total of 30 individual VOCs were detected at concentrations ranging from 0.11 J $\mu g/m^3$ (p-dichlorobenzene) to 46 $\mu g/m^3$ (acetone). Of the NYSDOH Matrix A through F compounds, TCE, cis-1,2-DCE, 1,1-DCE, and 1,1,1-TCA were not detected. Of the remaining compounds, detected concentrations ranged from 0.40 J $\mu g/m^3$ (cyclohexane) to 19 $\mu g/m^3$ (PCE, see Table 4-5).

A total of 19 individual VOCs were present in the March 2024 outdoor ambient air sample at concentrations ranging from 0.18 J µg/m^3 (PCE) to 6.5 µg/m^3 (acetone). No VOCs were detected in the trip blank sample (see Table 4-5).

Vapor Sampling Results Review

Of the 19 compounds identified in the 2017 and updated 2024 NYSDEC Decision Matrices, 17 analytes yielded "No further Action" outcomes when comparing indoor air VOC concentrations to sub-slab concentrations (see Table 4-6). However, two analytes (PCE and heptane) yielded the outcome of "Identify Sources and Resample or Mitigate". Specifically, PCE was detected above 10 µg/m^3 in the Indoor Air sample compared to a maximum sub-slab concentration of 33 µg/m^3 in DB-VMP-2 and heptane was detected in the Indoor Air sample at a concentration above 20 µg/m^3 (33 µg/m^3, see Table 4-5).

As stated above and outlined in the March 2017 Statement of Basis, PCE and heptane have been identified as COCs for the Former Norton/Nashua site. PCE was identified as a COC due to its presence in historical sub-slab and indoor air vapor samples, while heptane was associated with the "Tolusol"[1] tank system. However, as stated in the Statement of Basis, it could not be determined if PCE was from the historical site contamination, or from ongoing maintenance operations associated with the warehouse and adjacent Durham Bus garage. It should be noted that PCE has never been detected in soil and only one, unconfirmed, detection was observed in groundwater (28 µg/L in MP-29 on July 17, 2019). Based on these data, the detections of PCE in indoor air were attributed to above-slab source(s) within the Stone warehouse and Durham Bus facilities and not related to the vapor intrusion pathway. Specifically, PCE was previously detected in sub-slab and indoor air at maximum concentrations of 65 µg/m^3 (VMP-2) and 254 µg/m^3 (DB-IA2), respectively, both of which occurred during the May 9, 2018 ISCO event. The presence of PCE at higher concentrations in indoor air compared to sub-slab samples in previous samples is demonstrative of source(s) within the facility above the slab. Furthermore, although not collected during the heating season, the detected PCE concentrations observed during the June 2024 ISCO event vapor sampling, yielded a "No Further Action" outcome (see below).

With respect to heptane, during groundwater sampling events from April 2022 to February 2024 (interior wells only), heptane was only detected in monitoring well MP-37, located in adjacent Building #58, at concentrations ranging from 18 J micrograms per liter (µg/L, February 2024) to 90 J µg/L (August 2023) (Note: Laboratory Method Detection Limits were elevated in the remaining interior wells due to the presence of elevated levels of toluene). The NYSDEC has not established an Ambient Water Quality Standard (AWQS) for heptane.

The heptane concentration in the March 2024 Indoor Air sample 33 µg/m^3 is above the NYSDEC criteria of 20 µg/m^3, which triggers the "Identify Source(s) or Resample or Mitigate" response. However, the concentrations in sub-slab vapor points DB-VMP-2 and DB-VMP-3 in March 2024 (2.2 µg/m^3 and 1.2 J µg/m^3, respectively) are significantly lower in comparison, demonstrating the presence of source(s) within the facility above the slab. A similar scenario was

[1] Tolusol is a mixture of toluene and heptane that was previously used in historical manufacturing processes at the site.

observed during the June 2024 ISCO event vapor sampling where the heptane concentrations in Indoor Air were higher than the maximum detected concentration in sub-slab samples (see below).

With respect to toluene, the detected concentrations in sub-slab vapor points DB-VMP-2 and DB-VMP-3 in March 2024 (12 µg/m^3 and 19 µg/m^3, respectively) and the Indoor Air concentration of 8.0 µg/m^3 indicate a "No Further Action" response with respect to soil Vapor/Indoor Air Matrix F (see Table 4-6).

June 2024 ISCO Sampling Event

The June 2024 ISCO vapor sampling event included the collection of air-phase samples from: 1) existing sub-slab vapor monitoring points DB-VMP-1 in the Durham Bus area and DB-VMP-2 and DB-VMP-3 in the Stone Management Watehouse area; 2) indoor air proximal to DB-VMP-3; and 3) an outdoor ambient sample (see Figure 2-3). In addition, a trip blank (QA/QC sample) accompanied the samples to and from the laboratory. All air-phase samples were submitted to ALS for analysis of VOCs via EPA Method TO-15 plus TICs and included NYSDEC CLP/Category B laboratory deliverables.

A total of 14 individual VOCs were present in sub-slab VMPs DB-VMP-1 through DB-VMP-3 at concentrations ranging from 1.2 J µg/m^3 (1,1,1-TCA in DB-VMP-2) to 91 µg/m^3 (toluene in DB-VMP-3). Toluene, which is the primary compound of concern in groundwater at the former Norton/Nashua Site, was also detected in DB-VMP-1 and DB-VMP-2 at concentrations of 78 µg/m^3 and 22 µg/m^3, (see Table 4-7).

Considering the May 2017/ February 2024 NYSDOH Soil Vapor/Indoor Air Matrices (A through F), the following VOCs were detected in one or more sub-slab samples.: PCE, 1,1,1-TCA, ethylbenzene, 1,2,4- and 1,3,5-trimethylbenzene, xylenes, heptane, and toluene (see Table 4-7).

With respect to the indoor air sample, which was co-located with sub-slab sample DB-VMP-3, a total of 27 individual VOCs were detected at concentrations ranging from 0.38 J µg/m^3 (carbon tetrachloride) to 210 µg/m^3 (toluene). Of the NYSDOH Matrix A through F compounds, TCE, cis-1,2-DCE, 1,1-DCE, 1,1,1-TCA, methylene chloride, and vinyl chloride, were not detected. Of the remaining compounds, detected concentrations ranged from 0.39 J µg/m^3 (1,3-dichlorobenene) to 40 µg/m^3 (acetone, see Table 4-7).

A total of 23 individual VOCs were present in the June 2024 outdoor ambient air sample at concentrations ranging from 0.14 J µg/m^3 (PCE) to 9.5 µg/m^3 (acetone). No VOCs were detected in the trip blank sample (see Table 4-7).

Additional details on the detected VOCs in comparison to the 2017 and updated 2024 NYSDEC criteria is presented below.

Vapor Sampling Results Review

Of the 19 compounds identified in the 2017 and updated 2024 NYSDEC Decision Matrices, 17 analytes yielded "No further Action" outcomes when comparing indoor air VOC concentrations to sub-slab concentrations (see Table 4-7). However, two analytes (heptane and toluene) yielded the outcome of "Identify sources and Resample or Mitigate". Specifically, heptane

was detected above the 20 µg/m^3 Indoor Air criterion at a concentration of 58 µg/m^3 compared to a maximum sub-slab concentration of 17 µg/m^3 in DB-VMP-1. Toluene was detected in the Indoor Air sample at a concentration above 20 µg/m^3 (210 µg/m^3) compared to a maximum sub-slab concentration of 91 µg/m^3 in DB-VMP-3.

The concentrations of both heptane and toluene in the Indoor Air sample collected in June 2024 were higher than those detected in sub-slab samples; however, because these samples were collected concurrently with ongoing ISCO injection activities, their presence in indoor air is not unexpected given the periodic opening of monitoring wells during the collection of ISCO-related field monitoring data. The toluene concentrations observed in sub-slab and indoor air samples collected during the heating season sampling event in March 2024 (see above) indicated a "No Further Action" outcome (see Table 4-6). The heptane concentration indicated a "Identify Sources, Resample, or Mitigate" outcome (see below).

Because the concentrations of selected VOCs including PCE, heptane, and toluene triggered the "Identify Sources, Resample, or Mitigate" outcome, a heating season vapor intrusion sampling event will be conducted during the First Quarter 2025. This sampling event will include sub-slab vapor points DB-VMP-2 and DB-VMP-3, located in Building #61; an indoor air sample proximal to DB-VMP-3; an Outdoor Ambient sample; and a Trip blank sample will accompany the Summa canisters to and from the laboratory. Samples will be collected in accordance with the 2019 *SMP* and submitted to ALS for analysis of VOCs via Method TO-15 plus TICs.

4.7 Community Air Monitoring Plan (CAMP) Monitoring

Immediately prior to the January 2024 EFR event on January 25, 2024, FES was notified by the NYSDEC that CAMP photoionization detector (PID) and particulate data would be required during EFR and ISCO events, as well as any "ground-breaking" activities (i.e., soil boring and ISCO injection point installation, etc.) conducted in 2024. A CAMP was previously developed for the site to conduct real-time monitoring of volatile organic compounds (VOCs) and particulates (e.g., dust) during any soil excavation activities (i.e., when there is an open excavation) and presented in the *SMP*. The *SMP* was approved by the NYSDEC in a correspondence dated November 5, 2019. Although there is the potential for organic vapors and, to a lesser extent, particulates to be present in the immediate work area (exclusion zone), given the limited size of the work area compared to the overall size of the site, as well as the distance to the nearest residential areas (approximately 300 feet to the north), the potential for vapor and/or particulate migration to these areas is expected to be extremely limited. A CAMP was included in the *Quarterly Progress Report on Project Activities – January 1 through March 31, 2024* (FES, April 10, 2024).

CAMP monitoring consists of three monitoring stations positioned throughout the work area including: 1) an upgradient location; 2) the downwind perimeter of the work area or exclusion zone; and 3) approximately 150 feet downwind of the exclusion zone. During EFR activities in January, November, and December 2024 and the installation of the exterior soil borings on May 29, 2024, all CAMP stations were located outside the main building. During the installation of the interior soil borings on May 30, 2024, and the ISCO injection activities from June 4 – 13, 2024 the "Upwind" and "Downwind Exclusion Zone" CAMP monitoring stations were positioned inside Building #61 in order to monitor conditions in active work areas within the warehouse. CAMP monitoring stations are presented in Figure 4-1. CAMP particulate and PID plots are presented in Appendix C. A brief summary of the CAMP results is presented below. Additional details on the

CAMP activities conducted during the January 2024 EFR event and the May/June soil boring installation and ISCO activities including plots of PID and particulate readings were presented in the *Quarterly Progress Reports* dated April 10 and August 19, 2024, respectively. CAMP activities associated with the November and December 2024 EFR activities will be presented in the Fourth Quarter 2024 *Quarterly Progress Report* scheduled for submittal in January 2025.

January 2024 EFR Event

All CAMP PID readings were below the action level of 5 ppm during EFR activities. With respect to particulate monitoring, only a few intermittent exceedances of the particulate action level (150 $\mu g/m^3$) were observed during EFR activities but no consistent exceedances occurred during the work monitoring period; these anomalous readings can be attributed to: 1) moisture from precipitation; 2) school bus and vehicular traffic in the vicinity of the monitoring station; and/or 3) periodically accessing the dust meter enclosure to obtain manual readings. In addition, exceedances of the particulate action level generally only spanned time periods of several seconds up to 30 to 45 seconds. Furthermore, no visible dust emissions were observed during EFR activities.

May 2024 Soil Boring Installation Activities

All CAMP PID readings were below the action level of 5 ppm during drilling activities with the exception of one anomalous reading of 5.0 ppm prior to the start of drilling work on May 30, 2024. With respect to particulate monitoring, although intermittent exceedances of the particulate action levels were observed at the Upwind and Downwind Exclusion Zone monitoring stations, dust prevention techniques and the use of appropriate Personal Protective Equipment (PPE) (i.e., dust masks) mitigated worker exposure within the building. Particulate exceedances at the Downgradient (exterior) CAMP station are attributed to the routine daily activities at Durham Bus (i.e., school bus parking and periodic entry/exit from the garage area immediately adjacent to the downgradient CAMP station) and not to drilling activities.

June 2024 ISCO Injection Activities

CAMP PID readings (above background) throughout ISCO injection activities were: 1) sporadic in nature; 2) confined to short intervals ranging from less than one minute to two minutes in duration; or 3) attributed to ongoing activities at Durham Bus. With respect to particulate monitoring, although intermittent exceedances of the particulate action levels were observed, dust prevention techniques (sealing of injection points with bentonite and limiting the opening of monitoring wells within the injection area) and the use of appropriate PPE (i.e., dust masks) mitigated worker exposure within the building. Particulate exceedances at the Downgradient (exterior) CAMP station are attributed to the routine daily activities at Durham Bus (i.e., school bus parking and periodic entry/exit from the garage area immediately adjacent to the downgradient CAMP station) and not to drilling or injection activities.

4.7.1 Granular Activated Carbon (GAC) Effluent Treatment

Prior to the November 2024 EFR event, the EFR contractor (Veolia) contacted Carbtrol Corporation of Stratford, Connecticut to provide a vapor-phase treatment vessel for purposes of treating the discharge from the vacuum truck during EFR events. Based on the recent groundwater analytical results, Carbtrol recommended utilizing a 200-pound G-3 air Purification Canister

containing vapor-phase GAC. The GAC vessel (55-gallon drum) is fitted with an influent port capable of accommodating the discharge vent from the vacuum truck tank, as well as influent and effluent sample ports for the purposes of collecting vapor samples for field PID screening and laboratory analysis as necessary. The GAC drum specifications are presented in Appendix D.

GAC Influent and Effluent samples were collected periodically during the November and December 2024 EFR events. The maximum GAC Influent PID concentrations during the November and December 2024 EFR events were 590 ppm and 350 ppm, both of which were observed during EFR at well MP-29. With respect to GAC Effluent samples, only two detections were observed during the November 2024 EFR event including MP-29 (0.1 ppm) and MP-27 (0.3 ppm). Effluent GAC concentrations observed during the December 2024 EFR event ranged from 0.0 ppm (MP-39) to 4.7 ppm (MP-26). These data demonstrate that the GAC vessel is treating the Effluent vapor stream to levels below the CAMP Action Level of 5.0 ppm.

4.8 Comparison with Remedial Objectives

During the 2024 groundwater sampling events, the following monitoring wells exhibited one or more VOCs above their respective NYSDEC criteria: MP-23 through MP-27, MP-29, MP-37, MP-39, MW-22, MW-27, and MW-28 (see Table 4-4 and Figures 4-1 through 4-3). The only detection of toluene in downgradient, on-site monitoring wells MW-12, MW-15R, and MP-40 in 2024 was in MW-12 on August 1, 2024 when toluene was detected at an estimated concentration of 0.49 J µg/L, which is below applicable criteria (see Table 4-4). The last time toluene was detected above the Ambient Water Quality Standard (AWQS) of 5 µg/L in MW-12 and MW-15R was in July 2020 (17 µg/L) and November 2019 (28 µg/L), respectively (see Table 4-4). Toluene has never been detected in MP-40 during sampling events from July 2012 to October 2024 (see Table 4-4). In addition, toluene has not been detected in any of the off-site monitoring wells on Alden and Craig Streets north of the site since October 2020 (see Table 4-4). Based on these data, the spatial distribution of the dissolved-phase toluene plume (at concentrations above the NYSDEC standard 5 µg/L) remains defined, confined within the site boundary, and has contracted significantly since 2004 as a result of site remedial activities (see Figures 2-5 and 2-6).

4.9 Monitoring Deficiencies

No monitoring deficiencies were identified during the 2024 remedial or associated sampling activities.

SECTION 5.0
OVERALL PRR CONCLUSIONS AND RECOMMENDATIONS

5.1 Site-Wide Inspection and Maintenance of the Cover System

The capped area at the site (see Figure 3-1), which includes: 1) the asphalt-paved area proximal to the former tank farm (currently used for school bus parking); and 2) the concrete slabs and foundation elements of Buildings #58, #59, and #61 does not require any special operation or maintenance activities. However, routine (annual) inspections and proper maintenance (i.e., repair/replacement of damaged, cracked, or breached areas) are required. The results of all inspections will be documented on Site-Wide and Cap System Inspection Forms (see Appendix H, of the *SMP*).

The Engineering Controls (asphalt and concrete cap) are: 1) performing as designed; 2) protective of human health and the environment; and 3) compliant with the specifications described in the *SMP*. Site-wide inspections were conducted on March 15 and October 23, 2024. Copies of the Cap Inspection Form sand photographic logs are presented in Appendix A. Site-wide and/or cap inspections will be conducted during routine site visits in 2025 to ensure the ECs are functioning as designed.

As described in Section 3.2, the Environmental Easement area north of Building #61 was repaved in November 2021. With respect to the ISCO injection borings in Building #58 proximal to monitoring well MP-37 and along the interior (northern) wall of Building #61, subsequent to the completion of injection activities, all injection locations were sealed with hydrated bentonite and capped with concrete at the surface.

5.2 Monitoring and Sampling Plan

Monitoring and sampling protocols for all applicable media (groundwater, soil vapor, indoor air, etc.) during ISCO, EFR, and EB remedial activities in 2024 were conducted in accordance with the August 2019 *SMP*.

Groundwater and vapor sampling activities planned for 2025 will be conducted in accordance with the August 2019 SMP (see Table 4-1).

5.3 Remedial Activities

Remedial activities conducted at the site during 2024 (ISCO, EFR, and EB) were performed in accordance with the procedures outlined in the August 2019 *SMP*. Planned activities for 2025 include: 1) routine annual cap inspections; 2) a post-EFR groundwater sampling event in February 2025; 3) a heating season vapor intrusion sampling event during the First Quarter 2025; 4) submittal of a *Remedial Action Summary Report* in April 2025 documenting the remediation and associated sampling activities from 2020 through 2024; and 5) a meeting with NYSDEC/NYSDOH representatives subsequent to their review of the *Remedial Action Summary Report* to discuss the current site status and path forward.

5.4 Flooding Consideration

Overall, the site is generally flat with less than 2 feet of elevation change over the approximate impacted area (see Figures 2-1 and 2-6). Specifically, ground surface elevations ranged from 35.69 feet above mean sea level at monitoring well MW-26 to 37.57 feet at MP-37. Given the fact that the entire site is covered with an impermeable (asphalt or concrete) surface and sloped for proper drainage, the likelihood of flooding occurring at the site is minimal. Furthermore, the closest surface water body (the Hudson River) is located over ½ mile to the east and at an elevation approximately 8 to 10 feet lower than that of the site.

5.5 Green Remediation

Green Remediation concepts associated with site activities are as follows:

- EB involves the introduction of commercial-grade, readily available materials including: potassium nitrate (KNO_3) and plant fertilizer (Miracle-Gro) and does not involve electric or gas-powered pumps for delivery to the subsurface.
- Re-usable equipment is used whenever possible.
- The use of hydrogen peroxide during ISCO injections results in contaminant breakdown to benign green end products of oxygen, carbon, hydrogen, and water.
- During all remedial and associated sampling activities, field staff stay close to the site and car-pooling is encouraged for a lower environmental footprint.
- Subcontractors and equipment deliveries are procured from areas as close to the site as possible to minimize the environmental footprint.
- Where possible, FES schedules work at an adjacent site or sites along the route to Watervliet to maximize mobilization/demobilization time.
- A no-idling policy is adhered to for any vehicles utilized for site work.
- Chemical deliveries for ISCO are procured in bulk to reduce the environmental footprint associated with transportation.
- All liquid chemical drums/containers used during ISCO activities are recycled or reused.

SECTION 6.0
LIMITATIONS

The work presented in this report was performed in a manner consistent with the level of effort and care ordinarily exercised in the field of environmental consulting and by Forensic Environmental Services, Inc. and Korlipara Engineering. The analysis, conclusions, opinions, and recommendations are based upon a finite number of observations and data points. Moreover, it should be recognized that natural systems are complex and highly heterogeneous. Further, studies regarding hydrogeology and environmental conditions are difficult and inexact sciences. In part, for these reasons, it is possible that conditions vary between and/or beyond that defined by the available data.

Professional judgment, based upon incomplete knowledge of the subsurface, is required in order to formulate conclusions and recommendations. To this end, all risk cannot be eliminated but rather managed in the context of the available data. Forensic Environmental Services, Inc. and Korlipara Engineering make no other representation, guarantee or warranty, expressly or implied, regarding the services, communication, conclusions, or opinions provided in conjunction with the preparation of this report.

TABLES

Table 1-1
Summary of Light Non-Aqueous Phase Liquid (LNAPL) Measurements
Former Norton/Nashua Tape Products Facility
Watervliet, New York

Well Designation	Top of Casing Elevation (feet)	Date	Depth to Product (feet)	Depth to Water (feet)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet)
MW-14	35.93	6/14/2004	8.59	8.62	0.03	27.34
		6/23/2005	8.93	9.05	0.12	26.98
		2/16/2006	8.21	8.23	0.02	27.72
		8/21/2006	8.45	8.50	0.05	27.47
		12/19/2006	8.91	9.01	0.10	27.01
MW-28	NM	5/14/2018	NM	8.97	~0.10 - 0.20*	NM
		5/15/2018	NM	8.86	~0.10 - 0.20*	NM
		5/16/2018	NM	8.96	~0.10 - 0.20*	NM
		5/17/2018	NM	8.59	~0.10 - 0.20*	NM
		5/21/2018	NM	9.03	~0.10 - 0.20*	NM
MP-25	36.56	6/10/2009	8.82	9.31	0.49	27.68
		6/11/2009	8.81	9.01	0.20	27.72
		6/11/2009	8.79	8.98	0.19	27.75
		6/12/2009	8.85	9.01	0.16	27.69
		8/24/2009	8.69	8.77	0.08	27.86
		5/3/2017	8.55	8.80	0.25	27.98
		5/3/2017	8.58	8.85	0.27	27.94
		5/4/2017	8.91	9.19	0.28	27.61
MP-26	37.21	5/3/2017	7.50	10.00	~0.50*	NM
		5/4/2017	9.26	9.41	0.15	27.93
MP-27	37.20	5/3/2017	7.85	8.40	0.55	29.28
		5/3/2017	8.70	9.15	0.45	28.44
		5/4/2017	9.17	9.68	0.51	27.96
MP-37	37.32	10/21/2014	10.66	10.82	0.16	26.64
		10/22/2014	10.59	10.79	0.20	26.70

Notes:

1. NM = Not Measured.
2. A specific gravity of 0.87 was used to calculate corrected groundwater elevation in wells exhibiting free product.
3. "*" = LNAPL thicknesses estimated; accurate measurements difficult due to injected reagents/subsurface reactions.

Table 1-2
Summary of Groundwater Elevation Data
Former Norton/Nashua Tape Products Facility
Watervliet, New York

Well Designation	Top of Casing Elevation (feet)	Date	Depth to Product (feet)	Depth to Water (feet)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet)
On-Site Monitoring Wells/Points						
MW-12	35.61	4/26/2022	NE	8.78	0.00	26.83
		7/19/2022	NE	9.48	0.00	26.13
		5/22/2023	NE	9.04	0.00	26.57
		11/2/2023	NE	9.05	0.00	26.56
		8/1/2024	NE	9.40	0.00	26.21
		10/22/2024	NE	9.50	0.00	26.11
MW-15R	35.62	4/26/2022	NE	6.88	0.00	28.74
		7/19/2022	NE	9.48	0.00	26.14
		5/22/2023	NE	8.25	0.00	27.37
		11/2/2023	NE	8.76	0.00	26.86
		2/21/2024	NE	8.01	0.00	27.61
		10/22/2024	NE	9.75	0.00	25.87
MW-22	36.85	4/26/2022	NE	8.78	0.00	28.07
		7/19/2022	NE	9.98	0.00	26.87
		8/31/2022	NE	9.82	0.00	27.03
		5/23/2023	NE	9.80	0.00	27.05
		11/1/2023	NE	9.36	0.00	27.49
		2/21/2024	NE	9.40	0.00	27.45
		10/23/2024	NE	9.87	0.00	26.98
MW-27	35.58	4/26/2022	NE	7.78	0.00	27.80
		7/20/2022	NE	8.89	0.00	26.69
		8/31/2022	NE	8.72	0.00	26.86
		5/22/2023	NE	8.37	0.00	27.21
		8/9/2023	NE	8.23	0.00	27.35
		11/2/2023	NE	8.27	0.00	27.31
		2/21/2024	NE	8.31	0.00	27.27
		8/1/2024	NE	8.67	0.00	26.91
		10/24/2024	NE	8.78	0.00	26.80
MW-28	NM	4/27/2022	NE	8.92	0.00	NM
		7/20/2022	NE	9.79	0.00	NM
		8/31/2022	NE	9.61	0.00	NM
		5/22/2023	NE	9.21	0.00	NM
		8/9/2023	NE	9.09	0.00	NM
		11/3/2023	NE	9.12	0.00	NM
		2/22/2024	NE	9.15	0.00	NM
		8/2/2024	NE	9.60	0.00	NM
		10/24/2024	NE	9.71	0.00	NM

Table 1-2
Summary of Groundwater Elevation Data
Former Norton/Nashua Tape Products Facility
Watervliet, New York

Well Designation	Top of Casing Elevation (feet)	Date	Depth to Product (feet)	Depth to Water (feet)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet)
MP-23	36.65	8/2/2024	NE	9.69	0.00	26.96
MP-24	36.61	4/27/2022	NE	8.78	0.00	27.83
		7/20/2022	NE	9.85	0.00	26.76
		8/31/2022	NE	9.74	0.00	26.87
		5/22/2023	NE	9.30	0.00	27.31
		8/9/2023	NE	9.16	0.00	27.45
		11/3/2023	NE	9.21	0.00	27.40
		2/22/2024	NE	9.27	0.00	27.34
		8/2/2024	NE	9.72	0.00	26.89
		10/24/2024	NE	9.75	0.00	26.86
MP-25	36.56	4/26/2022	NE	8.62	0.00	27.94
		7/20/2022	NE	9.82	0.00	26.74
		8/31/2022	NE	9.23	0.00	27.33
		5/22/2023	NE	9.36	0.00	27.20
		8/9/2023	NE	9.20	0.00	27.36
		11/3/2023	NE	9.26	0.00	27.30
		2/22/2024	NE	9.27	0.00	27.29
		8/2/2024	NE	9.74	0.00	26.82
		10/24/2024	NE	9.78	0.00	26.78
MP-26	37.21	4/26/2022	NE	9.11	0.00	28.10
		7/20/2022	NE	10.44	0.00	26.77
		9/1/2022	NE	10.26	0.00	26.95
		5/23/2023	NE	10.27	0.00	26.94
		8/10/2023	NE	9.80	0.00	27.41
		11/1/2023	NE	9.72	0.00	27.49
		2/20/2024	NE	9.78	0.00	27.43
		8/1/2024	NE	10.22	0.00	26.99
		10/23/2024	NE	10.29	0.00	26.92
MP-27	37.20	7/20/2022	NE	10.35	0.00	26.85
		9/1/2022	NE	10.24	0.00	26.96
		5/23/2023	NE	9.90	0.00	27.30
		8/10/2023	NE	9.78	0.00	27.42
		11/1/2023	NE	9.77	0.00	27.43
		2/20/2024	NE	9.80	0.00	27.40
		8/1/2024	NE	10.23	0.00	26.97
		10/23/2024	NE	10.33	0.00	26.87

Table 1-2
Summary of Groundwater Elevation Data
Former Norton/Nashua Tape Products Facility
Watervliet, New York

Well Designation	Top of Casing Elevation (feet)	Date	Depth to Product (feet)	Depth to Water (feet)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet)
MP-29	37.15	4/26/2022	NE	9.39	0.00	27.76
		7/20/2022	NE	10.35	0.00	26.80
		9/1/2022	NE	10.24	0.00	26.91
		5/23/2023	NE	9.97	0.00	27.18
		8/10/2023	NE	9.78	0.00	27.37
		11/1/2023	NE	9.75	0.00	27.40
		2/21/2024	NE	9.80	0.00	27.35
		8/1/2024	NE	10.19	0.00	26.96
		10/23/2024	NE	10.25	0.00	26.90
MP-37	37.32	4/26/2022	NE	9.28	0.00	28.04
		7/20/2022	NE	10.45	0.00	26.87
		8/31/2022	NE	10.34	0.00	26.98
		5/22/2023	NE	9.85	0.00	27.47
		8/10/2023	NE	9.89	0.00	27.43
		11/2/2023	NE	9.83	0.00	27.49
		2/21/2024	NE	9.85	0.00	27.47
		8/1/2024	NE	10.26	0.00	27.06
		10/23/2024	NE	10.14	0.00	27.18
MP-39	37.19	4/26/2022	NE	9.48	0.00	27.71
		7/20/2022	NE	10.41	0.00	26.78
		8/31/2022	NE	10.21	0.00	26.98
		5/22/2023	NE	9.96	0.00	27.23
		8/10/2023	NE	9.85	0.00	27.34
		11/2/2023	NE	9.89	0.00	27.30
		2/21/2024	NE	9.93	0.00	27.26
		8/1/2024	NE	10.20	0.00	26.99
		10/23/2024	NE	10.28	0.00	26.91
MP-40	37.20	7/20/2022	NE	10.45	0.00	26.75
		5/23/2023	NE	10.02	0.00	27.18
		8/10/2023	NE	9.93	0.00	27.27
		11/2/2023	NE	9.90	0.00	27.30
		10/23/2024	NE	10.29	0.00	26.91

Table 1-2
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Former Norton/Nashua Tape Products Facility
Watervliet, New York

Well Designation	Top of Casing Elevation (feet)	Date	Depth to Product (feet)	Depth to Water (feet)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet)
Off-Site Monitoring Wells/Points						
MW-18	33.93	7/18/2022	NE	8.28	0.00	25.65
		10/31/2023	NM	NM	NM	NM
		10/22/2024	NE	8.56	0.00	25.37
MW-19	34.55	7/18/2022	NE	8.78	0.00	25.77
		10/31/2023	NE	7.22	0.00	27.33
		10/22/2024	NE	7.71	0.00	26.84
MP-6	35.47	7/18/2022	NE	9.13	0.00	26.34
		11/1/2023	NE	8.20	0.00	27.27
		10/22/2024	NE	8.70	0.00	26.77
MP-14	35.17	7/18/2022	NE	8.78	0.00	26.39
		10/31/2023	NE	8.06	0.00	27.11
		10/22/2024	NE	8.60	0.00	26.57
MP-17	35.64	7/18/2022	NE	9.23	0.00	26.41
		10/31/2023	NE	8.58	0.00	27.06
		10/22/2024	NE	9.13	0.00	26.51
MP-19	35.14	7/18/2022	NE	8.93	0.00	26.21
		10/31/2023	NE	8.30	0.00	26.84
		10/21/2024	NE	9.03	0.00	26.11
MP-22	34.34	7/18/2022	NE	9.71	0.00	24.63
		10/31/2023	NE	9.24	0.00	25.10
		10/21/2024	NE	9.58	0.00	24.76

Notes:
1. Depth to water measured from top of PVC casing
2. NE = Not encountered; NM = Not Measured.

Table 2-1
Summary of Soil Exceedances - Restricted Use Commercial SCOs (On-Site) and Unrestricted Use SCOs (Off-Site)
Volatile Organic Compounds
Former Norton/Nashua Facility
Watervliet, New York

Sample Designation	Sampling Date	Sample Depth (feet)	Acetone (µg/kg)	Methylene chloride (µg/kg)	Toluene (µg/kg)	m,p-Xylene (µg/kg)	Heptane (µg/kg)	Methyl Cyclohexane (µg/kg)
NYSDEC Restricted Use (Commercial) SCO			***500,000***	***500,000***	***500,000***	***500,000***	***NS***	***NS***
NYSDEC Unrestricted Use SCO			***50***	***50***	***700***	***260***	***NS***	***NS***
On-Site								
SB-6	8/27/2003	10 - 11	**740 B**	**170 JB**	**5,900**	**88 J**	**840**	ND
SB-46	9/8/2003	9 - 10	**54**	**5 JB**	<6	<6	<12	ND
SB-50	9/9/2003	8 - 9	**56**	**5 JB**	<6	<6	<12	ND
SB-66	9/11/2003	9 - 12	<160,000	**30,000 JB**	**2,400,000**	<81000	**840,000**	ND
SB-100	9/18/2003	9 - 11	**26,000 B**	**8,200 JB**	**220,000**	<11000	**340,000**	ND
SB-102	9/18/2003	9 - 10	**50,000 B**	**24,000 B**	**740,000**	<24000	**1,100,000 E**	ND
SB-110	9/19/2003	8 - 9	<600	**140 JB**	**120 J**	<300	<600	ND
SB-112	9/19/2003	8 - 9 (RE)	**130 B**	**20 B**	**7 J**	<8	<17	ND
SB-112A	9/19/2003	20 - 25	**2,300 JB**	**930 JB**	<1,200	<1,200	<2,400	ND
SB-113 (RE)	11/24/2003	3 - 4	**55 B**	**4 JB**	<6	<6	<11	ND
SB-15	8/28/2003	6 - 7	**59 B**	**8 B**	**9**	**1 J**	<11	ND
SB-17	8/28/2003	13 - 14	**760 JB**	**320 JB**	**12,000**	<540	**2,200**	ND
SB-19	8/29/2003	13.5 - 14.5	**50,000 J**	**72,000 B**	**850,000**	<55,000	**70,000 J**	ND
SB-20	8/29/2003	11 - 12	**56 B**	**10 B**	**6**	<6	<12	ND
SB-22	9/2/2003	6.5 - 7.5	**61**	<5	**86**	**2 J**	**53**	ND
SB-22	9/2/2003	12.5 - 13.5	**240 JB**	**270 B**	**1,200**	**230 J**	**6,000**	ND
SB-25	9/2/2003	7.5 - 10	<1,200	**600 JB**	**250 J**	**240 J**	**23,000**	ND
SB-72	9/12/2003	9 - 10	<120,000	**75,000 B**	**1,300,000**	<61000	**120,000**	ND

Table 2-1
Summary of Soil Exceedances - Restricted Use Commercial SCOs (On-Site) and Unrestricted Use SCOs (Off-Site)
Volatile Organic Compounds
Former Norton/Nashua Facility
Watervliet, New York

Sample Designation	Sampling Date	Sample Depth (feet)	Acetone (µg/kg)	Methylene chloride (µg/kg)	Toluene (µg/kg)	m,p-Xylene (µg/kg)	Heptane (µg/kg)	Methyl Cyclohexane (µg/kg)
NYSDEC Restricted Use (Commercial) SCO			***500,000***	***500,000***	***500,000***	***500,000***	***NS***	***NS***
NYSDEC Unrestricted Use SCO			***50***	***50***	***700***	***260***	***NS***	***NS***
SB-123	11/26/2003	8.5 - 9.5	**640 B**	**130 JB**	**8,900**	**560**	**460 J**	ND
SB-125	11/26/2003	8.5 - 9.5	**67 B**	**4 JB**	**4 J**	<6	<13	ND
SB-34	9/5/2003	7 - 8	**99**	**19 JB**	**85**	<33	**210**	ND
SB-82	9/15/2003	9 - 10	**78 B**	**25 JB**	<28	<28	<57	ND
SB-83	9/15/2003	9 - 10	**1,400 B**	**420 JB**	<560	<560	**13,000**	ND
SB-129	12/1/2003	8 - 9	<12000	<6000	**120,000**	<6000	**39,000**	ND
SB-130	12/1/2003	4 - 5	**57**	**2 BJ**	**5 J**	<6	<12	ND
SB-205	8/25/2009	9.0-10.0	<23,000	**13,000 B**	**420,000**	**13,000**	**160,000**	**110,000**
MP-24	3/24/2009	12.0-12.5	**17,000**	<5,700	**180,000**	<5,700	**33,000**	**10,000**
SB-208S	8/25/2009	9.0-10.0	<2,200	**1,100 B**	**32,000**	<1,100	**5,800**	**3,800**
MP-26	3/26/2009	12-13	<240,000	<120,000	**2,500,000**	<120,000	NA	<120,000
Duplicate	3/26/2009	12-13	<230,000	<120,000	**2,600,000**	<120,000	NA	<120,000
MP-27	3/24/2009	11-12	<770,000	<390,000	**14,000,000**	<390,000	**1,100,000**	**1,200,000**

Table 2-1
Summary of Soil Exceedances - Restricted Use Commercial SCOs (On-Site) and Unrestricted Use SCOs (Off-Site)
Volatile Organic Compounds
Former Norton/Nashua Facility
Watervliet, New York

Sample Designation	Sampling Date	Sample Depth (feet)	Acetone (µg/kg)	Methylene chloride (µg/kg)	Toluene (µg/kg)	m,p-Xylene (µg/kg)	Heptane (µg/kg)	Methyl Cyclohexane (µg/kg)
NYSDEC Restricted Use (Commercial) SCO			***500,000***	***500,000***	***500,000***	***500,000***	***NS***	***NS***
NYSDEC Unrestricted Use SCO			***50***	***50***	***700***	***260***	***NS***	***NS***
B-1	11/18/2010	9.0	<5300	<2600	**88,000**	<2600	**39,000**	**17,000**
	11/18/2010	11.0	<23000	<11000	**340,000**	<11000	**58,000**	**24,000**
B-2	11/18/2010	8.0	**59**	**12 JB**	**180**	**30**	**74**	**94**
	11/18/2010	11.0	<100	<56	**1,100**	<56	**71 J**	**74**
B-3	11/18/2010	11.0	<2500	**1,400 B**	**23,000**	<1200	<2500	<1200
B-5	11/18/2010	5.0	<5300	<2600	**73,000**	<2600	**15,000**	**9,100**
	11/18/2010	7.0	<5900	<3000	**16,000**	<3000	**69,000**	**96,000**
	11/18/2010	11.0	<100	<56	**960**	<56	<110	<56
B-6	11/18/2010	11.0	<1100	<570	**19,000**	<570	**430 J**	<570
MW-25	5/11/2011	12.5-13.0	<15	<6.0	**770 EJ**	<6.0	<12	<6.0
Post Ex 2	5/11/2011	8.5-9.0	<1200	<580	**21,000**	**1,600**	<1200	<580
1112-1D	11/12/2012	10.0-10.5	<11000	**1,500 JB**	**37,000 B**	**1,300 J**	<11000	**15,000**
1D Dup.	11/12/2012	10.0-10.5	<11000	**1,700 JB**	**220,000 EB**	**3,800 J**	<11000	**20,000**
Off-Site (Alden Street)								
SB-186	12/6/2005	9.5 - 10	<500	**530 J**	<250	<250	ND	ND
SB-191	12/6/2005	9 - 9.5	<12,000	**6,300 BJ**	**230,000**	<12,000	ND	ND

Notes:

1. J = Estimated concentration; B = compound detected in blank; E = exceeds calibration range
2. A shaded cell indicated concentration exceeds NYSDEC Restricted Use Commercial SCO.
3. Off-site samples compared to Unrestricted Use SCOs.
4. Soil borings SB-129 and SB-130 are located off-site, but immediately adjacent to the northern property boundary (i.e., railroad tracks).

Table 2-2
Summary of Soil Exceedances (Restricted Use Commercial SCOs and Unrestricted Use SCOs)
Semi-Volatile Organic Compounds
Former Norton/Nashua Facility
Watervliet, New York

Sample Designation	Sampling Date	Sample Depth (feet)	Benzo(a) anthracene (µg/kg)	Chrysene (µg/kg)	Benzo(b) fluoranthene (µg/kg)	Benzo(k) fluoranthene (µg/kg)	Benzo(a) pyrene (µg/kg)	Indeno(1,2,3-cd)pyrene (µg/kg)	Dibenzo (a,h) anthracene (µg/kg)
NYSDEC Restricted Use (Commercial) SCO			***5,600***	***56,000***	***5,600***	***56,000***	***1,000***	***5,600***	***560***
NYSDEC Unrestricted Use SCO			***1,000***	***1,000***	***1,000***	***800***	***1,000***	***500***	***330***
On-Site									
SB-6	8/27/2003	9 - 10	**1,200**	**1,200**	**1,000**	**840**	**1,100**	**890**	**140 J**
SB-6	8/27/2003	10 - 11	**880**	**860**	**860**	**530**	**1,400**	**790**	**930**
SB-8	8/27/2003	9 - 10	**2,500**	**2,400**	**1,800**	**1,700**	**2,100**	**1,500**	**260 J**
SB-113	11/24/2003	3 - 4	**3,500**	**3,700**	**3,300**	**2,400**	**3,500**	**3,400**	**790**
SB-148A*	1/19/2004	20 - 25	**1,800**	**1,900**	**1,200**	**1,400**	**1,800**	**1,400**	<410
SB-20	8/29/2003	11 - 12	**950**	**1,100**	**850**	**750**	**800**	**510**	**75 J**
SB-26	9/3/2003	9 - 10	**1,700**	**1,900**	**1,600**	**1,200**	**1,600**	**1,400**	**300 J**
SB-68	9/11/2003	4 - 5	**810**	**900**	**640**	**600**	**880**	**710**	**79 J**
Off-Site									
SB-128	12/1/2003	10.5 - 11.5	<390	<390	<390	<390	<390	<390	<390
SB-129	12/1/2003	8 - 9	<400	<400	<400	<400	<400	<400	<400
SB-130	12/1/2003	4 - 5	<410	<410	<410	<410	<410	<410	<410
SB-131	12/1/2003	4.5 - 5.5	<370	<370	<370	<370	<370	<370	<370
SB-134	12/2/2003	7 - 8	<370	<370	<370	<370	<370	<370	<370
SB-135	12/2/2003	4 - 5	<400	<400	<400	<400	<400	<400	<400
SB-136	12/2/2003	8 - 9	<390	<390	<390	<390	<390	<390	<390
SB-158	1/22/2004	8 - 9	<360	<360	<360	<360	<360	<360	<360

Notes:

1. J = Estimated concentration.
2. A shaded cell indicated concentration exceeds NYSDEC Restricted Use Commercial SCO.
3. Off-site samples compared to Unrestricted Use SCOs.
4. * SB-148A is a duplicate sample

Table 4-1
Monitoring Plan Components
Former Norton/Nashua Tape Products Facility
Watervliet, New York

Event/Sampling Locations	Analytical Parameters	Schedule
Remedial Activities		
Site-Wide Inspection of Engineering Controls	---	Annual
In-Situ Chemical Oxidation (ISCO) Injection Activities	---	Annual
Enhanced Fluid Recovery (EFR) Events	---	Semi-Annual
Groundwater Bio-Supplementation	Nitrate/Phosphate (field kit)	Semi-Annual
Groundwater and Post-Remediation Monitoring		
On-Site ISCO Wells (MP-24, MP-25, MP-26, MP-27, MP-29, MP-37, MW-22, MW-27 and MW-28)	VOCs (EPA Method 8260B)	4 to 6 weeks and 8 to 10 weeks after ISCO injections
On-Site Monitoring Wells (MP-39, MW-12 and MW-15R)	VOCs (EPA Method 8260B)	Semi-Annual
Off-Site Monitoring Wells (MP-6, MP-14, MP-17, MP-19, MP-22, MW-18, and MW-19)	VOCs (EPA Method 8260B)	Annual
Sub-Slab Vapor: DB-VMP-2 (Durham Bus Area)	VOC (EPA Method TO-15)	During active ISCO remediation; When change of use occurs; or When requested by DEC/DOH
Indoor Air: DB-IA-2 (Durham Bus Area)	VOC (EPA Method TO-15)	During active ISCO remediation; When change of use occurs; or When requested by DEC/DOH

Table 4-2
Summary of In-Situ Chemical Oxidation (ISCO) Activities (June 2024)
June 2024 Field Monitoring Data (Injection Data)
Former Norton/Nashua
Watervliet, New York

			Catalyst			Oxidizer			Persulfate			
Date	Injection Point	Screen Interval (feet)	Injection Time (mins)	Volume (gal)	Flow Rate (gpm)	Injection Time (mins)	Volume (gal)	Flow Rate (gpm)	Injection Time (mins)	Volume (gal)	Flow Rate (gpm)	Well Head Pressure (psi)
6/4/24	IP-MP27-02	10-15	34	80	2.35	61	150	2.46				8
6/4/24	IP-MP27-06	10-15	46	80	1.74	142	150	1.06				16
6/4/24	IP-MP27-06	10-15				32	20	0.63				2
6/4/24	IP-MP27-09	10-15	36	80	2.22	111	150	1.35				10
6/4/24	IP-MP27-10	7-12				17	20	1.18				0
6/4/24	IP-MP27-10	10-15	33	80	2.42	85	150	1.76				36
6/4/24	IP-MW28-03	10-15	57	80	1.40	37	40	1.08				0
6/4/24	IP-MW28-04	10-15	62	80	1.29	227	150	0.66				10
6/4/24	IP-MW28-09	10-15	36	80	2.22	53	60	1.13				6
6/4/24	IP-MW28-12	10-15				100	80	0.80				2
6/5/24	IP-MP27-02	7-12	60	80	1.33	116	150	1.29				8
6/5/24	IP-MP27-05	7-12	76	80	1.05	82	75	0.91				6
6/5/24	IP-MP27-05	10-15	50	80	1.60	93	150	1.61				6
6/5/24	IP-MP27-06	7-12	68	80	1.18	85	130	1.53				2
6/5/24	IP-MP27-09	7-12				161	60	0.37				12
6/5/24	IP-MP27-10	7-12				78	60	0.77				2
6/5/24	IP-MW28-03	10-15				107	110	1.03				0
6/5/24	IP-MW28-04	7-12	37	60	1.62	39	60	1.54				0
6/5/24	IP-MW28-08	10-15	55	80	1.45	227	150	0.66				6
6/5/24	IP-MW28-09	7-12	85	80	0.94	126	150	1.19				16
6/5/24	IP-MW28-09	10-15				94	90	0.96				6
6/5/24	IP-MW28-12	10-15	30	80	2.67	74	70	0.95				2
6/6/24	IP-MP27-04	7-12	32	80	2.50	84	150	1.79				6
6/6/24	IP-MP27-04	10-15	82	80	0.98	139	150	1.08				6
6/6/24	IP-MP27-05	7-12				70	75	1.07				8
6/6/24	IP-MP27-08	10-15	86	80	0.93	144	150	1.04				4
6/6/24	IP-MP27-09	7-12	60	80	1.33	75	90	1.20				6
6/6/24	IP-MP27-10	7-12	55	80	1.45	71	70	0.99				2
6/6/24	IP-MP27-11	10-15	45	80	1.78	112	150	1.34				2
6/6/24	IP-MW28-01	10-15	79	80	1.01	138	150	1.09				6

Table 4-2
Summary of In-Situ Chemical Oxidation (ISCO) Activities (June 2024)
June 2024 Field Monitoring Data (Injection Data)
Former Norton/Nashua
Watervliet, New York

			Catalyst			Oxidizer			Persulfate			
Date	Injection Point	Screen Interval (feet)	Injection Time (mins)	Volume (gal)	Flow Rate (gpm)	Injection Time (mins)	Volume (gal)	Flow Rate (gpm)	Injection Time (mins)	Volume (gal)	Flow Rate (gpm)	Well Head Pressure (psi)
6/6/24	IP-MW28-03	7-12	47	80	1.70	142	150	1.06				2
6/6/24	IP-MW28-04	7-12	10	20	2.00	67	90	1.34				0
6/6/24	IP-MW28-07	10-15	55	80	1.45	149	150	1.01				2
6/6/24	IP-MW28-11	10-15	65	80	1.23	184	150	0.82				3
6/6/24	IP-MW28-12	7-12	57	80	1.40	86	150	1.74				6
6/7/24	IP-MP27-01	10-15	46	80	1.74	101	150	1.49				0
6/7/24	IP-MP27-03	10-15	58	80	1.38	97	150	1.55				6
6/7/24	IP-MP27-07	10-15	71	80	1.13	95	150	1.58				4
6/7/24	IP-MP27-08	7-12	46	80	1.74	98	150	1.53				4
6/7/24	IP-MW28-01	7-12	38	80	2.11	73	150	2.05				4
6/7/24	IP-MW28-02	10-15	42	80	1.90	38	60	1.58				4
6/7/24	IP-MW28-05	10-15	34	80	2.35	88	150	1.70				0
6/7/24	IP-MW28-07	7-12	33	80	2.42	38	60	1.58				2
6/7/24	IP-MW28-10	10-15	39	80	2.05	85	150	1.76				0
6/7/24	IP-MW28-11	7-12	37	80	2.16	74	150	2.03				12
6/10/24	IP-MP27-01	7-12	60	80	1.33	104	150	1.44				4
6/10/24	IP-MP27-03	7-12	62	80	1.29	107	150	1.40				2
6/10/24	IP-MP27-07	7-12	56	80	1.43	99	150	1.52				4
6/10/24	IP-MP27-11	7-12	44	80	1.82	155	150	0.97				0
6/10/24	IP-MW28-02	7-12	33	80	2.42	119	150	1.26				2
6/10/24	IP-MW28-02	10-15				68	90	1.32				4
6/10/24	IP-MW28-05	7-12	53	80	1.51	148	150	1.01				10
6/10/24	IP-MW28-06	10-15	54	80	1.48	117	150	1.28				2
6/10/24	IP-MW28-07	7-12				64	90	1.41				4
6/10/24	IP-MW28-10	7-12	45	80	1.78	100	150	1.50				2
6/11/24	IP-MW28-06	7-12	46	80	1.74	126	150	1.19				2
6/11/24	IP-MW28-08	7-12	51	80	1.57	134	150	1.12				2

Table 4-2
Summary of In-Situ Chemical Oxidation (ISCO) Activities (June 2024)
June 2024 Field Monitoring Data (Injection Data)
Former Norton/Nashua
Watervliet, New York

			Catalyst			Oxidizer			Persulfate			
Date	Injection Point	Screen Interval (feet)	Injection Time (mins)	Volume (gal)	Flow Rate (gpm)	Injection Time (mins)	Volume (gal)	Flow Rate (gpm)	Injection Time (mins)	Volume (gal)	Flow Rate (gpm)	Well Head Pressure (psi)
6/11/24	IP-MP27-10	10-15							106	225	2.12	0
6/11/24	IP-MP27-09	10-15							113	225	1.99	0
6/11/24	IP-MW28-12	10-15							124	225	1.81	2
6/11/24	IP-MW28-09	10-15							85	225	2.65	0
6/11/24	IP-MP27-06	10-15							111	225	2.03	2
6/11/24	IP-MP27-05	10-15							96	225	2.34	18
6/11/24	IP-MP27-10	7-12							111	225	2.03	0
6/11/24	IP-MP27-09	7-12							132	225	1.70	20
6/11/24	IP-MW28-03	10-15							84	225	2.68	8
6/11/24	IP-MW28-04	10-15							90	225	2.50	4
6/11/24	IP-MW28-08	10-15							98	225	2.30	6
6/11/24	IP-MW28-02	10-15							92	225	2.45	12
6/11/24	IP-MP27-06	7-12							29	60	2.07	0
6/11/24	IP-MP27-05	7-12							40	90	2.25	8
6/11/24	IP-MW28-12	7-12							90	225	2.50	0
6/12/24	IP-MP27-06	7-12							88	165	1.88	0
6/12/24	IP-MP27-05	7-12							54	135	2.50	14
6/12/24	IP-MW28-02	7-12							84	225	2.68	12
6/12/24	IP-MW28-03	7-12							94	225	2.39	
6/12/24	IP-MW28-04	7-12							85	225	2.65	2
6/12/24	IP-MW28-08	7-12							92	225	2.45	6
6/12/24	IP-MW28-09	7-12							87	225	2.59	2
6/12/24	IP-MP27-08	10-15							124	225	1.81	6
6/12/24	IP-MP27-11	10-15							86	225	2.62	0
6/12/24	IP-MW28-07	10-15							88	225	2.56	
6/12/24	IP-MP27-03	10-15							84	225	2.68	4
6/12/24	IP-MP27-04	10-15							80	225	2.81	2
6/12/24	IP-MP27-11	7-12							89	225	2.53	8
6/12/24	IP-MP27-03	7-12							106	225	2.12	0
6/12/24	IP-MP27-08	7-12							96	225	2.34	4

Table 4-2
Summary of In-Situ Chemical Oxidation (ISCO) Activities (June 2024)
June 2024 Field Monitoring Data (Injection Data)
Former Norton/Nashua
Watervliet, New York

			Catalyst			Oxidizer			Persulfate			
Date	**Injection Point**	**Screen Interval (feet)**	**Injection Time (mins)**	**Volume (gal)**	**Flow Rate (gpm)**	**Injection Time (mins)**	**Volume (gal)**	**Flow Rate (gpm)**	**Injection Time (mins)**	**Volume (gal)**	**Flow Rate (gpm)**	**Well Head Pressure (psi)**
6/12/24	IP-MW28-01	10-15							121	225	1.86	30
6/12/24	IP-MW28-05	10-15							98	225	2.30	4
6/12/24	IP-MW28-11	10-15							80	225	2.81	4
6/12/24	IP-MP27-04	7-12							90	225	2.50	2
6/12/24	IP-MW28-06	10-15							94	225	2.39	6
6/13/24	IP-MW28-10	10-15							80	225	2.81	12
6/13/24	IP-MP27-02	10-15							120	225	1.88	0
6/13/24	IP-MP27-01	10-15							122	225	1.84	8
6/13/24	IP-MW28-07	7-12							83	225	2.71	4
6/13/24	IP-MW28-05	7-12							77	225	2.92	0
6/13/24	IP-MW28-06	7-12							98	225	2.30	0
6/13/24	IP-MW28-10	7-12							84	225	2.68	2
6/13/24	IP-MW28-11	7-12							90	225	2.50	0
6/13/24	IP-MW28-01	7-12							94	225	2.39	4
6/13/24	IP-MP27-01	7-12							88	225	2.56	2
6/13/24	IP-MP27-02	7-12							101	225	2.23	4
6/13/24	IP-MP27-07	10-15							112	225	2.01	2
6/13/24	IP-MP27-07	7-12							96	225	2.34	0
Total Volume/Average Flow				**3,680**	**1.67**		**6,900**	**1.28**		**10,350**	**2.36**	
Total Volume Injected			**20,930**									

Notes:

1. Catalyst: ISOTEC Cat-4260; Oxidizer (H2O2): 10% Concentration; Sodium Persulfate: 10% Concentration
2. gpm = gallons per minute; psi = pounds per square inch.

Table 4-3
Summary of 2024 Bio-Supplementation and Enhanced Fluid Recovery (EFR) Data
Former Norton/Nashua Tape Products Facility
Watervliet, New York

Well	Pre-EFR Measurements						EFR					Post-EFR Measurements					
	Date	PID (ppm)	DTW (ft)	Nitrate (mg/L)	Phosphate (mg/L)	Nutrient Dosing	Date	vac GW (min)	vac Well (Hr)	Total Time EFR (Hr)	GW Extracted (gal)	**Date**	PID (ppm)	DTW (ft)	Nitrate (mg/L)	Phosphate (mg/L)	Nutrient Dosing
MP-23	12/5/2023	0.5	9.20	8.0	25.0	No	---	---	---	---	---	12/7/2023	0.1	9.2	1.0	25.0	Yes-N
MP-24	12/5/2023	0.3	9.18	1.0	25.0	Yes-N	---	---	---	---	---	12/7/2023	0.1	9.2	15.0	20.0	No
MW-20	12/5/2023	0.1	9.70	4.0	15.0	No	---	---	---	---	---	12/7/2023	0.5	9.6	1.0	20.0	Yes-N
MW-26	12/5/2023	43.0 ↑	8.00	2.0	15.0	No	---	---	---	---	---	12/7/2023	33.6	7.99	6.0	15.0	No
MW-37R	12/5/2023	0.2	9.60	6.0	20.0	No	---	---	---	---	---	12/7/2023	551.6	9.55	1.0	20.0	Yes-N
MP-25	12/5/2023	0.5	9.21	1.0	35.0	---	12/5/2023	15	3.417	3.667	535	12/7/2023	0.1	9.20	1.0	30.0	---
MP-26	12/5/2023	0.7	9.75	1.0	35.0	---	12/6/2023	15	2.883	3.13	149	12/7/2023	3.6	9.71	1.0	30.0	---
MP-27	12/5/2023	0.8 ↑	9.76	1.0	40.0	---	12/6/2023	15	1	1.25	28	12/7/2023	3.2	9.73	2.0	50.0	---
MP-29	12/5/2023	171.4	9.76	0.0	10.0	---	12/6/2023	10	1	1.167	417	12/7/2023	111.7	9.73	1.0	20.0	---
MP-37	12/5/2023	201.8 ↑	9.81	1.0	10.0	---	12/6/2023	---	1.333	1.333	507	12/7/2023	505.0 ↑	9.77	1.0	25.0	---
MW-28	12/5/2023	0.0	9.10	1.0	40.0	---	12/5/2023	15	1	1.25	88	12/7/2023	0.6	9.09	2.0	35.0	---
MW-27	12/5/2023	55.0 ↑	8.23	1.0	15.0	---	---	---	---	---	---	12/7/2023	107.3	8.23	---	---	---
MP-28	12/5/2023	2.6	9.78	---	---	---	---	---	---	---	---	12/7/2023	14.8	9.74	---	---	---
MP-30	12/5/2023	1.1	9.69	---	---	---	---	---	---	---	---	12/7/2023	19.4	9.63	---	---	---
MP-31	12/5/2023	0.9	9.75	---	---	---	---	---	---	---	---	12/7/2023	19.6	9.72	---	---	---
MP-39	12/5/2023	NM	NM	---	---	---	---	---	---	---	---	12/7/2023	0.2	9.87	---	---	---
MW-22	12/5/2023	0.4	9.33	---	---	---	---	---	---	---	---	12/7/2023	60.8	9.32	---	---	---
MW-24	12/5/2023	0.6	9.69	---	---	---	---	---	---	---	---	12/7/2023	59.0	9.67	---	---	---
MP-23	1/24/2024	39.0 ↑	9.01	15.0	30.0	No	---	---	---	---	---	1/26/2024	3.9	8.73	15.0	25.0	No
MP-24	1/24/2024	1.1	9.03	15.0	15.0	No	---	---	---	---	---	1/26/2024	10.4	8.74	10.0	30.0	No
MW-20	1/24/2024	1.6	9.49	8.0	20.0	No	---	---	---	---	---	1/26/2024	30.4	9.21	8.0	20.0	No
MW-26	1/25/2024	109.2	7.81	1.0	15.0	Yes-N	---	---	---	---	---	1/26/2024	119.5 ↑	7.32	15.0	30.0	No
MW-37R	1/25/2024	135.5	9.41	4.0	40.0	No	---	---	---	---	---	1/26/2024	330.0	9.23	2.0	25.0	No
MP-25	1/25/2024	1.3	9.04	1.0	35.0	---	1/25/2024	15	2.25	2.50	643	1/26/2024	11.6	8.81	2.0	80.0	---
MP-26	1/24/2024	3.9 ↑	9.57	2.0	40.0	---	1/26/2024	15	2.92	3.17	150	1/26/2024	29.4 ↑	9.37	1.0	75.0	---
MP-27	1/24/2024	4.7	9.62	2.0	70.0	---	1/26/2024	10	1.42	1.58	76	1/26/2024	9.5 ↑	9.45	1.0	70.0	---
MP-29	1/24/2024	4.7	9.62	1.0	25.0	---	1/26/2024	10	1.00	1.17	412	1/26/2024	283.3 ↑	9.32	1.0	25.0	---
MP-37	1/25/2024	226.6	9.61	1.0	30.0	---	1/25/2024	NA	0.75	0.75	264	1/26/2024	567.4	9.50	2.0	30.0	---
MW-28	1/25/2024	2.7 ↑	8.93	1.0	55.0	---	1/25/2024	10	1.25	1.42	148	1/26/2024	38.1 ↑	8.72	1.0	75.0	---

Table 4-3
Summary of 2024 Bio-Supplementation and Enhanced Fluid Recovery (EFR) Data
Former Norton/Nashua Tape Products Facility
Watervliet, New York

Well	Pre-EFR Measurements						EFR					Post-EFR Measurements					
	Date	PID (ppm)	DTW (ft)	Nitrate (mg/L)	Phosphate (mg/L)	Nutrient Dosing	Date	vac GW (min)	vac Well (Hr)	Total Time EFR (Hr)	GW Extracted (gal)	**Date**	PID (ppm)	DTW (ft)	Nitrate (mg/L)	Phosphate (mg/L)	Nutrient Dosing
MW-27	1/25/2024	95.0 ↑	8.05	1.0	15.0	---	---	---	---	---	---	1/26/2024	100.3 ↑	7.31	---	---	---
MP-28	1/25/2024	1.8	9.60	---	---	---	---	---	---	---	---	1/26/2024	43.0	9.37	---	---	---
MP-30	1/25/2024	1.4	9.50	---	---	---	---	---	---	---	---	1/26/2024	36.9	9.29	---	---	---
MP-31	1/25/2024	2.8	9.59	---	---	---	---	---	---	---	---	1/26/2024	62.1	9.33	---	---	---
MP-39	1/25/2024	0.0	9.71	---	---	---	---	---	---	---	---	1/26/2024	3.8	9.34	---	---	---
MW-22	1/25/2024	3.5	9.16	---	---	---	---	---	---	---	---	1/26/2024	23.6	8.95	---	---	---
MW-24	1/25/2024	2.2	9.53	---	---	---	---	---	---	---	---	1/26/2024	31.1	9.12	---	---	---
MW-20	3/15/2024	NM	NM	0.0	10.0	Yes-N	---	---	---	---	---	---	---	---	---	---	---
MW-26	3/15/2024	NM	NM	0.0	5.0	Yes-N	---	---	---	---	---	---	---	---	---	---	---
MP-23	3/15/2024	NM	NM	0.0	10.0	Yes-N	---	---	---	---	---	---	---	---	---	---	---
MP-24	3/15/2024	NM	NM	NM	NM	No	---	---	---	---	---	---	---	---	---	---	---
MW-37R	3/15/2024	NM	NM	0.0	5.0	Yes-N	---	---	---	---	---	---	---	---	---	---	---
MW-26	6/13/2024	NM	NM	4.0	60.0	No	---	---	---	---	---	---	---	---	---	---	---
MW-37R	6/13/2024	NM	NM	6.0	50.0	No	---	---	---	---	---	---	---	---	---	---	---
MP-23	11/12/2024	42.2	9.80	0.0	20.0	Yes-N	---	---	---	---	---	11/13/2024	0.1	NM	10.0	5.0	No
MP-24	11/12/2024	0.3	9.90	0.0	20.0	Yes-N	---	---	---	---	---	11/13/2024	0.0	NM	10.0	20.0	No
MW-20	11/12/2024	0.3	10.38	0.0	20.0	Yes-N	---	---	---	---	---	11/13/2024	0.0	NM	10.0	5.0	No
MW-26	11/12/2024	32.7	8.73	0.0	10.0	Yes-N	---	---	---	---	---	11/13/2024	NM	NM	NM	NM	---
MW-37R	11/12/2024	NM	NM	0.0	15.0	Yes-N	---	---	---	---	---	11/13/2024	NM	NM	NM	NM	---
MP-25	11/12/2024	0.2	9.91	0.0	10.0	---	11/13/2024	10	1.83	2.0	139	11/13/2024	0.0	NM	0.0	40.0	---
MP-26	11/12/2024	0.3	10.44	0.0	20.0	---	11/12 & 13/2024	25	3.25	3.67	89	11/13/2024	0.0	NM	0.0	25.0	---
MP-27	11/12/2024	0.2	10.50	0.0	0.0	---	11/12/2024	15	1.0	1.25	43	11/13/2024	0.0	NM	0.0	30.0	---
MP-29	11/12/2024	22.0	10.42	0.0	20.0	---	11/12/2024	10	1.5	1.67	530	11/13/2024	2.5	NM	0.0	10.0	---
MP-39	11/12/2024	NM	NM	NM	NM	---	11/13/2024	10	1.00	1.17	47	11/13/2024	0.0	NM	0.0	10.0	---

Table 4-3
Summary of 2024 Bio-Supplementation and Enhanced Fluid Recovery (EFR) Data
Former Norton/Nashua Tape Products Facility
Watervliet, New York

Well	Pre-EFR Measurements						EFR					Post-EFR Measurements					
	Date	PID (ppm)	DTW (ft)	Nitrate (mg/L)	Phosphate (mg/L)	Nutrient Dosing	Date	vac GW (min)	vac Well (Hr)	Total Time EFR (Hr)	GW Extracted (gal)	Date	PID (ppm)	DTW (ft)	Nitrate (mg/L)	Phosphate (mg/L)	Nutrient Dosing
MP-23	12/9/2024	---	---	4.0	30.00	No	---	---	---	---	---	12/10/2024	---	---	15.0	30.0	No
MP-24	12/9/2024	---	---	1.0	30.00	Yes-N	---	---	---	---	---	12/10/2024	---	---	10.0	30.0	No
MW-20	12/9/2024	---	---	1.0	35.00	Yes-N	---	---	---	---	---	12/10/2024	---	---	10.0	30.0	No
MW-24	12/10/2024	---	---	0.0	30.00	Yes-N	---	---	---	---	---	12/10/2024	---	---	8.0	30.0	No
MW-26	12/9/2024	---	---	0.0	20.00	Yes-N	---	---	---	---	---	12/10/2024	---	---	NM	NM	No
MW-37R	12/10/2024	---	---	0.0	30.00	Yes-N	---	---	---	---	---	12/10/2024	---	---	NM	NM	No
MP-25	12/9/2024	---	---	0.0	35.00	---	12/9/2024	16	1.9	2.2	273	12/10/2024	---	---	0.0	35.0	---
MP-26	12/9/2024	---	---	0.0	0.00	---	12/10/2024	10	1.8	2.0	47	12/10/2024	---	---	0.0	30.0	---
MP-27	12/9/2024	---	---	0.0	0.00	---	12/10/2024	10	1.75	1.9	92	12/10/2024	---	---	0.0	10.0	---
MP-29	12/9/2024	---	---	0.0	30.00	---	12/9/2024	3	1.5	1.6	845	12/10/2024	---	---	0.0	30.0	---
MP-39	12/9/2024	---	---	NM	NM	---	12/10/2024	5	2.2	2.3	125	12/10/2024	---	---	0.0	30.0	---
MW-28	12/9/2024	---	---	0.0	30.00	---	12/9/2024	10	1.9	2.0	278	12/10/2024	---	---	0.0	30.0	---
MP-37	12/10/2024	---	---	0.0	35.00	---	---	---	---	---	---	12/10/2024	---	---	---	---	---
MW-27	12/9/2024	---	---	0.0	20.00	---	---	---	---	---	---	12/10/2024	---	---	---	---	---

Notes:
1. **MP-25** = EFR Well; **MP-23** = Nutrient Dosing Well
2. NA = Not Applicable; NM = Not Measured; ND = Not Detected; N = Nitrate; P = Phosphate

Table 4-4
Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs)
Former Norton/Nashua - Watervliet, New York

Sample Designation	Date	Acetone (µg/L)	Benzene (µg/L)	Chloroform (µg/L)	Cyclohexane (µg/L)	Ethylbenzene (µg/L)	Methyl Cyclohexane (µg/L)	Methylene Chloride (µg/L)	Toluene (µg/L)	Heptane (µg/L)	o-Xylenes (µg/L)	m,p- Xylenes (µg/L)	Notes
NYS Standard/Guidance Value		*50*	*1*	*7*	*NS*	*5*	*NS*	*5*	*5*	*NS*	*5*	*5*	
ON-SITE MONITORING WELL/POINTS													
MW-12	2/19/2004	<10	<5	<5	<5	<5	<5	**9 B**	**6**	<10	<5	<5	
	6/15/2004	<10	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	
	6/23/2005	**10 JB**	<10	<10	<10	<10	<10	<10	3 J	<10	<10	<10	
	8/21/2006	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	3/14/2007	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	9/20/2007	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	3/27/2008	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	8/27/2008	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	4/8/2009	<10	<5	<5	<5	<5	<5	<5	**15**	<10	<5	<5	
	6/1/2009	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
	6/1/2009	<10	<5	<5	<5	<5	<5	**7.0 B**	<5	<5	<5	<5	
	6/3/2014	<6	<0.5	<0.5	<2	<0.5	<1	<2	**19**	<2	<0.5	<0.5	1,2-Dichloropropane - 0.6 J µg/L
	8/27/2014	<6	<0.5	<0.5	<2	<0.5	<1	<2	**100**	<2	<0.5	<0.5	1,2-Dichloropropane - 0.5 J µg/L
	10/21/2014	<6	<0.5	<0.5	<2	<0.5	<1	<2	**110/91**	<2	<0.5	<0.5	1,2-Dichloropropane - 0.7 J µg/L
	12/11/2014	<6	<0.5	<0.5	<2	<0.5	<1	<2	**0.8 J**	<2	<0.5	<0.5	1,2-Dichloropropane - 0.5 J µg/L
	8/13/2015	<6	<0.5	<0.5	<2	<0.5	<1	<2	**2**	<2	<0.5	<0.5	1,2-Dichloropropane - 0.6 J µg/L
	1/6/2016	<6	<0.5	<0.5	<2	<0.5	<1	<2	**9**	<2	<0.5	<0.5	1,2-Dichloropropane - 0.7 J µg/L
	7/12/2016	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	4/25/2017	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	1,2-dichloropropane - 0.7 J µg/L
	11/14/2017	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	9/12/2018	<0.7	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	**2**	<0.2	<0.4	<1	
	12/6/2018	<0.7	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.2	<0.4	<1	1,2-dichloropropane - 0.3 J µg/L
	4/30/2019	<0.7	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.2	<0.4	<1	
	9/12/2019	<10	<5.0	<5.0	<10	<5.0	<10	<5.0	**28**	<5.0	<5.0	<5.0	
	11/20/2019	<10	<5.0	<5.0	<10	<5.0	<10	<5.0	**0.49 J**	<5.0	<5.0	<5.0	
	7/14/2020	<5.0 R	<0.20 R	<0.24R	<0.26 R	<0.20 R	<0.20 R	<0.65 R	**17 J**	<0.26 R	<0.20 R	<0.20R	
	10/12/2020	<10	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	Chloromethane - <5.0 µg/L
	4/20/2021	<10	<5.0	<5.0	<10	<5.0	<10	<5.0	**0.50 J**	<5.0	<5.0	<5.0	1,2-dichloropropane - 0.24 J µg/L
	10/21/2021	<10	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	1,2-dichloropropane - 0.23 J µg/L, Carbon Disulfide - 0.57 J µg/L
	4/26/2022	<10	<5.0	<5.0	<10	<5.0	<10	<5.0	**0.22 BJ**	<5.0	<5.0	<5.0	
	7/19/2022	<10	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	
	5/22/2023	<10 J	<5.0 J	<5.0 J	<10 J	<5.0	<10 J	<5.0 J	**1.5 J**	<5.0 J	<5.0 J	<5.0 J	
	11/1/2023	<10 J	<5.0 J	<5.0 J	<10 J	<5.0 J	<10 J	<5.0 J	**5.0 J**	<5.0 J	<5.0 J	<5.0 J	1,2-dichloropropane - 0.26 J µg/L
	8/1/2024	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.49 J**	<1.0	<1.0	<1.0	1,2-dichloropropane - 0.24 J µg/L
	10/23/2024	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	

Table 4-4
Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs)
Former Norton/Nashua - Watervliet, New York

Sample Designation	Date	Acetone (µg/L)	Benzene (µg/L)	Chloroform (µg/L)	Cyclohexane (µg/L)	Ethylbenzene (µg/L)	Methyl Cyclohexane (µg/L)	Methylene Chloride (µg/L)	Toluene (µg/L)	Heptane (µg/L)	o-Xylenes (µg/L)	m,p- Xylenes (µg/L)	Notes
NYS Standard/Guidance Value		***50***	***1***	***7***	***NS***	***5***	***NS***	***5***	***5***	***NS***	***5***	***5***	
MW-15R	4/29/2015	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
(Dup.)	4/29/2015	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	8/13/2015	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	3/15/2016	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	7/12/2016	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	4/25/2017	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	11/14/2017	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	9/12/2018	<0.7	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.2	<0.4	<1	
	12/6/2018	<0.7	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	0.3 J	<0.2	<0.4	<1	
	4/30/2019	<0.7	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.2	<0.4	<1	
	9/12/2019	<10	<5.0	<5.0	<10	<5.0	<10	<5.0	0.67 J	<5.0	<5.0	<5.0	
	11/20/2019	<10	<5.0	<5.0	<10	<5.0	<10	<5.0	28	<5.0	<5.0	<5.0	
	8/11/2020	<10	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	
	10/12/2020	<10	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	Chloromethane - <5.0 µg/L
	4/20/2021	<10	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	
	10/21/2021	<10	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	
	4/26/2022	<10	<5.0	<5.0	<10	<5.0	<10	<5.0	0.21 BJ	<5.0	<5.0	<5.0	
	7/19/2022	<10	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	
	5/22/2023	<10 J	<5.0 J	<5.0 J	<10 J	<5.0 J	<10 J	<5.0	4.4 J	<5.0 J	<5.0 J	<5.0 J	
	11/1/2023	<10 J	<5.0 J	<5.0 J	<10 J	<5.0 J	<10 J	<5.0 J	<5.0 J	<5.0 J	<5.0 J	<5.0 J	
	2/21/2024	<10	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
	10/22/2024	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	

Table 4-4
Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs)
Former Norton/Nashua - Watervliet, New York

Sample Designation	Date	Acetone (µg/L)	Benzene (µg/L)	Chloroform (µg/L)	Cyclohexane (µg/L)	Ethylbenzene (µg/L)	Methyl Cyclohexane (µg/L)	Methylene Chloride (µg/L)	Toluene (µg/L)	Heptane (µg/L)	o-Xylenes (µg/L)	m,p- Xylenes (µg/L)	Notes
NYS Standard/Guidance Value		***50***	***1***	***7***	***NS***	***5***	***NS***	***5***	***5***	***NS***	***5***	***5***	
MW-22	5/10/2011	<10000 J	<5000 J	<5000 J	<5000 J	<5000 J	<5000 J	<5000 J	120,000 J	<10000 J	<5000 J	<5000 J	
	7/27/2011	<4300	<2500	<2500	<2500	<2500	<2500	<5000	63,000	<5000	<2500	<2500	
	7/27/2011	<4000	<2500	<2500	<2500	<2500	<2500	<4400	59,000	<5000	<2500	<2500	
	10/20/2011	2,500 J	<2500	<2500	<2500	<2500	<2500	1,800 J	45,000	<5000	<2500	<2500	
	12/8/2011	3,400 J	<2500	<2500	<2500	<2500	<2500	2,200 JB	40,000	<5000	<2500	<2500	
	2/21/2012	2,100 J	<1200	<1200	<1200	<1200	<1200	1,000 JB	40,000	<2500	<1200	<1200	
	5/3/2012	1,900 J	<1200	<1200	<1200	<1200	<1200	<1200	35,000	<2500	<1200	<1200	
	7/18/2012	<2000	<1000	<1000	<1000	<1000	<1000	<1000	30,000	<2000	<1000	<1000	
	11/29/2012	<2500	<1200	<1200	<1200	<1200	400 J	<1200	22,000	<2500	<1200	<1200	
	2/6/2013	<100	<50	<50	<50	<50	<50	<50	1,500	<100	<50	<50	
	4/16/2013	<120	16 J	<16	<40	<16	<20	<40	20,000	<40	<16	<16	
	6/4/2013	<60	10 J	<8	<20	<8	<10	<20	15,000	<20	<8	<8	
	12/10/2013	<60	23 J	<8	<20	<8	19 J	<20	20,000	<20	<8	<8	
	6/3/2014	<300	<25	<25	<100	<25	<50	<100	21,000	<100	<25	<25	
	8/27/2014	<6	10	<0.5	3 J	3	19	<2	3,500	<2	3	0.5 J	Chlorobenzene - 0.9 J µg/L
	10/21/2014	<10	43	<10	<40	10 J	77 J	<40	21,000	<40	<10	13 J	
	3/3/2015	<6	5	<0.5	3 J	2	20	<2	4,400	3 J	<0.5	2	Chlorobenzene - 0.7 J µg/L
	3/3/2015	<6	5	<0.5	3 J	2	21	<2	3,600	3 J	<0.5	2	Chlorobenzene - 0.7 J µg/L
	4/28/2015	<6	4	<0.5	2 J	0.9 J	16	<2	3,200	<2	<0.5	1	
	8/13/2015	<12	7	<1	<4	2 J	21	<4	4,000	<4	<1	2	
	4/28/2015	<6	4	<0.5	2 J	0.9 J	16	<2	3,200	<2	<0.5	1	
	8/13/2015	<12	7	<1	<4	2 J	21	<4	4,000	<4	<1	2	
	11/4/2015	<6	6	0.7 J	3 J	2	22	<4	2,200	3 J	<1	2	Chlorobenzene - 0.7 J µg/L
	11/4/2015	<12	5	<1	<4	1 J	18	<4	2,700	<4	<1	1 J	
	1/6/2016	<6	10	<0.5	5 J	1 J	32	<2	530	<2	<0.5	1 J	
	3/14/2016	<12	5	<1	<4	<1	14	<4	2,300	<4	<1	1 J	
	5/10/2016	<30	3 J	<3	<10	<3	9 J	<10	1,600	<10	<3	<3	
	5/10/2016	<12	3	<1	<4	<1	9 J	<4	1,500	<4	<1	<1	

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Former Norton/Nashua - Watervliet, New York

Sample Designation	Date	Acetone (µg/L)	Benzene (µg/L)	Chloroform (µg/L)	Cyclohexane (µg/L)	Ethylbenzene (µg/L)	Methyl Cyclohexane (µg/L)	Methylene Chloride (µg/L)	Toluene (µg/L)	Heptane (µg/L)	o-Xylenes (µg/L)	m,p- Xylenes (µg/L)	Notes
NYS Standard/Guidance Value		***50***	***1***	***7***	***NS***	***5***	***NS***	***5***	***5***	***NS***	***5***	***5***	
MW-22	6/13/2016	<6	2	<0.5	<2	<0.5	8	<2	710	<2	<0.5	<0.5	
(Cont.)	7/12/2016	<6	0.7 J	<0.5	<2	<0.5	7	<2	270	<2	<0.5	<0.5	
	7/12/2016	<6	0.8 J	<0.5	<2	<0.5	8	<2	320	<2	<0.5	<0.5	
	8/2/2016	<6	8	<0.5	<2	<0.5	6 J	<2	3,200	<2	<0.5	<0.5	
	8/2/2016	<6	7	<0.5	<2	<0.5	6 J	<2	3,000	<2	<0.5	<0.5	
	9/19/2016	<6	4	<0.5	3 J	0.7 J	16	<2	810	3 J	1 J	<0.5	
	9/19/2016	<6	4	<0.5	3 J	0.6 J	16	<2	790	3 J	1 J	<0.5	
	11/15/2016	<12	6	<0.5	<4	<1	10 J	<4	1,300	<4	<1	<1	
	11/15/2016	<12	6	<0.5	<4	<1	8 J	<4	1,200	<4	<1	<1	
	4/26/2017	<6	1	<0.5	<2	<0.5	7	<2	45	<2	<0.5	<0.5	
	11/15/2017	<30	<3	<3	<10	<3	<5	<3	250	<10	<3	<3	
	7/17/2018	<6	<0.5	<0.5	<2	<0.5	4 J	<0.5	10	<2	<0.5	<0.5	
	9/11/2018	<0.7	0.2 J	<0.2	<0.2	<0.4	2 J	<0.3	<0.2	<0.2	<0.4	<1	
	7/17/2019	<11 R	3.4 J	<1.2 R	<1.3 R	<1.0 R	13 J	<25 R	740 J	<1.3 R	<1.0 R	1.5 J R	
	9/12/2019	<500	20 J	17 J	<500	<250	20 J	<250	6,200	<250	<250	<250	
	11/20/2019	<500	29 J	<250	<500	<250	27 J	<250	14,000 D	<250	<250	12 J	
	7/14/2020	<5.0 R	16 J	<0.24 R	1.8 J	0.80 J	11 J	<0.65 R	85 J	<0.26 R	0.35 J	1.3 J	Chlorobenzene - 0.73 J µg/L
	8/10/2020	5.0 J	7.7	<5.0	1.1 J	<5.0	5.1 J	<5.0	130 D	<5.0	0.24 J	0.84 J	Chlorobenzene - 0.30 J µg/L
	4/19/2021	<10	<5.0	<5.0	<10	<5.0	0.76 J	<5.0	0.29 J	<5.0	<5.0	<5.0	2-butanone - 0.81 J µg/L
	7/28/2021	<10	<5.0	<5.0	<10	<5.0	2.4 J	<5.0	<5.0	<5.0	<5.0	<5.0	
	4/26/2022	<10	<5.0	<5.0	<10	<5.0	2.3 J	<5.0	<5.0	<5.0	<5.0	<5.0	
	7/19/2022	<10	<5.0	<5.0	<10	<5.0	1.6 J	<5.0	<5.0	<5.0	<5.0	<5.0	
	8/31/2022	<20	1.5 J	<10	<20	<10	1.4 J	<10	220 D	<10	<10	<10	2-butanone - <20 µg/L
	5/23/2023	<10	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	
	11/1/2023	<10 J	<5.0 J	<5.0 J	<10 J	<5.0 J	<10 J	<5.0 J	<5.0 J	<5.0 J	<5.0 J	<5.0 J	
	2/21/2024	<10	<5.0	<5.0	<10	<5.0	2.0 J	<5.0	<5.0	<5.0	<5.0	<5.0	
	10/23/2024	<5.0	**1.4**	<1.0	**1.4**	<1.0	**5.6**	<1.0	**330 D**	**0.47 J**	<1.0	<2.0	Chlorobenzene - 0.42 J µg/L

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Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs)
Former Norton/Nashua - Watervliet, New York

Sample Designation	Date	Acetone (µg/L)	Benzene (µg/L)	Chloroform (µg/L)	Cyclohexane (µg/L)	Ethylbenzene (µg/L)	Methyl Cyclohexane (µg/L)	Methylene Chloride (µg/L)	Toluene (µg/L)	Heptane (µg/L)	o-Xylenes (µg/L)	m,p- Xylenes (µg/L)	Notes
NYS Standard/Guidance Value		*50*	*1*	*7*	*NS*	*5*	*NS*	*5*	*5*	*NS*	*5*	*5*	
MW-27	7/25/2011	<31000	<10000	**6,200 J**	<10000	<10000	<10000	<10000	**260,000**	<20000	<10000	<10000	
	10/19/2011	**11,000 J**	<10000	<10000	<10000	<10000	<10000	**7,300 J**	**160,000**	<20000	<10000	<10000	
	12/8/2011	**14,000 J**	<10000	<10000	<10000	<10000	<10000	**8,800 JB**	**210,000**	<20000	<10000	<10000	
	2/23/2012	**8,800 JB**	<10000	<10000	<10000	<10000	<10000	**6,600 JB**	**180,000**	<20000	<10000	<10000	
	5/4/2012	**6,400 JB**	<5000	<5000	<5000	<5000	<5000	**6,000**	**100,000**	<10000	<5000	<5000	
	7/18/2012	<10000	<5000	<5000	<5000	<5000	<5000	<5000	**110,000**	<10000	<5000	<5000	2-Butanone - 2,700 J µg/L
	2/5/2013	<5000	<2500	<2500	<2500	<2500	<2500	<2500	**67,000**	<5000	<2500	<2500	
	4/17/2013	<300	**37 J**	<40	<100	**50 J**	**99 J**	<100	**95,000**	<100	**42 J**	**140 J**	
	6/5/2013	<300	**100 J**	<40	<100	**69 J**	**74 J**	<100	**110,000**	<100	**64 J**	**210 J**	
	12/10/2013	<300	**31 J**	<40	<100	**87 J**	**140 J**	<100	**110,000**	<100	**82 J**	**240 J**	
	6/3/2014	<600	<50	<50	<200	**110**	**100 J**	<200	**150,000**	<200	**90 J**	<50	
	8/27/2014	<300	**28 J**	<25	<100	**130**	**150 J**	<100	**140,000**	<100	**110**	**360**	
	10/21/2014	<300	**34 J**	<25	<100	**92**	**110 J**	<100	**150,000**	<100	**78**	**270**	
	12/10/2014	<300	<25	<25	<100	**99**	**310**	<100	**48,000**	<100	**84**	**320**	
	12/10/2014	<300	<25	<25	<100	**100**	**300**	<100	**52,000**	<100	**85**	**320**	
	4/29/2015	<300	<25	<25	<100	**57**	**53 J**	<100	**110,000**	<100	**39 J**	**150**	
	8/13/2015	<300	<25	<25	<100	**72**	**130 J**	<100	**70,000**	<100	**56**	**200**	
	11/4/2015	<3000	<250	<250	<1000	<250	<500	<1000	**110,000**	<1000	<250	<250	
	1/6/2016	<300	<25	<25	<100	<25	**120 J**	<100	**67,000**	<100	**46 J**	**220**	
	3/15/2016	**350**	**57**	<5	**95**	**120**	**350**	<20	**110,000**	<20	**110**	**450**	2-Butanone - 69 J µg/L; carbon disulfide - 24 J µg/L; chloromethane - 12 J µg/L
	4/14/2016	<600	<50	<50	<200	<50	<100	<200	**35,000**	<200	<50	**120**	
	5/10/2016	<120	**19 J**	<10	42 J	**33**	<40	**91 J**	**11,000**	<40	**28**	**110**	
	6/13/2016	<60	**17**	<5	68	**52**	**130**	<20	**19,000**	**26 J**	**48**	**190**	
	7/12/2016	<120	<10	<10	<40	**15 J**	**33 J**	<40	**9,900**	<40	<10	**41**	
	8/2/2016	<120	**11 J**	<10	<10	**70**	**150**	<40	**32,000**	**47 J**	**61**	**220**	
	9/19/2016	<6	**5**	<0.5	14	**12**	**43**	<2	**900**	**8**	**33**	**8**	
	11/14/2016	<6	**3**	<0.5	<2	**7**	**21**	<2	**550**	**19**	**10**	**3**	
	4/25/2017	<300	<25	<25	<100	**57**	<50	<100	**40,000**	<100	**44 J**	**150**	
	11/14/2017	<120	<10	<10	<40	**43**	**34 J**	<10	**38,000**	<40	**36**	**120**	
	11/14/2017	<120	<10	<10	<40	**42**	**38 J**	<10	**38,000**	<40	**34**	**120**	
	2/27/2018	17 J	**6**	<1	46	**63**	**170**	<1	**13,000**	**33**	**42**	**150**	cis-1,2-DCE - 1 J µg/L
	7/16/2018	<60	**8 J**	<5	29 J	**34**	**96**	<5	**8,100**	<20	**16**	**76**	
	7/16/2018	<60	**8 J**	<5	34 J	**42**	**99**	<5	**7,700**	**34 J**	**21**	**90**	

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Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs)
Former Norton/Nashua - Watervliet, New York

Sample Designation	Date	Acetone (µg/L)	Benzene (µg/L)	Chloroform (µg/L)	Cyclohexane (µg/L)	Ethylbenzene (µg/L)	Methyl Cyclohexane (µg/L)	Methylene Chloride (µg/L)	Toluene (µg/L)	Heptane (µg/L)	o-Xylenes (µg/L)	m,p- Xylenes (µg/L)	Notes
NYS Standard/Guidance Value		***50***	***1***	***7***	***NS***	***5***	***NS***	***5***	***5***	***NS***	***5***	***5***	
MW-27	9/12/2018	<14	**9 J**	<4	29 J	**63**	**49 J**	<6	**25,000**	<4	**37**	**140**	
(Cont)	4/30/2019	8 J	**2**	<0.2	14	**9**	**43**	<0.3	**1,200**	**5 J**	**2**	**13**	2-butanone - 7 J ug/L
	7/18/2019	**620 JR**	**62 J**	<1,000 R	<2,000 R	<1,000 R	**84 J**	<1,000 R	**25,000 J**	<1,000 R	<1,000 R	<1,000 R	4-methyl-2-pentanone - 180 J µg/L
	9/12/2019	<10	<5.0	<5.0	<10	<5.0	**1.7 J**	<5.0	**2.6 J**	<5.0	<5.0	<5.0	
	11/20/2019	<10	**0.37 J**	<5.0	<10	<5.0	<10	<5.0	**490 D**	<5.0	<5.0	**0.38 J**	
	7/14/2020	<5.0	<0.20	<0.24	<0.26	<0.20	<0.20	<0.65	**11**	<0.26	<0.20	<0.20	
	8/10/2020	<2,500	<1,300	290 J	<2,500	<1,300	<2,500	<1,300	**41,000**	<1,300	<1,300	<1,300	4-methyl-2-pentanone - 160 J µg/L
	10/12/2020	<10	**1.7 J**	<5.0	**0.92 J**	**1.6 J**	**1.8 J**	<5.0	**140**	<5.0	**1.1 J**	**2.1 J**	Carbon disulfide - <10.0 µg/L; cis-1,2-DCE - 0.37 J µg/L
	4/20/2021	<50	**5.6 J**	<25	**19 J**	**12 J**	**18 J**	<25	**1,700 D**	<25	**12 J**	**22 J**	Carbon disulfide - 13 J µg/L
	7/28/2021	<10	**2.0 J**	<5.0	**6.4 J**	**1.4 J**	**22**	<5.0	**20**	**0.79 J**	<5.0	<5.0	Carbon disulfide - 3.3 J µg/L; cis-1,2-DCE - 0.38 J µg/L
	10/22/2021	<10	**3.0 J**	<5.0	**6.7 J**	**2.5 J**	**14**	<5.0	**80**	**1.9 J**	**1.9 J**	**5.1**	cis-1,2-DCE - 0.43 J µg/L; 2-butanone - 2.1 J µg/L; Carbon Disulfide - 0.53 J µg/L
	4/26/2022	<10	**0.67 J**	<5.0	<10	<5.0	**0.68 J**	<5.0	<5.0	<5.0	<5.0	**0.40 J**	cis-1,2-DCE - 0.39 J µg/L
	7/20/2022	<10	**2.0 J**	<5.0	<10	**0.32 J**	**4.5 J**	<5.0	<5.0	**0.50 J**	**0.46 J**	<5.0	Carbon Disulfide - 0.62 J µg/L
	8/31/2022	<10	**1.0 J**	<5.0	<10	<5.0	**1.9 J**	<5.0	**6.2**	<5.0	**0.23 J**	**0.64 J**	2-Butanone - <10 µg/L; cis-1,2-DCE - 0.27 J µg/L
	5/22/2023	<10	<5.0	<5.0	<10	<5.0	**1.3 J**	<5.0	<5.0	<5.0	<5.0	**0.25 J**	2-Butanone - 1.1 J µg/L
	8/9/2023	<10	<5.0	<5.0	<10	<5.0	**1.5 J**	<5.0	<5.0	<5.0	<5.0	<5.0	2-Butanone - <10 µg/L
	11/2/2023	<10	**0.72 J**	<5.0	**7.1 J**	**1.5 J**	**20**	<5.0	<6.2	**0.47 J**	**0.41 J**	<5.0	2-butanone - <10 µg/L; cis-1,2-DCE - 0.33 J µg/L
	2/21/2024	<10	**0.71 J**	<5.0	**6.1 J**	**0.87 J**	**34**	<5.0	**0.85 J**	<5.0	**0.34 J**	**2.4 J**	2-butanone - 1.1 J µg/L; isopropylbenzene - 0.27 J µg/L
	8/1/2024	<5.0	<1.0	<1.0	**1.9**	**0.26 J**	**6.3**	<1.0	**2.2**	<1.0	<1.0	**1.1 J**	2-butanone - 1.2 J µg/L
	10/24/2024	<5.0 J	<1.0 J	<1.0 J	**4.0 J**	**0.91 J**	**19 J**	<1.0 J	**0.65 J**	<1.0 J	<1.0 J	**1.3 J**	2-butanone - <5.0 J µg/L

Table 4-4
Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs)
Former Norton/Nashua - Watervliet, New York

Sample Designation	Date	Acetone (µg/L)	Benzene (µg/L)	Chloroform (µg/L)	Cyclohexane (µg/L)	Ethylbenzene (µg/L)	Methyl Cyclohexane (µg/L)	Methylene Chloride (µg/L)	Toluene (µg/L)	Heptane (µg/L)	o-Xylenes (µg/L)	m,p- Xylenes (µg/L)	Notes
NYS Standard/Guidance Value		*50*	*1*	*7*	*NS*	*5*	*NS*	*5*	*5*	*NS*	*5*	*5*	
MW-28	6/13/2016	<60	**28**	<5	<20	**33**	**300**	<20	**35,000**	**40 J**	**20**	**89**	
(Dup.)	6/13/2016	<60	**27**	<5	<20	**28**	**310**	<20	**29,000**	**41 J**	**17**	**74**	
	7/13/2016	<120	**20 J**	<10	<40	**15 J**	**120**	<40	**24,000**	<40	**37**	<10	
	9/19/2016	<300	<25	<25	<100	<25	**170 J**	<100	**28,000**	<100	**65**	<25	
	11/14/2016	<120	**27**	<10	<40	**27**	**94 J**	<40	**47,000**	<40	**69**	**16 J**	
	4/25/2017	<120	**14 J**	<10	<40	<10	<20	<40	**12,000**	<40	<10	**11 J**	
	6/20/2017	<600	**97 J**	<50	<200	<50	**170 J**	<200	**110,000**	<200	<50	**70 J**	
	7/20/2017	<600	**57 J**	<50	<200	<50	**120 J**	<200	**100,000**	<200	<50	**58 J**	
	11/15/2017	<60	**25**	<5	<20	**26**	**54**	<5	**21,000**	<20	**7 J**	**36**	
	2/27/2018	<300	**26 J**	<25	<100	<25	**59 J**	<25	**23,000**	<100	<25	**28 J**	
	7/16/2018	**790**	**190**	**16**	<20	**45**	**77**	<5	**230,000**	<20	**22**	**89**	2-butanone - 98 J µg/L; carbon disulfide - 50 µg/L; chlorobenzene - 9 J µg/L; chloromethane - 56 µg/L; 4-methyl-2-pentanone - 65 J µg/L;
	9/11/2018	**520**	**130**	**11**	55	**69**	**360**	<3	**160,000**	<2	**35**	**150**	2-butanone - 49 J µg/L; carbon disulfide - 51 µg/L; chlorobenzene - 11 µg/L; chloromethane - 5 J µg/L; 4-methyl-2-pentanone - 110 µg/L;
	4/30/2019	<350	**170 J**	<100	<100	<200	**290 J**	<150	**350,000 E**	<100	<200	<500	
	7/18/2019	<5,000 R	**120 J**	<2,500 R	<5,000 R	<2,500 R	**260 J**	<2,500 R	**180,000 DJ**	<2,500 R	<2,500 R	<2,500 R	4-methyl-2-pentanone - 110 JR µg/L
	9/12/2019	<25,000 R	<13,000 R	**1,100 J**	<25,000 R	<13,000 R	<25,000 R	<13,000 R	**340,000**	<13,000 R	<13,000 R	<13,000 R	Dichloromethane - 1,900 JR µg/L
	11/20/2019	<25,000	<13,000	<13,000	<25,000	<13,000	<25,000	<13,000	**300,000**	<13,000	<13,000	<13,000	
	7/13/2020	<5,000 R	<200 R	<240 R	<260 R	<200 R	<200 R	<650 R	**120,000 J**	<260 R	<200 R	<200 R	
	8/10/2020	<10,000	<5,000	<5,000	<10,000	<5,000	**420 J**	<5,000	**150,000**	<5,000	<5,000	**250 J**	
	10/12/2020	<10,000	<5,000	<5,000	<10,000	<5,000	**990 J**	<5,000	**120,000**	<5,000	<5,000	**250 J**	
	10/12/2020	<5,000	<2,500	<2,500	<5,000	**100 J**	**1,100 J**	<2,500	**130,000 D**	**140 J**	<2,500	**220 J**	
	4/20/2021	<1,000	<500	**52 J**	<1,000	<500	**100 J**	<500	**18,000**	<500	<500	**29 J**	
	7/28/2021	<1,000	<500	**36 J**	<1,000	**35 J**	**440 J**	<500	**29,000 D**	<500	<500	<500	
	7/28/2021	<1,000	<500	**77 J**	<1,000	**34 J**	**460 J**	<500	**35,000 D**	<500	<500	<500	Bromodichloromethane - 28 J µg/L
	10/22/2021	<2,000	<1,000	**180 J**	<2,000	**46 J**	**410 J**	<500	**19,000**	**56 J**	<1,000	**92 J**	Bromodichloromethane - 54 J µg/L
	4/26/2022	<500	<250	**20 J**	<500	<250	**130 J**	<250	**3,200**	<250	<250	**17 J**	
	7/20/2022	<130 J	**3.3 J**	<50	<100	**2.0 J**	**66 J**	<50	**540**	<50	<50	6.9 J	carbon disulfide - 11 J µg/L
	8/31/2022	<50	**2.7 J**	**1.5 J**	**3.0 J**	**2.2 J**	**23 J**	<25	**110**	**1.4 J**	<25	**2.6 J**	2-butanone - <50 µg/L
	5/22/2023	<100	<50	<50	<100	<50	**16 J**	<50	**99**	<50	<50	**5.3 J**	4-methyl-2-pentanone - 9.4 J µg/L
	5/22/2023	<50	<25	<25	<25	<25	**15 J**	<25	<25	<25	<25	**4.4 J**	2-butanone - 4.2 J µg/L; 4-methyl-2-pentanone - 10 J µg/L; TCE - 1.2 J µg/L
	8/9/2023	**71**	<5.0	<5.0	**14**	<5.0	**180**	<5.0	<5.0	<5.0	<5.0	<5.0	2-butanone - <12 µg/L; 2-hexanone - 1.0 J µg/L; 4-methyl-2- pentanone - 10 µg/L
	11/3/2023	<1,000	<500	<500	<1,000	<500	**160 J**	<500	**18,000**	<500	<500	<500	
	2/22/2024	<5,000	<2,500	<2,500	<5,000	<2,500	**200 J**	<2,500	**110,000 D**	<2,500	<2,500	<2,500	
	8/2/2024	**140**	**12 J**	<25	**24 J**	**11 J**	**190**	<25	**3,700**	**35**	**6.3 J**	**36 J**	2-butanone - 28 J µg/L
	10/24/2024	<130 J	<25 J	<25 J	<25 J	**12 J**	**200 J**	<25 J	**2,900 J**	**18 J**	**5.1 J**	**25 J**	4-methyl-2-pentanone - 17 J µg/L

Table 4-4
Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs)
Former Norton/Nashua - Watervliet, New York

Sample Designation	Date	Acetone (µg/L)	Benzene (µg/L)	Chloroform (µg/L)	Cyclohexane (µg/L)	Ethylbenzene (µg/L)	Methyl Cyclohexane (µg/L)	Methylene Chloride (µg/L)	Toluene (µg/L)	Heptane (µg/L)	o-Xylenes (µg/L)	m,p- Xylenes (µg/L)	Notes
NYS Standard/Guidance Value		*50*	*1*	*7*	*NS*	*5*	*NS*	*5*	*5*	*NS*	*5*	*5*	
MP-23	6/2/2009	<200	<100	<100	<100	<100	<100	**100**	**3,700**	<100	<100	<100	
	8/25/2009	<200	<100	<100	<100	<100	<100	<100	**2,800**	<100	<100	<100	
	2/18/2010	<500	<250	<250	<250	<250	<250	<250	**7,400**	<500	<250	<250	
	5/11/2011	<50	<25	<25	<25	<25	<25	<25	**1,100 EJ**	<50	<25	<25	
	7/17/2012	<200	<100	<100	<100	<100	<100	<100	**3,700**	<200	<100	<100	
	2/5/2013	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**24**	<10	<5.0	<5.0	
	11/4/2015	<6	**2**	<0.5	<2	0.9 J	**3 J**	<2	**450**	<2	<0.5	**1**	
	8/2/2024	<100	<20	<20	<20	<20	**7.4 J**	<20	**1,400**	<20	<20	<20	
MP-24	4/8/2009	<10000	<5000	<5000	<5000	<5000	<5000	<5000	**96,000**	<10000	<5000	<5000	
	8/25/2009	<2500	<1200	<1200	<1200	<1200	<1200	<1200	**46,000**	<1200	<1200	<1200	
	11/3/2009	<5000	<2500	<2500	<2500	<2500	<2500	<2500	**67,000**	<5000	<2500	<2500	
	2/18/2010	<5000	<2500	<2500	<2500	<2500	<2500	<2500	**42,000**	<5000	<2500	<2500	
	5/11/2011	<200	<100	<100	<100	<100	<100	<100	**2,300**	<200	<100	<100	
	7/18/2012	<100	<50	<50	<50	<50	<50	<50	**1,000**	<100	<50	<50	
	7/18/2012	<100	<50	<50	<50	<50	<50	<50	**860**	<100	<50	<50	
	2/5/2013	<50	<25	<25	<25	<25	<25	<25	**590**	<50	<25	<25	
	4/25/2017	<6	**1**	<0.5	<2	<0.5	<1	<2	**90**	<2	<0.5	**0.9 J**	
	6/20/2017	<600	**58 J**	<50	<200	<50	<100	<200	**80,000**	<200	<50	**130**	
	7/20/2017	<120	**26**	<10	<40	**22**	**28 J**	<40	**26,000**	<40	**13 J**	**69**	
	11/15/2017	<60	**21**	<5	<20	**10**	<10	<5	**12,000**	<20	**6 J**	**25**	Chlorobenzene - 5 J µg/L
	2/27/2018	<60	**9 J**	<5	<20	<5	<10	<5	**3,900**	<20	<5	**7 J**	
	7/16/2018	<300	<25	<25	<100	<25	<50	<25	**17,000**	<100	<25	**46 J**	
	9/12/2018	**8 J**	**20**	<0.2	**10**	**38**	**33**	<0.3	**3,800 E**	<0.2	**24**	**86**	2-butanone - 2 J µg/L; carbon disulfide - 0.8 µg/L; chlorobenzene - 11 µg/L; 1,2-dichlorobenzene - 0.9 J; isopropylbenzene - 1 J µg/L; 4-methyl-2-pentanone - 4 J µg/L
	7/17/2019	**88 BJR**	**17 J**	<130 R	<250 R	**21 J**	**25 J**	<130 R	**11,000 DJ**	<130 R	**19 J**	**61 J**	2-butanone - 22 JR µg/L; 4-methyl-2-pentanone - 140 J µg/L; carbon disulfide - 34 J µg/L; chlorobenzene - 5.8 J µg/L
	9/12/2019	<100	**9.4 J**	**2.4 J**	<100	**7.1 J**	**19 J**	<50	**1,100**	<50	**3.1 J**	**15 J**	4-methyl-2-pentanone - 30 J µg/L; carbon disulfide - 3.3 J µg/L; chlorobenzene - 2.3 J µg/L
	11/20/2019	<100	**8.3 J**	<50	<100	**14 J**	**7.9 J**	<50	**3,700 D**	<50	**7.8 J**	**23 J**	Chlorobenzene - 2.4 J µg/L

Table 4-4
Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs)
Former Norton/Nashua - Watervliet, New York

Sample Designation	Date	Acetone (µg/L)	Benzene (µg/L)	Chloroform (µg/L)	Cyclohexane (µg/L)	Ethylbenzene (µg/L)	Methyl Cyclohexane (µg/L)	Methylene Chloride (µg/L)	Toluene (µg/L)	Heptane (µg/L)	o-Xylenes (µg/L)	m,p- Xylenes (µg/L)	Notes
NYS Standard/Guidance Value		***50***	***1***	***7***	***NS***	***5***	***NS***	***5***	***5***	***NS***	***5***	***5***	
MP-24	7/13/2020	<130 R	<5.0 R	**7.9 J**	<6.5 R	<5.0 R	**12 J**	<17 R	**3,700 J**	<6.5 R	<5.0 R	**8.4 J**	
(Cont.)	8/10/2020	<250	**22 J**	**11 J**	<250	**30 J**	**18 J**	<130	**9,500**	<130	**18 J**	**47 J**	4-methyl-2-pentanone - 16 J µg/L
	4/20/2021	<50	**4.2 J**	<25	<50	**1.9 J**	<50	<25	**880**	<25	**2.0 J**	**5.1 J**	4-methyl-2-pentanone - 1.1 J µg/L
	7/28/2021	<50	**3.0 J**	<25	<50	**2.1 J**	<500	<25	**870**	<25	<25	<25	
	4/27/2022	<1,000	**37 J**	<500	<1,000	<500	**180 J**	<500	**39,000 E**	<500	<500	<500	4-methyl-2-pentanone - 23 J µg/L
	4/27/2022	<5,000	<2,500	**460 DJ**	<5,000	<2,500	<5,000	<2,500	**8,100 D**	<2,500	<2,500	<2,500	Bromodichloromethane - 110 DJ µg/L
	7/20/2022	<50	<25	<25	<50	<25	**6.2 J**	<25	**69**	<25	<25	<25	
	8/31/2022	<10	<5.0	<5.0	<10	<5.0	**1.7 J**	<5.0	**4.5 J**	<5.0	<5.0	**0.64 J**	2-butanone - <11 µg/L; 2-hexanone - 1.6 J µg/L; 4-methyl-2- pentanone - 0.46 J µg/L; carbon disulfide - 0.43 J µg/L; chlorobenzene - 0.35 J µg/L
	5/22/2023	<50	<25	<25	<50	<25	<50	<25	<25	<25	<25	<25	
	8/9/2023	<50	**9.9 J**	<25	<25	**8.9 J**	**8.0 J**	<25	**1,800 D**	<25	**5.4 J**	**17 J**	2-butanone - <50 µg/L; 4-methyl-2-pentanone - 4.4 J µg/L; Chlorobenzene - 3.2 J µg/L
	8/9/2023	<100	**11 J**	<50	<100	**8.5 J**	**12 J**	<50	**1,700 D**	<50	**5.9 J**	<50	4-methyl-2-pentanone - 6.3 J µg/L; Chlorobenzene - 3.8 J µg/L
	11/3/2023	<50	**5.0 J**	<25	<50	**4.4 J**	**4.1 J**	<25	**820**	<25	**4.0 J**	<25	Chlorobenzene - 1.2 J µg/L
	2/22/2024	<10	**0.66 J**	<5.0	<10	**0.25 J**	**0.22 J**	<5.0	**53**	<5.0	**0.31 J**	**0.68 J**	
	8/2/2024	<5	**1.2**	<1.0	<1.0	**0.42 J**	**3.4**	<1.0	**4.9**	<1.0	<1.0	**0.63 J**	Carbon disulfide - 1.4 µg/L; chlorobenzene - 0.54 J µg/L
	10/24/2024	<5.0 J	**0.47 J**	<1.0 J	<1.0 J	<1.0 J	**0.56 J**	<1.0 J	<1.0 J	<1.0 J	<1.0 J	<2.0 J	Chlorobenzene - <1.0 J µg/L

Table 4-4
Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs)
Former Norton/Nashua - Watervliet, New York

Sample Designation	Date	Acetone (µg/L)	Benzene (µg/L)	Chloroform (µg/L)	Cyclohexane (µg/L)	Ethylbenzene (µg/L)	Methyl Cyclohexane (µg/L)	Methylene Chloride (µg/L)	Toluene (µg/L)	Heptane (µg/L)	o-Xylenes (µg/L)	m,p- Xylenes (µg/L)	Notes
NYS Standard/Guidance Value		*50*	*1*	*7*	*NS*	*5*	*NS*	*5*	*5*	*NS*	*5*	*5*	
MP-25	6/2/2009	<10000	<5000	<5000	<5000	<5000	<5000	**6,000**	**150,000**	<5000	<5000	<5000	
	2/18/2010	<500	<250	<250	<250	<250	<250	<250	**7,100**	<500	<250	<250	
	5/10/2011	<1000	<500	<500	<500	<500	<500	<500	**11,000**	<1000	<500	<500	
	5/4/2012	**3,300 JB**	<2500	<2500	<2500	<2500	<2500	**2,600**	**79,000**	<5000	<2500	<2500	
	7/17/2012	<5000	<2500	<2500	<2500	<2500	<2500	<2500	**66,000**	<5000	<2500	<2500	
	2/5/2013	<10000	<5000	<5000	<5000	<5000	<5000	<5000	**130,000**	<10000	<5000	<5000	
	4/17/2013	<600	**78 J**	<80	<200	<80	**440 J**	<200	**160,000**	<200	<80	**110 J**	
	6/5/2013	<120	**51 J**	<40	<100	**47 J**	**190 J**	<200	**120,000**	<100	<40	**74 J**	
	12/10/2013	<300	**41 J**	<40	<100	**70 J**	**510**	<100	**98,000**	<100	<40	**87 J**	
	6/3/2014	<600	**60 J**	<50	<200	**73 J**	**670**	<200	**79,000**	<200	**91 J**	<50	
	8/27/2014	<120	**60**	<10	**44 J**	**51**	**570**	<40	**54,000**	<40	**11 J**	**65**	
	8/27/2014	<120	**65**	<10	**48 J**	**57**	**630**	<40	**58,000**	<40	**12 J**	**73**	
	10/21/2014	<600	**80 J**	<50	<200	**79 J**	**650**	<200	**100,000**	<200	<50	**98 J**	
	12/10/2014	<3000	<250	<250	<1000	<250	<500	<1000	**170,000**	<1000	<250	<250	
	4/28/2015	<120	**28**	<10	<40	<40	**230**	<40	**92,000**	<40	<10	**57**	
	8/13/2015	<60	**39**	<5	**67**	**65**	**550**	<20	**110,000**	<20	17	**96**	
	11/4/2015	<120	**19 J**	<10	<40	**29**	**300**	<40	**46,000**	<40	<10	**40**	
	1/6/2016	<300	**30 J**	<25	<100	**48 J**	**370**	<100	**73,000**	<100	<25	**62**	
	3/15/2016	<600	<50	<50	<200	<50	**110 J**	<200	**69,000**	<200	<50	<50	
	5/10/2016	<1200	<100	<100	<200	<100	**240 J**	<400	**150,000**	<200	<100	<100	
	6/13/2016	<600	<50	<50	<200	<50	**540**	<200	**95,000**	<200	<50	**62 J**	
	7/13/2016	<60	**28**	<5	**28 J**	**33**	**330**	<20	**53,000**	<20	**7 J**	**47**	
	9/19/2016	<60	**42**	<5	**54**	**52**	**530**	<20	**86,000**	<20	**74**	**13**	
	11/14/2016	<120	**35**	<10	<40	**38**	**180**	<40	**67,000**	<40	**48**	<10	
	4/25/2017	<120	<10	<10	<40	**11 J**	**190**	<40	**8,000**	<40	<10	**14 J**	
	6/20/2017	<1,200	**160 J**	<100	<400	<100	**230 J**	<400	**140,000**	<400	<100	<100	Chloromethane 210 µg/L
	7/20/2017	**1,400 J**	**160**	<50	<200	**78 J**	**240 J**	<200	**200,000**	<200	<50	**100**	Chloromethane 160 µg/L
	11/15/2017	**650 J**	**140**	<50	<200	**110**	**140 J**	<50	**100,000**	<200	<50	**140**	

Table 4-4
Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs)
Former Norton/Nashua - Watervliet, New York

Sample Designation	Date	Acetone (µg/L)	Benzene (µg/L)	Chloroform (µg/L)	Cyclohexane (µg/L)	Ethylbenzene (µg/L)	Methyl Cyclohexane (µg/L)	Methylene Chloride (µg/L)	Toluene (µg/L)	Heptane (µg/L)	o-Xylenes (µg/L)	m,p- Xylenes (µg/L)	Notes
NYS Standard/Guidance Value		*50*	*1*	*7*	*NS*	*5*	*NS*	*5*	*5*	*NS*	*5*	*5*	
MP-25 (Cont.)	2/27/2018	<300	**91**	<25	<100	**71**	**250 J**	<25	**170,000**	<100	<25	**96**	
(Dup.)	2/27/2018	**300 J**	**87**	<25	<100	**71**	**240 J**	<25	**180,000**	<100	<25	**94**	
	7/16/2018	**280**	**63**	<3	<10	**30**	**47**	<3	**140,000**	<10	**6**	**41**	2-butanone - 31 J µg/L; carbon disulfide - 32 µg/L; chlorobenzene - 3 J µg/L; chloromethane - 5 µg/L; 4-methyl-2-pentanone - 60 µg/L
	9/11/2018	**910 J**	**160**	<20	**35 J**	**96 J**	**250 J**	<30	**160,000**	<20	<40	**130 J**	2-butanone - 71 J µg/L; carbon disulfide - 46 µg/L
	4/30/2019	**260**	**160**	**10 J**	**43 J**	**68**	**430**	<15	**170,000**	<10	<20	**100 J**	4-methyl-2-pentanone - 240 J ug/L Chlorobenzene - 11 J ug/L
	7/18/2019	**620 JR**	**110 J**	<1,000 R	<2,000	<1,000 R	**330 J**	<1,000 R	**53,000 D**	<1,000 R	<1,000 R	**40 J**	4-methyl-2-pentanone - 130 J µg/L; carbon disulfide - 130 J µg/L
	9/12/2019	<10,000 R	**410 J**	**1,800 J**	<10,000 R	<5,000 R	**710 J**	<5,000 R	**170,000 J**	<5,000 R	<5,000 R	<5,000 R	Dichloromethane - 460 JR µg/L
	11/20/2019	<5,000	**200 J**	<2,500	<5,000	<2,500	**400 J**	<2,500	**140,000 D**	<2,500	<2,500	<2,500	4-methyl-2-pentanone - 170 J µg/L
	7/13/2020	<2,500 R	<100 R	**780 J**	<130 R	<100 R	**200 J**	<330 R	**60,000 J**	<130 R	<100 R	<100 R	Bromodichloromethane - 170 J µg/L
	8/10/2020	<5,000	<2,500	**600 J**	<5,000	<2,500	**300 J**	<2,500	**59,000**	<2,500	<2,500	<2,500	Bromodichloromethane - 170 J µg/L
	10/12/2020	<1,000	**200 J**	<500	**39 J**	**48 J**	**400 J**	<500	**110,000 DJ**	<500	<500	**79 J**	2-butanone - <1,000 µg/L; 4-methyl-2-pentanone - 110 J µg/L; carbon disulfide - <1,000 µg/L
	4/20/2021	<10,000	<5,000	**250 J**	<10,000	<5,000	**290 J**	<5,000	**100,000**	<5,000	<5,000	<5,000	
	7/28/2021	<1,000	**99 J**	**110 J**	<1,000	<500	**210 J**	<500	**66,000 D**	<5,000	<5,000	<5,000	Bromodichloromethane - 28 J µg/L; carbon disulfide - 78 J µg/L
	10/22/2021	<5,000	<2,500	**300 J**	<5,000	<2,500	**200 J**	<2,500	**57,000**	<2,500	<2,500	<2,500	
	4/27/2022	<10	**0.50 J**	<5.0	<10	**0.27 J**	<10	<5.0	**84**	<5.0	**0.35 J**	**0.66 J**	
	7/20/2022	**280 E**	**52**	<5.0	**17**	**13**	**160**	<5.0	**26,000 D**	**14**	**3.2 J**	**18**	2-butanone - 30 µg/L; 2-Hexanone - 0.56 J µg/L; carbon disulfide - 78 µg/L; chlorobenzene 2.3 J µg/L
	8/31/2022	<2,500	**91 J**	**440 J**	<2,500	<1,300	**59 J**	<1,300	**37,000 J**	<1,300	<1,300	<1,300	Bromodichloromethane - 68 J µg/L
	5/22/2023	<2,000	**84 J**	**180 J**	<2,000	<1,000	**320 J**	<1,000	**130,000 D**	<1,000	<1,000	**58 J**	4-methyl-2-pentanone - 66 µg/L
	8/10/2023	<2,500	**130 J**	<1,300	<2,500	<1,300	**140 J**	<1,300	**66,000 D**	<1,300	<1,300	<1,300	
	11/3/2023	<10,000	<5,000	<5,000	<10,000	<5,000	<10,000	<5,000	**72,000**	<5,000	<5,000	<5,000	
	2/22/2024	<10,000	<5,000	<5,000	<10,000	<5,000	**240 J**	<5,000	**170,000**	<5,000	<5,000	<5,000	
	8/2/2024	<1,000	**92 J**	**150 J**	<200	<200	**72 J**	<200	**23,000**	<200	<200	<200	
	10/24/2024	<5,000 J	<1,000 J	<1,000 J	<1,000 J	<1,000 J	**220 J**	<1,000 J	**58,000 J**	<1,000 J	<1,000 J	<2,000 J	

Table 4-4
Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs)
Former Norton/Nashua - Watervliet, New York

Sample Designation	Date	Acetone (µg/L)	Benzene (µg/L)	Chloroform (µg/L)	Cyclohexane (µg/L)	Ethylbenzene (µg/L)	Methyl Cyclohexane (µg/L)	Methylene Chloride (µg/L)	Toluene (µg/L)	Heptane (µg/L)	o-Xylenes (µg/L)	m,p- Xylenes (µg/L)	Notes
NYS Standard/Guidance Value		*50*	*1*	*7*	*NS*	*5*	*NS*	*5*	*5*	*NS*	*5*	*5*	
MP-26	6/2/2009	<500	<250	<250	<250	<250	<250	<250	**8,800**	<250	<250	<250	
	8/25/2009	<1000	<500	<500	<500	<500	<500	<500	**12,000**	<500	<500	<500	
	2/18/2010	<5000	<2500	<2500	<2500	<2500	<2500	<2500	**64,000**	<5000	<2500	<2500	
	10/19/2011	**470 J**	<500	<500	<500	<500	<500	**280 J**	**13,000**	<1000	<500	<500	
	12/8/2011	**730 J**	<500	<500	<500	<500	<500	**450 JB**	**14,000**	<1000	<500	<500	
	2/22/2012	**480 JB**	<500	<500	<500	<500	<500	**210 JB**	**13,000**	<1000	<500	<500	
	5/3/2012	<1000	<500	<500	<500	<500	<500	<500	**13,000**	<1000	<500	<500	
	7/17/2012	<1000	<500	<500	<500	<500	<500	<500	**10,000**	<1000	<500	<500	
	2/5/2013	<4000	<2000	<2000	<2000	<2000	<2000	<2000	**69,000**	<4000	<2000	<2000	
	4/18/2013	<120	**20 J**	<16	<40	<16	<20	<40	**33,000**	<40	<16	<16	
	6/6/2013	<30	**3 J**	<4	<10	<4	<5	<10	**3,600**	<10	<4	<4	
	12/10/2013	<300	**30 J**	<40	<100	<40	<50	<100	**64,000**	<100	<40	<40	
	6/3/2014	<600	<50	<50	<200	<50	<100	<200	**41,000**	<200	<50	<50	
	8/28/2014	<300	<25	<25	<100	<25	<50	<100	**17,000**	<100	<25	<25	
	10/21/2014	<60	**6 J**	<5	<20	<5	<10	<20	**12,000**	<20	<5	<5	
	12/10/2014	<120	**10 J**	<10	<40	<10	<20	<40	**23,000**	<40	<10	<10	
	3/3/2015	<6	**17**	<0.5	**2 J**	**8**	**26**	<2	**29,000**	**3 J**	**4**	**16**	Chlorobenzene - 2 µg/L
	4/28/2015	<300	<25	<25	<100	<25	<50	<100	**23,000**	<100	<25	<25	
	8/13/2015	<60	**8 J**	<5	<20	<5	<10	<20	**13,000**	<20	<20	**8 J**	
	11/4/2015	<60	**6 J**	<5	<20	<5	<10	<20	**12,000**	<20	<10	**9 J**	
	1/6/2016	<120	**10 J**	<10	<40	**11 J**	<20	<40	**17,000**	<40	<10	**19 J**	
	3/15/2016	<300	<25	<25	<100	<25	<50	<100	**14,000**	<100	<25	<25	
	5/10/2016	<120	**18 J**	<10	<40	**10 J**	<40	<20	**25,000**	<40	<10	**21**	
	6/14/2016	<60	**8 J**	<5	<20	<5	<10	<20	**18,000**	<20	<5	**9 J**	
	7/13/2016	<120	<10	<10	<40	<10	<40	<40	**12,000**	<40	<10	<10	
	9/20/2016	<300	<25	<25	<100	<25	<50	<100	**16,000**	<100	<25	<25	
	4/26/2017	<60	<5	<5	<20	<5	<10	<20	**8,100**	<20	<5	<5	
	6/20/2017	<1,200	**190 J**	<100	<400	<100	<200	<400	**210,000**	<400	<100	<100	
	7/20/2017	<600	**150**	<50	<200	<60	<100	<200	**250,000**	<200	<50	**81 J**	
	11/15/2017	<600	**94 J**	<50	<200	<50	**110 J**	<50	**150,000**	<200	<50	**72 J**	
	2/27/2018	**93**	**78**	<1	**8 J**	**38**	**100**	<1	**130,000**	25	**16**	**70**	2-butanone - 7 J µg/L; carbon disulfide - 12 µg/L; chlorobenzene - 18 µg/L; 4-methyl-2-pentanone - 71 µg/L

Table 4-4
Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs)
Former Norton/Nashua - Watervliet, New York

Sample Designation	Date	Acetone (µg/L)	Benzene (µg/L)	Chloroform (µg/L)	Cyclohexane (µg/L)	Ethylbenzene (µg/L)	Methyl Cyclohexane (µg/L)	Methylene Chloride (µg/L)	Toluene (µg/L)	Heptane (µg/L)	o-Xylenes (µg/L)	m,p- Xylenes (µg/L)	Notes
NYS Standard/Guidance Value		*50*	*1*	*7*	*NS*	*5*	*NS*	*5*	*5*	*NS*	*5*	*5*	
MP-26	7/17/2018	**770**	**170**	<5	<20	**26**	**18 J**	<5	**140,000**	<20	**13**	**52**	2-butanone - 34 J µg/L; carbon disulfide - 38 J µg/L; chlorobenzene - 16 µg/L; 4-methyl-2-pentanone - 340 µg/L
(Cont.)	9/11/2018	**460 J**	**130**	<20	<20	**51 J**	**37 J**	<30	**210,000**	<20	<40	<100	Carbon disulfide - 36 J µg/L; chlorobenzene - 24 µg/L; 4- methyl-2-pentanone - 440 µg/L
	4/30/2019	<180	<50	<50	<50	<100	<50	<75	**100,000**	<50	<100	<250	
	4/30/2019	<180	<50	<50	<50	<100	<50	<75	**99,000**	<50	<100	<250	
	7/17/2019	<5,000 R	<2,500 R	<2,500 R	<5,000 R	<5,000 R	**120 J**	<2,500 R	**86,000 J**	<2,500 R	<2,500 R	<2,500 R	4-Methyl-2-pentanone - 180 J µg/L
	9/12/2019	<10,000 R	<5,000 R	**1,800 J**	<10,000 R	<5,000 R	<5,000 R	<5,000 R	**150,000 DJ**	<5,000 R	<5,000 R	<5,000 R	4-Methyl-2-pentanone - 470 J µg/L; Bromodichloromethane - 500 J µg/L
	11/20/2019	<20,000	<10,000	<10,000	<20,000	<10,000	<20,000	<10,000	**110,000**	<10,000	<10,000	<10,000	
	7/13/2020	<2,500 R	<100 R	**520 J**	<130 R	<100 R	<100 R	<330 R	**79,000 J**	<130 R	<100 R	<100 R	Bromodichloromethane - 140 J µg/L
	8/11/2020	<5,000	**120 J**	**670 J**	<5,000	<2,500	**130 J**	<2,500	**130,000 D**	<2,500	<2,500	**120 J**	4-Methyl-2-pentanone - 360 J µg/L
	10/13/2020	<10,000	<5,000	<5,000	<10,000	<5,000	<10,000	<5,000	**84,000**	<5,000	<5,000	<5,000	
	4/21/2021	<5,000	<2,500	**260 J**	<5,000	<2,500	<5,000	<2,500	**62,000**	<2,500	<2,500	<2,500	
	7/28/2021	<5,000	**170 J**	**490 J**	<5,000	<2,500	<5,000	<2,500	**130,000 D**	<2,500	<2,500	<2,500	
	10/21/2021	<5,000	<2,500	**320 J**	<5,000	<2,500	<5,000	<2,500	**73,000**	<2,500	<2,500	<2,500	Bromodichloromethane - 130 J µg/L
	4/26/2022	<5,000	<2,500	<2,500	<5,000	<2,500	<5,000	<2,500	**44,000**	<2,500	<2,500	<2,500	
	7/19/2022	<5,000	<2,500	**550 J**	<5,000	<2,500	<5,000	<2,500	**56,000**	<2,500	<2,500	<2,500	
	9/1/2022	<5,000	<2,500	**780 J**	<5,000	<2,500	<5,000	<2,500	**61,000**	<2,500	<2,500	<2,500	Bromodichloromethane - 190 J µg/L
	5/23/2023	<5,000	<2,500	**470 J**	<5,000	<2,500	<5,000	<2,500	**95,000**	<2,500	<2,500	<2,500	Bromodichloromethane - 110 J µg/L
	8/10/2023	<5,000	**110 J**	<2,500	<5,000	<2,500	<5,000	<2,500	**93,000**	<2,500	<2,500	<2,500	
	11/1/2023	<5,000	<2,500	<2,500	<5,000	<2,500	<5,000	<2,500	**120,000 D**	<2,500	<2,500	<2,500	
	2/20/2024	<5,000	<2,500	<2,500	<5,000	<2,500	**110 J**	<2,500	**110,000 D**	<2,500	<2,500	<2,500	
	8/1/2024	<2,500	<500	<500	<500	<500	<500	<500	**61,000**	<500	<500	<500	**1,2,4-Trichlorobenzene - 240 J µg/L; 1,3-dichlorobenzene - 100 J µg/L**
	10/23/2024	<2,500 J	<500 J	<500 J	<500 J	<500 J	<500 J	<500 J	**43,000 J**	<500 J	<500 J	<1,000 J	

Table 4-4
Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs)
Former Norton/Nashua - Watervliet, New York

Sample Designation	Date	Acetone (µg/L)	Benzene (µg/L)	Chloroform (µg/L)	Cyclohexane (µg/L)	Ethylbenzene (µg/L)	Methyl Cyclohexane (µg/L)	Methylene Chloride (µg/L)	Toluene (µg/L)	Heptane (µg/L)	o-Xylenes (µg/L)	m,p- Xylenes (µg/L)	Notes
NYS Standard/Guidance Value		*50*	*1*	*7*	*NS*	*5*	*NS*	*5*	*5*	*NS*	*5*	*5*	
MP-27	6/2/2009	<10000	<5000	<5000	<5000	<5000	<5000	**6,100**	**130,000**	<5000	<5000	<5000	
	8/25/2009	<5000	<2500	<2500	<2500	<2500	<2500	<2500	**50,000**	<2500	<2500	<2500	
	2/18/2010	<1000	<500	<500	<500	<500	<500	**400 J**	**13,000**	<1000	<500	<500	
	7/19/2012	<20	<10	<10	<10	<10	<10	<10	**260**	<20	<10	<10	
	2/5/2013	<2000	<1000	<1000	<1000	<1000	<1000	<1000	**41,000 EJ**	<2000	<1000	<1000	
	4/18/2013	<300	**34 J**	<40	<100	<40	**150 J**	<100	**67,000**	<100	<40	<40	
	6/6/2013	<120	**22 J**	<16	<40	<16	**44 J**	<40	**31,000**	<40	<16	<16	
	12/10/2013	<120	<10	<16	<40	<16	**57 J**	<40	**12,000**	<40	<16	<16	
	12/10/2013	<60	**10 J**	<8	<20	<8	**58**	<20	**12,000**	<20	<8	**9 J**	
	6/3/2014	<15	**15**	<1	**14**	**9**	**97**	<5	**33,000**	<13	**13**	**2 J**	Chlorobenzene - 2 J µg/L
	8/28/2014	<300	<25	<25	<25	<25	<50	<100	**18,000**	<100	<25	<25	
	10/21/2014	<60	<5	<5	<20	<5	**17 J**	<20	**8,500**	<20	<5	<5	
	12/10/2014	<120	**11 J**	<10	<40	**11 J**	**67 J**	<40	**33,000**	<40	<10	**15 J**	
	3/3/2015	<6	**4**	<0.5	**5**	**4**	**58**	<2	**9,400**	**4 J**	**1**	**6**	Chlorobenzene - 1 J µg/L
	4/28/2015	<300	<25	<25	<100	<25	**54 J**	<100	**28,000**	<100	<25	<25	
	8/13/2015	<60	**6 J**	<5	<20	**7 J**	**54**	<20	**14,000**	<20	<20	**10 J**	
	11/4/2015	<60	<5	<5	<20	<5	**50 J**	<20	**5,500**	<20	<20	**7 J**	
	1/6/2016	<30	**3 J**	<3	**12 J**	**7**	**59**	<10	**5,200**	<10	<3	**9**	
	3/15/2016	<60	<5	<5	<20	**7 J**	**69**	<20	**11,000**	<20	<5	**10**	
	3/15/2016	<120	<10	<10	<40	<10	**50 J**	<40	**12,000**	<40	<10	<10	
	5/10/2016	<120	<10	<10	<40	<10	**79 J**	<40	**11,000**	<40	<10	**12 J**	
	6/13/2016	<12	**4**	<1	**6 J**	**6**	**55**	<4	**7,500**	<4	**1 J**	**9**	
	7/13/2016	<30	<3	<3	<10	**3 J**	**23 J**	<10	**4,200**	<10	<3	4 J	
	9/20/2016	<6	**6**	<0.5	**6**	**9**	**77**	<2	**10,000**	**5**	**14**	2	
	4/26/2017	<120	<10	<10	<40	<10	**52 J**	<40	**9,400**	<40	<10	<10	
	6/20/2017	**1,400 J**	**150**	<50	<200	<50	**180 J**	<200	**88,000**	<200	<50	<50	Chloromethane 60 J µg/L
	7/19/2017	**1,500 J**	**150**	<50	<200	<50	**100 J**	<200	**120,000**	<200	<50	<50	
	11/15/2017	<600	**180**	<50	<200	<50	<100	<50	**150,000**	<200	<50	**55 J**	4-methyl-2-pentanone - 410 J µg/L

Table 4-4
Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs)
Former Norton/Nashua - Watervliet, New York

Sample Designation	Date	Acetone (µg/L)	Benzene (µg/L)	Chloroform (µg/L)	Cyclohexane (µg/L)	Ethylbenzene (µg/L)	Methyl Cyclohexane (µg/L)	Methylene Chloride (µg/L)	Toluene (µg/L)	Heptane (µg/L)	o-Xylenes (µg/L)	m,p- Xylenes (µg/L)	Notes
NYS Standard/Guidance Value		*50*	*1*	*7*	*NS*	*5*	*NS*	*5*	*5*	*NS*	*5*	*5*	
MP-27	2/27/2018	**650 J**	**160**	<25	<100	**44 J**	**87 J**	<25	**280,000**	<100	<25	**61**	4-methyl-2-pentanone - 500 µg/L
(Cont.)	7/17/2018	**1,700**	**160**	<25	<100	<25	<50	<25	**32,000**	<100	<25	<25	
	9/11/2018	**1,200 J**	**190**	<20	<20	<40	**68 J**	<30	**99,000**	<20	<40	<100	2-butanone - 78 J µg/L; carbon disulfide - 33 J µg/L; chlorobenzene - 25 J µg/L; 4-methyl-2-pentanone - 450 J µg/L
	4/30/2019	<350	**120 J**	<100	<100	<200	<100	<150	**310,000**	<100	<200	<500	4-methyl-2-pentanone - 250 J ug/L
	7/17/2019	<500 R	**12 J**	<250 R	**53 J R**	**42 J**	**120 J**	<250 R	**15,000 DJ**	<250 R	**34 J**	**110 J**	Carbon Disulfide - 22 J µg/L;
	9/12/2019	<10,000 R	<5,000 R	**1,500 J**	<10,000 R	<5,000 R	**240 J**	<5,000 R	**120,000 J**	<5,000 R	<5,000 R	<5,000 R	4-methyl-2-pentanone - 310 J ug/L; Dichloromethane - 480 JR µg/L
	11/20/2019	<10,000	<5,000	<5,000	<10,000	<5,000	<10,000	<5,000	**200,000 D**	<5,000	<5,000	<5,000	4-methyl-2-pentanone - 410 J ug/L
	7/13/2020	<500 R	**62 J**	**110 J**	<26 R	<20 R	**43 J**	<65 R	**36,000 DJ**	<26 R	<20 R	<20 R	2-butanone - 87 J µg/L; 4-methyl-2-pentanone - 120 J µg/L; Bromodichloromethane - 21 J µg/L
	8/11/2020	<10	**7.7 J**	<5.0	**29**	**34**	**46**	<5.0	**14,000 D**	**1.0 J**	**28**	**85**	2-butanone - 2.1 J µg/L; Carbon Disulfide - 0.60 J µg/L; Chlorobenzene - 0.49 J µg/L; isopropylbenzene - 0.57 J µg/L; cis-1,2-DCE - 0.58 J µg/L
	10/13/2020	<1,000	**60 J**	<500	<1,000	<500	**22 J**	<500	**66,000 D**	<500	<500	**32 J**	4-methyl-2-pentanone - 190 J ug/L
	4/21/2021	<2,500	<1,300	**200 J**	<2,500	<1,300	**90 J**	<1,300	**47,000**	<1,300	<1,300	<1,300	4-methyl-2-pentanone - 74 J ug/L; Bromodichloromethane - 53 J µg/L
	7/28/2021	<2,500	<1,300	**290 J**	<2,500	<1,300	**67 J**	<1,300	**47,000**	<1,300	<1,300	<1,300	4-methyl-2-pentanone - 56 J ug/L; Bromodichloromethane - 64 J µg/L
	10/21/2021	<2,000	<1,000	**180 J**	<2,000	<1,000	<2,000	<1,000	**20,000**	<1,000	<1,000	<1,000	Bromodichloromethane - 57 J µg/L
	7/19/2022	<2,000	<1,000	**130 J**	<2,000	<1,000	**220 J**	<1,000	**43,000 D**	<1,000	<1,000	**52 J**	4-methyl-2-pentanone - 44 J ug/L
	9/1/2022	<2,000	<1,000	**350 J**	<2,000	<1,000	**110 J**	<1,000	**22,000**	<1,000	<1,000	<1,000	Bromodichloromethane - 83 J µg/L
	5/23/2023	<5,000	<2,500	**320 J**	<5,000	<2,500	**430 J**	<2,500	**120,000 D**	<2,500	<2,500	<2,500	
	8/10/2023	<1,000 R	<500 R	<500 R	<1,000 R	<500 R	**51 J**	<500 R	**7,700 J**	<500 R	<500 R	<500 R	
	11/1/2023	<5,000	<2,500	<2,500	<5,000	<2,500	**110 J**	<2,500	**39,000**	<2,500	<2,500	<2,500	
	2/20/2024	<5,000	<2,500	<2,500	<5,000	<2,500	**300 J**	<2,500	**170,000 D**	<2,500	<2,500	<2,500	
	8/2/2024	**180**	**16 J**	<25	<25	<25	**29**	<25	**2,200**	<25	<25	<25	2-butanone - 23 J
	10/23/2024	<100 J	**7.9 J**	<20 J	<20 J	<20 J	**14 J**	<20 J	**1,300 J**	<20 J	<20 J	<40 J	4-methyl-2-pentanone - 6.2 J ug/L

Table 4-4
Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs)
Former Norton/Nashua - Watervliet, New York

Sample Designation	Date	Acetone (µg/L)	Benzene (µg/L)	Chloroform (µg/L)	Cyclohexane (µg/L)	Ethylbenzene (µg/L)	Methyl Cyclohexane (µg/L)	Methylene Chloride (µg/L)	Toluene (µg/L)	Heptane (µg/L)	o-Xylenes (µg/L)	m,p- Xylenes (µg/L)	Notes
NYS Standard/Guidance Value		*50*	*1*	*7*	*NS*	*5*	*NS*	*5*	*5*	*NS*	*5*	*5*	
MP-29	6/2/2009	<50	<25	<25	<25	<25	<25	<25	**690**	<25	<25	<25	
	8/25/2009	<500	<250	<250	<250	<250	<250	<250	**6,000**	<250	<250	<250	
	2/18/2010	<500	<250	<250	<250	<250	<250	**130 J**	**5,600**	<500	<250	<250	
	7/18/2012	<1000	<500	<500	<500	<500	<500	<500	**15,000**	<1000	<500	<500	
	2/5/2013	<250	<120	<120	<120	<120	<120	<120	**2,300**	<250	<120	<120	
	11/3/2015	<120	<10	<10	<40	**84**	**68 J**	<40	**42,000**	<40	**120**	**360**	
	3/15/2016	<120	<10	<10	<40	<10	<20	<40	**26,000**	<40	<10	<10	
	5/10/2016	<120	<10	<10	<40	<10	**26 J**	<40	**10,000**	<40	<10	<10	
	6/13/2016	<12	**2 J**	<1	<4	**3**	**16**	<4	**5,200**	<4	<1	**4**	
	7/12/2016	<120	<10	<10	<40	<10	<40	<40	**11,000**	<40	<10	<10	
	9/20/2016	<30	<3	<3	<10	<3	**30**	<10	**7,400**	**12 J**	**3 J**	<3	
	11/15/2016	<120	<10	<10	<40	<10	<40	<40	**11,000**	<40	<10	<10	
	4/26/2017	<6	<0.5	<0.5	<2	<0.5	<1	<2	**16**	<2	<0.5	<0.5	
	6/19/2017	<120	<10	<10	<40	<10	<20	<40	**10,000**	<40	<10	<10	
	7/19/2017	<60	<5	<5	<20	<5	<10	<20	**7,100**	<20	<5	<5	Tetrachloroethylene 28 µg/L
	7/19/2017	<60	<5	<5	<20	<5	<10	<20	**6,500**	<20	<5	<5	
	11/15/2017	<30	<3	<3	<10	<3	<5	<3	**3,000**	<10	<3	<3	
	7/17/2018	**56**	<1	<1	<4	<1	<2	<1	**870**	<4	<1	<1	
	9/11/2018	**2 J**	**5**	<0.2	<0.2	<0.4	0.5 J	<0.3	**37**	<0.2	<0.4	<1	Carbon disulfide - 0.3 J µg/L; chlorobenzene - 0.6 J µg/L; 4- methyl-2-pentanone - 1 J µg/L
	4/30/2019	<0.7	**0.2 J**	**0.4 J**	**1 J**	**0.7 J**	**7**	<0.3	**940**	**3 J**	<0.4	<1	Chlorobenzene - 0.5 J ug/L
	7/17/2019	**52 BJR**	<50 R	<50 R	<100 R	<50 R	**13 J**	<50 R	**3,600 DJ**	<50 R	<50 R	<50 R	
	9/12/2019	<1,000	<500	**110 J**	<1,000	<500	**31 J**	<500	**12,000**	<500	<500	<500	
	7/13/2020	<130 R	<5.0 R	<6.0 R	<6.5 R	<5.0 R	**21 J**	<17 R	**14,000 DJ**	<6.5 R	<5.0 R	7.6 J	
	8/10/2020	<1,000	<500	**100 J**	<1,000	<500	**37 J**	<500	**17,000**	**29 J**	<500	22 J	Bromodichloromethane - 28 J µg/L
	10/13/2020	<1,000	<500	<500	<1,000	<500	**36 J**	<500	**16,000**	<500	<500	<500	
	4/20/2021	<2,500	<1,300	**210 J**	<2,500	<1,300	**59 J**	<1,300	**32,000**	<1,300	<1,300	<1,300	Bromodichloromethane - 62 J µg/L
	7/28/2021	<2,500	<1,300	**210 J**	<2,500	<1,300	**90 J**	<1,300	**42,000**	<1,300	<1,300	<1,300	
	10/21/2021	<1,000	<500	**93 J**	<1,000	<500	**42 J**	<500	**49,000 D**	**32 J**	<500	24 J	Bromodichloromethane - 28 J µg/L
	4/26/2022	<5,000	<2,500	<2,500	<2,500	<2,500	<5,000	<2,500	**91,000**	<2,500	<2,500	<2,500	
	7/19/2022	<5,000	<2,500	**330 J**	<2,500	<2,500	<5,000	<2,500	**64,000**	<2,500	<2,500	<2,500	
	9/1/2022	<5,000	<2,500	**730 J**	<2,500	<2,500	<5,000	<2,500	**48,000**	<2,500	<2,500	<2,500	Bromodichloromethane - 110 J µg/L
	5/23/2023	<500	<250	<250	<500	<250	<500	<250	**6,100**	<250	<250	<250	
	8/10/2023	<2,500	<1,300	<1,300	<2,500	<1,300	**70 J**	<1,300	**26,000**	<1,300	<1,300	<1,300	
	11/1/2023	<2,000	<1,000	<1,000	<2,000	<1,000	<2,000	<1,000	**19,000**	<1,000	<1,000	<1,000	
	2/21/2024	<500	<250	<250	<500	<250	<500	<250	**5,900**	<250	<250	<250	
	8/1/2024	<250	<50	<50	<50	**16 J**	**41 J**	<50	**28,000 D**	**31 J**	<50	<50	
	10/23/2024	<250 J	<50 J	<50 J	<50 J	<50 J	<50 J	<50 J	**7,900 J**	<50 J	<50 J	<100 J	

Table 4-4
Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs)
Former Norton/Nashua - Watervliet, New York

Sample Designation	Date	Acetone (µg/L)	Benzene (µg/L)	Chloroform (µg/L)	Cyclohexane (µg/L)	Ethylbenzene (µg/L)	Methyl Cyclohexane (µg/L)	Methylene Chloride (µg/L)	Toluene (µg/L)	Heptane (µg/L)	o-Xylenes (µg/L)	m,p- Xylenes (µg/L)	Notes
NYS Standard/Guidance Value		*50*	*1*	*7*	*NS*	*5*	*NS*	*5*	*5*	*NS*	*5*	*5*	
MP-37	10/19/2011	**4,900 J**	<5000	<5000	<5000	<5000	<5000	**3,100 J**	**190,000**	<10000	<5000	<5000	
	12/8/2011	<10000	<5000	<5000	<5000	<5000	<5000	**3,900 JB**	**170,000**	<10000	<5000	<5000	
	12/8/2011	<10000	<5000	<5000	<5000	<5000	<5000	**5,100 B**	**160,000**	<10000	<5000	<5000	
	2/21/2012	**3,000 JB**	<2500	<2500	<2500	<2500	<2500	**1,800 B**	**96,000**	<10000	<2500	<2500	
	5/3/2012	**4,000 J**	<2500	<2500	<2500	<2500	<2500	<2500	**56,000**	<5000	<2500	<2500	
	7/18/2012	<5000	<2500	<2500	<2500	<2500	<2500	<2500	**54,000**	<5000	<2500	<2500	
	11/29/2012	<5000	<2500	<2500	<2500	<2500	<2500	<2500	**80,000**	<5000	<2500	<2500	
	2/6/2013	<10000	<5000	<5000	<5000	<5000	<5000	<5000	**110,000**	<10000	<5000	<5000	
	4/16/2013	<120	**22 J**	<16	<40	<16	**22 J**	<40	**33,000**	**49 J**	<16	<16	
	6/4/2013	<120	**23 J**	<16	<40	<16	**26 J**	<40	**40,000**	**51 J**	<16	<16	
	12/10/2013	<300	**89 J**	<40	<100	<40	**50 J**	<100	**110,000**	**120 J**	<40	<40	
	6/2/2014	<1200	**120 J**	<100	<400	<100	<200	<400	**110,000**	<400	<100	<100	
	8/27/2014	<120	**68**	<10	<40	**15 J**	**84 J**	<40	**91,000**	**200**	<10	**22**	
	12/10/2014	<600	**81 J**	<50	<200	<50	<100	<200	**130,000**	<200	<50	<50	
	3/3/2015	<6	**13**	<0.5	**6**	**6**	**30**	<2	**13,000**	**67**	**2**	**9**	Chlorobenzene - 1 J µg/L
	4/28/2015	<600	<50	<50	<200	<50	<100	<200	**70,000**	<200	<50	<50	
	8/13/2015	<60	**49**	<5	<20	**14**	**54**	<20	**61,000**	**98**	<5	**19**	
	11/4/2015	<120	**69**	<10	<40	**14 J**	**58 J**	<40	**79,000**	**130**	<10	**20**	
	1/6/2016	<120	**69**	<10	<40	**17 J**	**74 J**	<40	**68,000**	<40	<10	**22**	
	3/14/2016	**150 J**	**78**	<5	<20	**25**	**91**	<20	**120,000**	<20	**8 J**	**40**	
	4/14/2016	<600	**64 J**	<50	<200	<50	<100	<200	**100,000**	**210 J**	<50	<50	Carbon disulfide - 15 J µg/L; chlorobenzene - 8 J µg/L; chloromethane - 5 J µg/L
	5/10/2016	<1200	<100	<100	<200	<100	<200	<400	**100,000**	<200	<100	<100	
	6/13/2016	<600	<50	<50	<200	<50	<100	<200	**57,000**	<200	<50	<50	
	7/12/2016	**150 J**	**24**	<10	<40	<10	**29 J**	<40	**31,000**	<40	<10	<10	
	8/2/2016	<300	**46 J**	<25	<100	<25	<50	<100	**71,000**	<100	<25	<25	
	9/19/2016	<300	**35 J**	<25	<100	<25	**68 J**	<100	**57,000**	**150 J**	**27 J**	<25	
	11/14/2016	<120	**34**	<10	<40	**14 J**	**35 J**	<40	**59,000**	**70 J**	**21**	<10	
	4/26/2017	<300	**60**	<25	<100	<25	<50	<100	**73,000**	<100	<25	<25	
	6/19/2017	<1,200	**120 J**	<100	<400	<100	<200	<400	**180,000**	<400	<100	<100	
	7/19/2017	<600	**75 J**	<50	<200	<50	<100	<200	**150,000**	**220 J**	<50	<50	
	11/15/2017	<120	**27**	<10	<40	**13 J**	**41 J**	<10	**43,000**	<40	<10	**19 J**	
	2/27/2018	<300	**30 J**	<25	<100	<25	<50	<25	**60,000**	<100	<25	<25	
	7/17/2018	<300	<25	<25	<100	<25	<50	<25	**41,000**	<100	<25	<25	

Table 4-4
Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs)
Former Norton/Nashua - Watervliet, New York

Sample Designation	Date	Acetone (µg/L)	Benzene (µg/L)	Chloroform (µg/L)	Cyclohexane (µg/L)	Ethylbenzene (µg/L)	Methyl Cyclohexane (µg/L)	Methylene Chloride (µg/L)	Toluene (µg/L)	Heptane (µg/L)	o-Xylenes (µg/L)	m,p- Xylenes (µg/L)	Notes
NYS Standard/Guidance Value		*50*	*1*	*7*	*NS*	*5*	*NS*	*5*	*5*	*NS*	*5*	*5*	
MP-37	9/11/2018	<70	**29 J**	<20	**23 J**	<40	**57 J**	<30	**57,000**	<20	<40	<100	
(Cont.)	9/11/2018	<70	**28 J**	<20	<20	<40	**67 J**	<30	**57,000**	<20	<40	<100	
	4/30/2019	<70	**23 J**	<20	<20	<40	<20	<30	**30,000**	<20	<40	<100	
	7/17/2019	<110 R	**25 J**	<12 R	**82 J R**	**18 J**	**93 J**	<250 R	**19,000 DJ**	**120 J**	<10 R	**34 J**	
	7/17/2019	<110 R	**26 J**	<12 R	**95 J R**	**17 J**	**110 J**	<250 R	**18,000 DJ**	**140 J**	<10 R	**33 J**	
	9/12/2019	<2,500	<1,300	**460 J**	<2,500	<1,300	<2,500	<1,300	**24,000**	**81 J**	<1,300	<1,300	Bromodichloromethane - 120 J µg/L
	11/20/2019	<1,000	**23 J**	<500	<1,000	<500	**50 J**	<500	**19,000 D**	**44 J**	<500	<500	
	11/20/2019	<2,000	<1,000	<1,000	<1,000	<1,000	<2,000	<1,000	**18,000**	<1,000	<1,000	<1,000	
	7/13/2020	<250 R	<10 R	<12 R	**39 J**	<10 R	**50 J**	<33 R	**7,500 J**	**80 J**	<10 R	**12 J**	
	7/13/2020	<250 R	<10 R	<12 R	**47 J**	<10 R	**48 J**	<33 R	**7,400 J**	**85 J**	<10 R	<10 R	
	8/10/2020	<500	**27 J**	<250	<500	**17 J**	**61 J**	<250	**54,000 D**	**110 J**	<250	**28 J**	
	8/10/2020	<500	**32 J**	**18 J**	**75 J**	**15 J**	**75 J**	<250	**55,000 D**	**140 J**	<250	**33 J**	
	10/13/2020	<1,000	<500	<500	**53 J**	<500	**42 J**	<500	**17,000**	**66 J**	<500	<500	
	4/19/2021	<1,000	<500	**110 J**	<1,000	<500	<1,000	<500	**11,000**	<500	<500	<500	Bromodichloromethane - 32 J µg/L
	4/19/2021	<1,000	<500	**100 J**	<1,000	<500	<1,000	<500	**12,000**	**34 J**	<500	<500	Bromodichloromethane - 26 J µg/L
	7/28/2021	<1,000	**20 J**	**91 J**	**91 J**	<500	**110 J**	<500	**20,000 D**	**180 J**	<500	<500	Bromodichloromethane - 25 J µg/L
	10/21/2021	<1,000	<500	**60 J**	<1,000	<500	<1000	<500	**12,000**	**28 J**	<500	<500	
	10/21/2021	<1,000	<500	**120 J**	<1,000	<500	<1,000	<500	**15,000**	<500	<500	<500	Bromodichloromethane - 37 J µg/L
	4/26/2022	<1,000	<500	<500	**32 J**	<500	<1,000	<500	**14,000**	**52 J**	<500	**20 J**	
	4/26/2022	<1,000	<500	**86 J**	<1,000	<500	<1,000	<500	**15,000**	**53 J**	<500	**24 J**	Bromodichloromethane - 25 J µg/L
	7/19/2022	<250	<130	<130	<250	<130	**45 J**	<130	**3,200**	<130	<130	**7.1 J**	Carbon Disulfide - 20 J µg/L
	7/19/2022	<250	<130	<130	<250	<130	<250	<130	**1,900**	<130	<130	**7.7 J**	
	9/1/2022	<500	<250	**19 J**	<500	<250	<500	<250	**5,800**	<250	<250	<250	
	9/1/2022	<500	<250	**30 J**	<500	<250	**16 J**	<250	**6,100**	<250	<250	<250	
	5/22/2023	<250	**7.3 J**	<130	**18 J**	**5.3 J**	**29 J**	<130	**14,000 D**	**28 J**	<130	**11 J**	
	8/10/2023	<2,000	<1,000	<1,000	<2,000	<1,000	<2,000	<1,000	**17,000**	**90 J**	<1,000	<1,000	
	11/2/2023	<1,000	<500	<500	<1,000	<500	**34 J**	<500	**10,000**	**51 J**	<500	<500	
	11/2/2023	<1,000	<500	<500	<1,000	<500	<1000 J	<500	**9,600**	**44 J**	<500	<500	
	2/21/2024	<250	<130	<130	<250	<130	**18 J**	<130	**2,900**	**18 J**	<130	<130	
(Dup.)	2/21/2024	<250	<130	<130	<250	<130	**14 J**	<130	**2,300**	**12 J**	<130	<130	
	8/1/2024	<50	<10	<10	<10	<10	**13**	<10	**1,000**	**4.6 J**	<10	<10	
(Dup.)	8/1/2024	<10	**2.0 J**	<10	<10	<10	**13**	<10	**870**	**4.3 J**	<10	<10	
	10/23/2024	<130 J	<25 J	<25 J	<25 J	<25 J	**23 J**	<25 J	**3,600 J**	**21 J**	<25 J	<50 J	
(Dup.)	10/23/2024	<130 J	<25 J	<25 J	<25 J	<25 J	**20 J**	<25 J	**3,200 J**	**20 J**	<25 J	<50 J	

Table 4-4
Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs)
Former Norton/Nashua - Watervliet, New York

Sample Designation	Date	Acetone (µg/L)	Benzene (µg/L)	Chloroform (µg/L)	Cyclohexane (µg/L)	Ethylbenzene (µg/L)	Methyl Cyclohexane (µg/L)	Methylene Chloride (µg/L)	Toluene (µg/L)	Heptane (µg/L)	o-Xylenes (µg/L)	m,p- Xylenes (µg/L)	Notes
NYS Standard/Guidance Value		*50*	*1*	*7*	*NS*	*5*	*NS*	*5*	*5*	*NS*	*5*	*5*	
MP-39	10/18/2011	**52 J**	<50	<50	<50	<50	<50	**60**	**1,700**	<100	<50	<50	
	11/4/2015	<6	**4**	<0.5	<2	<0.5	**3 J**	<2	**750**	<2	<0.5	**0.5 J**	
	11/14/2017	<120	**46**	<10	<40	<10	<20	<10	**29,000**	<40	<10	<10	
	2/27/2018	<12	**7**	<1	<4	<1	**3 J**	<1	**1,100**	<4	<1	<1	
	9/11/2018	**1 J**	**5**	<0.2	<0.2	**0.5 J**	**4 J**	<0.3	**1,600**	<0.2	<0.4	<1	
	12/6/2018	**21**	**6**	<0.2	**0.9 J**	**0.5 J**	**2 J**	<0.3	**740**	<0.2	<0.4	<1	Methyl acetate - 0.6 J µg/L
	4/30/2019	**12 J**	**7**	**0.2 J**	**1 J**	**0.5 J**	**2 J**	<0.3	**1,100**	1 J	<0.4	<1	Methyl acetate - 0.6 J µg/L
	9/12/2019	<50	**2.6 J**	**1.3 J**	<50	<25	**3.3 J**	<25	**600**	<25	<25	<25	
	9/12/2019	<50	**2.3 J**	<25	<50	<25	**2.6 J**	<25	**540**	<25	<25	<25	
	11/20/2019	**8.7 BJ**	**4.2 J**	<10	<20	<10	**4.2 J**	<10	**240**	<10	<10	**0.52 J**	
	7/13/2020	<130 R	**17 J**	<6.0 R	<6.5 R	<5.0 R	<5.0 R	<17 R	**3,500 J**	<6.5 R	<5.0 R	<5.0 R	
	10/13/2020	<20	**34**	<10	**18 J**	**2.1 J**	**19 J**	<10	**15,000 D**	**23**	**1.5 J**	**4.3 J**	4-Methyl-2-pentanone - 2.3 J µg/L; carbon disulfide - <20 µg/L
	4/20/2021	<20	**39**	<10	**6.1 J**	**1.6 J**	**11 J**	<10	**4,700 D**	**3.3 J**	**0.62 J**	**2.2 J**	4-Methyl-2-pentanone - 1.4 J µg/L; carbon disulfide - 5.8 J µg/L
	10/21/2021	<10	<5.0	<5.0	<10	<5.0	<10	<5.0	**0.67 J**	<5.0	<5.0	<5.0	
	4/26/2022	<1,000	**47 J**	<500	<1,000	<500	**22 J**	<500	**16,000**	<500	<500	<500	
	7/19/2022	<1,000	**71 J**	**84 J**	<1,000	<500	<1,000	<500	**17,000**	<500	<500	**22 J**	
	9/1/2022	<2,500	**98 J**	**480 J**	<2,500	<1,300	<2,500	<1,300	**37,000**	<1,300	<1,300	<1,300	Bromodichloromethane - 110 J µg/L
	5/22/2023	<1,000 J	**37 J**	<500 J	<1,000 J	<500 J	<1,000 J	<500 J	**7,200 J**	<500 J	<500 J	<500 J	
	8/10/2023	<250	**9.5 J**	<130	<250	<130	<250	<130	**2,100**	<130	<130	<130	
	11/2/2023	<10	<5.0	<5.0	<10	<5.0	<10 J	<5.0	<5.0	<5.0	<5.0	<5.0	
	2/21/2024	<100	<50	<50	<100	<50	<100	<50	**110**	<50	<50	**2.2 J**	
	8/1/2024	<50	**14**	<10	**13**	<10	**16**	<10	**4,300 D**	**17**	<10	<10	
	10/23/2024	<50 J	**21 J**	<10 J	**14 J**	**2.2 J**	**15 J**	<10 J	**12,000 DJ**	**13J**	<10 J	<20 J	
MP-40	7/17/2012	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	
	6/3/2014	<6	<0.5	<0.5	<2	<0.8	<1	<2	<0.5	<2	<0.5	<0.5	
	7/19/2022	<10	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5.0	
	5/23/2023	<10	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	1,1,1-TCA - <5.0
	8/10/2023	<10	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	
	11/1/2023	<10 J	<5.0 J	<5.0 J	<10 J	<5.0 J	<10 J	<5.0 J	<5.0 J	<5.0 J	<5.0 J	<5.0 J	
	10/23/2024	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	1,1,1-TCA - <1.0 µg/L.

Table 4-4
Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs)
Former Norton/Nashua - Watervliet, New York

Sample Designation	Date	Acetone (µg/L)	Benzene (µg/L)	Chloroform (µg/L)	Cyclohexane (µg/L)	Ethylbenzene (µg/L)	Methyl Cyclohexane (µg/L)	Methylene Chloride (µg/L)	Toluene (µg/L)	Heptane (µg/L)	o-Xylenes (µg/L)	m,p- Xylenes (µg/L)	Notes
NYS Standard/Guidance Value		*50*	*1*	*7*	*NS*	*5*	*NS*	*5*	*5*	*NS*	*5*	*5*	
OFF-SITE MONITORING WELL/POINTS													
MW-18	5/3/2006	<50	<50	<50	<50	<50	<50	21 JB	580	<50	<50	<50	
	8/22/2006	<50	<50	<50	<50	<50	<50	<50	590	<50	<50	<50	
	12/20/2006	<10	<10	<10	<10	<10	<10	4 JB	<10	<10	<10	<10	
	3/14/2007	<100	<100	<100	<100	<100	<100	<100	1,400	<100	<100	<100	
	5/23/2007	<100	<100	<100	<100	<100	<100	<100	580	<100	<100	<100	
	9/21/2007	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	12/11/2007	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	3/27/2008	<200	<200	<200	<200	<200	<200	<200	1,900	<200	<200	<200	
	6/25/2008	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	8/26/2008	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	12/16/2008	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	4/7/2009	<10	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	
	6/8/2009	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
	11/4/2009	<10	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	Chloromethane - 620 E µg/L
	2/19/2010	<10	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	
	5/9/2011	<20	<10	<10	<10	<10	<10	<10	290	<20	<10	<10	
	7/27/2011	<8.3	<5	<5	<5	<5	<5	<7.3	<5	<10	<5	<5	
	5/3/2012	6.8 J	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	
	11/28/2012	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	
	4/18/2013	<6	<0.5	<0.8	<2	<0.8	<1	<2	<0.7	<2	<0.8	<0.8	
	6/2/2014	<6	<0.5	<0.5	<2	<0.8	<1	<2	<0.5	<2	<0.5	<0.5	
	12/9/2014	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	8/12/2015	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	1/7/2016	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	7/12/2016	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	4/24/2017	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	11/14/2017	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	9/12/2018	<0.7	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.2	<0.4	<1	
	9/11/2019	<10	<5.0	<5.0	<10	<5.0	2.2 J	<5.0	<5.0	<5.0	<5.0	<5.0	
	10/13/2020	<10	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	Chloromethane - <5.0 µg/L
	10/20/2021	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5	<5	
	7/18/2022	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5	<5	
	10/31/2023	<10	<5.0	<5.0	<10	<5.0	<10 J	<5.0	<5.0	<5.0	<5.0	<5.0	
	10/22/2024	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	

Table 4-4
Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs)
Former Norton/Nashua - Watervliet, New York

Sample Designation	Date	Acetone (µg/L)	Benzene (µg/L)	Chloroform (µg/L)	Cyclohexane (µg/L)	Ethylbenzene (µg/L)	Methyl Cyclohexane (µg/L)	Methylene Chloride (µg/L)	Toluene (µg/L)	Heptane (µg/L)	o-Xylenes (µg/L)	m,p- Xylenes (µg/L)	Notes
NYS Standard/Guidance Value		*50*	*1*	*7*	*NS*	*5*	*NS*	*5*	*5*	*NS*	*5*	*5*	
MW-19	5/3/2006	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	8/22/2006	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	12/20/2006	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	3/14/2007	<10	<10	<10	<10	<10	<10	<10	6 J	<10	<10	<10	
	5/23/2007	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	9/21/2007	<10	<10	<10	<10	<10	<10	<10	18	<10	<10	<10	
	12/11/2007	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	3/28/2008	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	3/28/2008	<10	<10	<10	<10	<10	<10	<10	7.9 J	<10	<10	<10	
	6/25/2008	<10	<10	<10	<10	<10	<10	5.1 J	<10	<10	<10	<10	
	8/26/2008	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	12/16/2008	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	4/7/2009	<10	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	
	6/8/2009	11	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
	11/4/2009	<10	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	
	2/19/2010	<10	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	
	5/9/2011	<10	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	
	5/3/2012	<10	<5.0	<5.0	<5.0	<5.0	3.9 J	<5.0	3.2 J	<10	<5.0	<5.0	
	11/28/2012	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	
	4/18/2013	<6	<0.5	<0.8	<2	<0.8	<1	<2	<0.7	<2	<0.8	<0.8	
	6/2/2014	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	12/9/2014	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	8/12/2015	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	1/7/2016	<6	<0.5	<0.5	<2	<0.5	<1	<2	0.8 J	<2	<0.5	<0.5	
	7/12/2016	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	4/24/2017	<6	<0.5	<0.5	<2	<0.5	<1	<2	14	<2	<0.5	<0.5	
	11/14/2017	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	9/12/2018	<0.7	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.2	<0.4	<1	
	9/11/2019	<10	<5.0	<5.0	<10	<5.0	<5.0	<5.0	0.54 J	<5.0	<5.0	0.27 J	
	10/13/2020	<10	<5.0	<5.0	<10	<5.0	<5.0	<5.0	0.85 J	<5.0	<5.0	<5.0	
	10/20/2021	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5	<5	
	7/18/2022	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5	<5	
	10/31/2023	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	10/22/2024	<5.0	<1.0	<1.0	<1.0	<1.0	**2.3**	<1.0	<1.0	<1.0	<1.0	<2.0	

Table 4-4
Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs)
Former Norton/Nashua - Watervliet, New York

Sample Designation	Date	Acetone (µg/L)	Benzene (µg/L)	Chloroform (µg/L)	Cyclohexane (µg/L)	Ethylbenzene (µg/L)	Methyl Cyclohexane (µg/L)	Methylene Chloride (µg/L)	Toluene (µg/L)	Heptane (µg/L)	o-Xylenes (µg/L)	m,p- Xylenes (µg/L)	Notes
NYS Standard/Guidance Value		*50*	*1*	*7*	*NS*	*5*	*NS*	*5*	*5*	*NS*	*5*	*5*	
MP-6	6/14/2004	410 JB	<500	<500	<500	<500	<500	<500	9,100	<1000	<500	<500	
	10/27/2004	<10	<10	<10	<10	<10	<10	<10	120/150	<10	<10	<10	
	4/7/2005	<10	<10	<10	<10	<10	<10	<10	6 J	<10	<10	<10	
	6/23/2005	<500	<500	<500	<500	<500	<500	<500	7,900	<500	<500	<500	
	10/25/2005	<10	<10	<10	<10	<10	<10	4 JB	6 J	<10	<10	<10	
	10/25/2005	<10	<10	<10	<10	<10	<10	<10	4 J	<10	<10	<10	
	5/2/2006	<10	3 J	<10	<10	<10	<10	5 JB	150	<10	<10	<10	
	8/22/2006	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	12/20/2006	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	5/23/2007	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	9/20/2007	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	12/11/2007	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	3/26/2008	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	6/25/2008	<500	<500	<500	<500	<500	<500	<500	5,600	<500	<500	<500	
	8/27/2008	<100	<100	<100	<100	<100	<100	<100	1,600	<100	<100	<100	
	8/27/2008	<100	<100	<100	23 J	<100	<100	<100	1,200	<100	<100	<100	
	12/16/2008	<10	<10	<10	32	<10	8.6 J	<10	<10	<10	<10	<10	
	4/7/2009	<10	<5	<5	62	<5	25	<5	<5	<10	<5	<5	
	6/1/2009	<100	<50	<50	100	<50	120	88 B	1,800	<50	<50	<50	
	11/4/2009	<10	<5	<5	95	<5	110	<5	<5	<10	<5	<5	
	2/17/2010	<10	<5	<5	<5	<5	<5	<5	2.7 J	<10	<5	<5	
	5/12/2011	<10	<5	<5	46	<5	160	<5	<5	<10	<5	<5	
	10/18/2011	<10	<5	<5	63	<5	190	<5	<5	<10	<5	<5	
	5/2/2012	28 JB	<25	<25	67	<25	540	<25	<25	<50	<25	<25	
	11/27/2012	<100	<50	<50	90 J	<50	1,400 J	<50	<50	<100	<50	<50	
	4/17/2013	<6	<0.5	<0.8	51	<0.8	570	<2	0.8 J	<2	<0.8	<0.8	
	6/4/2014	<6	<0.5	<0.8	26/26	<0.8	330/360	<2	<0.5	<2	<0.8	<0.5	
	12/9/2014	<6	<0.5	<0.5	35	<0.5	410	<2	<0.5	<2	<0.5	<0.5	
	8/12/2015	<6	<0.5	<0.5	24	<0.5	390	<2	<0.5	<2	<0.5	<0.5	1,2-Dichloropropane - 10 µg/L
	1/6/2016	<6	<0.5	<0.5	15	<0.5	370	<2	<0.5	<2	<0.5	<0.5	
	1/6/2016	<6	<0.5	<0.5	24	<0.5	360	<2	<0.5	<2	<0.5	<0.5	
	7/12/2016	<6	<0.5	<0.5	12	<0.5	260	<2	<0.5	<2	<0.5	<0.5	
	4/24/2017	<6	<0.5	<0.5	5	<0.5	110	<2	<0.5	<2	<0.5	<0.5	
	11/14/2017	<6	<0.5	<0.5	5 J	<0.5	130	<2	<0.5	<2	<0.5	<0.5	
	9/12/2018	<0.7	<0.2	<0.2	0.9 J	<0.4	27	<0.3	<0.2	<0.2	<0.4	<1	
	9/11/2019	<10	<5.0	<5.0	<10	<5.0	0.72 J	<5.0	<5.0	<5.0	<5.0	<5.0	
	10/13/2020	<10	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	Chloromethane - <5.0 µg/L
	10/22/2021	<10	<5.0	<5.0	<10	<5.0	0.25 J	<5.0	<5.0	<5.0	<5.0	<5.0	
	7/18/2022	<10	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	
	11/1/2023	<10	<5.0	<5.0	<10	<5.0	<10 J	<5.0	<5.0	<5.0	<5.0	<5.0	
	10/22/2024	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	

Table 4-4
Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs)
Former Norton/Nashua - Watervliet, New York

Sample Designation	Date	Acetone (µg/L)	Benzene (µg/L)	Chloroform (µg/L)	Cyclohexane (µg/L)	Ethylbenzene (µg/L)	Methyl Cyclohexane (µg/L)	Methylene Chloride (µg/L)	Toluene (µg/L)	Heptane (µg/L)	o-Xylenes (µg/L)	m,p- Xylenes (µg/L)	Notes
NYS Standard/Guidance Value		*50*	*1*	*7*	*NS*	*5*	*NS*	*5*	*5*	*NS*	*5*	*5*	
MP-14	9/9/2004	76	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	850	<5.0	<5.0	<5.0	
	4/7/2005	<10	<10	<10	<10	<10	<10	<10	46/48	<10	<10	<10	
	6/23/2005	<10	<10	<10	<10	<10	<10	<10	110/170	<10	<10	<10	
	10/25/2005	<10	<10	<10	6 J	<10	<10	<10	7 J	<10	<10	<10	
	5/3/2006	<10	<10	<10	<10	<10	<10	5 JB	<10	<10	<10	<10	
	8/22/2006	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	12/19/2006	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	5/23/2007	<10	<10	<10	<10	<10	<10	<10	4 J	<10	<10	<10	
	9/20/2007	<100	<100	<100	<100	<100	<100	<100	870	<100	<100	<100	
	12/11/2007	<100	<100	<100	<100	<100	<100	<100	1,400	<100	<100	<100	
	3/27/2008	<200	<200	<200	<200	<200	<200	<200	3,100	<200	<200	<200	
	6/25/2008	<10	<10	<10	<10	<10	<10	<10	10	<10	<10	<10	
	8/26/2008	<10	<10	<10	<10	<10	<10	<10	140	<10	<10	<10	
	12/17/2008	<10	<10	<10	<10	<10	<10	<10	38/48	<10	<10	<10	
	4/7/2009	<10	<5	<5	<5	<5	<5	<5	67/68	<10	<5	<5	
	6/1/2009	<10	<5	<5	<5	<5	<5	<5	14	<5	<5	<5	
	11/3/2009	<10	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	
	11/3/2009	<10	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	
	2/17/2010	8.2 J	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	
MP-14 (cont.)	5/9/2011	<10	<5	<5	<5	<5	12	<5	85	<10	<5	<5	
	4/17/2013	<6	<0.5	<0.8	<2	<0.8	10	<2	180	<2	<0.8	<0.8	
	6/4/2013	<6	<0.5	<0.8	3 J/3 J	<0.8	5 J/4 J	<2	23/21	<2	<0.8	<0.8	
	12/9/2013	<6	<0.5	<0.8	<2	<0.8	22	<2	8	<2	<0.8	<0.8	
	6/4/2014	<6	<0.5	<0.5	<2	<0.5	9	<2	5	<2	<0.5	<0.5	
	12/9/2014	<6	<0.5	<0.5	<2	<0.5	7	<2	1	<2	<0.5	<0.5	
	8/12/2015	<6	<0.5	<0.5	<2	<0.5	2 J	<2	<0.5	<2	<0.5	<0.5	
	1/6/2016	<6	<0.5	<0.5	<2	<0.5	12	<2	1	<2	<0.5	<0.5	
	7/12/2016	<6	<0.5	<0.5	<2	<0.5	17	<2	0.8 J	<2	<0.5	<0.5	
	4/24/2017	<6	<0.5	<0.5	<2	<0.5	7	<2	9	<2	<0.5	<0.5	
	11/14/2017	<6	<0.5	<0.5	<2	<0.5	9	<2	<0.5	<2	<0.5	<0.5	
	9/12/2018	<0.7	<0.2	<0.2	0.4 J	<0.4	7	<0.3	<0.2	<0.2	<0.4	<1	
	9/11/2019	<10	<5.0	<5.0	<10	<5.0	8.4 J	<5.0	1.1 J	<5.0	<5.0	0.26 J	
	10/13/2020	<10	<5.0	<5.0	<10	<5.0	6.3 J	<5.0	0.22 J	<5.0	<5.0	<5.0	Chloromethane - <5.0 µg/L
	10/21/2021	<10	<5	<5	<10	<5	1.4 J	<5	<5	<5	<5	<5	
	7/18/2022	<10	<5	<5	<10	<5	1.1 J	<5	<5	<5	<5	<5	
	10/31/2023	<10 J	<5.0 J	<5.0 J	<10 J	<5.0 J	<10 J	<5.0 J	<5.0 J	<5.0 J	<5.0 J	<5.0 J	
	10/22/2024	<5.0	<1.0	<1.0	<1.0	<1.0	**1.5**	<1.0	<1.0	<1.0	<1.0	<2.0	

Table 4-4
Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs)
Former Norton/Nashua - Watervliet, New York

Sample Designation	Date	Acetone (µg/L)	Benzene (µg/L)	Chloroform (µg/L)	Cyclohexane (µg/L)	Ethylbenzene (µg/L)	Methyl Cyclohexane (µg/L)	Methylene Chloride (µg/L)	Toluene (µg/L)	Heptane (µg/L)	o-Xylenes (µg/L)	m,p- Xylenes (µg/L)	Notes
NYS Standard/Guidance Value		***50***	***1***	***7***	***NS***	***5***	***NS***	***5***	***5***	***NS***	***5***	***5***	
MP-17	9/7/2004	<2500	<1200	<1200	<1200	<1200	<1200	<1200	10,000	<2500	<1200	<1200	
	10/27/2004	<250	<250	<250	<250	<250	<250	<250	4,800	<250	<250	<250	
	4/7/2005	<10	<10	<10	<10	<10	12	<10	1,400 E	<10	<10	<10	
	4/7/2005	<200	<200	<200	<200	<200	<200	<200	1,400 D	<200	<200	<200	
	6/23/2005	<100	<100	<100	<100	<100	<100	<100	1,200	<100	<100	<100	
	10/25/2005	<200	<200	<200	<200	<200	<200	340	1,900	<200	<200	<200	
	5/3/2006	<10	<10	<10	<10	<10	<10	<10	160	<10	<10	<10	
	12/19/2006	<10	<10	<10	<10	<10	6 J	<10	180	<10	<10	<10	
	3/14/2007	<10	<10	<10	<10	<10	<10	<10	78	<10	<10	<10	
	5/23/2007	<200	<200	<200	<200	<200	<200	<200	2,200	<200	<200	<200	
	9/20/2007	<10	<10	<10	<10	<10	<10	<10	330/540 E	<10	<10	<10	
	12/11/2007	<20	<20	<20	<20	<20	<20	<20	220	<20	<20	<20	
	3/27/2008	<20	<20	<20	<20	<20	<20	<20	240	<20	<20	<20	
	6/25/2008	<10	<10	<10	<10	<10	<10	<10	8.3 J/8.4	<10	<10	<10	
	8/26/2008	<10	<10	<10	<10	<10	<10	<10	4.3 J	<10	<10	<10	
	12/17/2008	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	4/7/2009	<10	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	
	6/8/2009	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
	11/4/2009	<10	<5	<5	<5	<5	<5	<5	8.5	<10	<5	<5	Chloromethane - 680 E µg/L
	2/17/2010	<10	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	4-Methyl-2-pentanone - 2.8 J µg/L
	5/9/2011	<10 J	<5 J	<5 J	<5 J	<5 J	<5 J	<5 J	4.7 J	<10 J	<5 J	<5 J	
	10/18/2011	<10	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	
	5/2/2012	5.9 J	<5.0	<5.0	<5.0	<5.0	2.7	<5.0	3.0 J	<10	<5.0	<5.0	
	11/28/2012	<10	<5.0	<5.0	<5.0	<5.0	1.9 J	<5.0	<5.0	<10	<5.0	<5.0	
	4/18/2013	<6	<0.5	<0.8	<2	<0.8	1 J	<2	<0.7	<2	<0.8	<0.8	
	6/2/2014	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	12/9/2014	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	8/12/2015	<6	<0.5	<0.5	<2	<0.5	3 J	<2	<0.5	<2	<0.5	<0.5	
	1/6/2016	<6	<0.5	<0.5	<2	<0.5	1 J	<2	<0.5	<2	<0.5	<0.5	
	7/12/2016	<6	<0.5	<0.5	<2	<0.5	4 J	<2	<0.5	<2	<0.5	<0.5	
	4/24/2017	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	11/14/2017	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	9/12/2018	<0.7	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.2	<0.4	<1	
	9/11/2019	<10	<5.0	<5.0	<10	<5.0	0.58 J	<5.0	1.7 J	<5.0	<5.0	0.41 J	
	10/13/2020	<10	<5.0	<5.0	<10	<5.0	1.6 J	<5.0	<5.0	<5.0	<5.0	<5.0	Chloromethane - <5.0 µg/L
	10/21/2021	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5	<5	
	7/18/2022	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5	<5	Methyl Acetate - 0.36 J µg/L
	10/31/2023	<10	<5.0	<5.0	<10	<5.0	<10 J	<5.0	<5.0	<5.0	<5.0	<5.0	
	10/22/2024	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	

Table 4-4
Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs)
Former Norton/Nashua - Watervliet, New York

Sample Designation	Date	Acetone (µg/L)	Benzene (µg/L)	Chloroform (µg/L)	Cyclohexane (µg/L)	Ethylbenzene (µg/L)	Methyl Cyclohexane (µg/L)	Methylene Chloride (µg/L)	Toluene (µg/L)	Heptane (µg/L)	o-Xylenes (µg/L)	m,p- Xylenes (µg/L)	Notes
NYS Standard/Guidance Value		*50*	*1*	*7*	*NS*	*5*	*NS*	*5*	*5*	*NS*	*5*	*5*	
MP-19	6/23/2005	13	<10	<10	<10	<10	<10	4 J	<10	<10	<10	<10	
	5/3/2006	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	6/2/2014	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	12/9/2014	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	8/12/2015	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	1/7/2016	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	7/12/2016	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	4/24/2017	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	11/14/2017	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	9/12/2018	<0.7	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.2	<0.4	<1	
	9/11/2019	<10	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
	10/13/2020	<10	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	Chloromethane - <5.0 µg/L
	10/20/2021	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5	<5	
	7/18/2022	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5	<5	
	10/31/2023	<10 J	<5.0 J	<5.0 J	<10 J	<5.0 J	<10 J	<5.0 J	<5.0 J	<5.0 J	<5.0 J	<5.0 J	
	10/21/2024	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	
MP-22	11/15/2004	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	4/7/2005	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	6/23/2005	<10	<10	<10	<10	<10	<10	4 J	<10	<10	<10	<10	
	10/25/2005	<10	<10	<10	<10	<10	<10	7 J	<10	<10	<10	<10	
	5/2/2006	<10	<10	<10	<10	<10	<10	5 JB	10 J	<10	<10	<10	
	8/21/2006	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	12/19/2006	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	3/14/2007	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	5/23/2007	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	9/21/2007	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	12/11/2007	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	3/26/2008	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	6/25/2008	<10	<10	<10	<10	<10	<10	<10	58	<10	<10	<10	
	8/28/2008	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	12/17/2008	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
	4/7/2009	<10	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	
	6/8/2009	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	

Table 4-4
Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs)
Former Norton/Nashua - Watervliet, New York

Sample Designation	Date	Acetone (µg/L)	Benzene (µg/L)	Chloroform (µg/L)	Cyclohexane (µg/L)	Ethylbenzene (µg/L)	Methyl Cyclohexane (µg/L)	Methylene Chloride (µg/L)	Toluene (µg/L)	Heptane (µg/L)	o-Xylenes (µg/L)	m,p- Xylenes (µg/L)	Notes
NYS Standard/Guidance Value		***50***	***1***	***7***	***NS***	***5***	***NS***	***5***	***5***	***NS***	***5***	***5***	
MP-22	11/4/2009	<10	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	
(Cont.)	2/19/2010	<10	<5	4.5 J	<5	<5	<5	<5	<5	<10	<5	<5	
	5/9/2011	<10	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	
	5/3/2012	6.1 J	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	
	11/28/2012	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	
	4/17/2013	<6	<0.5	<0.8	<2	<0.8	<1	<2	<0.7	<2	<0.8	<0.8	
	6/4/2014	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	12/8/2014	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	8/12/2015	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	3/15/2016	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	7/12/2016	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	4/24/2017	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	11/14/2017	<6	<0.5	<0.5	<2	<0.5	<1	<2	<0.5	<2	<0.5	<0.5	
	9/12/2018	<0.7	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.2	<0.4	<1	
	9/11/2019	<10	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
	10/13/2020	<10	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	Chloromethane - <5.0 µg/L
	10/20/2021	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5	<5	
	7/18/2022	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5	<5	
	10/31/2023	<10	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	
	10/21/2024	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	

Table 4-4
Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs)
Former Norton/Nashua - Watervliet, New York

Sample Designation	Date	Acetone (µg/L)	Benzene (µg/L)	Chloroform (µg/L)	Cyclohexane (µg/L)	Ethylbenzene (µg/L)	Methyl Cyclohexane (µg/L)	Methylene Chloride (µg/L)	Toluene (µg/L)	Heptane (µg/L)	o-Xylenes (µg/L)	m,p- Xylenes (µg/L)	Notes
NYS Standard/Guidance Value		***50***	***1***	***7***	***NS***	***5***	***NS***	***5***	***5***	***NS***	***5***	***5***	
QA/QC SAMPLES													
TB	9/1/2022	<10	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	2-butanone - 4.1 J µg/L; chloromethane - 0.28 J µg/L
	5/25/2023	5.5 J	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	2-butanone - 1.2 J µg/L; 2-hexanone - 0.22 J µg/L
	8/10/2023	13	<5.0	<5.0	<10	<5.0	<10	<5.0	0.32 J	<5.0	0.25 J	<5.0	2-butanone - 2.1 J µg/L
	10/31/2023	7.4 J	<5.0	<5.0	<10	<5.0	<10	<5.0	0.28 J	<5.0	<5.0	0.20 J	2-butanone - 3.6 J µg/L
	2/22/2024	<10	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	
	8/2/2024	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	10/24/2024	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	
FB	9/1/2022	<10	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	
	5/23/2023	<10	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	
	8/10/2023	5.9 J	<5.0	<5.0	<10	<5.0	<10	<5.0	0.32 J	<5.0	<5.0	<5.0	2-butanone - 4.1 J µg/L
	11/3/2023	<10	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	
	2/22/2024	<10	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	
	8/2/2024	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	10/23/2024	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	

Notes:

1. µg/L = micrograms per liter; Dup. = duplicate sample; FB = field blank; TB = trip blank; NA = not analyzed for the indicated parameter; ND = not detected; B = detected in the laboratory blank; DIL/D = laboratory diluted sample; E = laboratory estimated concentration;J = estimated concentration, detected below the quantitation limit; < ("less than") = analyte concentration below the laboratory detectionlimit; BPQL = compound reported present below the practical quantitation limit, "-" = analytical data/report not available for review; R = data rejected due to headspace. VOCs analyzed via EPA Method 8260 plus heptane (and tentatively identified compounds [TICs] in selected previous samples).Only detected analytes are tabulated above. For a complete list of analytes, see the original laboratory reports.

Table 4-5
Summary of Vapor Analytical Data
March 2024 Heating Season Sampling
Former Norton/Nashua Facility
Watervliet, New York

Sample ID:		DB-VMP-2	DB-VMP-3	Indoor Air	Outdoor Ambient	Trip Blank
Date Sampled:	***Matrix***	3/15/2024	3/15/2024	3/15/2024	3/15/2024	3/15/2024
Trichloroethene (TCE)		**0.11 J**	<0.14	<0.15	<0.13	<0.11
cis-1,2-Dichloroethylene (cis-1,2-DCE)	***A***	<0.13	<0.14	<0.15	<0.13	<0.11
1,1-Dichloroethylene (1,1-DCE)		<0.13	<0.14	<0.15	<0.13	<0.11
Carbon Tetrachloride		**0.47**	**0.21**	**0.42**	**0.41**	<0.11
Tetrachloroethene (PCE)		**33**	**4.7**	**19**	**0.18**	<0.11
1,1,1-Trichloroethane (1,1,1-TCA)	***B***	<0.13	**0.10 J**	<0.15	<0.13	<0.11
Methylene chloride		**0.56 J**	<0.68	**0.56 J**	**0.49 J**	<0.53
Vinyl Chloride	***C***	<0.13	<0.14	<0.15	<0.13	<0.11
Benzene		**1.5**	**0.37**	**1.2**	**0.37**	<0.11
Ethylbenzene		**1.7**	**18**	**1.1**	<0.64	<0.53
Cyclohexane		**0.65 J**	<1.3	**0.40 J**	<1.3	<1.1
2,2,4-Trimethylpentane (Isooctane)	***D***	**7.2**	**0.67 J**	**4.4**	<0.65	<0.54
1,2,4-Trimethylbenzene		**2.2**	**0.81**	**1.7**	<0.64	<0.53
1,3,5-Trimethylbenzene		**0.74**	**0.26 J**	**0.59 J**	<0.64	<0.53
o-Xylene		**1.9**	**25**	**1.3**	<0.64	<0.53
m,p-Xylene		**5.4**	**70**	**3.4**	**0.36 J**	<1.1
Heptane	***E***	**2.2**	**1.2 J**	**33**	<0.64	<0.53
Hexane		**2.0**	**0.28 J**	**1.4**	**0.19 J**	<0.53
Toluene	***F***	**12**	**19**	**8.0**	**0.64**	<0.53
Acetone		**61**	**14**	**46**	**6.5**	<5.3
1,3-Butadiene		<0.25	<0.27	<0.29	<0.25	<0.21
Bromodichloromethane		<0.13	<0.14	<0.15	<0.13	<0.11
Bromomethane		**0.14 J**	<0.27	**0.13 J**	<0.25	<0.21
Carbon disulfide		**0.69 J**	**2.7**	**0.35 J**	**0.76 J**	<1.1
Chloroform		**0.22**	<0.14	**0.17**	<0.13	<0.11
Chloromethane		**0.71**	<0.27	**0.68**	**0.48**	<0.21
1,1-Dichloroethane		<0.13	<0.14	<0.15	<0.13	<0.11
1,2-Dichloroethane		**0.084 J**	<0.14	<0.15	<0.13	<0.11
Dichlorodifluoromethane	**---**	**2.3**	**2.4**	**2.3**	**2.4**	<0.53
trans-1,2-DCE		<0.13	<0.14	<0.15	<0.13	<0.11
m-Dichlorobenzene		**0.26 J**	**0.11 J**	**0.17 J**	<0.64	<0.53
p-Dichlorobenzene		**0.12 J**	**0.40 J**	**0.11 J**	<0.64	<0.53
Ethanol		**25**	**8.4**	**24**	**2.5 J**	<5.0
Ethyl Acetate		**1.4 J**	**3.3**	**9.2**	**0.94 J**	<2.1
4-Ethyltoluene		**0.67**	**0.31 J**	**0.48 J**	<0.66	<0.55
Hexachlorobutadiene		<0.63	<0.68	<0.73	<0.64	<0.53
2-Hexanone		<1.3	<1.4	<1.5	**0.58 J V**	<1.1
Isopropyl alcohol (2-Propanol)		**2.7**	**0.90 J**	**2.3**	<1.2	<1.0
Methyl ethyl ketone (2-Butanone)		**4.6**	**1.3 J**	**4.4**	**1.0 J**	<1.0
Methyl Isobutyl Ketone (4-methyl-2-pentanone)		**2.4**	**0.74 J**	**1.8**	**0.22 J**	<1.1
Methylmethacrylate		<1.3	<1.4	<1.5	<1.3	<1.1
Propylene		<0.63	<0.68	<0.73	<0.64	<0.53
Styrene		**1.8**	**0.40 J**	**2.2**	**0.33 J**	<0.53
1,2,4-Trichlorobenzene		<1.3	<1.4	<1.5	<0.64	<1.1
Tertiary Butyl Alcohol	**---**	<1.3	<1.4	<1.4	<1.3	<1.1
Tetrahydrofuran		<0.60	<0.64	<0.69	<0.60	<0.50
1,1,2,2-Tetrachloroethane		<0.13	**0.21**	<0.15	<0.13	<0.11
Trichlorofluoromethane		**1.9**	**1.4**	**1.6**	**1.2**	<0.52
Trichlorotrifluoromethane		**0.54 J**	**0.54 J**	**0.53 J**	**0.52 J**	<0.54
Vinyl Acetate		<6.0	<6.4	<6.9	<6.0	<5.0
Xylenes (total)		**7.3**	**95**	**4.7**	**0.49 J**	<1.1
Total VOC TICs		**303.3 J**	**253.5 J**	**527.5 J**	**14.6 J**	**3.2 J**

Notes:

1. All samples were analyzed for VOCs via EPA Method TO-15 plus TICs. Only detected analytes are listed above.
2. All results presented in micrograms per cubic meter ($\mu g/m^3$).
3. VOC = Volatile Organic Compounds; TICs = tentatively identified compounds; J = estimated concentration; ND = not detected (laboratory detection limit); VMP = vapor monitoring point.
4. **19** = "Identify Source(s) and resample or Mitigate".
5. A shaded cell indicated concentration exceeds NYSDEC/NYSDOH sub-slab vapor/indoor air criteria. (Note: Criteria for Matrices D, E, and F promulgated in February 2024).

Table 4-6
Vapor Analytical Data Analysis
March 2024 Heating Season Sampling
Former Norton/Nashua Facility
Watervliet, New York

Analyte	Matrix	Indoor Air	Sub-Slab (Max)	Description
Trichloroethene (TCE)	*A*	<0.15	**0.11 J**	<0.2 in Indoor air and <6 in sub slab = No Further Action
cis-1,2-Dichloroethylene (cis-1,2-DCE)		<0.15	ND	<0.2 in Indoor air and <6 in sub slab = No Further Action
1,1-Dichloroethylene (1,1-DCE)		<0.15	ND	<0.2 in Indoor air and <6 in sub slab = No Further Action
Carbon Tetrachloride		**0.42**	**0.47**	0.2 - <1 in Indoor air and <6 in sub slab = No Further Action
Tetrachloroethene (PCE)	*B*	**19**	**33**	PCE >10 ug/m3 in Indoor Air and sub-slab <100 = Identify sources, resample or mitigate
1,1,1-Trichloroethane (1,1,1-TCA)		<0.15	**0.10 J**	Indoor air <3 ug/m3 and sub-slab <100 = No Further Action
Methylene chloride		**0.56 J**	**0.56 J**	Indoor air <3 ug/m3 and sub-slab <100 = No Further Action
Vinyl Chloride	*C*	<0.15	<0.14	Indoor air <0.2 ug/m3 and sub-slab <6 = No Further Action
Benzene	*D*	**1.2**	**1.5**	Indoor air <2 ug/m3 and sub-slab <60 µg/m3 = No Further Action
Ethylbenzene		**1.1**	**18**	Indoor air <2 ug/m3 and sub-slab <60 µg/m3 = No Further Action
Cyclohexane		**0.40 J**	**0.65 J**	Indoor air <2 ug/m3 and sub-slab <60 µg/m3 = No Further Action
2,2,4-Trimethylpentane (Isooctane)		**4.4**	**7.2**	Indoor air <2 - 10 ug/m3 and sub-slab <60 µg/m3 = No Further Action
1,2,4-Trimethylbenzene		**1.7**	**2.2**	Indoor air <2 ug/m3 and sub-slab <60 µg/m3 = No Further Action
1,3,5-Trimethylbenzene		**0.59 J**	**0.74**	Indoor air <2 ug/m3 and sub-slab <60 µg/m3 = No Further Action
o-Xylene		**1.3**	**25**	Indoor air <2 ug/m3 and sub-slab <60 µg/m3 = No Further Action
m,p-Xylene	*E*	**3.4**	**70**	Indoor air <6 ug/m3 and sub-slab <200 µg/m3 = No Further Action
Heptane		**33**	**2.2**	Indoor air >20 ug/m3 and sub-slab <200 µg/m3 = Identify sources, resample or mitigate
Hexane		**1.4**	**2.0**	Indoor air <6 ug/m3 and sub-slab <200 µg/m3 = No Further Action
Toluene	*F*	**8.0**	**19**	Indoor air <10 ug/m3 Sub-slab <300 µg/m3 = No Further Action

Notes:

1. All samples were analyzed for VOCs via EPA Method TO-15 plus TICs. Only detected analytes are listed above.
2. All results presented in micrograms per cubic meter (µg/m^3).
3. VOC = Volatile Organic Compounds; TICs = tentatively identified compounds; J = estimated concentration; ND = not detected (laboratory detection limit); VMP = vapor monitoring point.
4. **19** = "Identify Source(s) and resample or Mitigate".
5. A shaded cell indicated concentration exceeds NYSDEC/NYSDOH sub-slab vapor/indoor air criteria. (Note: Criteria for Matrices D, E, and F promulgated in February 2024).

Table 4-7
Summary of Vapor Analytical Data
June 2024 In-Situ Chemical Oxidation (ISCO) Event Sampling
Former Norton/Nashua Facility
Watervliet, New York

		June 2024 ISCO Sampling Event					
Sample ID:		**DB-VMP-1**	**DB-VMP-2**	**DB-VMP-3**	**Indoor Air**	**Outdoor Ambient**	**Trip Blank**
Date Sampled:	***Matrix***	6/7/2024	6/7/2024	6/7/2024	6/7/2024	6/7/2024	6/7/2024
Trichloroethene (TCE)	***A***	<34	<6.2	<6.7	<2.1	**0.29 J**	<0.34
cis-1,2-Dichloroethylene (cis-1,2-DCE)		<34	<6.2	<6.7	<2.1	<0.62	<0.34
1,1-Dichloroethylene (1,1-DCE)		<34	<6.2	<6.7	<2.1	<0.62	<0.34
Carbon Tetrachloride		<34	<6.2	<6.7	**0.38 J**	**0.37 J**	<0.34
Tetrachloroethene (PCE)	***B***	**7.4 J**	**4.8 J**	**3.7 J**	**3.3**	**0.14 J**	<0.34
1,1,1-Trichloroethane (1,1,1-TCA)		<34	**1.2 J**	<6.7	<2.1	<0.62	<0.34
Methylene chloride		<34	<6.2	<6.7	<2.1	**0.40 J**	<0.34
Vinyl Chloride	***C***	<34	<6.2	<6.7	<2.1	<0.62	<0.34
Benzene	***D***	<34	<6.2	<6.7	**1.3 J**	**0.34 J**	<0.34
Ethylbenzene		<34	<6.2	**2.6 J**	**1.7 J**	**0.35 J**	<0.34
Cyclohexane		<68	<12	<13	**2.5 J**	<1.2	<0.67
2,2,4-Trimethylpentane (Isooctane)		<34	<6.2	<6.7	**7.0**	**0.62**	<0.34
1,2,4-Trimethylbenzene		<34	**3.1 J**	**6.9**	**2.4**	**0.24 J**	<0.34
1,3,5-Trimethylbenzene		<34	<6.2	**2.4 J**	**0.88 J**	<0.62	<0.34
o-Xylene		<34	<6.2	**4.7 J**	**1.9**	**0.34 J**	<0.34
m,p-Xylene	***E***	<68	**4.1 J**	**10 J**	**5.1**	**0.89 J**	<0.67
Heptane		**17**	**5.6**	**14**	**58**	**0.57 J**	<0.34
Hexane		<34	<6.2	<6.7	**2.1**	**0.41 J**	<0.34
Toluene	***F***	**78**	**22**	**91**	**210**	**2.5**	<0.34
Acetone	---	**54**	**28**	**17**	**40**	**9.5**	<3.4
1,3-Butadiene		<34	<6.2	<6.7	<2.1	<0.62	<0.34
Bromodichloromethane		<34	<6.2	<6.7	<2.1	<0.62	<0.34
Bromomethane		<34	<6.2	<6.7	<2.1	<0.62	<0.34
Carbon disulfide		<340	<62	<67	**6.0 J**	**0.29 J**	<3.4
Chloroform		<34	<6.2	<6.7	**0.66 J**	**0.17 J**	<0.34
Chloromethane		<34	<6.2	<6.7	**2.0 J**	**0.49 J**	<0.34
1,1-Dichloroethane		<34	<6.2	<6.7	<2.1	<0.62	<0.34
1,2-Dichloroethane		<34	<6.2	<6.7	<2.1	<0.62	<0.34
Dichlorodifluoromethane		<34	**2.4 J**	**2.4 J**	**2.1 J**	**2.3**	<0.34
trans-1,2-DCE		<34	<6.2	<6.7	<2.1	<0.62	<0.34
1,3-Dichlorobenzene (m)		<34	<6.2	<6.7	**0.39 J**	<0.62	<0.34
1,4-Dichlorobenzene (p)		<34	<6.2	<6.7	<2.1	<0.62	<0.34
Ethanol		<54	<62	<67	**23**	**7.3**	<3.4
Ethyl Acetate		<68	<12	<13	**1.7 J**	**3.7**	<0.67
4-Ethyltoluene		<34	<6.2	<6.7	**0.70 J**	<0.62	<0.34
Hexachlorobutadiene		<34	<6.2	<6.7	<2.1	<0.62	<0.34
2-Hexanone		<34	**4.4 J**	**3.6 J**	<2.1	<0.62	<0.34
Isopropyl alcohol (2-Propanol)		<340	<62	<67	**3.2 J**	**0.65 J**	<3.4
Methyl ethyl ketone (2-Butanone)		<340	**4.0 J**	<67	**2.9 J**	**1.2 J**	<3.4
Methyl Isobutyl Ketone (4-methyl-2-pentanone)		<34	<6.2	<6.7	**3.6**	<0.62	<0.34
Methylmethacrylate		<68	<12	<13	<4.2	<1.2	<0.67
Propylene (Propene)		<34	<6.2	<6.7	<2.1	<0.62	<0.34
Styrene		<34	<6.2	**2.4 J**	**1.8 J**	<0.62	<0.34
1,2,4-Trichlorobenzene		<34	<6.2	<6.7	<2.1	<0.62	<0.34
Tertiary Butyl Alcohol		<68	<12	<13	<4.2	<1.2	<0.67
Tetrahydrofuran		<34	<6.2	<6.7	<2.1	<0.62	<0.34
1,1,2,2-Tetrachloroethane		<34	<6.2	<6.7	<2.1	<0.62	<0.34
Trichlorofluoromethane		<34	**1.7 J**	**1.7 J**	**1.9 J**	**1.1**	<0.34
Trichlorotrifluoroethane		<34	<6.2	<6.7	**0.48 J**	**0.47 J**	<0.34
Vinyl Acetate		<340	<62	<67	<21	<6.2	<3.4
Xylenes (total)		**21**	**5.9**	**15**	**7.0**	**1.2 J**	<0.67
Total VOC TICs		**5,330 J**	**4,710 J**	**6,550 J**	**647 J**	**40.3 J**	ND

Notes:

1. All samples were analyzed for VOCs via EPA Method TO-15 plus TICs. Only detected analytes are listed above.
2. All results presented in micrograms per cubic meter ($\mu g/m^3$).
3. VOC = Volatile Organic Compounds; TICs = tentatively identified compounds; J = estimated concentration; ND = not detected (laboratory detection limit); VMP = vapor monitoring point.
4. **58** = "Identify Source(s) and resample or Mitigate".
5. A shaded cell indicated concentration exceeds NYSDEC/NYSDOH sub-slab vapor/indoor air "Mitigation" criteria. (Note: Criteria for Matricies D, E, and F promulugated in February

Table 4-8
Vapor Analytical Data Analysis
June 2024 In-Situ Chemical Oxidation (ISCO) Event Sampling
Former Norton/Nashua Facility
Watervliet, New York

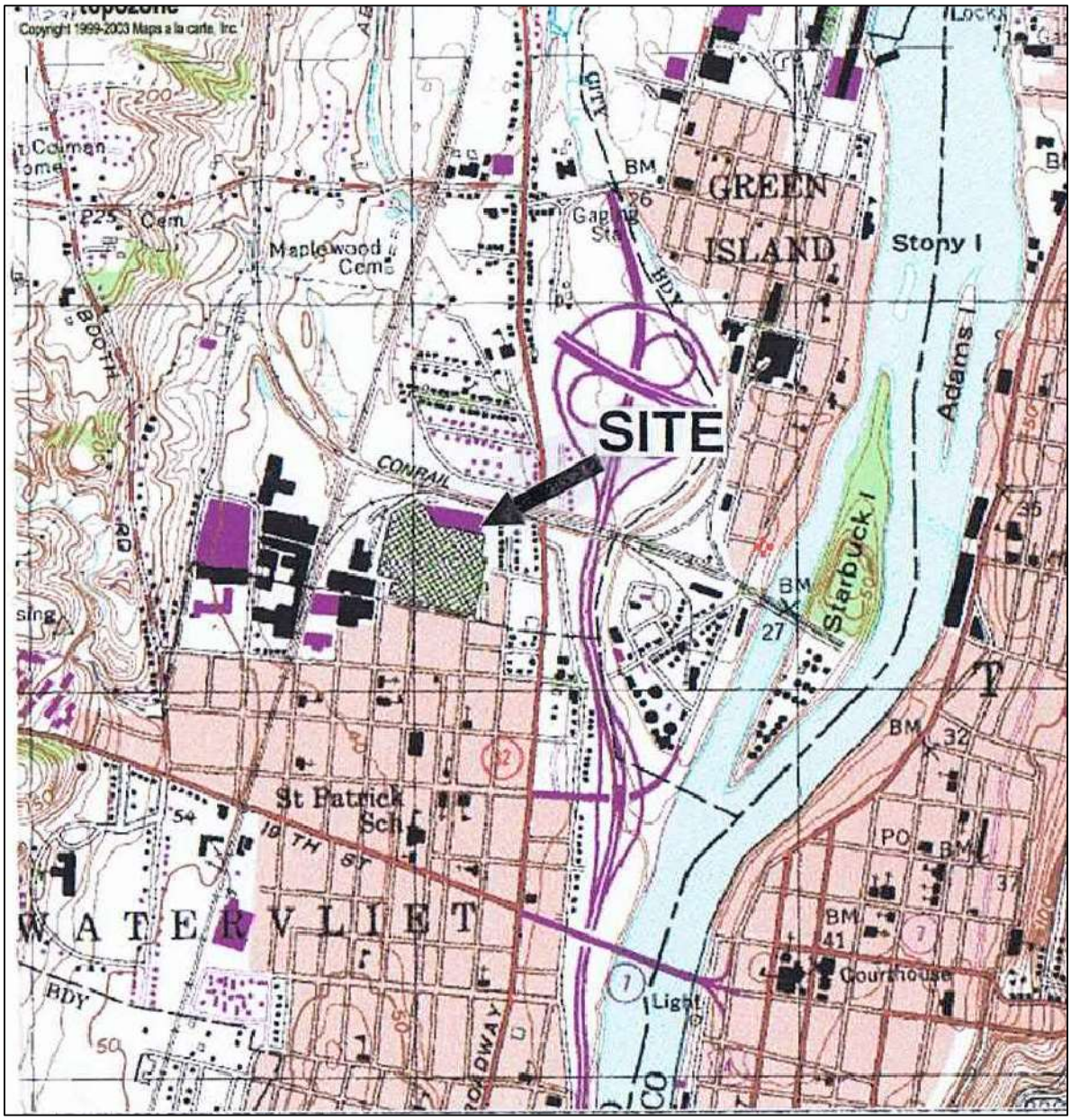
Analyte	Matrix	Indoor Air	Sub-Slab (Max)	Description
Trichloroethene (TCE)	***A***	<2.1*	ND*	Indoor air ND and sub-slab ND = No Further Action*
cis-1,2-Dichloroethylene (cis-1,2-DCE)		<2.1*	ND*	Indoor air ND and sub-slab ND = No Further Action*
1,1-Dichloroethylene (1,1-DCE)		<2.1	ND*	Indoor air ND and sub-slab ND = No Further Action*
Carbon Tetrachloride		**0.38 J**	ND*	0.2 - <1 in Indoor air and ND in sub slab = No Further Action
Tetrachloroethene (PCE)	***B***	**3.3**	**7.4 J**	PCE <10 ug/m3 in Indoor Air and <100 in Sub-Slab = No further Action
1,1,1-Trichloroethane (1,1,1-TCA)		<2.1	**1.2 J**	Indoor air <3 ug/m3 and sub-slab <100 = No Further Action
Methylene chloride		<2.1	ND	Indoor air <3 ug/m3 and sub-slab <100 = No Further Action
Vinyl Chloride	***C***	<2.1*	ND*	Indoor air ND and sub-slab ND = No Further Action*
Benzene	***D***	**1.3 J**	ND	Indoor air <2 ug/m3 Sub-slab <60 µg/m3 = No Further Action
Ethylbenzene		**1.7 J**	**2.6 J**	Indoor air <2 ug/m3 Sub-slab <60 µg/m3 = No Further Action
Cyclohexane		**2.5 J**	ND	Indoor air <10 ug/m3 Sub-slab <60 µg/m3 = No Further Action
2,2,4-Trimethylpentane (Isooctane)		**7.0**	ND	Indoor air <10 ug/m3 <60 µg/m3 = No Further Action
1,2,4-Trimethylbenzene		**2.4**	**6.9**	Indoor air <10 ug/m3 Sub-slab <60 µg/m3 = No Further Action
1,3,5-Trimethylbenzene		**0.88 J**	**2.4 J**	Indoor air <2 ug/m3 Sub-slab <60 µg/m3 = No Further Action
o-Xylene		**1.9**	**4.7 J**	Indoor air <2 ug/m3 Sub-slab <60 µg/m3 = No Further Action
m,p-Xylene	***E***	**5.1**	**10 J**	Indoor air <6 ug/m3 Sub-slab <200 µg/m3 = No Further Action
Heptane		**58**	**17**	Indoor air >20 ug/m3 Sub-slab <200 µg/m3 = Identify sources, resample or mitigate
Hexane		**2.1**	ND	Indoor air <6 ug/m3 Sub-slab <200 µg/m3 = No Further Action
Toluene	***F***	**210**	**91**	Indoor air >50 ug/m3 Sub-slab <300 µg/m3 = Identify sources, resample or mitigate

Notes:

1. All samples were analyzed for VOCs via EPA Method TO-15 plus TICs. Only detected analytes are listed above.
2. All results presented in micrograms per cubic meter ($\mu g/m^3$).
3. VOC = Volatile Organic Compounds; TICs = tentatively identified compounds; J = estimated concentration; ND = not detected (laboratory detection limit); VMP = vapor monitoring point.
4. **58** = "Identify Source(s) and resample or Mitigate".
5. A shaded cell indicated concentration exceeds NYSDEC/NYSDOH sub-slab vapor/indoor air criteria. (Note: Criteria for Matrices D, E, and F promulgated in February 2024).
6. "*" = Elevated Method Reporting Limit.

FIGURES

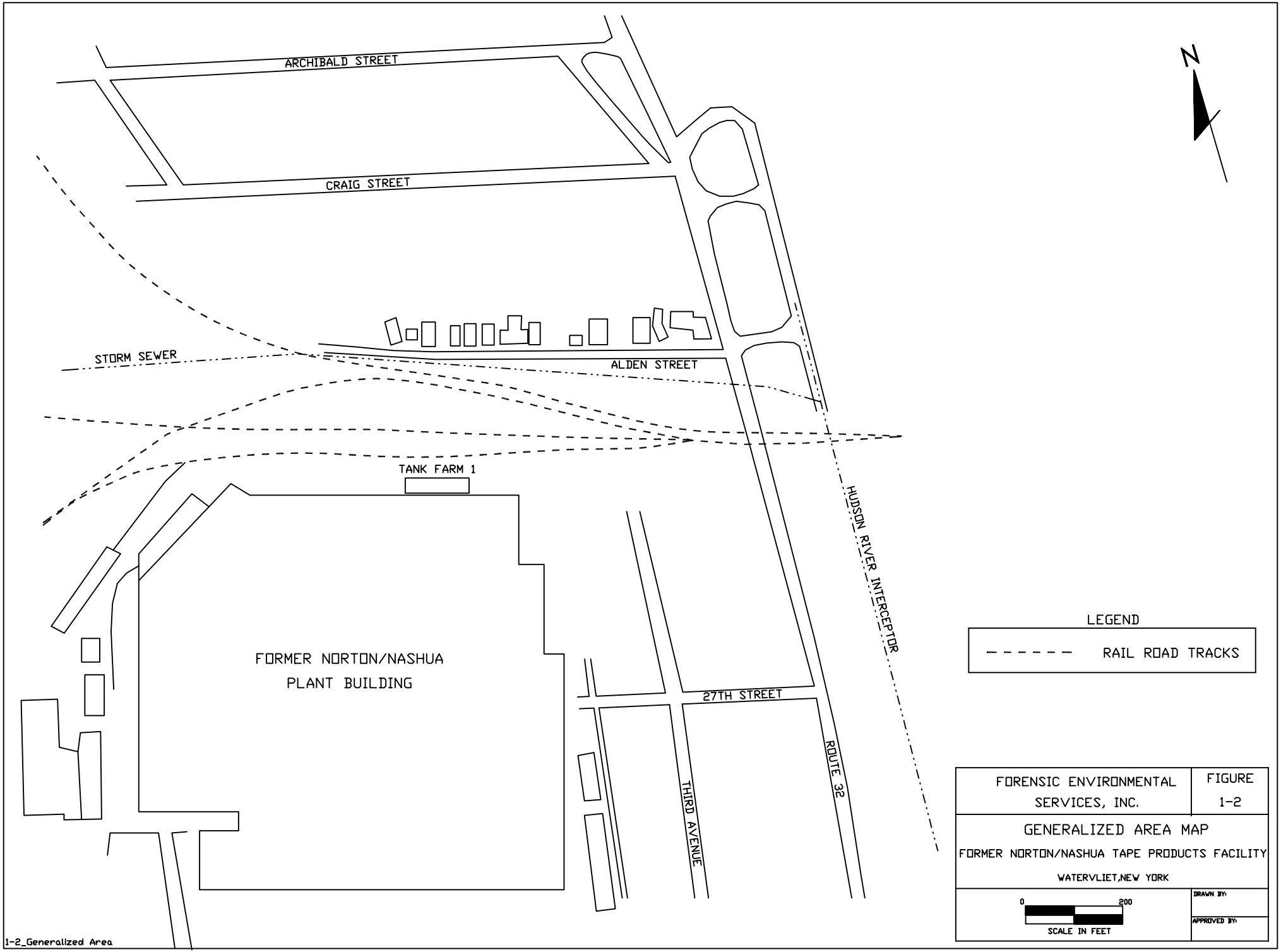
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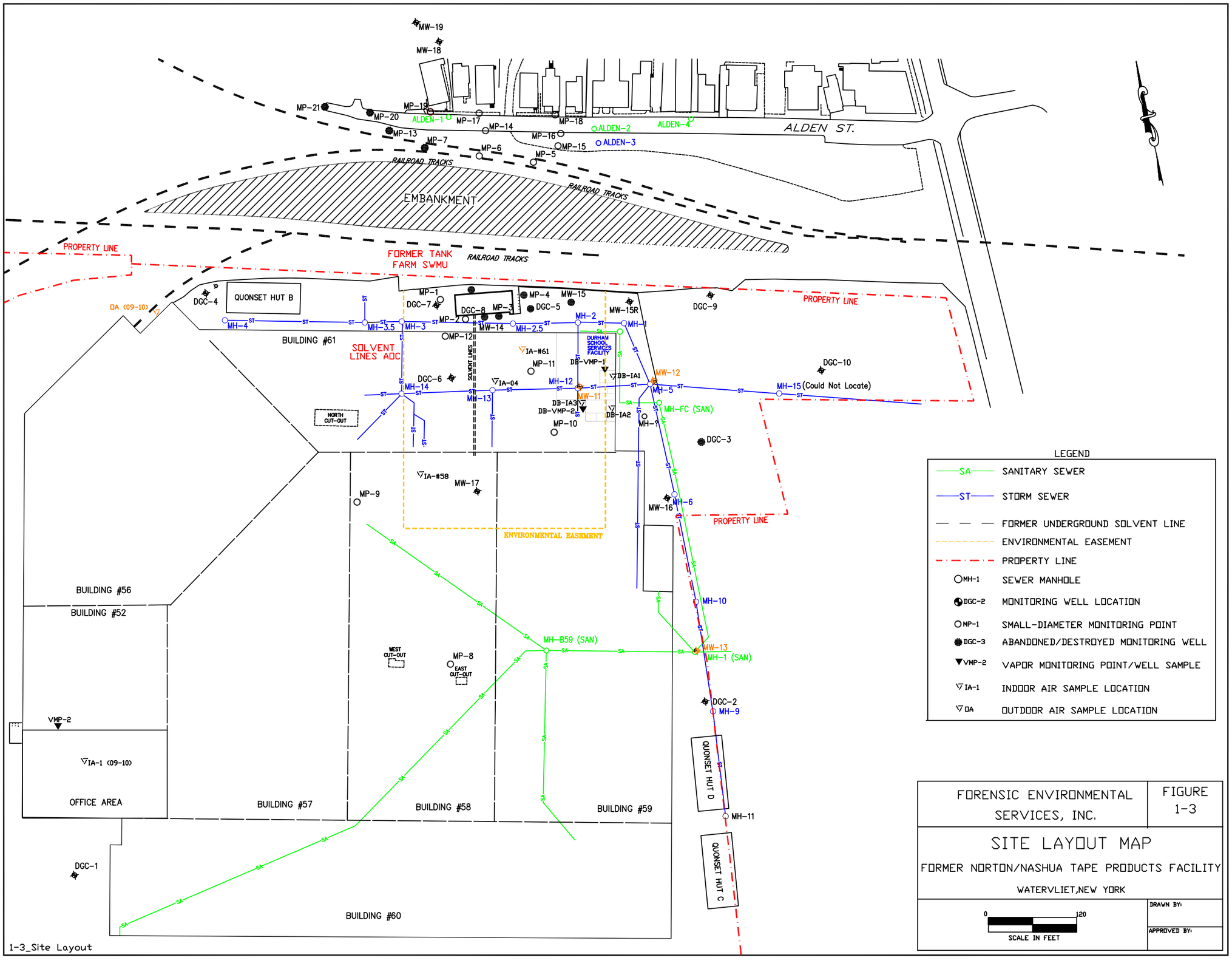


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FORENSIC ENVIRONMENTAL SERVICES, INC.	FIGURE 1-1
SITE LOCATION MAP FORMER NORTON/NASHUA TAPE PRODUCTS FACILITY WATERVLIET, NEW YORK	
0 1540 SCALE IN FEET	DRAWN BY: APPROVED BY:

WV-TOPO.DWG


ARCHIBALD STREET
CRAIG STREET
STORM SEWER
ALDEN STREET
TANK FARM 1
FORMER NORTON/NASHUA
PLANT BUILDING
HUDSON RIVER INTERCEPTOR
27TH STREET
THIRD AVENUE
ROUTE 32
N
LEGEND
RAIL ROAD TRACKS
FORENSIC ENVIRONMENTAL SERVICES, INC.
FIGURE 1-2
GENERALIZED AREA MAP
FORMER NORTON/NASHUA TAPE PRODUCTS FACILITY
WATERVLIET,NEW YORK
0
200
SCALE IN FEET
DRAWN BY:
APPROVED BY:
1-2_Generalized Area

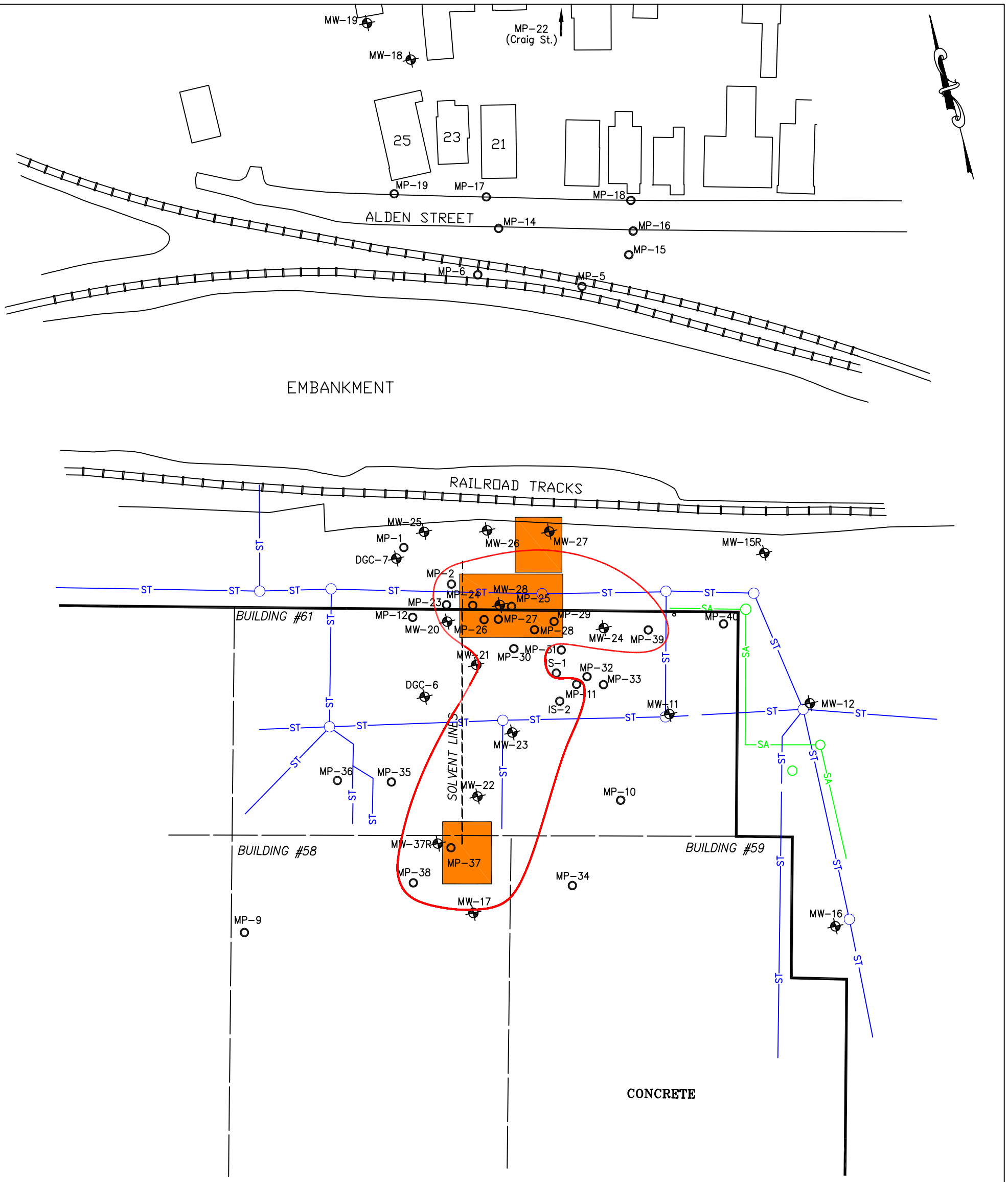


LEGEND

SA	SANITARY SEWER
ST	STORM SEWER
— — —	FORMER UNDERGROUND SOLVENT LINE
- - -	ENVIRONMENTAL EASEMENT
-·-·-	PROPERTY LINE
MH-1	SEWER MANHOLE
DGC-2	MONITORING WELL LOCATION
MP-1	SMALL-DIAMETER MONITORING POINT
DGC-3	ABANDONED/DESTROYED MONITORING WELL
VMP-2	VAPOR MONITORING POINT/WELL SAMPLE
IA-1	INDOOR AIR SAMPLE LOCATION
DA	OUTDOOR AIR SAMPLE LOCATION

FORENSIC ENVIRONMENTAL SERVICES, INC.	FIGURE 1-3
SITE LAYOUT MAP FORMER NORTON/NASHUA TAPE PRODUCTS FACILITY WATERVLIET,NEW YORK	
0 — 120 SCALE IN FEET	DRAWN BY: APPROVED BY:

1-3_Site Layout

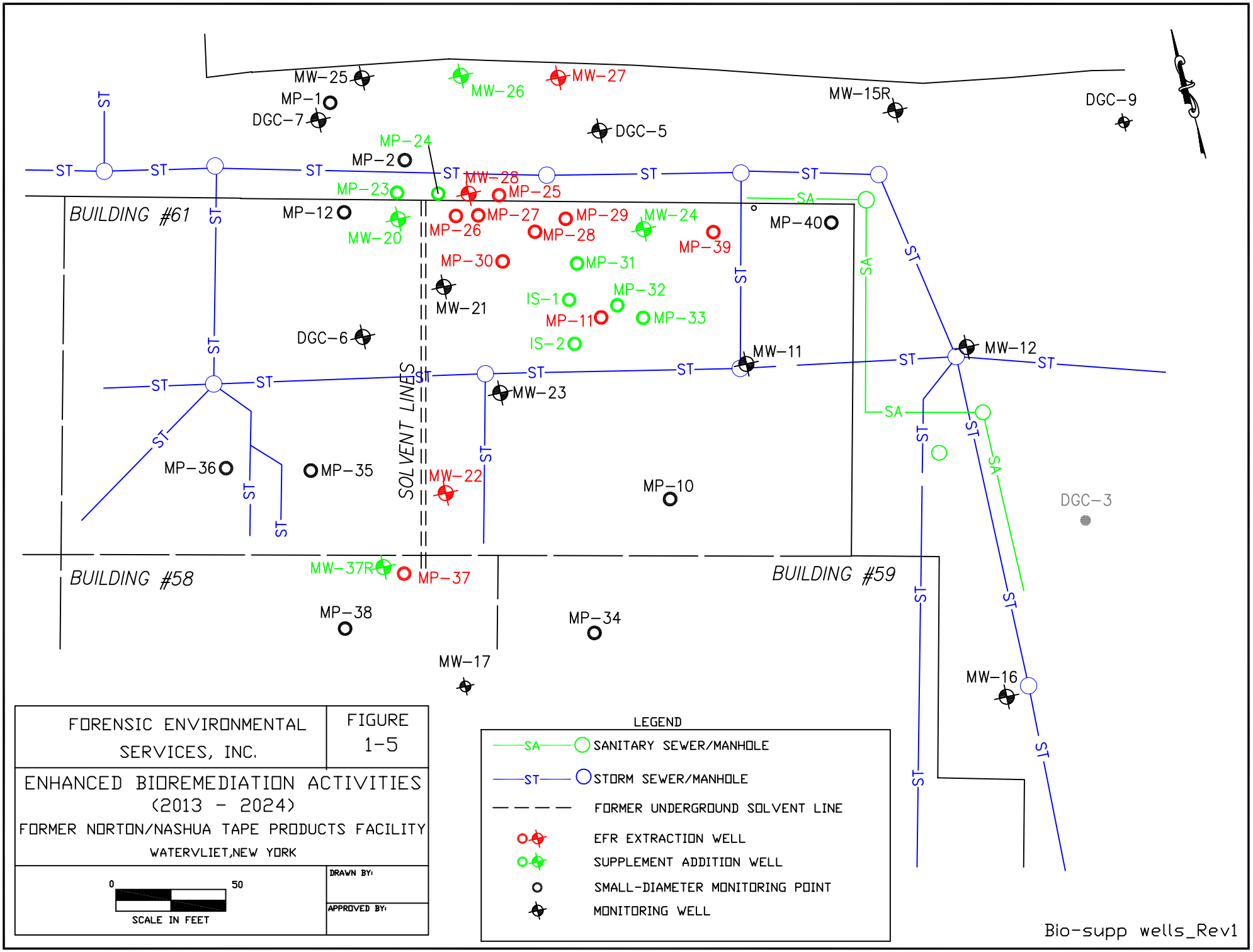


LEGEND

- SA — SANITARY SEWER/MANHOLE
- ST — STORM SEWER/MANHOLE
- FORMER UNDERGROUND SOLVENT LINE
- MONITORING WELL
- SMALL-DIAMETER MONITORING POINT
- ISCO/EFR TREATMENT AREAS (DISSOLVED TOLUENE >10,000 µg/L)
- APPROXIMATE EXTENT OF TOLUENE PLUME (5 µg/L) - NOVEMBER 2023

FORENSIC ENVIRONMENTAL SERVICES, INC.	FIGURE 1-4
ISCO, EFR, AND EB TREATMENT AREAS (2009 - 2024) FORMER NORTON/NASHUA TAPE PRODUCTS FACILITY WATERVLIET, NEW YORK	
0 70 SCALE IN FEET	DRAWN BY: B.J.M. 12/4/2024 APPROVED BY:

ISCO-EFR Areas.dwg

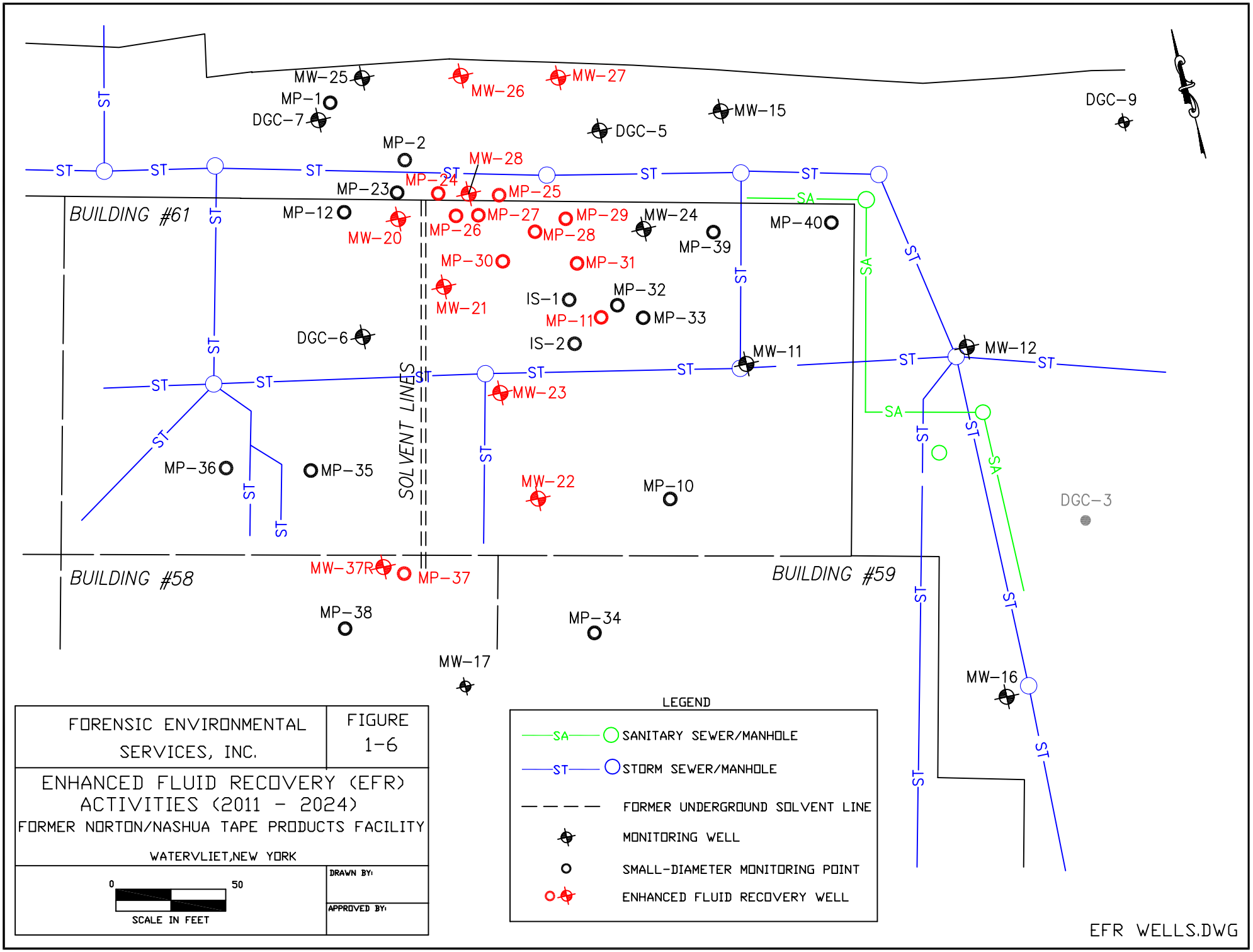


FORENSIC ENVIRONMENTAL SERVICES, INC.	FIGURE 1-5
ENHANCED BIOREMEDIATION ACTIVITIES (2013 - 2024) FORMER NORTON/NASHUA TAPE PRODUCTS FACILITY WATERVLIET,NEW YORK	
0 50 SCALE IN FEET	DRAWN BY: APPROVED BY:

LEGEND

- SA — SANITARY SEWER/MANHOLE
- ST — STORM SEWER/MANHOLE
- FORMER UNDERGROUND SOLVENT LINE
- EFR EXTRACTION WELL
- SUPPLEMENT ADDITION WELL
- SMALL-DIAMETER MONITORING POINT
- MONITORING WELL

Bio-supp wells_Rev1

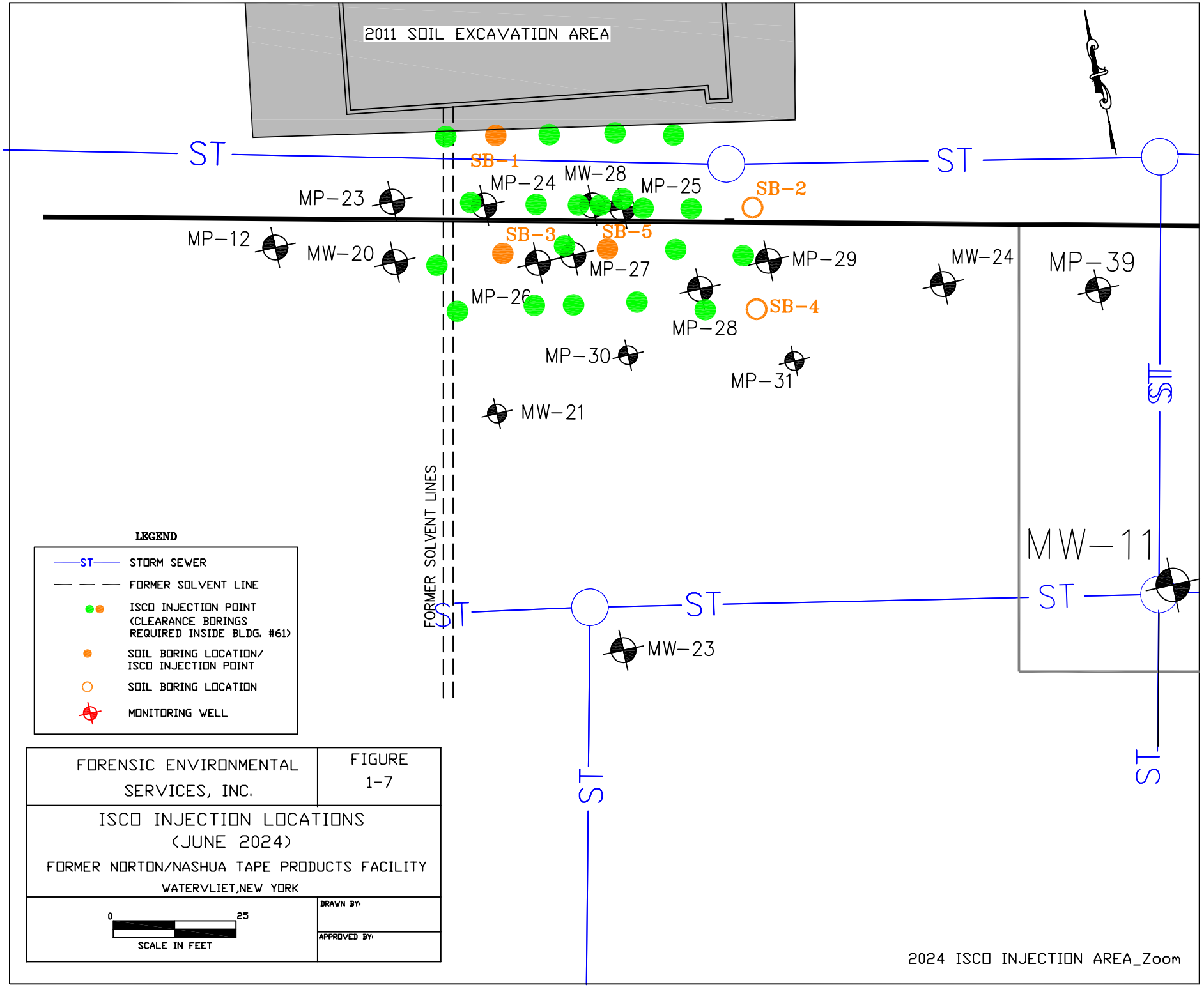


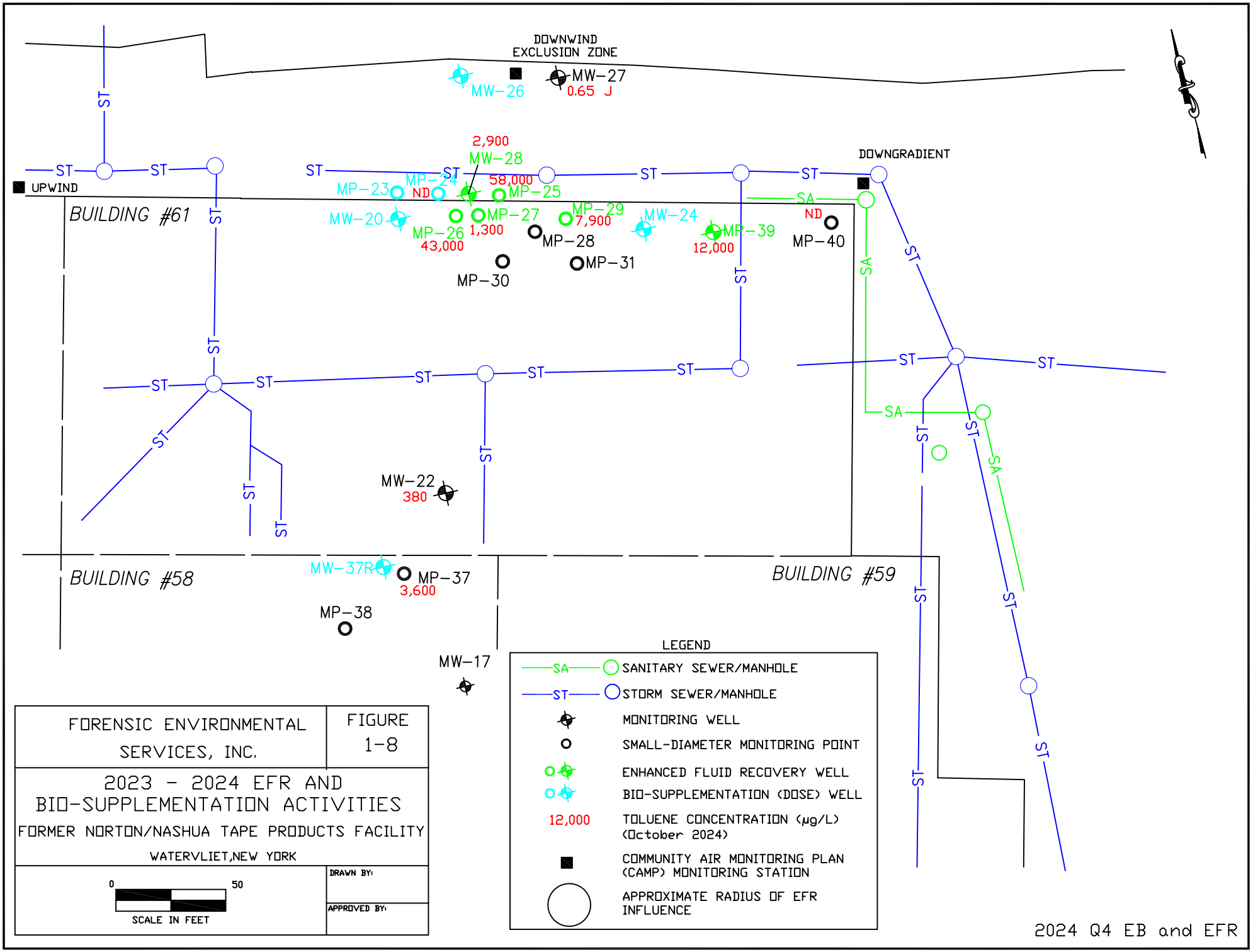
FORENSIC ENVIRONMENTAL SERVICES, INC.	FIGURE 1-6
ENHANCED FLUID RECOVERY (EFR) ACTIVITIES (2011 - 2024) FORMER NORTON/NASHUA TAPE PRODUCTS FACILITY WATERVLIET, NEW YORK	
0 50 SCALE IN FEET	DRAWN BY: APPROVED BY:

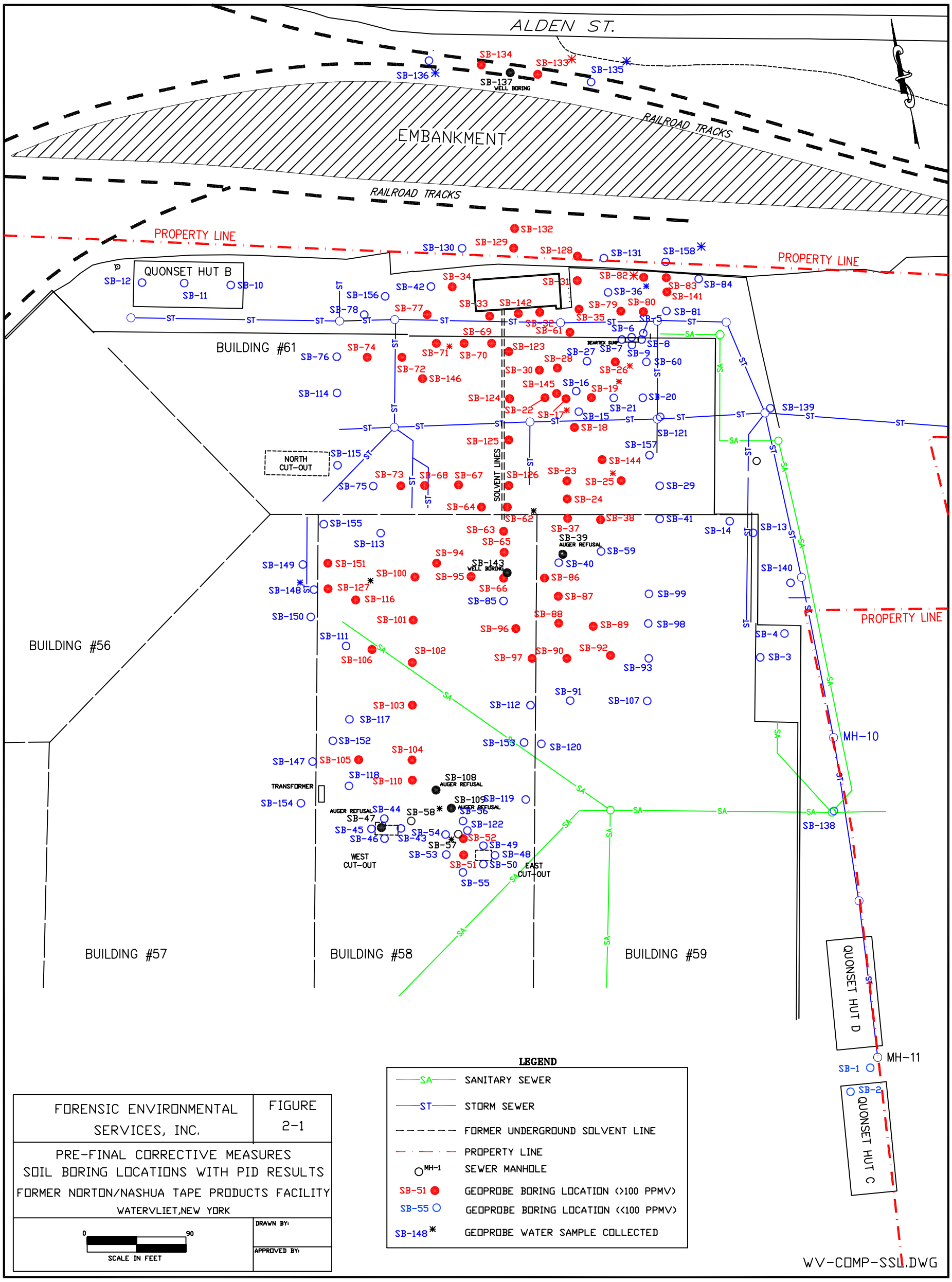
LEGEND

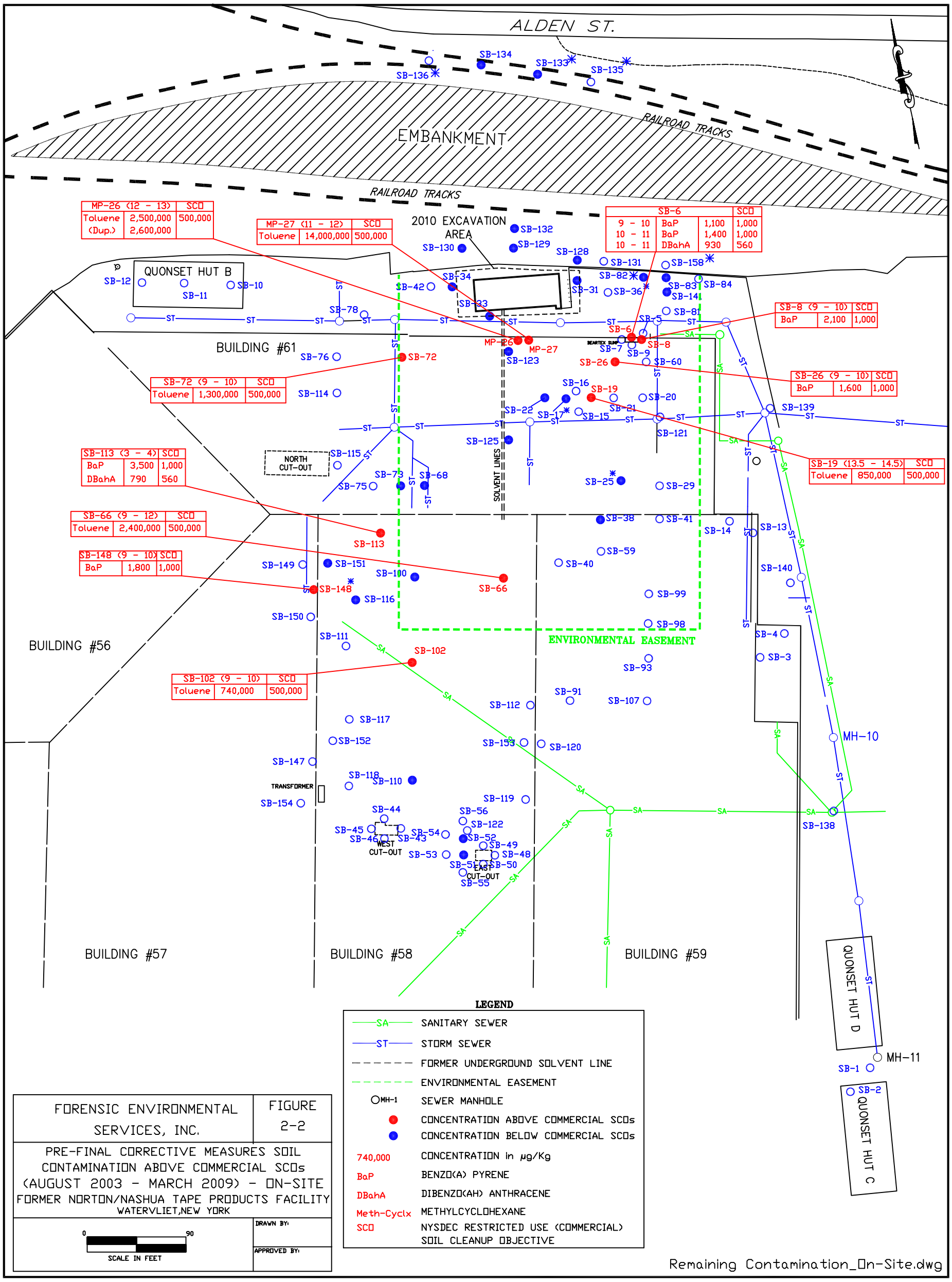
- SA — SANITARY SEWER/MANHOLE
- ST — STORM SEWER/MANHOLE
- FORMER UNDERGROUND SOLVENT LINE
- MONITORING WELL
- SMALL-DIAMETER MONITORING POINT
- ENHANCED FLUID RECOVERY WELL

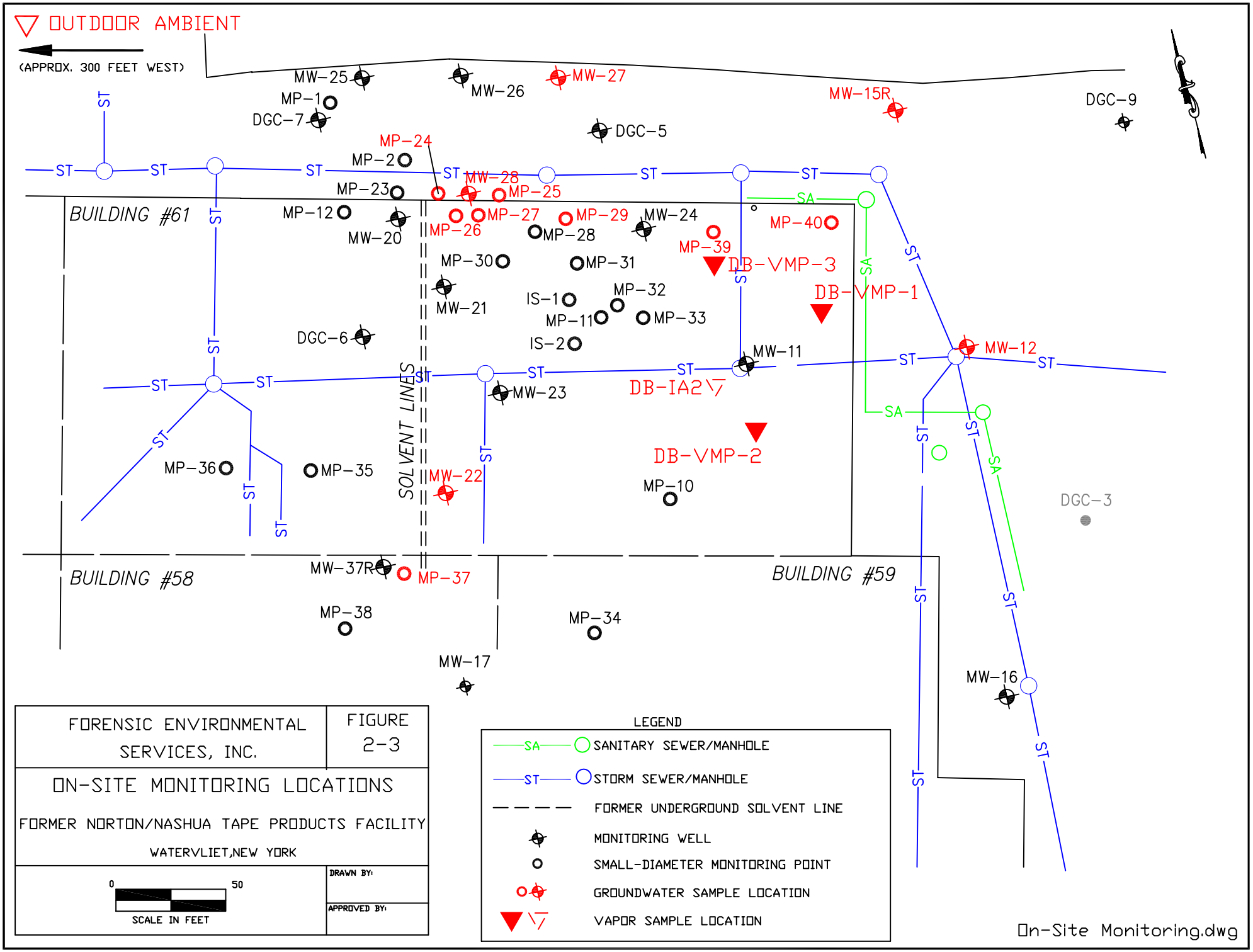
EFR WELLS.DWG

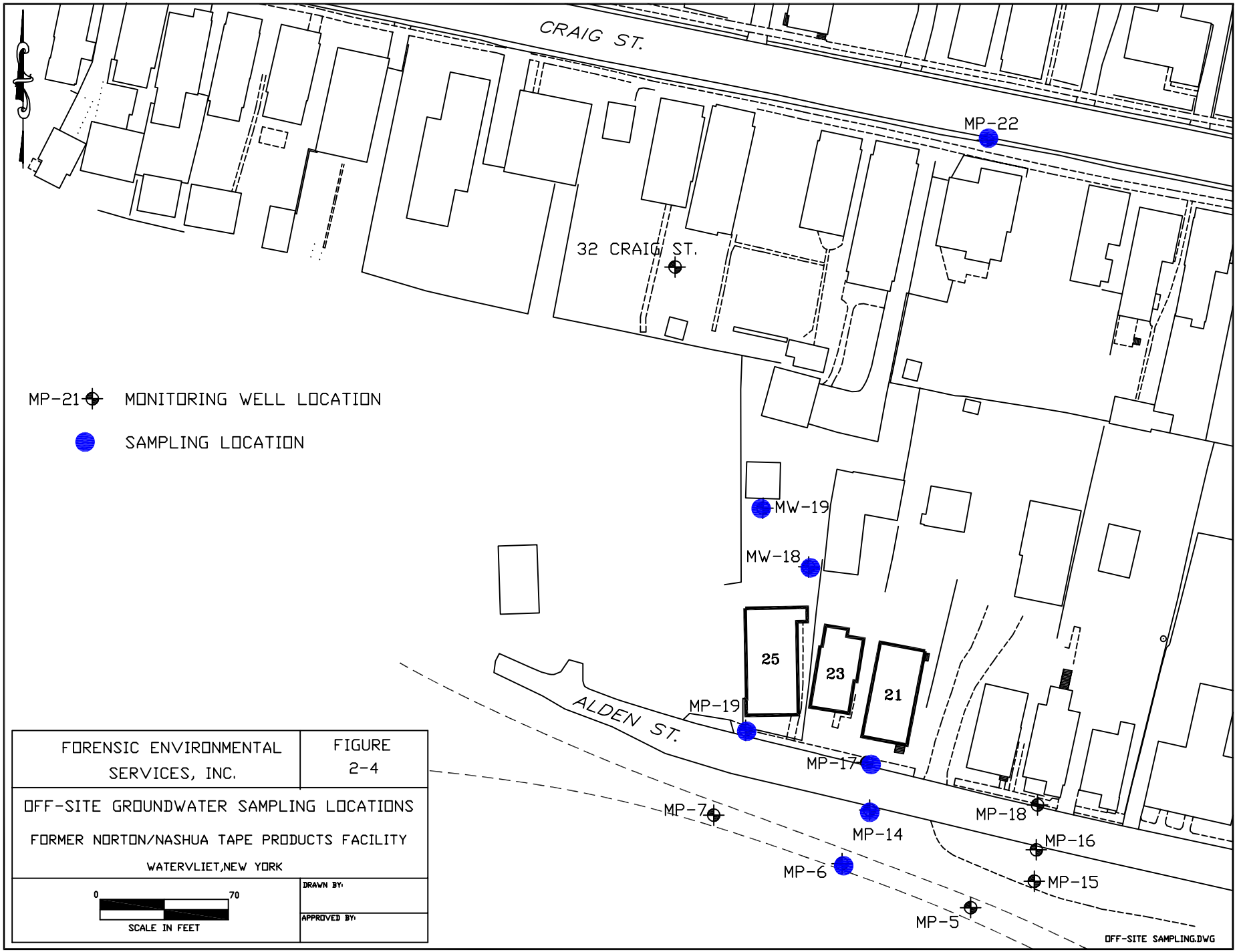

2011 SOIL EXCAVATION AREA
ST
SB-1
MP-24
MW-28
MP-25
SB-2
MP-23
MP-12
MW-20
SB-3
SB-5
MP-27
MP-29
MW-24
MP-39
MP-26
SB-4
MP-28
MP-30
MP-31
MW-21
FORMER SOLVENT LINES
MW-11
MW-23
LEGEND
STORM SEWER
FORMER SOLVENT LINE
ISCO INJECTION POINT (CLEARANCE BORINGS REQUIRED INSIDE BLDG. #61)
SOIL BORING LOCATION/ ISCO INJECTION POINT
SOIL BORING LOCATION
MONITORING WELL
FORENSIC ENVIRONMENTAL SERVICES, INC.
FIGURE 1-7
ISCO INJECTION LOCATIONS (JUNE 2024)
FORMER NORTON/NASHUA TAPE PRODUCTS FACILITY
WATERVLIET,NEW YORK
0
25
SCALE IN FEET
DRAWN BY:
APPROVED BY:
2024 ISCO INJECTION AREA_Zoom


DOWNWIND
EXCLUSION ZONE
MW-26
MW-27
0.65 J
2,900
MW-28
58,000
MP-23
MP-24
ND
MP-25
MW-20
MP-27
1,300
MP-29
7,900
MW-24
MP-26
43,000
MP-28
MP-39
12,000
MP-30
MP-31
MP-40
ND
UPWIND
DOWNGRADIENT
BUILDING #61
BUILDING #58
BUILDING #59
MW-22
380
MW-37R
MP-37
3,600
MP-38
MW-17
ST
SA
LEGEND
SANITARY SEWER/MANHOLE
STORM SEWER/MANHOLE
MONITORING WELL
SMALL-DIAMETER MONITORING POINT
ENHANCED FLUID RECOVERY WELL
BIO-SUPPLEMENTATION (DOSE) WELL
12,000
TOLUENE CONCENTRATION (µg/L)
(October 2024)
COMMUNITY AIR MONITORING PLAN
(CAMP) MONITORING STATION
APPROXIMATE RADIUS OF EFR
INFLUENCE
FORENSIC ENVIRONMENTAL
SERVICES, INC.
FIGURE
1-8
2023 - 2024 EFR AND
BIO-SUPPLEMENTATION ACTIVITIES
FORMER NORTON/NASHUA TAPE PRODUCTS FACILITY
WATERVLIET,NEW YORK
0
50
SCALE IN FEET
DRAWN BY:
APPROVED BY:
2024 Q4 EB and EFR

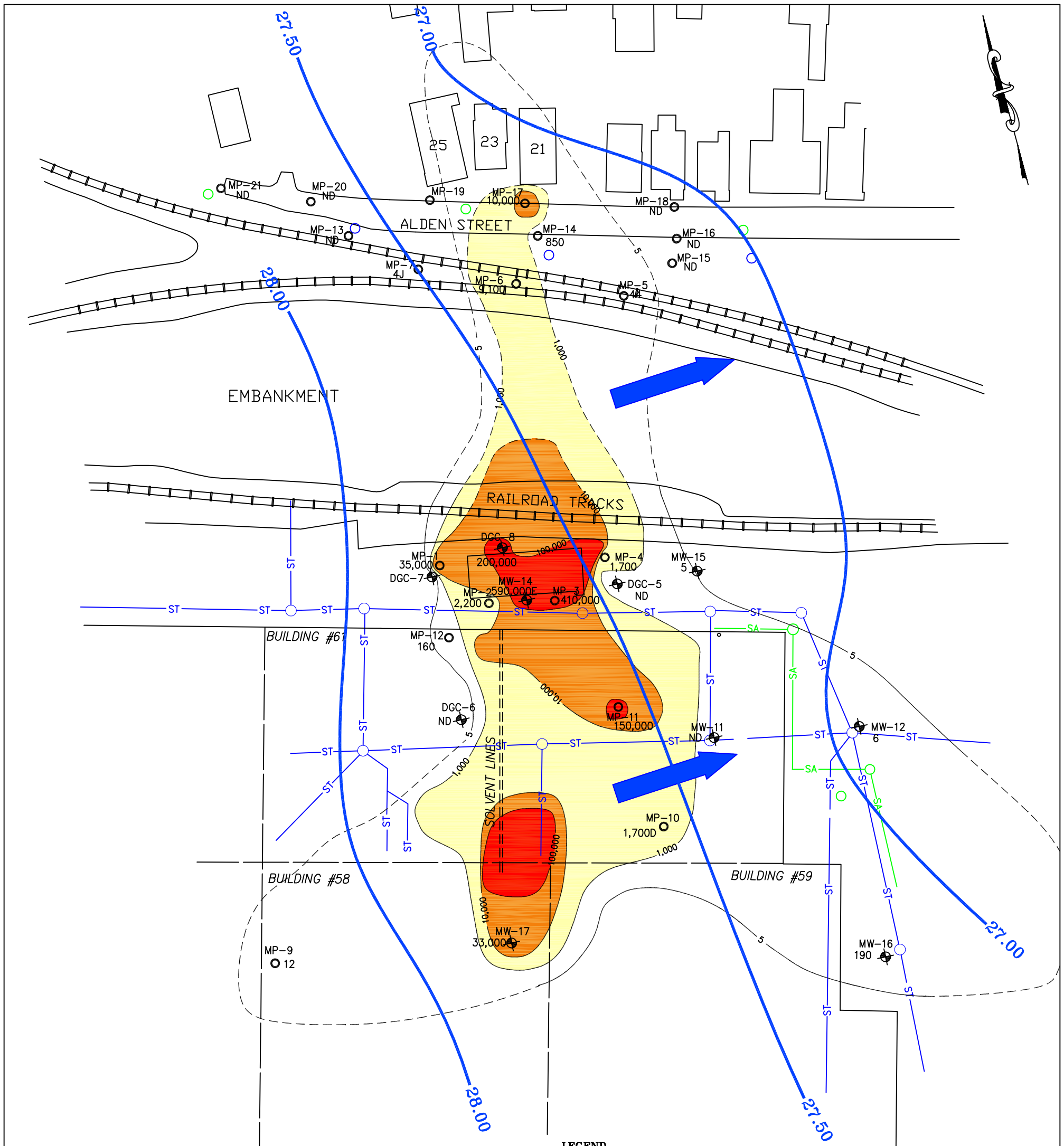

ALDEN ST.
EMBANKMENT
RAILROAD TRACKS
RAILROAD TRACKS
PROPERTY LINE
PROPERTY LINE
PROPERTY LINE
QUONSET HUT B
BUILDING #61
BUILDING #56
BUILDING #57
BUILDING #58
BUILDING #59
NORTH CUT-OUT
WEST CUT-OUT
EAST CUT-OUT
SOLVENT LINES
TRANSFORMER
SB-132
SB-129
SB-128
SB-131
SB-158
SB-130
SB-136
SB-134
SB-133
SB-135
SB-137 WELL BORING
SB-12
SB-11
SB-10
SB-34
SB-42
SB-156
SB-78
SB-77
SB-33
SB-142
SB-31
SB-82
SB-83
SB-84
SB-141
SB-36
SB-79
SB-80
SB-81
SB-35
SB-32
SB-61
SB-69
SB-74
SB-71
SB-70
SB-123
SB-27
SB-7
SB-9
SB-8
SB-60
SB-28
SB-26
SB-72
SB-146
SB-30
SB-145
SB-16
SB-19
SB-124
SB-22
SB-17
SB-15
SB-18
SB-20
SB-21
SB-121
SB-157
SB-144
SB-125
SB-115
SB-73
SB-68
SB-67
SB-126
SB-23
SB-25
SB-29
SB-75
SB-24
SB-64
SB-62
SB-38
SB-41
SB-155
SB-113
SB-63
SB-65
SB-37
SB-39 AUGER REFUSAL
SB-59
SB-94
SB-143 WELL BORING
SB-40
SB-149
SB-151
SB-100
SB-95
SB-86
SB-148
SB-127
SB-116
SB-66
SB-85
SB-87
SB-99
SB-150
SB-101
SB-88
SB-89
SB-98
SB-96
SB-111
SB-106
SB-102
SB-97
SB-90
SB-92
SB-93
SB-91
SB-103
SB-112
SB-107
SB-117
SB-152
SB-153
SB-120
SB-104
SB-147
SB-105
SB-118
SB-110
SB-108 AUGER REFUSAL
SB-154
SB-109 AUGER REFUSAL
SB-119
AUGER REFUSAL
SB-44
SB-58
SB-47
SB-122
SB-45
SB-54
SB-52
SB-46
SB-43
SB-57
SB-49
SB-53
SB-48
SB-51
SB-50
SB-55
SB-14
SB-13
SB-139
SB-140
SB-4
SB-3
SB-138
MH-10
MH-11
SB-1
SB-2
QUONSET HUT D
QUONSET HUT C
ST
SA
0
90
SCALE IN FEET
LEGEND
SANITARY SEWER
STORM SEWER
FORMER UNDERGROUND SOLVENT LINE
PROPERTY LINE
MH-1 SEWER MANHOLE
SB-51 GEOPROBE BORING LOCATION (>100 PPMV)
SB-55 GEOPROBE BORING LOCATION (<100 PPMV)
SB-148 GEOPROBE WATER SAMPLE COLLECTED
FORENSIC ENVIRONMENTAL SERVICES, INC.
FIGURE 2-1
PRE-FINAL CORRECTIVE MEASURES
SOIL BORING LOCATIONS WITH PID RESULTS
FORMER NORTON/NASHUA TAPE PRODUCTS FACILITY
WATERVLIET,NEW YORK
DRAWN BY:
APPROVED BY:
WV-COMP-SSL.DWG


ALDEN ST.
RAILROAD TRACKS
EMBANKMENT
RAILROAD TRACKS
2010 EXCAVATION AREA
QUONSET HUT B
BUILDING #61
BUILDING #56
BUILDING #57
BUILDING #58
BUILDING #59
NORTH CUT-OUT
WEST CUT-OUT
EAST CUT-OUT
SOLVENT LINES
TRANSFORMER
ENVIRONMENTAL EASEMENT
QUONSET HUT D
QUONSET HUT C
MH-10
MH-11
SB-1
SB-2
SB-134
SB-133
SB-135
SB-136
SB-132
SB-130
SB-129
SB-128
SB-131
SB-158
SB-12
SB-11
SB-10
SB-42
SB-34
SB-33
SB-31
SB-82
SB-36
SB-83
SB-84
SB-141
SB-81
SB-78
SB-5
SB-6
SB-8
SB-7
SB-9
SB-26
SB-60
SB-76
SB-72
MP-26
MP-27
SB-123
SB-114
SB-16
SB-19
SB-20
SB-22
SB-17
SB-21
SB-15
SB-121
SB-139
SB-125
SB-115
SB-73
SB-68
SB-75
SB-25
SB-29
SB-38
SB-41
SB-14
SB-13
SB-113
SB-59
SB-40
SB-149
SB-151
SB-100
SB-148
SB-116
SB-66
SB-140
SB-99
SB-150
SB-98
SB-111
SB-102
SB-4
SB-3
SB-93
SB-91
SB-107
SB-112
SB-117
SB-152
SB-153
SB-120
SB-147
SB-118
SB-110
SB-154
SB-119
SB-44
SB-56
SB-122
SB-45
SB-46
SB-43
SB-54
SB-52
SB-49
SB-53
SB-48
SB-51
SB-50
SB-55
SB-138
SB-139
SB-1
SB-2
ST
SA
MP-26 (12 - 13) SCO
Toluene 2,500,000 500,000
(Dup.) 2,600,000
MP-27 (11 - 12) SCO
Toluene 14,000,000 500,000
SB-6 SCO
9 - 10 BaP 1,100 1,000
10 - 11 BaP 1,400 1,000
10 - 11 DBahA 930 560
SB-8 (9 - 10) SCO
BaP 2,100 1,000
SB-26 (9 - 10) SCO
BaP 1,600 1,000
SB-19 (13.5 - 14.5) SCO
Toluene 850,000 500,000
SB-72 (9 - 10) SCO
Toluene 1,300,000 500,000
SB-113 (3 - 4) SCO
BaP 3,500 1,000
DBahA 790 560
SB-66 (9 - 12) SCO
Toluene 2,400,000 500,000
SB-148 (9 - 10) SCO
BaP 1,800 1,000
SB-102 (9 - 10) SCO
Toluene 740,000 500,000
LEGEND
SA SANITARY SEWER
ST STORM SEWER
FORMER UNDERGROUND SOLVENT LINE
ENVIRONMENTAL EASEMENT
MH-1 SEWER MANHOLE
CONCENTRATION ABOVE COMMERCIAL SCOs
CONCENTRATION BELOW COMMERCIAL SCOs
740,000 CONCENTRATION in µg/Kg
BaP BENZO(A) PYRENE
DBahA DIBENZO(AH) ANTHRACENE
Meth-Cyclx METHYLCYCLOHEXANE
SCO NYSDEC RESTRICTED USE (COMMERCIAL) SOIL CLEANUP OBJECTIVE
FORENSIC ENVIRONMENTAL SERVICES, INC.
FIGURE 2-2
PRE-FINAL CORRECTIVE MEASURES SOIL CONTAMINATION ABOVE COMMERCIAL SCOs (AUGUST 2003 - MARCH 2009) - ON-SITE
FORMER NORTON/NASHUA TAPE PRODUCTS FACILITY
WATERVLIET,NEW YORK
DRAWN BY:
APPROVED BY:
0 90
SCALE IN FEET
Remaining Contamination_On-Site.dwg


OUTDOOR AMBIENT
(APPROX. 300 FEET WEST)
MW-25
MW-26
MW-27
MW-15R
DGC-9
MP-1
DGC-7
DGC-5
MP-24
MP-2
MW-28
MP-23
MP-25
BUILDING #61
MP-12
MW-20
MP-26
MP-27
MP-29
MW-24
MP-28
MP-40
MP-39
DB-VMP-3
MP-30
MP-31
DB-VMP-1
MW-21
IS-1
MP-32
MP-11
MP-33
DGC-6
IS-2
MW-11
MW-12
MW-23
DB-IA2
SOLVENT LINES
DB-VMP-2
MP-36
MP-35
MW-22
MP-10
DGC-3
BUILDING #58
MW-37R
MP-37
BUILDING #59
MP-38
MP-34
MW-17
MW-16
ST
SA
FORENSIC ENVIRONMENTAL SERVICES, INC.
FIGURE 2-3
ON-SITE MONITORING LOCATIONS
FORMER NORTON/NASHUA TAPE PRODUCTS FACILITY
WATERVLIET,NEW YORK
0
50
SCALE IN FEET
DRAWN BY:
APPROVED BY:
LEGEND
SANITARY SEWER/MANHOLE
STORM SEWER/MANHOLE
FORMER UNDERGROUND SOLVENT LINE
MONITORING WELL
SMALL-DIAMETER MONITORING POINT
GROUNDWATER SAMPLE LOCATION
VAPOR SAMPLE LOCATION
On-Site Monitoring.dwg



FORENSIC ENVIRONMENTAL SERVICES, INC.	FIGURE 2-4
OFF-SITE GROUNDWATER SAMPLING LOCATIONS FORMER NORTON/NASHUA TAPE PRODUCTS FACILITY WATERVLIET,NEW YORK	
0 70 SCALE IN FEET	DRAWN BY: APPROVED BY:



LEGEND

- SA — SANITARY SEWER/MANHOLE
- ST — STORM SEWER/MANHOLE
- FORMER UNDERGROUND SOLVENT LINE
- MONITORING WELL
- SMALL-DIAMETER MONITORING POINT
- GENERAL DIRECTION OF GROUNDWATER FLOW
- GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- 41,000 — TOLUENE CONCENTRATION IN GROUND-WATER (µg/L)
- ND — TOLUENE NOT DETECTED
- ISOCONCENTRATION LINE (DASHED WHERE INFERRED)

FORENSIC ENVIRONMENTAL SERVICES, INC.	FIGURE 2-5
MAXIMUM TOLUENE CONCENTRATIONS 2004 FORMER NORTON/NASHUA TAPE PRODUCTS FACILITY WATERVLIET,NEW YORK	
0 — 70 SCALE IN FEET	DRAWN BY: APPROVED BY:

2004_Max (with GW)

MW-19 ND
MW-18 ND
ND MP-22 (Craig St.)
25
23
21
ND MP-19
MP-17 ND
MP-18
ALDEN STREET
MP-14 ND
MP-16
MP-15
MP-6 ND
MP-5
EMBANKMENT
RAILROAD TRACKS
MW-25
MW-26
MW-27 0.65
MW-15R ND
MP-1
DGC-7
MP-2
MW-28 2900
MP-24 ND
MP-25 58000
MP-12
MP-27
MP-29 7900
MW-20
MP-26 1300
MP-28
43000
MW-24
MP-39 12000
MP-40 ND
MP-31
MW-21
MP-30
IS-1
MP-32
MP-33
DGC-6
MP-11
IS-2
MW-11
ND MW-12
BUILDING #61
MW-23
SOLVENT LINES
MP-36
MP-35
MW-22 330
MP-10
BUILDING #58
BUILDING #59
MW-37R 3600
MP-37
MP-38
MP-34
MW-17
MP-9
MW-16
ST
SA

LEGEND

- SA — SANITARY SEWER/MANHOLE
- ST — STORM SEWER/MANHOLE
- FORMER UNDERGROUND SOLVENT LINE
- MONITORING WELL
- SMALL-DIAMETER MONITORING POINT
- 3,600 — TOLUENE CONCENTRATION (µg/L)
- ND — NOT DETECTED
- ISOCONCENTRATION LINE (DASHED WHERE INFERRED)
- GENERAL DIRECTION OF GROUNDWATER FLOW

- >100,000 µg/L
- >10,000 µg/L
- >1,000 µg/L
- >100 µg/L
- >5 µg/L

FORENSIC ENVIRONMENTAL SERVICES, INC.	FIGURE 2-6
TOLUENE CONCENTRATIONS IN GROUNDWATER (OCTOBER 2024) FORMER NORTON/NASHUA TAPE PRODUCTS FACILITY WATERVLIET, NEW YORK	
0 60 SCALE IN FEET	DRAWN BY: B.J.M. 4/30/2025 APPROVED BY: B.J.M. 4/30/2025

2024-10_Toluene_Revised

Figure 2-7
Toluene Concentrations Vs Time
Monitoring Well MW-22
Former Norton/Nashua Tape Products Facility

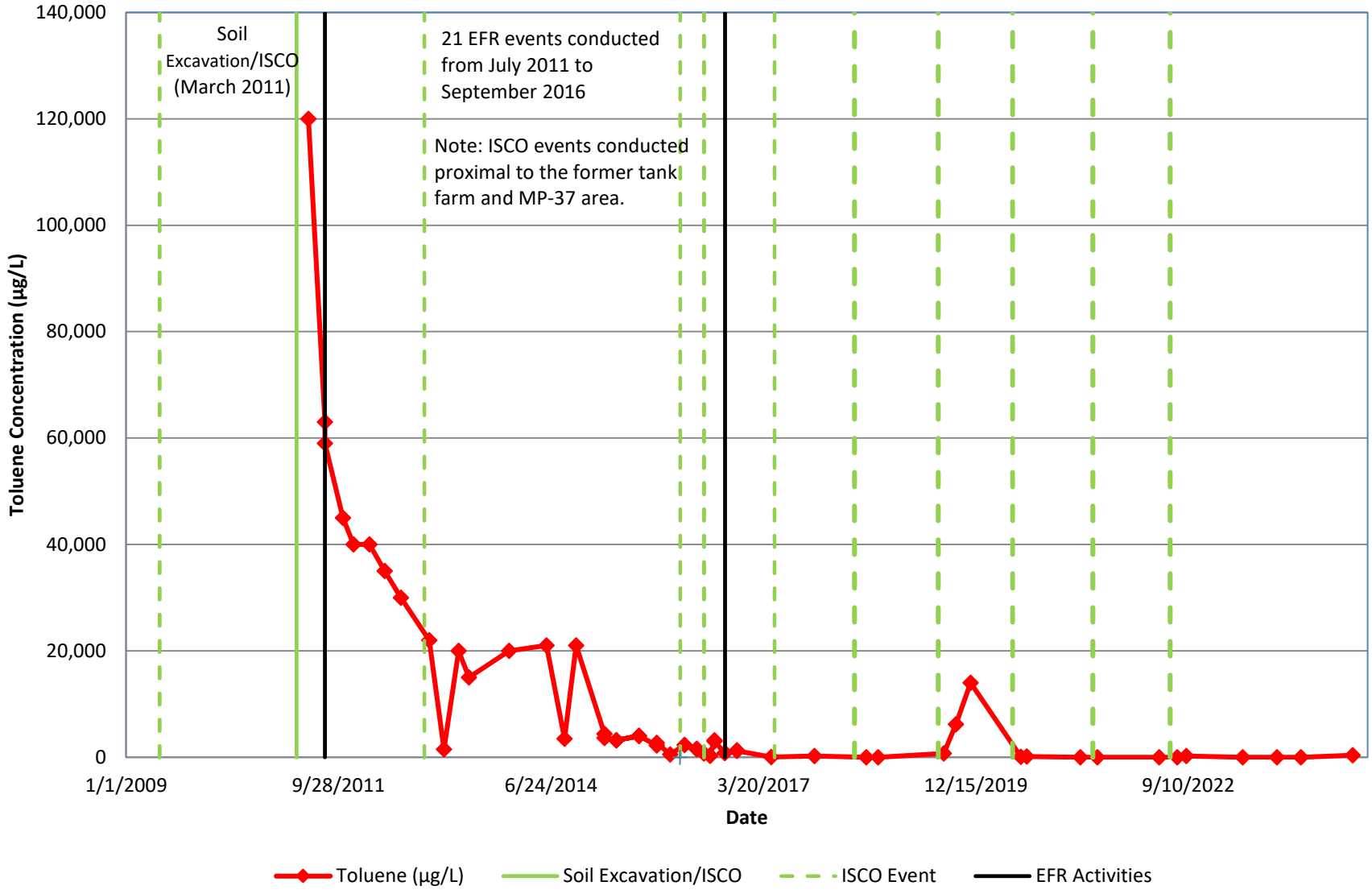


Figure 2-8
Toluene Concentrations Vs Time
Monitoring Well MW-27
Former Norton/Nashua Tape Products Facility

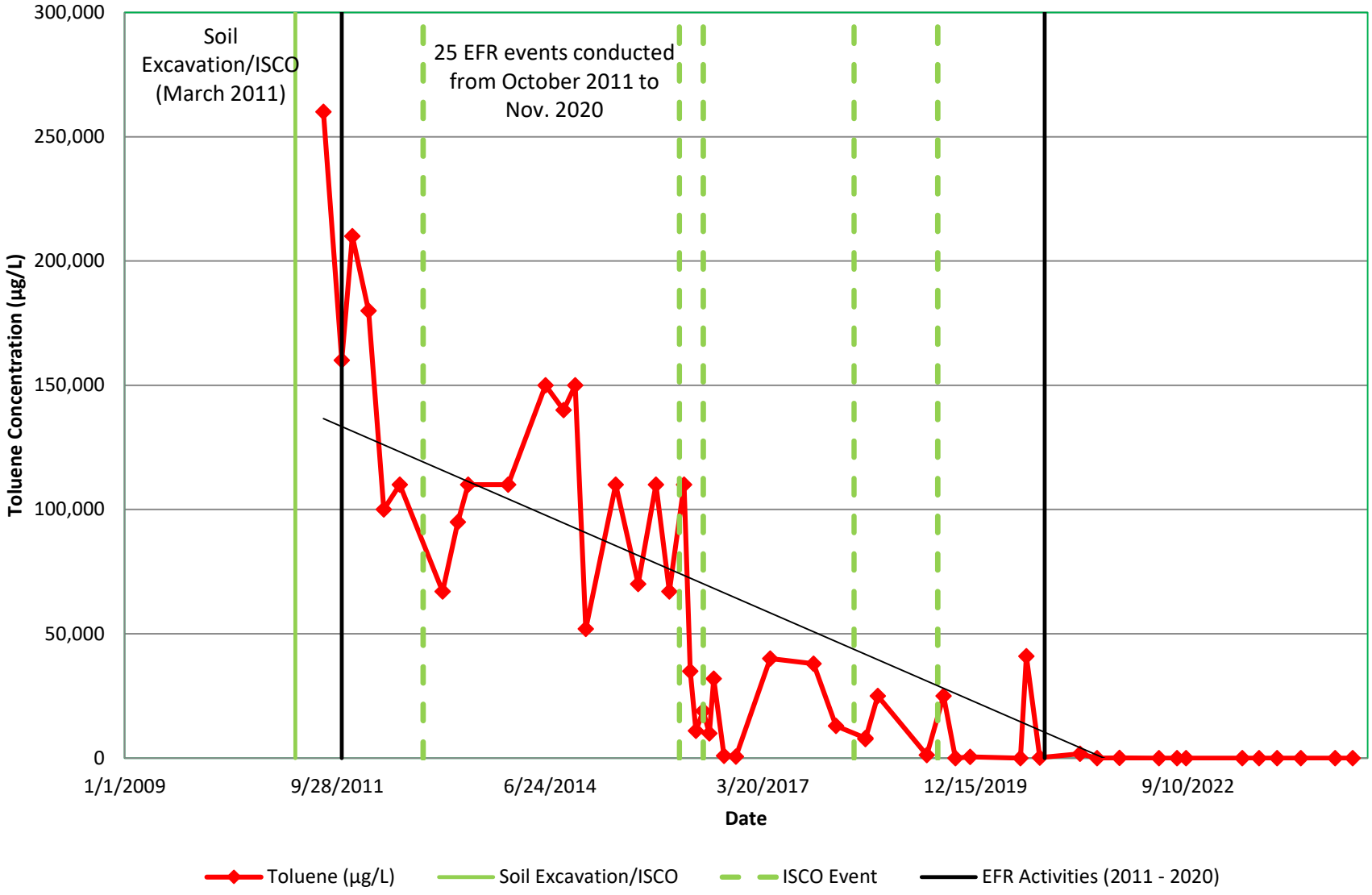


Figure 2-9
Toluene Concentrations Vs Time
Monitoring Well MW-28
Former Norton/Nashua Tape Products Facility

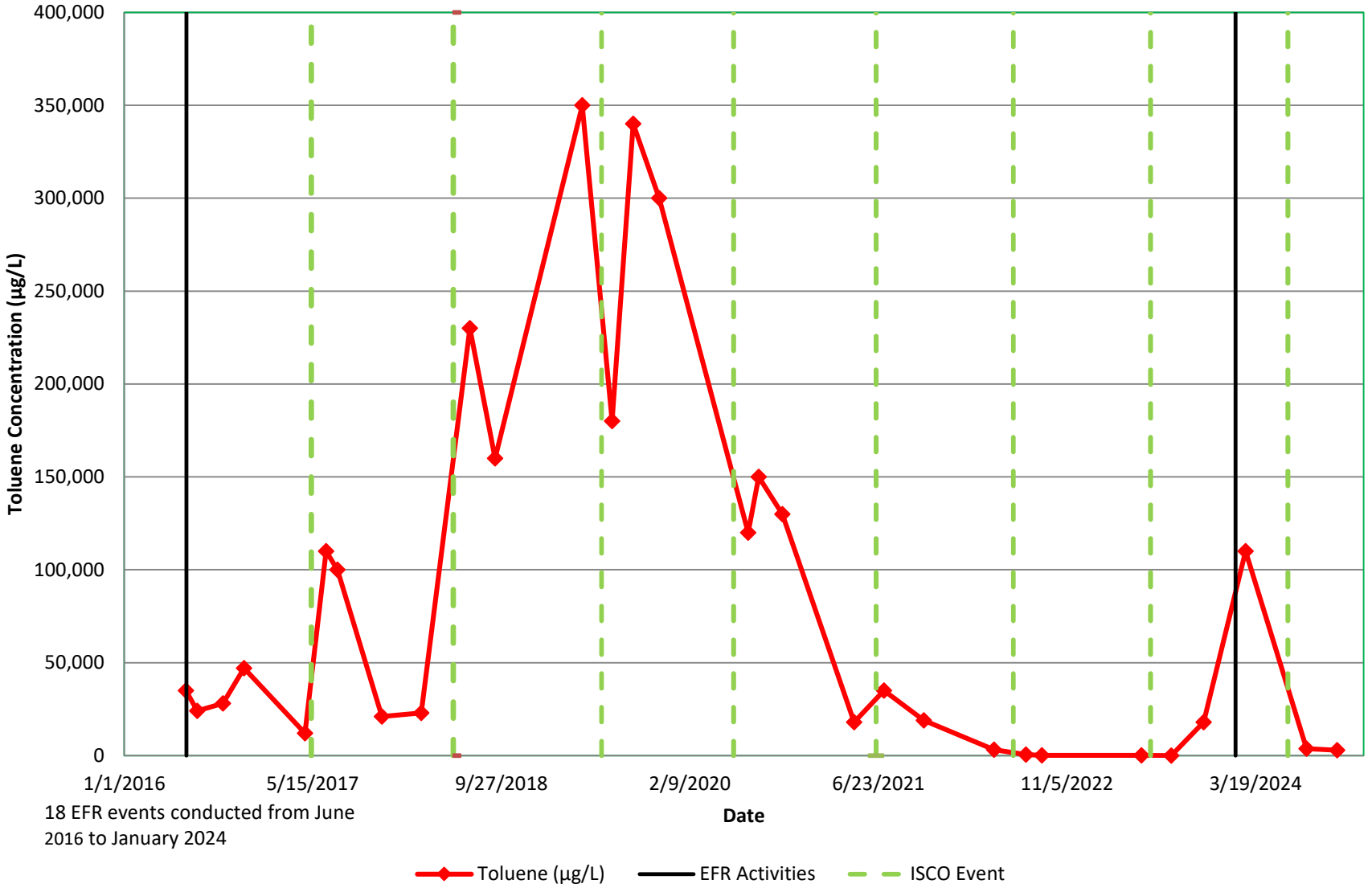


Figure 2-10
Toluene Concentrations Vs Time
Monitoring Well MP-24
Former Norton/Nashua Tape Products Facility

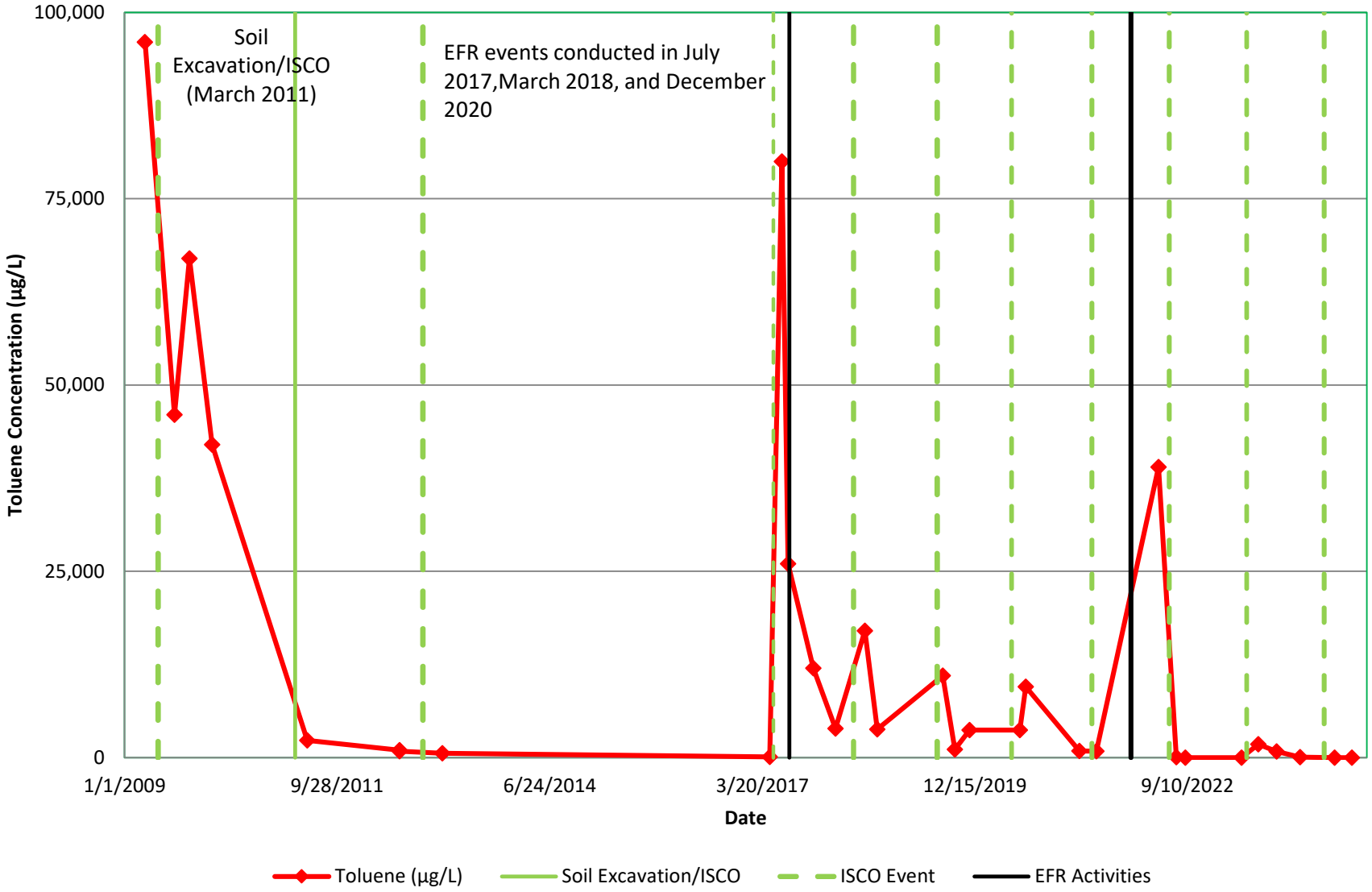


Figure 2-11
Toluene Concentrations Vs Time
Monitoring Well MP-25
Former Norton/Nashua Tape Products Facility

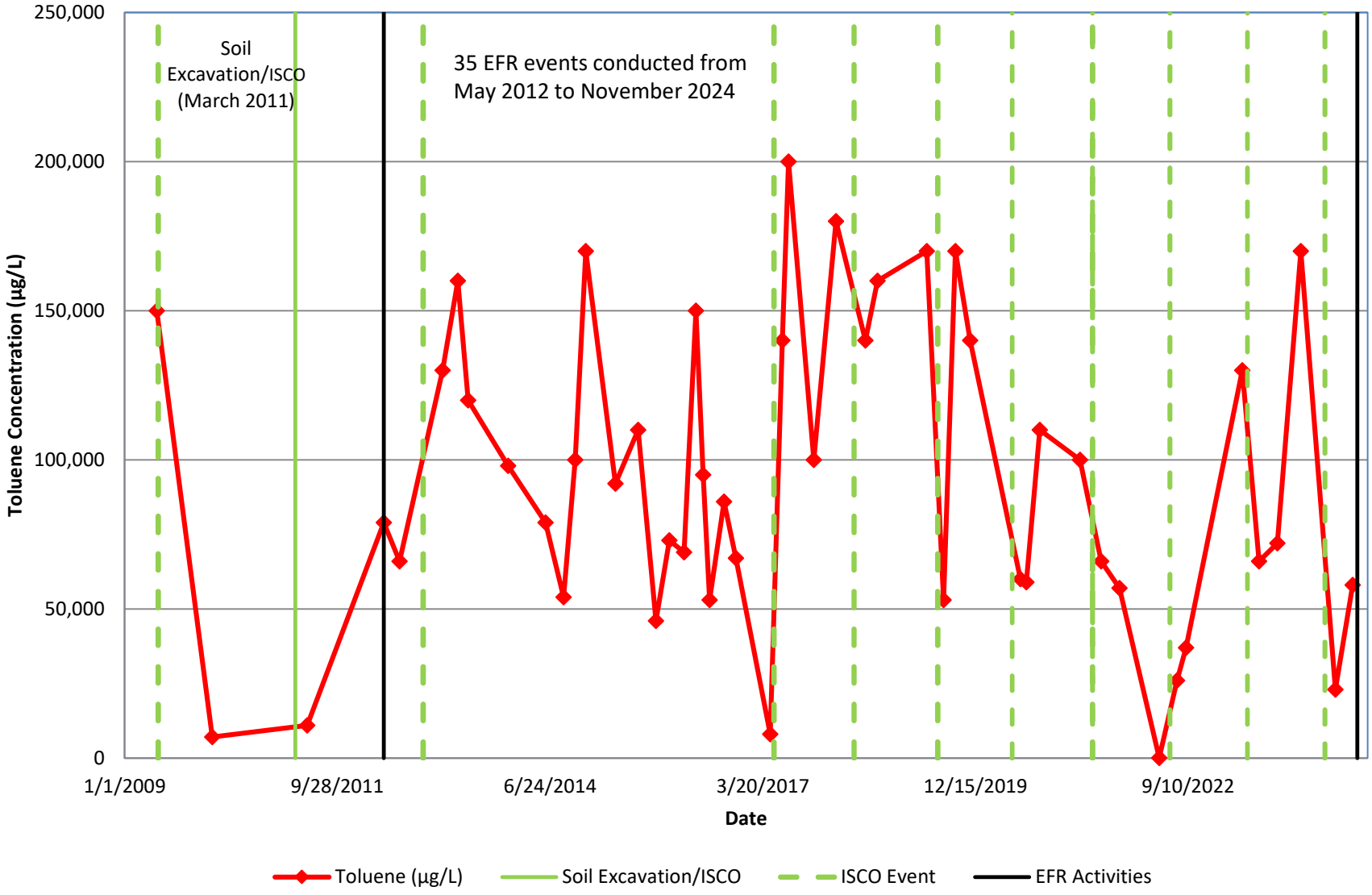


Figure 2-12
Toluene Concentrations Vs Time
Monitoring Well MP-26
Former Norton/Nashua Tape Products Facility

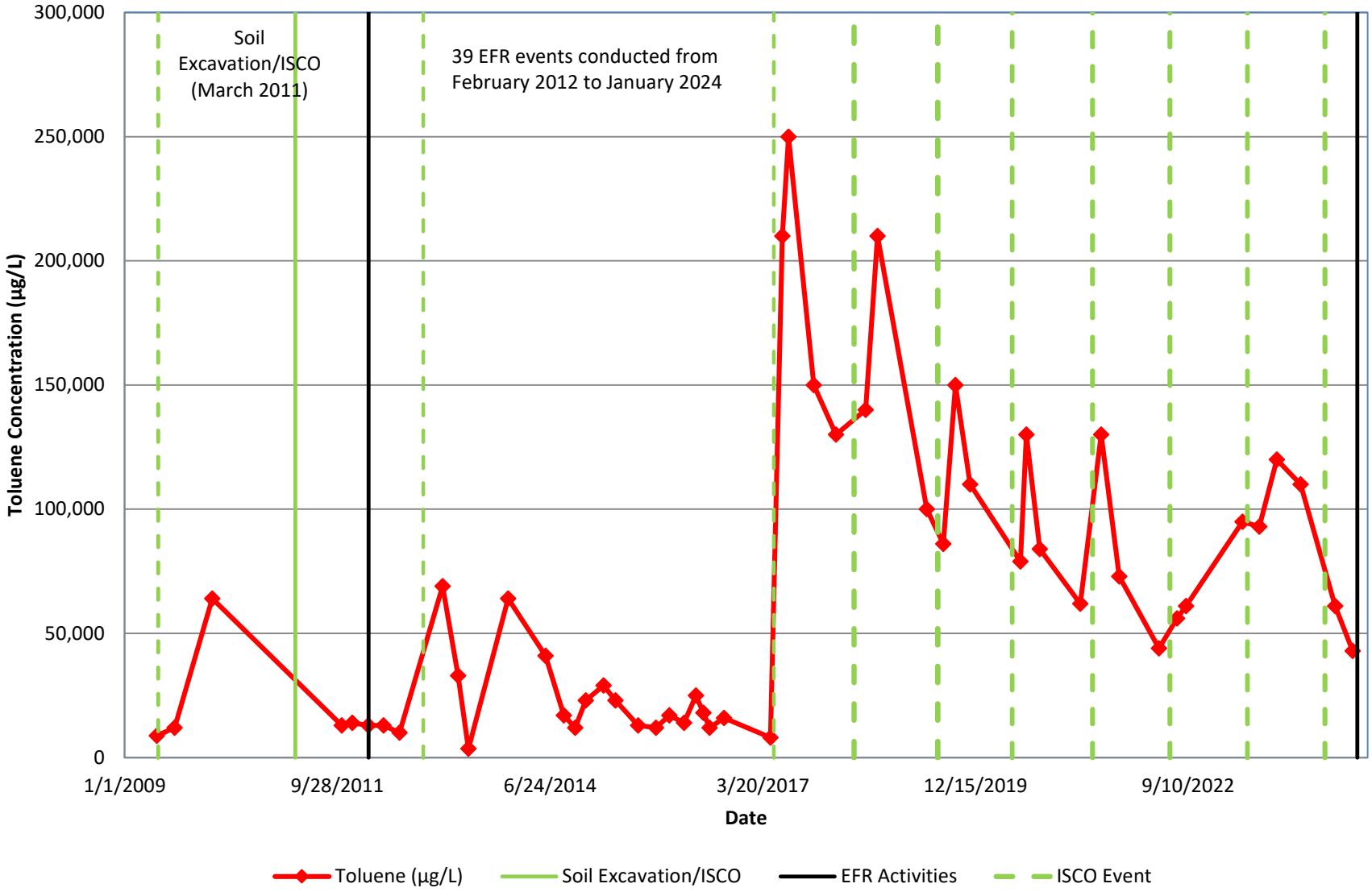


Figure 2-13
Toluene Concentrations Vs Time
Monitoring Well MP-27
Former Norton/Nashua Tape Products Facility

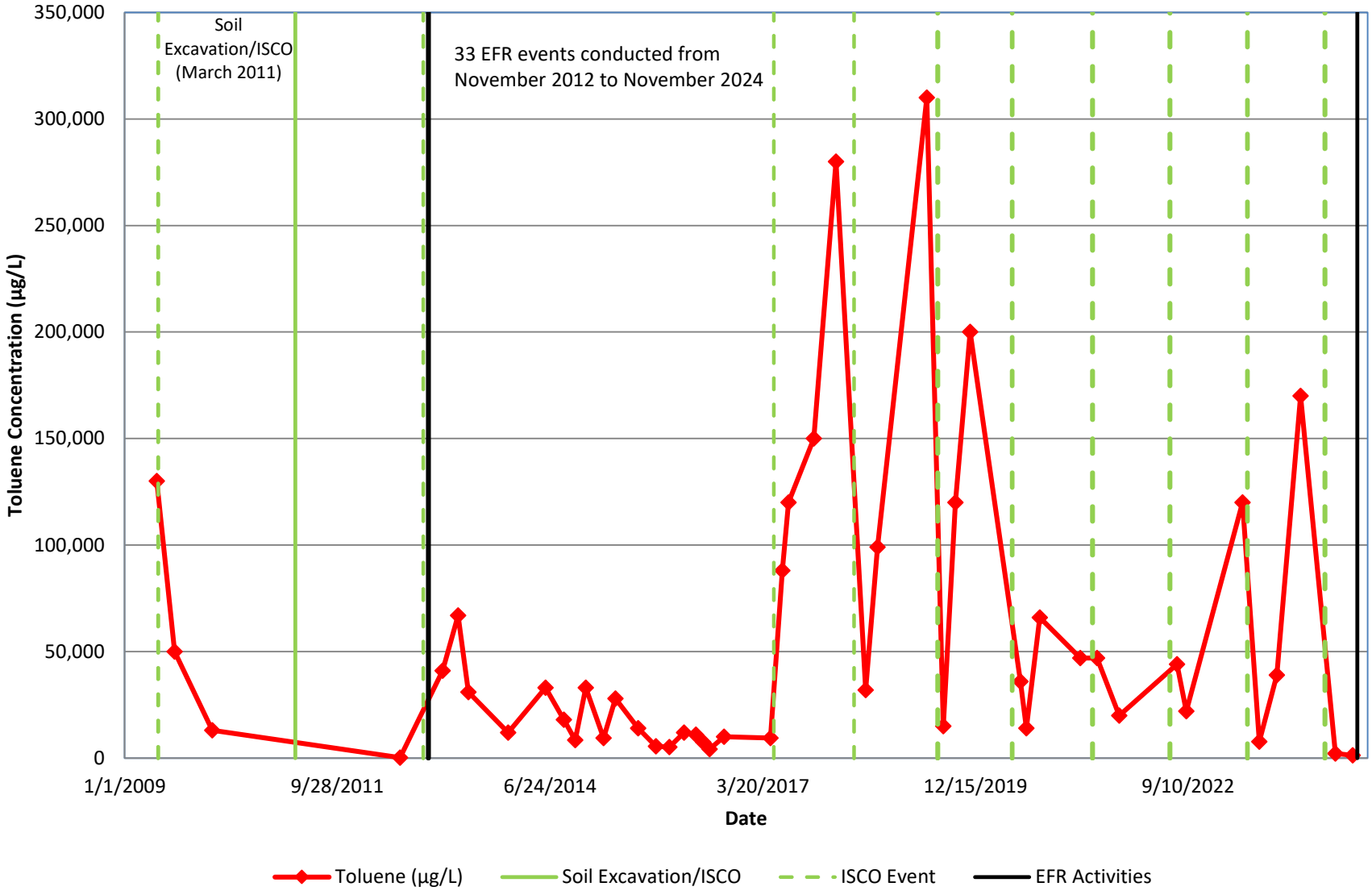


Figure 2-14
Toluene Concentrations Vs Time
Monitoring Well MP-29
Former Norton/Nashua Tape Products Facility

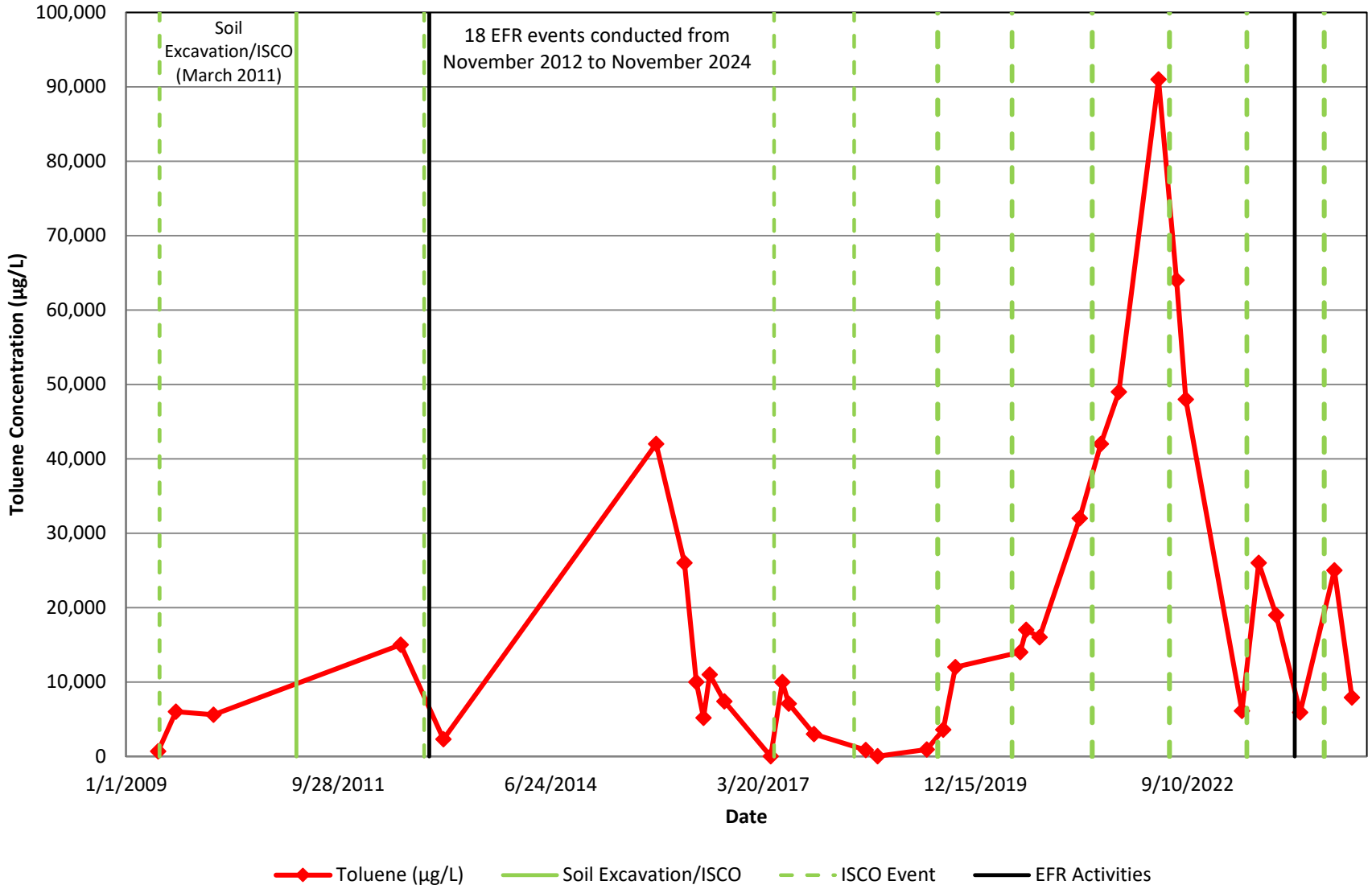


Figure 2-15
Toluene Concentrations Vs Time
Monitoring Well MP-39
Former Norton/Nashua Tape Products Facility

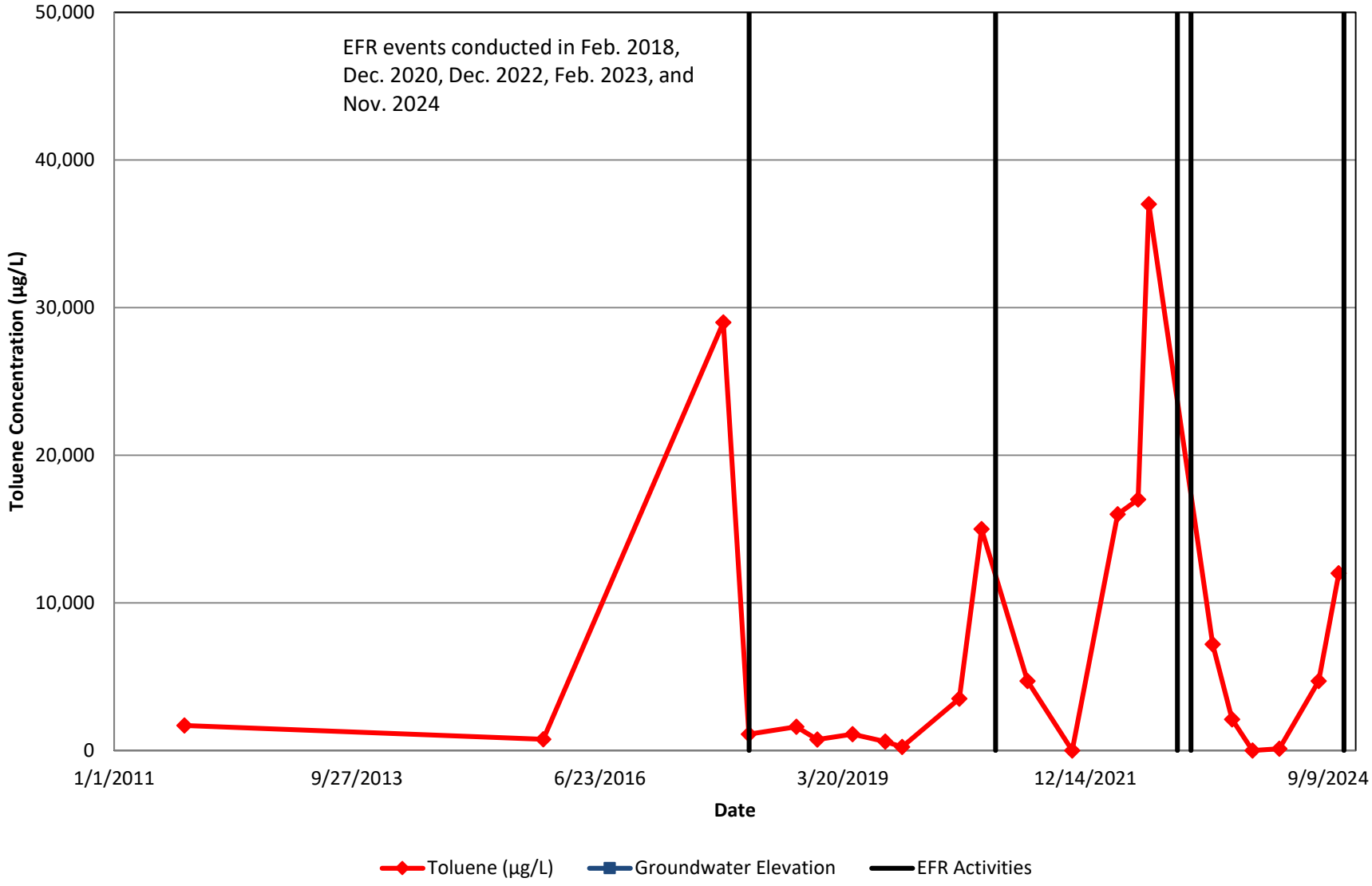
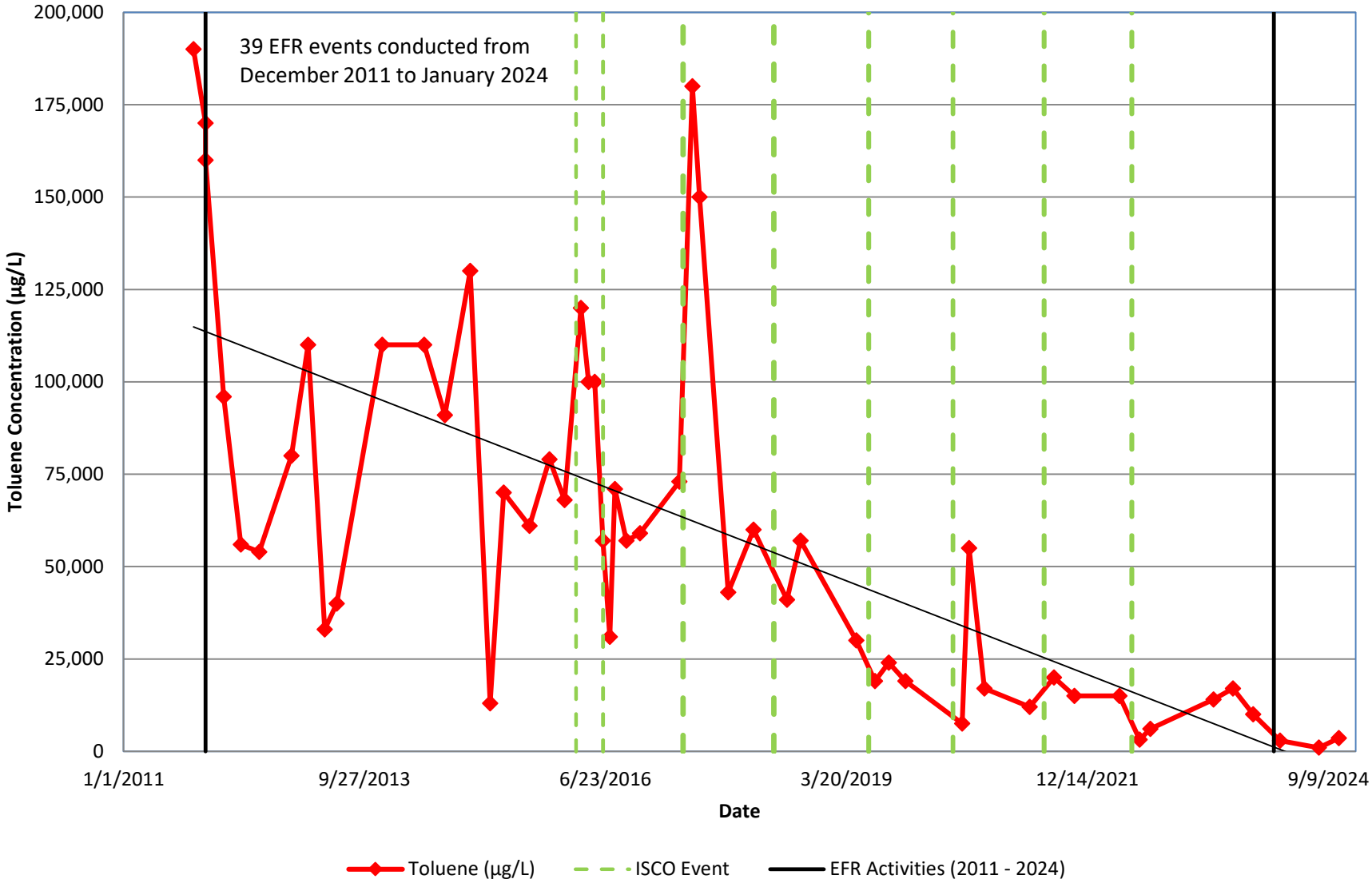
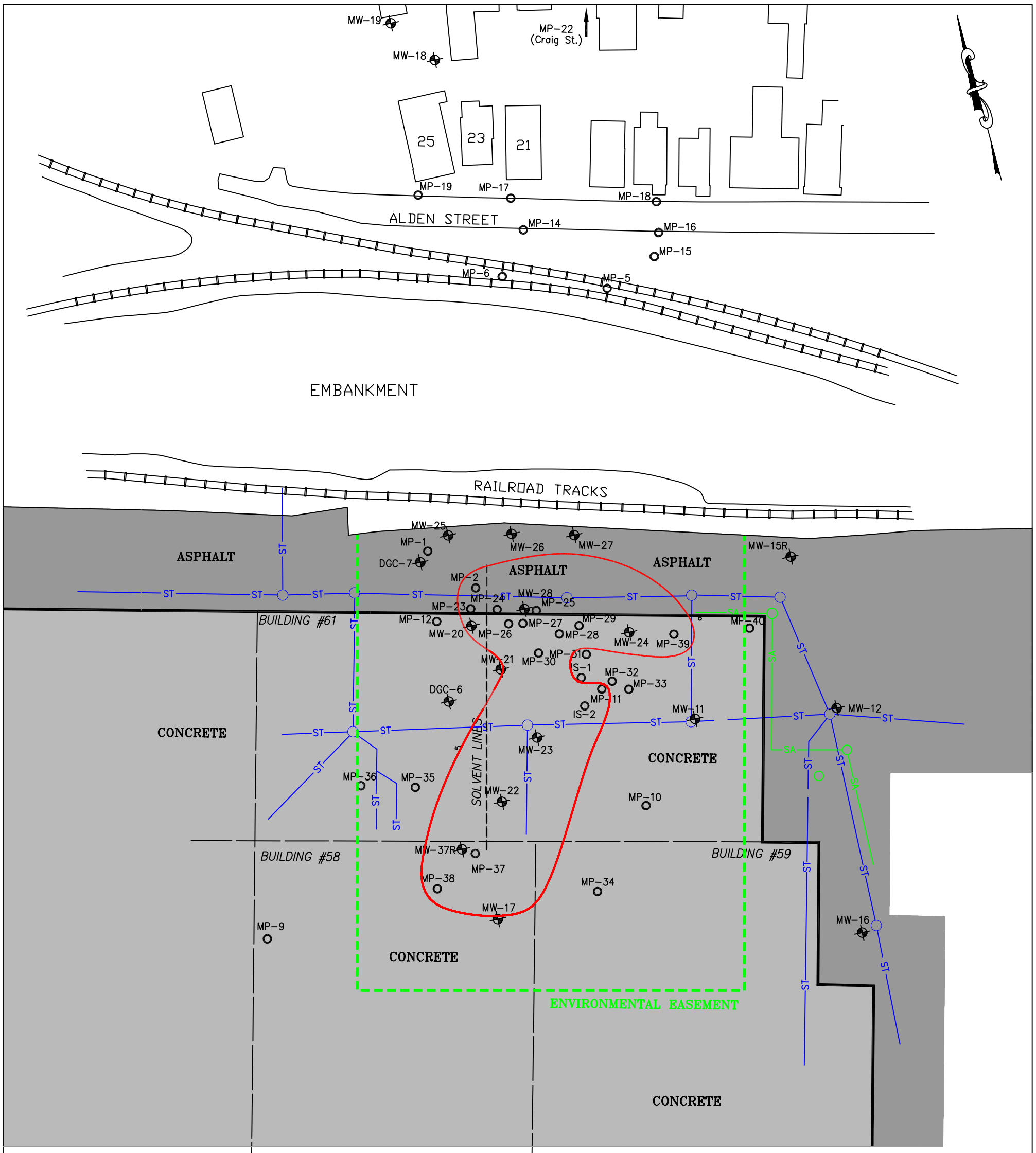


Figure 2-16
Toluene Concentrations Vs Time
Monitoring Well MP-37
Former Norton/Nashua Tape Products Facility





FORENSIC ENVIRONMENTAL SERVICES, INC.

FIGURE 3-1

COVER SYSTEM

FORMER NORTON/NASHUA TAPE PRODUCTS FACILITY

WATERVLIET, NEW YORK

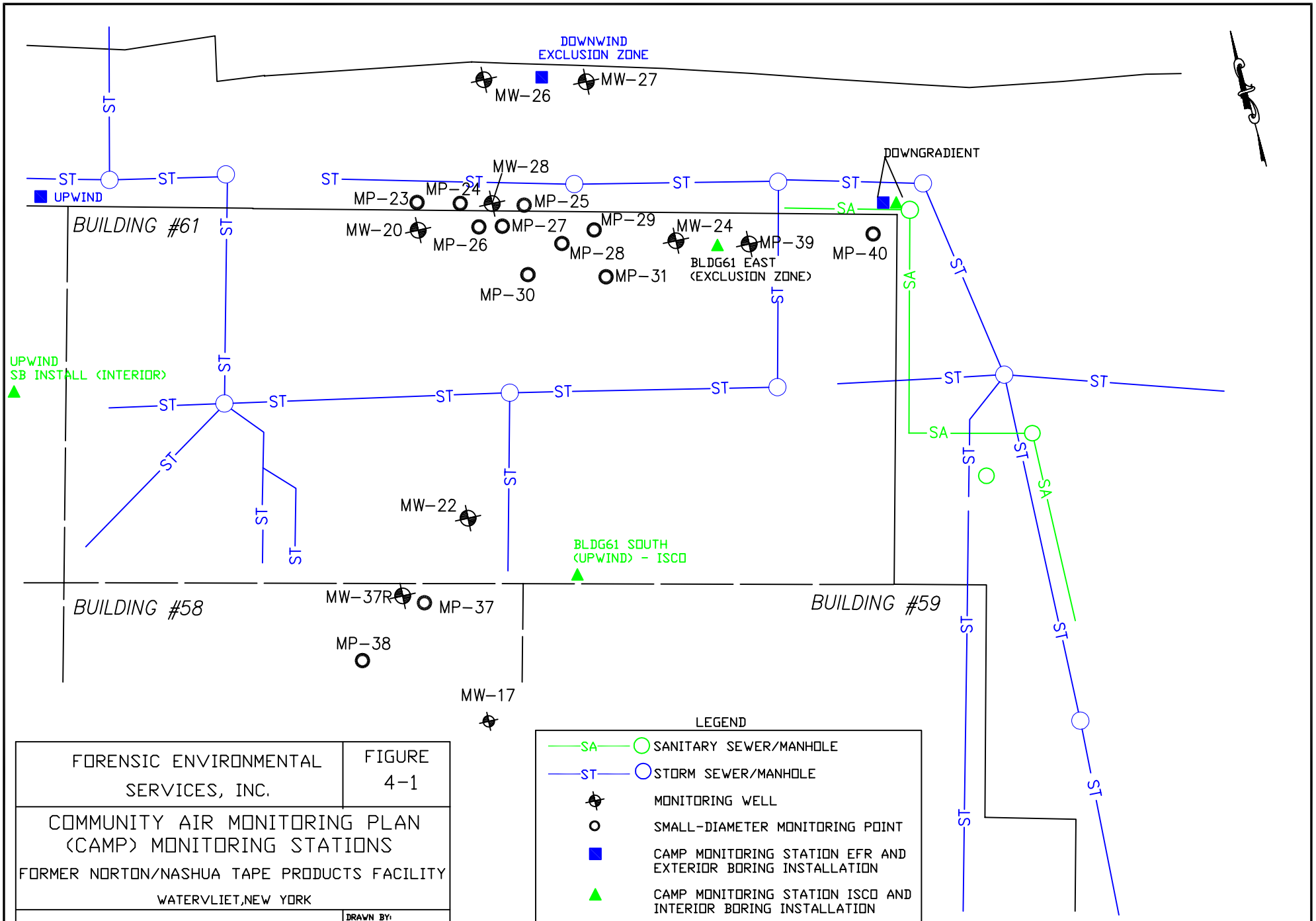
0 70

SCALE IN FEET

DRAWN BY: B.J.M. 12/4/2024

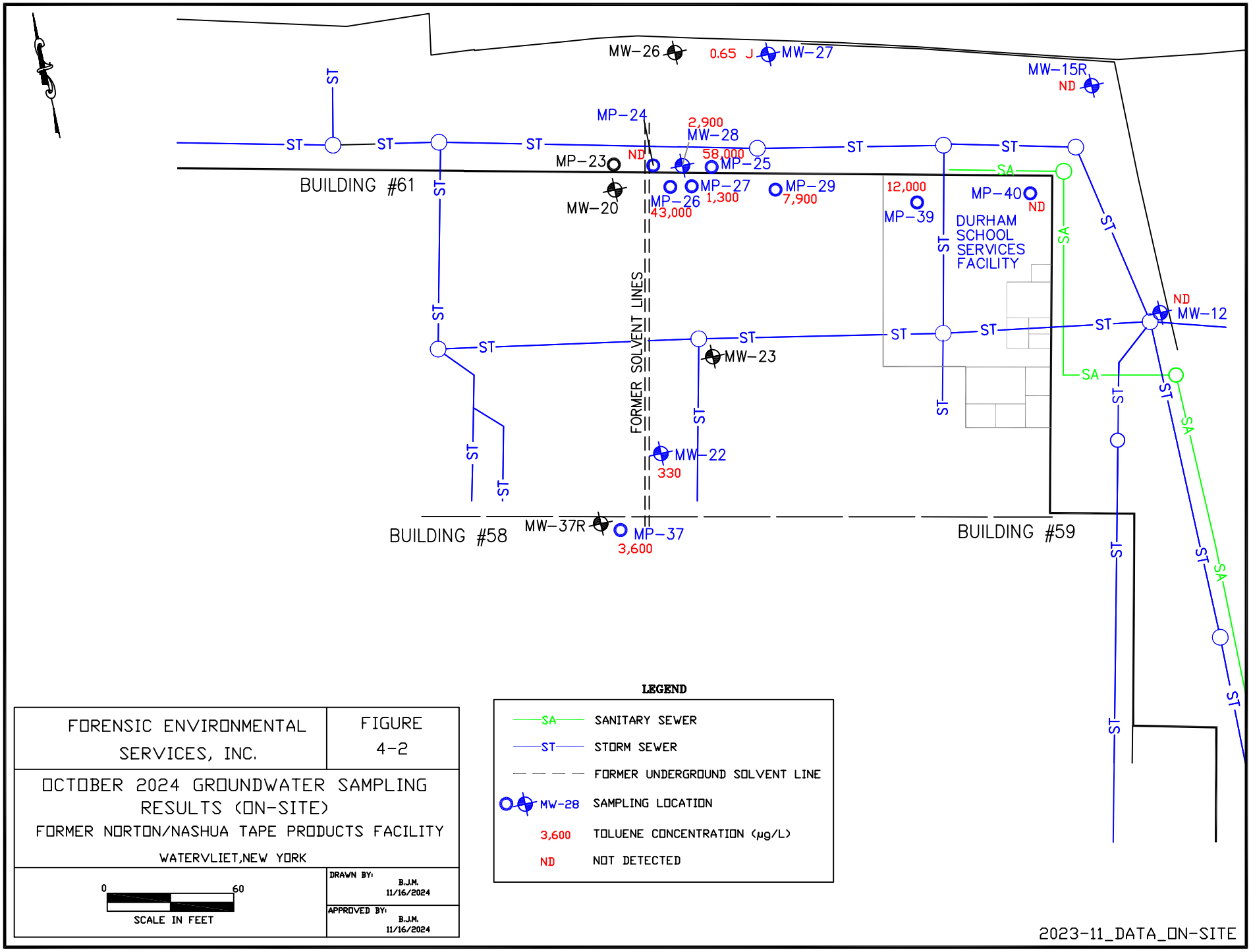
APPROVED BY: B.J.M. 12/4/2024

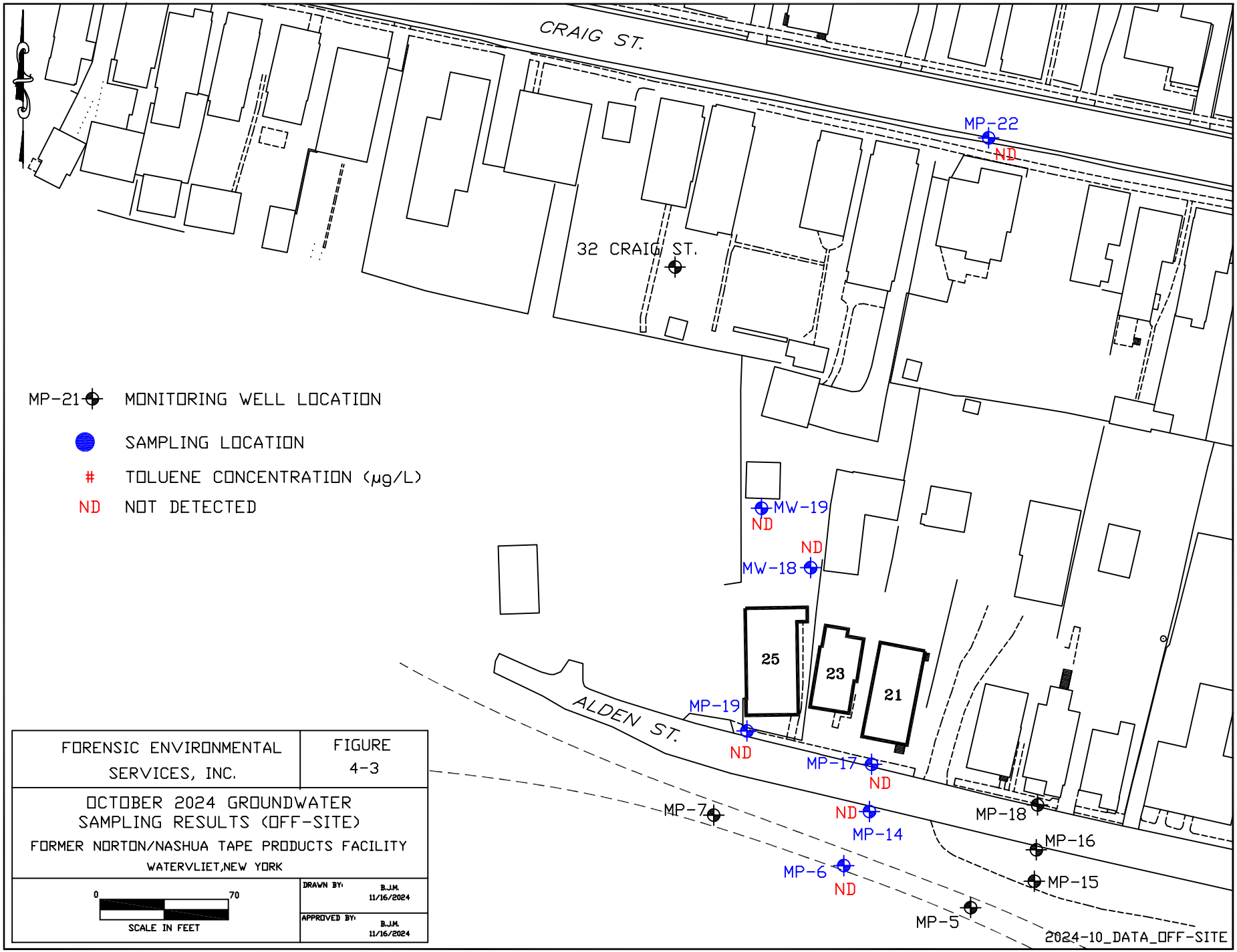
COVER SYSTEM.DWG



FORENSIC ENVIRONMENTAL SERVICES, INC.	FIGURE 4-1
COMMUNITY AIR MONITORING PLAN (CAMP) MONITORING STATIONS FORMER NORTON/NASHUA TAPE PRODUCTS FACILITY WATERVLIET,NEW YORK	
0 50 SCALE IN FEET	DRAWN BY: APPROVED BY:

CAMP Stations


MW-26
0.65 J
MW-27
MW-15R
ND
MP-24
2,900
MW-28
58,000
MP-23
ND
MP-25
BUILDING #61
MW-20
MP-26
43,000
MP-27
1,300
MP-29
7,900
12,000
MP-39
MP-40
ND
DURHAM
SCHOOL
SERVICES
FACILITY
FORMER SOLVENT LINES
ND
MW-12
MW-23
MW-22
330
BUILDING #58
MW-37R
MP-37
3,600
BUILDING #59
ST
SA
LEGEND
SA SANITARY SEWER
ST STORM SEWER
FORMER UNDERGROUND SOLVENT LINE
MW-28 SAMPLING LOCATION
3,600 TOLUENE CONCENTRATION (µg/L)
ND NOT DETECTED
FORENSIC ENVIRONMENTAL SERVICES, INC.
FIGURE 4-2
OCTOBER 2024 GROUNDWATER SAMPLING RESULTS (ON-SITE)
FORMER NORTON/NASHUA TAPE PRODUCTS FACILITY
WATERVLIET,NEW YORK
0
60
SCALE IN FEET
DRAWN BY: B.J.M. 11/16/2024
APPROVED BY: B.J.M. 11/16/2024
2023-11_DATA_ON-SITE


CRAIG ST.
32 CRAIG ST.
MP-22
ND
MP-21 MONITORING WELL LOCATION
SAMPLING LOCATION
TOLUENE CONCENTRATION (µg/L)
ND NOT DETECTED
MW-19
ND
ND
MW-18
25
23
21
ALDEN ST.
MP-19
ND
MP-17
ND
ND
MP-14
MP-7
MP-18
MP-16
MP-15
MP-6
ND
MP-5
2024-10_DATA_OFF-SITE
FORENSIC ENVIRONMENTAL SERVICES, INC.
FIGURE 4-3
OCTOBER 2024 GROUNDWATER SAMPLING RESULTS (OFF-SITE)
FORMER NORTON/NASHUA TAPE PRODUCTS FACILITY
WATERVLIET,NEW YORK
0
70
SCALE IN FEET
DRAWN BY: B.J.M. 11/16/2024
APPROVED BY: B.J.M. 11/16/2024

APPENDIX A

CAP INSPECTION FORMS

SITE MANAGEMENT FORM
CAP SYSTEM INSPECTION FORM

Former Norton/Nashua Tape Products Facility
2600 Seventh Avenue
Watervliet, New York

O&M INSPECTION

Inspector Information	Date/Time: 2/15/24 12:00
Inspector Name: Bryan Machella	Project No. 029.08
Company: FES	Weather: overcast
Address: 113 John Robert Thomas Drive, Exton, PA 19341	
Phone: 610-594-3940	
E-mail: forensic@chesco.com	

Are there cracks or rills in the asphalt/concrete cap more than 2-inches wide? Do the cracks extend through the cap? Yes (No)
Comments: Minor cracks in concrete slab; No breaches or exposed soil

Are there noticeable depressions, ponding of surface water, or evidence of ponding on the capped areas? Yes (No)
Comments:

Are there any signs of sliding or sloughing which might indicate cap failure? Yes (No)
Comments:

Are there open holes or animal burrows in the cap? Yes (No)
Comments:

Is there excessive debris, silt, or other deleterious material obstructing flow over the cap? Yes (No)
Comments:

Is there evidence of erosion or damage to the cap? Yes (No)
Comments:

Are there areas of stressed or missing vegetation adjacent to the cap? Yes (No)
Comments:

CAP SYSTEM INSPECTION FORM

Watervliet New York **Date:**

Have invasive or deep-rooting species taken root on the cap cover?	Yes	(No)
Comments:		
Is the perimeter fencing intact and in good condition?	Yes	No (NA)
Comments: Fencing on the northern portion of the site removed by property owner in 2021		
Other evidence of cap system damage or failure?	Yes	(No)
Comments:		

Additional Notes:

Photo log attached

Inspector Signature:

SITE MANAGEMENT FORM
SITE-WIDE SYSTEM INSPECTION FORM

Former Norton/Nashua Tape Products Facility
2600 Seventh Avenue
Watervliet, New York

O&M INSPECTION

Inspector Information		Project No. 029.05
Date/Time 3/15/24	3/15/24 12:00	Weather: overcast
Inspector Name:	BRYAN MACHOLDA	
Company:	FES	
Phone:	610-594-3940	
Site Usage:	WAREHOUSING / BUS MAINTENANCE + PARKING	
Current Site Activities:	" " "	
General Site Condition:	Excellent - NEW PAVING IN 2021	

Description of Inspection Methods

Observations

Area Inspected	Evidence of Cracks?	Crack Description (location, type, dimensions)	Evidence of Ponding?	Ponding Description (location, areal extent)	Evidence of Erosion	Erosion Description (location, characteristics	Other Observations
Buildings 59 + 61	Y (N)	MINOR CRACKS IN SLAB NO BREACHES	Y (N)	—	Y (N)	—	SLAB in excellent condition
North of Bldg 61	Y (N)	Re-PAVED IN 2021	Y (N)	—	Y (N)	—	Excellent condition
	Y N		Y N		Y N		

Recommendations

Inspection Signature: [signature] 3/15/2024

Cap Inspection Photo Log (March 15, 2024)
Former Norton/Nashua Facility
Watervliet, New York

Figure 1. Concrete slab inside the northern portion of Building #61 (view looking east).



Figure 2. Concrete slab inside the northern portion of Building #61 (view looking southeast).



Figure 3. Concrete slab inside the central portion of Building #61 (view looking south).



Figure 4. Concrete slab inside the central portion of Building #61 (view looking west).



Figure 5. Concrete slab inside the northern portion of Building #61 (view looking north).



Figure 6. Concrete slab inside the western portion of Building #61 (view looking south).

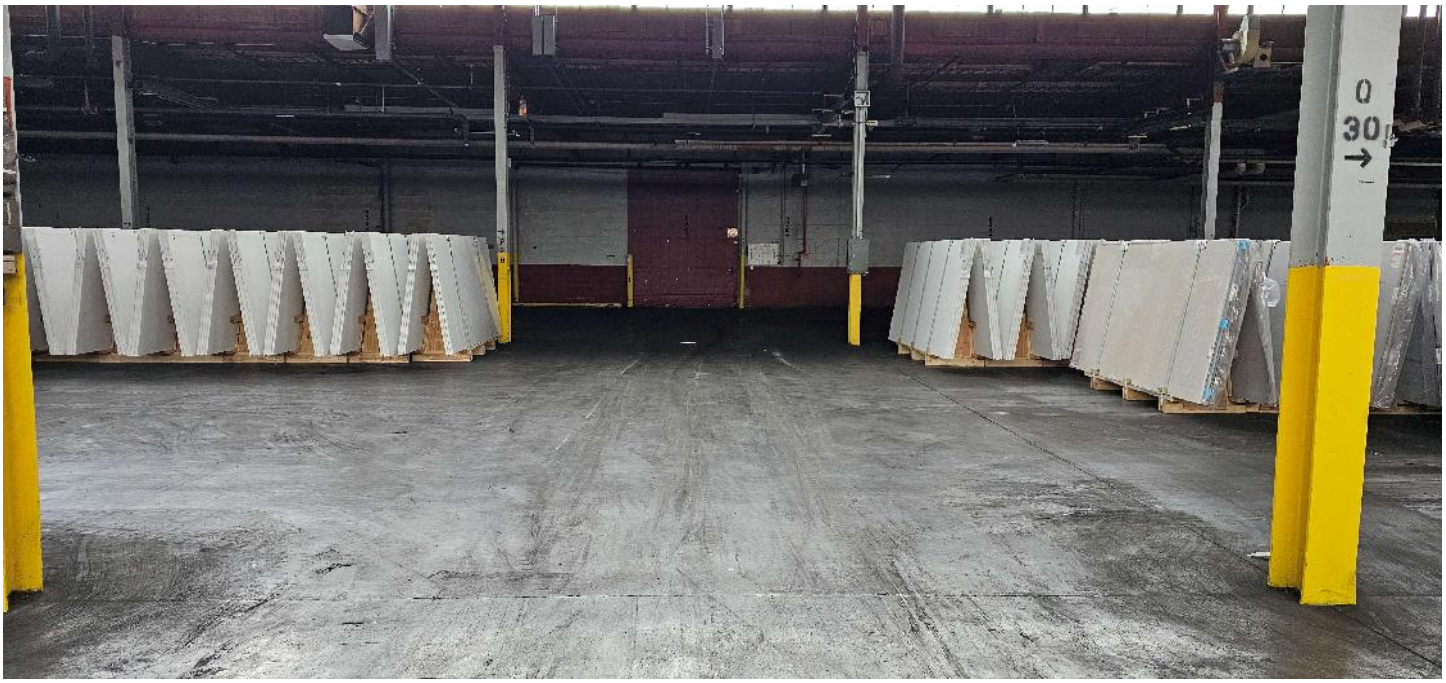


Figure 7. Concrete slab inside the eastern portion of Building #61 (view looking northeast).



Figure 8. Concrete slab inside the northern portion of Building #58; MP-37 in foreground (view looking south).

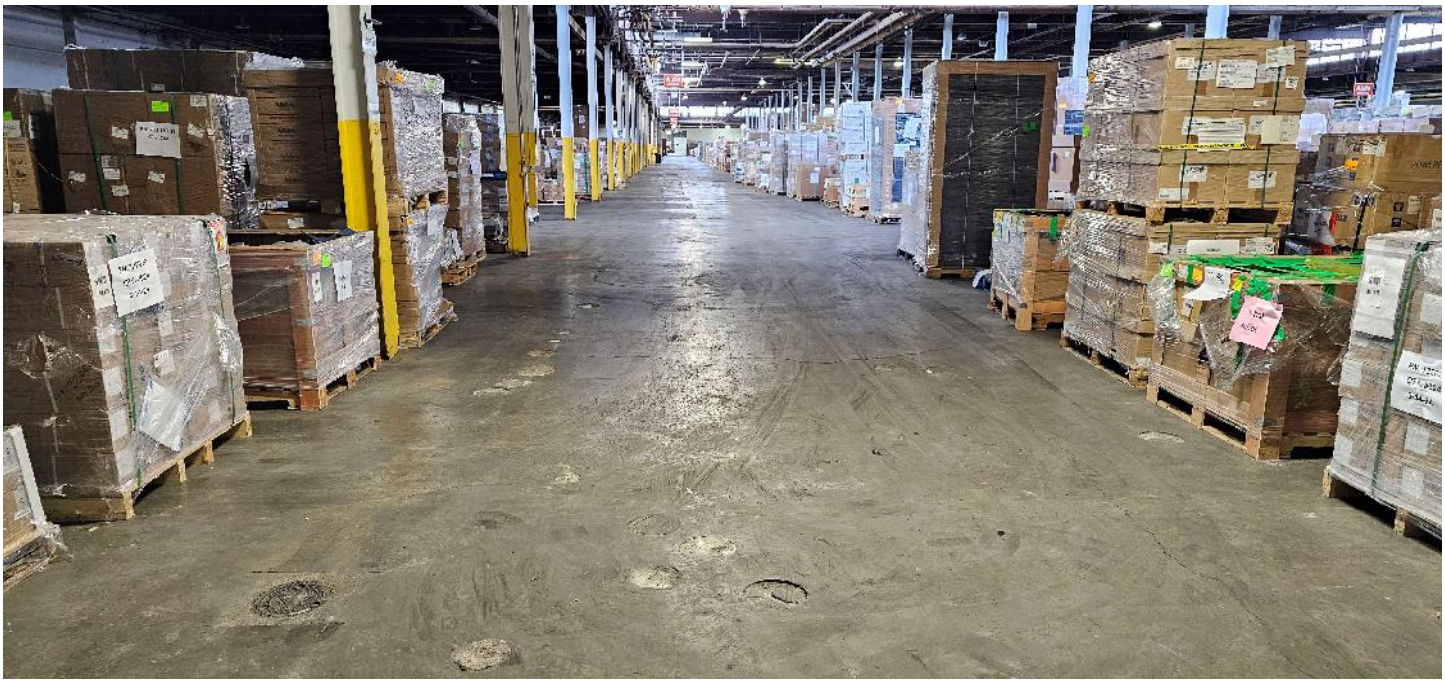


Figure 9. Concrete slab inside the eastern portion of Building #58 (view looking north).



Figure 10. Concrete slab inside the western portion of Building #58 (view looking west).

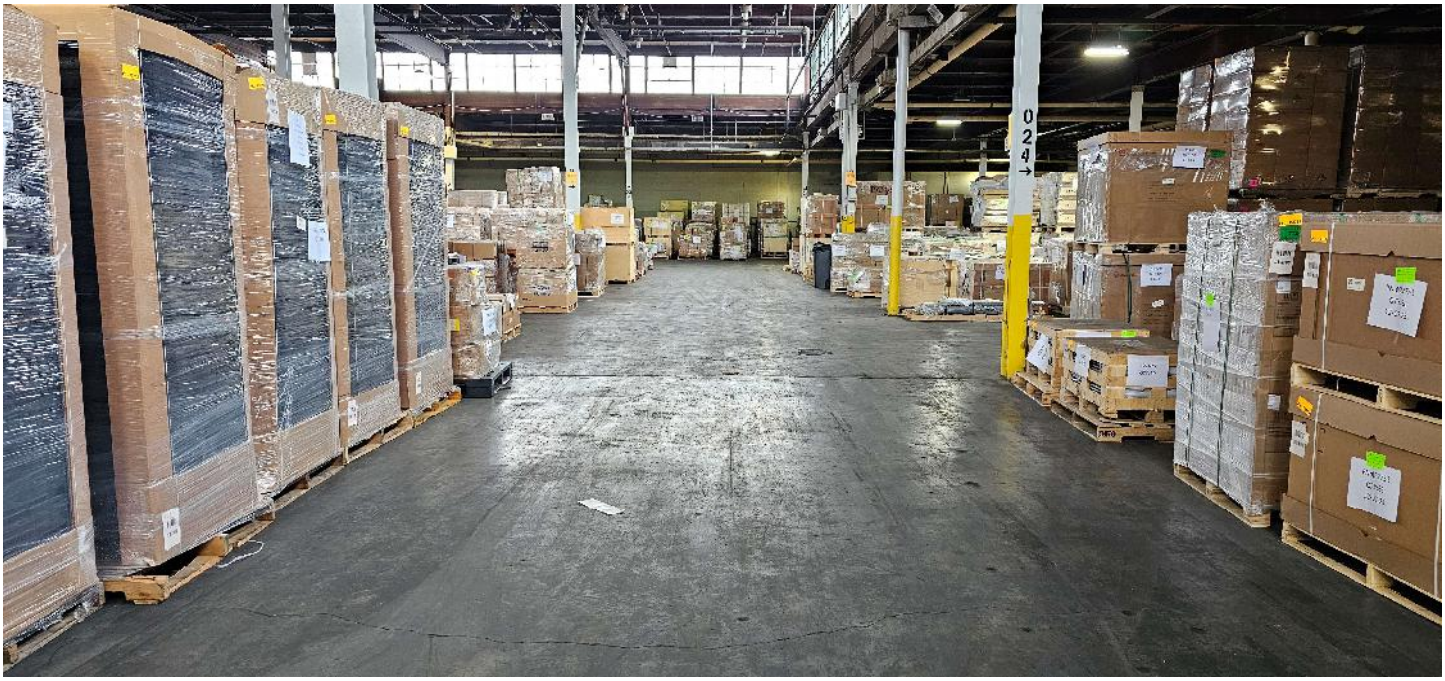


Figure 11. Concrete slab inside the northern portion of Building #58 (view looking north).

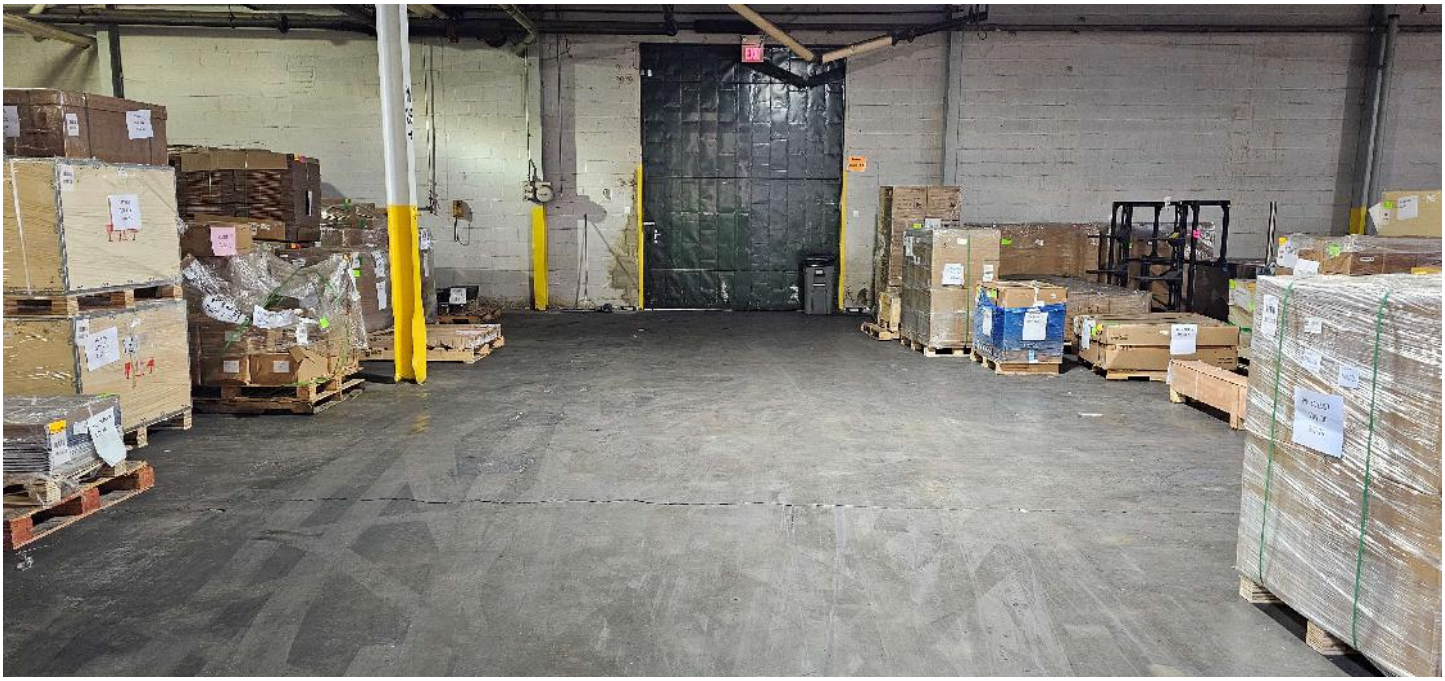


Figure 12. Concrete slab inside the northern portion of Building #58 (view looking south).

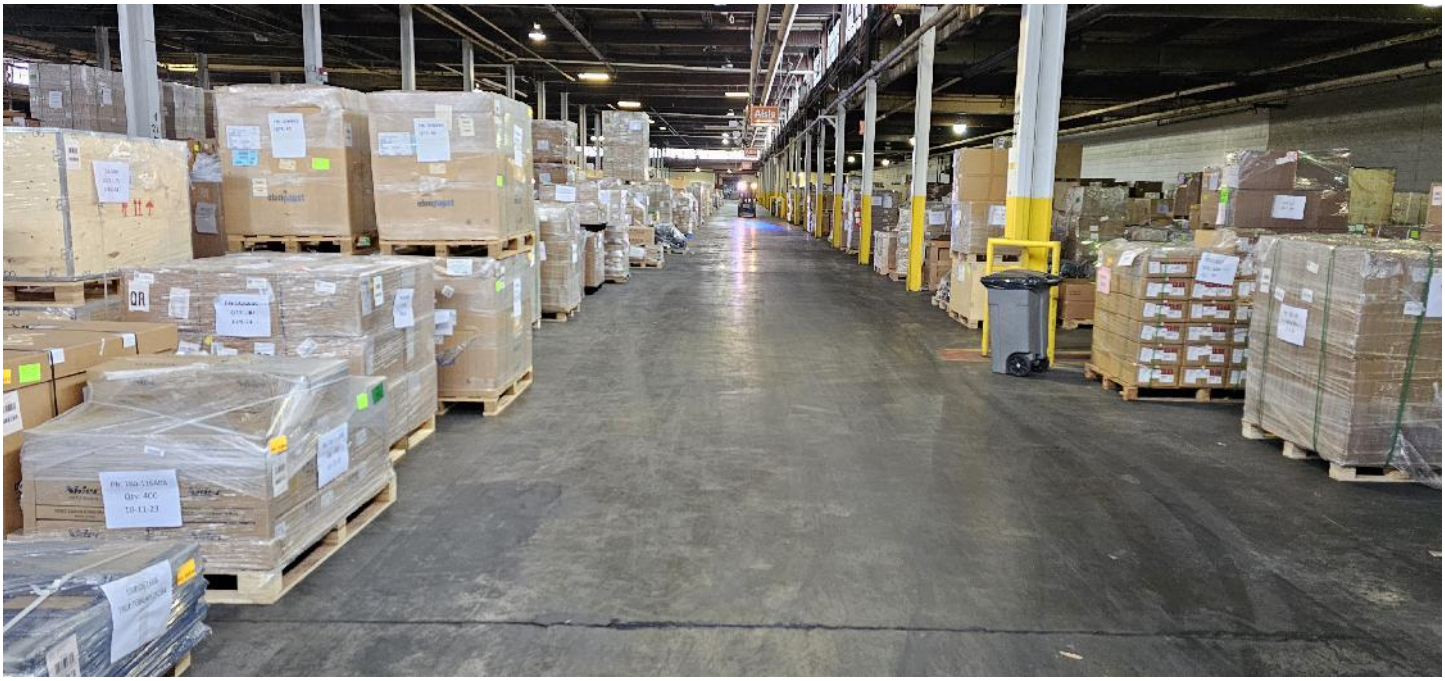


Figure 13. Paved parking area north of Building #61 (view looking east).



Figure 14. Paved parking area north of Building #61 (view looking west).



Figure 15. Paved parking area north of Building #61; MP-25 in foreground (view looking west)



Figure 16. Paved parking area north of Building #61 (view looking east).



SITE MANAGEMENT FORM
CAP SYSTEM INSPECTION FORM

Former Norton/Nashua Tape Products Facility
2600 Seventh Avenue
Watervliet, New York

O&M INSPECTION

Inspector Information	Date/Time: 10/23/24
Inspector Name: Ryan Scrago	Project No. 029.08
Company: Forensic Environmental Services	Weather:
Address: 113 John Robert Thomas dr, Exton, PA 19341	
Phone: 610-594-3940	
E-mail: Forensic@Chesco.com	

Are there cracks or rills in the asphalt/concrete cap more than 2-inches wide? Do the cracks extend through the cap? Yes (No)
Comments:
minor cracks in building slab, no breaches.

Are there noticeable depressions, ponding of surface water, or evidence of ponding on the capped areas? Yes (No)
Comments:

Are there any signs of sliding or sloughing which might indicate cap failure? Yes (No)
Comments:

Are there open holes or animal burrows in the cap? Yes (No)
Comments:
:

Is there excessive debris, silt, or other deleterious material obstructing flow over the cap? Yes (No)
Comments:

Is there evidence of erosion or damage to the cap? (Yes) No
Comments: Slight erosion of Cap surface on MP-26 and MP-27, but erosion has not breached the Cap.

Are there areas of stressed or missing vegetation adjacent to the cap? Yes (No)
Comments:

CAP SYSTEM INSPECTION FORM

Watervliet New York **Date:** 10/23/24

Have invasive or deep-rooting species taken root on the cap cover? Yes (No)

Comments:

Is the perimeter fencing intact and in good condition? NA Yes No

Comments:

Fencing on northern perimeter was removed by property owner in 2021.

Other evidence of cap system damage or failure? Yes (No)

Comments:

Additional Notes:

See photo log.

Inspector Signature: 10/23/24

Cap Inspection Photo Log (October 23, 2024)
Former Norton/Nashua Facility
Watervliet, New York

Figure 1. Northern portion of Building-58 (view looking south).

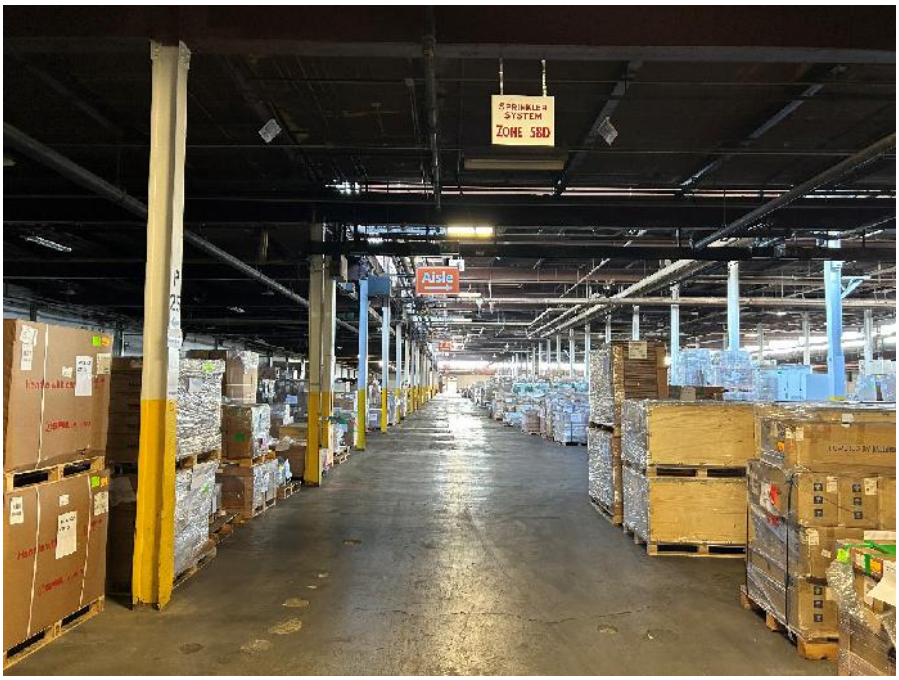


Figure 2. Northern portion of Building-58 (view looking north).



Figure 3. Northern portion of Building-58 (view looking west).

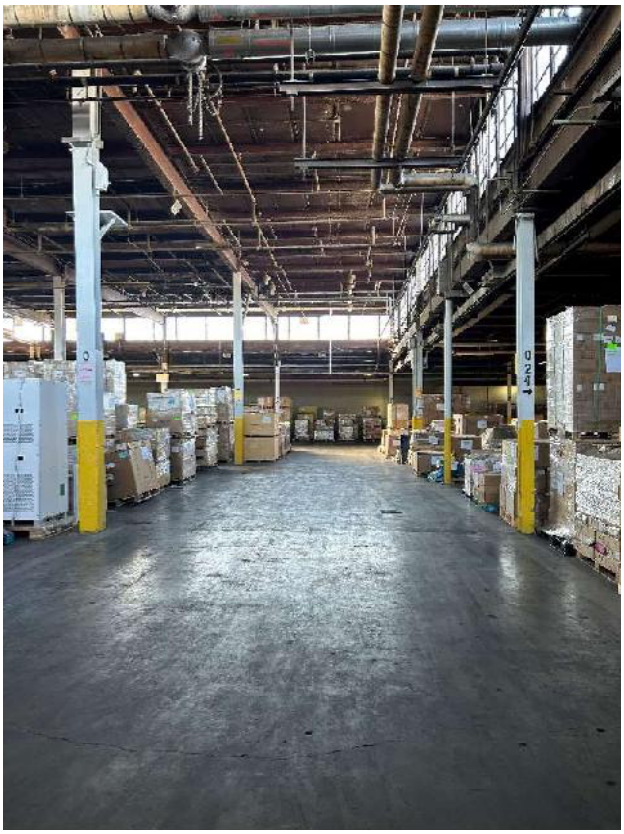


Figure 4. Concrete slab inside the northern portion of Building #61 (view looking east).



Figure 5. Concrete slab inside the central portion of Building #61 (view looking south).

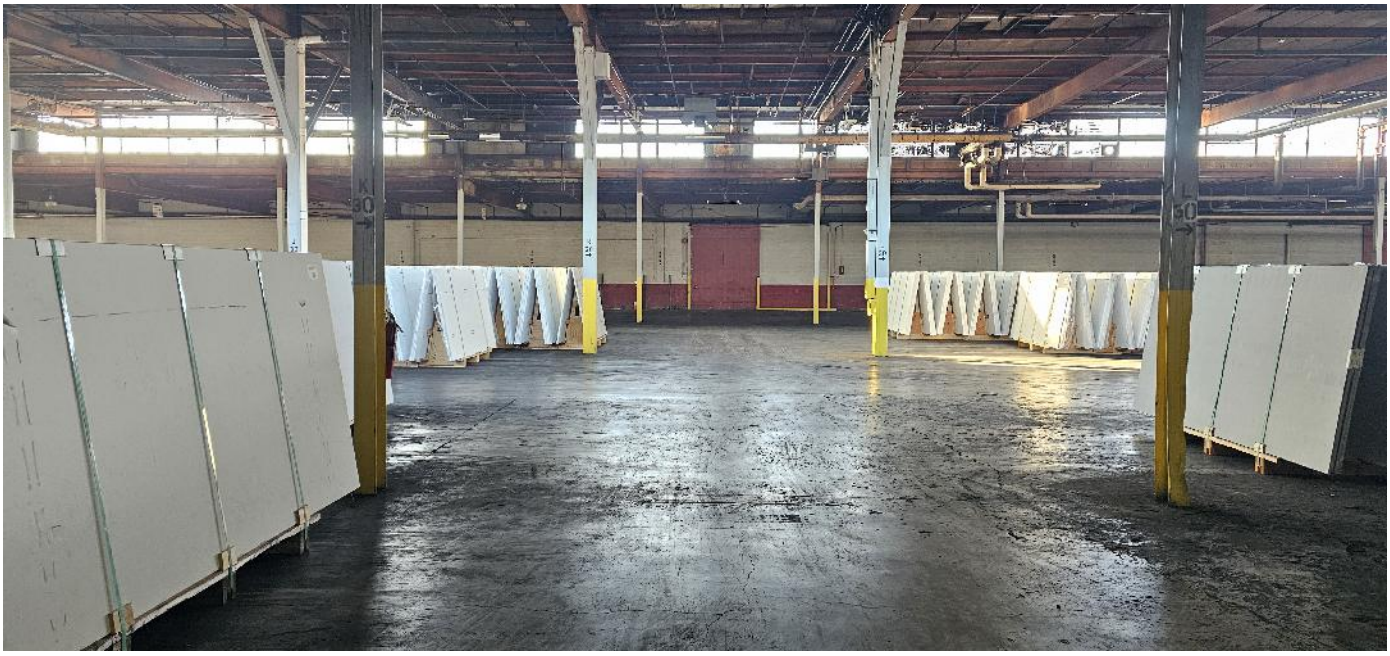


Figure 6. Concrete slab inside the northern portion of Building #61 (view looking southeast).



Figure 7. Concrete slab inside the southern portion of Building #61 (view looking west).

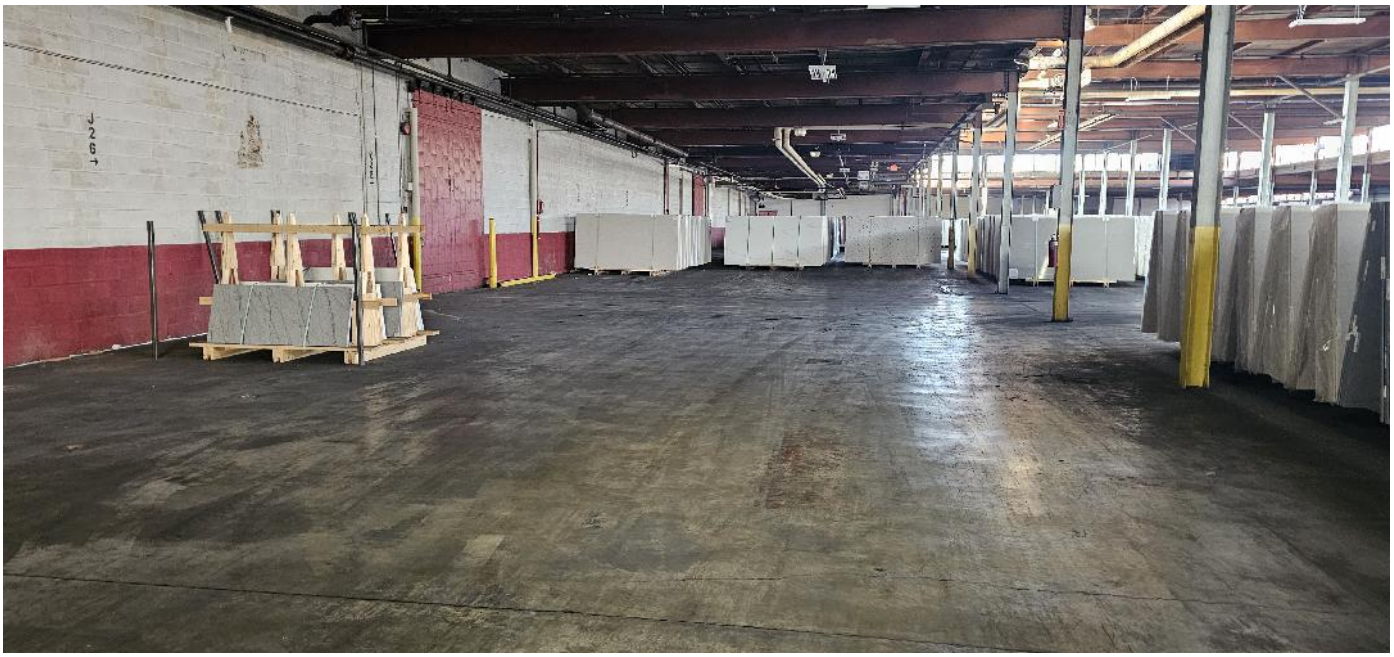


Figure 8. Concrete slab inside the northern portion of Building #61 (view looking northwest).



Figure 9. Paved parking area north of Building #61 (view looking east).



Figure 10. Paved parking area north of Building #61 (view looking east).



Figure 11. Paved parking area north of Building #61 (view looking west)



APPENDIX B

INSTITUTIONAL AND ENGINEERING CONTROLS CERTIFICATION FORM

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. 401062

Site Name Kendall Polken Nashua Tape

Site Address: 2600 7th Avenue Zip Code: 12189
City/Town: Watervliet
County: Albany
Site Acreage: 22.000

Reporting Period: October 23, 2023 to October 23, 2024

	YES	NO
1. Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☒

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below?	☒	☐
7. Are all ICs in place and functioning as designed?	☒	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

_____ _____
Signature of Owner, Remedial Party or Designated Representative Date

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	❑	☒

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☒	❑

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. 401062

Description of Institutional Controls

Parcel	Owner	Institutional Control
	Cloverleaf Distribution, LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction Site Management Plan IC/EC Plan Monitoring Plan

1. Complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);
2. Allows the use and development of the controlled property for commercial and industrial uses as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
3. Restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH; and
4. Requires compliance with the Department approved Site Management Plan.

Description of Engineering Controls

Parcel	Engineering Control
	Cover System Groundwater Treatment System Monitoring Wells

A site cover will be required for the former tank farm area not occupied by buildings and will be maintained to allow for commercial use of the site. Any site redevelopment will maintain the existing site cover. The site cover may include paved surface parking areas, sidewalks or soil where the upper one foot of exposed surface soil meets the applicable SCOs for commercial use. Any fill material brought to the site will meet the requirements for the identified site use as set forth in 6NYCRR part 375-6.7(d).
In-Situ Chemical Oxidation (ISCO) will be implemented to treat toluene contamination in groundwater via injection wells screened across the water table. Concurrent removal of groundwater and VOC vapors from existing extraction wells will be done using a high vacuum truck. Also, the biological breakdown of contaminants in groundwater will be enhanced by dosing extraction wells with nitrate and phosphate as needed.

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 Engineering Control certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted e

YES	NO
☒	❑

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

(a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☒	❑

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. 401062

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Andrew Caloway (print name) at 20 Moores Road, Malvern, PA 19355 (print business address),

am certifying as Remedial Party (Owner or Remedial Party)

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

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

1/22/25
Date

EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Ravi K. Korlipara (print name) at 150 Broad Hollow Road, STE PH7, Melville, NY 17747, (print business address)

am certifying as a Professional Engineer for the Saint-Gobain Corporation (Owner or Remedial Party)



1/17/25

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

Stamp (Required for PE)

Date

Enclosure 3
Periodic Review Report (PRR) General Guidance

I. Executive Summary: (1/2-page or less)
   A. Provide a brief summary of site, nature and extent of contamination, and remedial history.
   B. Effectiveness of the Remedial Program - Provide overall conclusions regarding;
      1. progress made during the reporting period toward meeting the remedial objectives for the site
      2. the ultimate ability of the remedial program to achieve the remedial objectives for the site.
   C. Compliance
      1. Identify any areas of non-compliance regarding the major elements of the Site Management Plan (SMP, i.e., the Institutional/Engineering Control (IC/EC) Plan, the Monitoring Plan, and the Operation & Maintenance (O&M) Plan).
      2. Propose steps to be taken and a schedule to correct any areas of non-compliance.
   D. Recommendations
      1. recommend whether any changes to the SMP are needed
      2. recommend any changes to the frequency for submittal of PRRs (increase, decrease)
      3. recommend whether the requirements for discontinuing site management have been met.

II. Site Overview (one page or less)
   A. Describe the site location, boundaries (figure), significant features, surrounding area, and the nature and extent of contamination prior to site remediation.
   B. Describe the chronology of the main features of the remedial program for the site, the components of the selected remedy, cleanup goals, site closure criteria, and any significant changes to the selected remedy that have been made since remedy selection.

III. Evaluate Remedy Performance, Effectiveness, and Protectiveness
   Using tables, graphs, charts and bulleted text to the extent practicable, describe the effectiveness of the remedy in achieving the remedial goals for the site. Base findings, recommendations, and conclusions on objective data. Evaluations and should be presented simply and concisely.

IV. IC/EC Plan Compliance Report (if applicable)
   A. IC/EC Requirements and Compliance
      1. Describe each control, its objective, and how performance of the control is evaluated.
      2. Summarize the status of each goal (whether it is fully in place and its effectiveness).
      3. Corrective Measures: describe steps proposed to address any deficiencies in ICECs.
      4. Conclusions and recommendations for changes.
   B. IC/EC Certification
      1. The certification must be complete (even if there are IC/EC deficiencies), and certified by the appropriate party as set forth in a Department-approved certification form(s).

V. Monitoring Plan Compliance Report (if applicable)
   A. Components of the Monitoring Plan (tabular presentations preferred) - Describe the requirements of the monitoring plan by media (i.e., soil, groundwater, sediment, etc.) and by any remedial technologies being used at the site.
   B. Summary of Monitoring Completed During Reporting Period - Describe the monitoring tasks actually completed during this PRR reporting period. Tables and/or figures should be used to show all data.
   C. Comparisons with Remedial Objectives - Compare the results of all monitoring with the remedial objectives for the site. Include trend analyses where possible.
   D. Monitoring Deficiencies - Describe any ways in which monitoring did not fully comply with the monitoring plan.
   E. Conclusions and Recommendations for Changes - Provide overall conclusions regarding the monitoring completed and the resulting evaluations regarding remedial effectiveness.

VI. Operation & Maintenance (O&M) Plan Compliance Report (if applicable)
   A. Components of O&M Plan - Describe the requirements of the O&M plan including required activities, frequencies, recordkeeping, etc.
   B. Summary of O&M Completed During Reporting Period - Describe the O&M tasks actually completed during this PRR reporting period.
   C. Evaluation of Remedial Systems - Based upon the results of the O&M activities completed, evaluated

the ability of each component of the remedy subject to O&M requirements to perform as designed/expected.

D. O&M Deficiencies - Identify any deficiencies in complying with the O&M plan during this PRR reporting period.

E. Conclusions and Recommendations for Improvements - Provide an overall conclusion regarding O&M for the site and identify any suggested improvements requiring changes in the O&M Plan.

VII. Overall PRR Conclusions and Recommendations

A. Compliance with SMP - For each component of the SMP (i.e., IC/EC, monitoring, O&M), summarize;

1. whether all requirements of each plan were met during the reporting period
2. any requirements not met
3. proposed plans and a schedule for coming into full compliance.

B. Performance and Effectiveness of the Remedy - Based upon your evaluation of the components of the SMP, form conclusions about the performance of each component and the ability of the remedy to achieve the remedial objectives for the site.

C. Future PRR Submittals

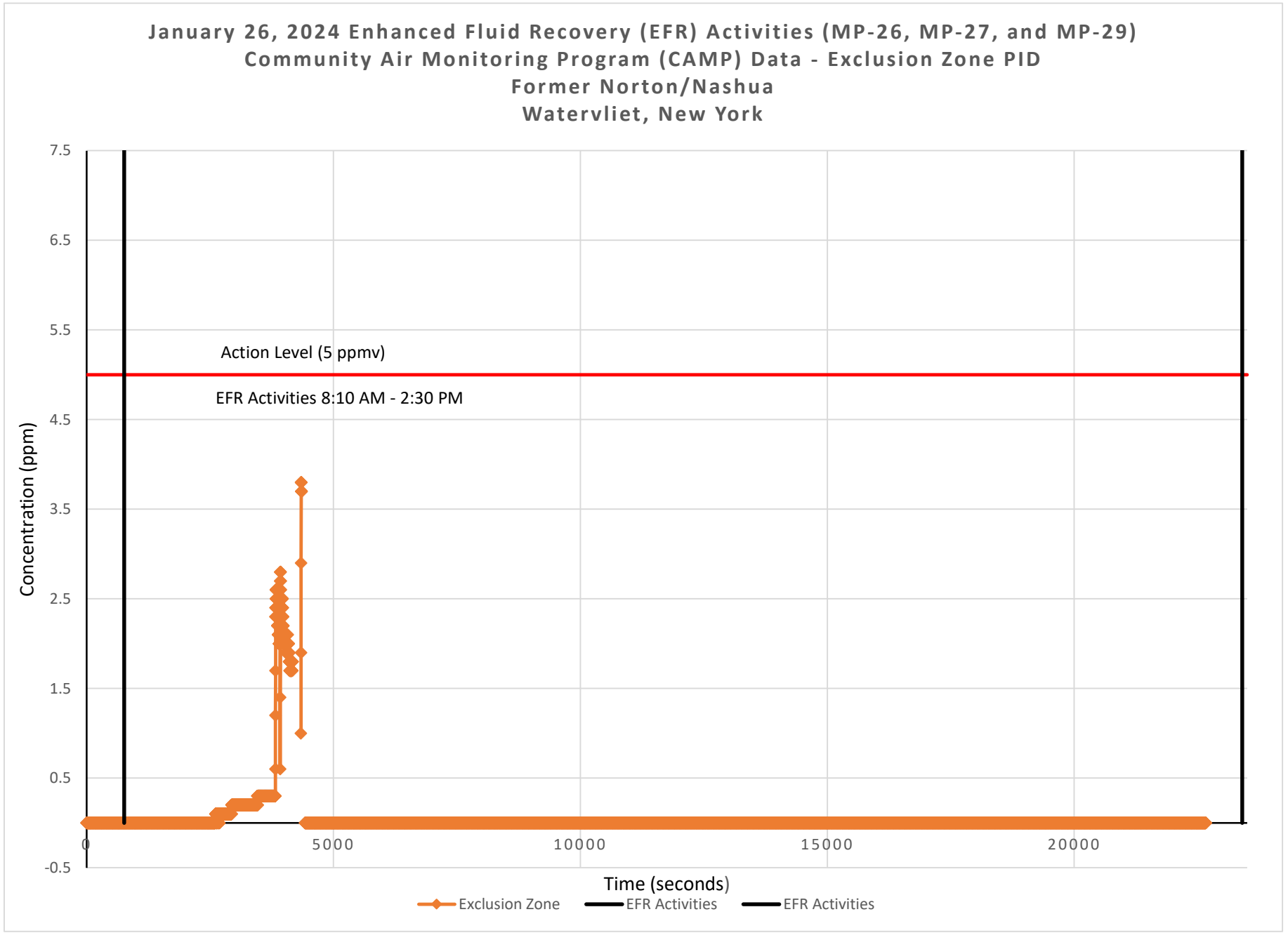
1. Recommend, with supporting justification, whether the frequency of the submittal of PRRs should be changed (either increased or decreased).
2. If the requirements for site closure have been achieved, contact the Departments Project Manager for the site to determine what, if any, additional documentation is needed to support a decision to discontinue site management.

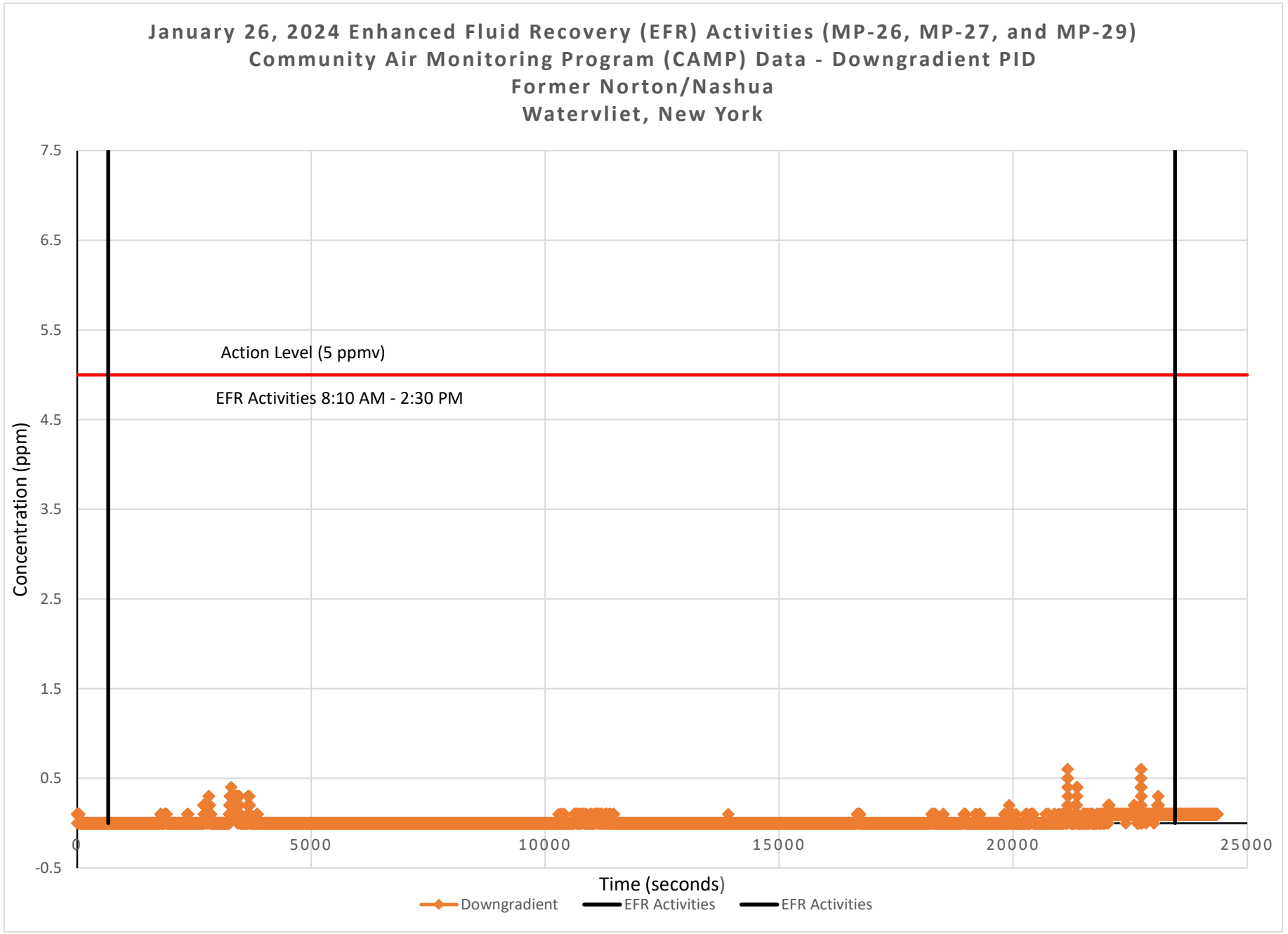
VIII. Additional Guidance

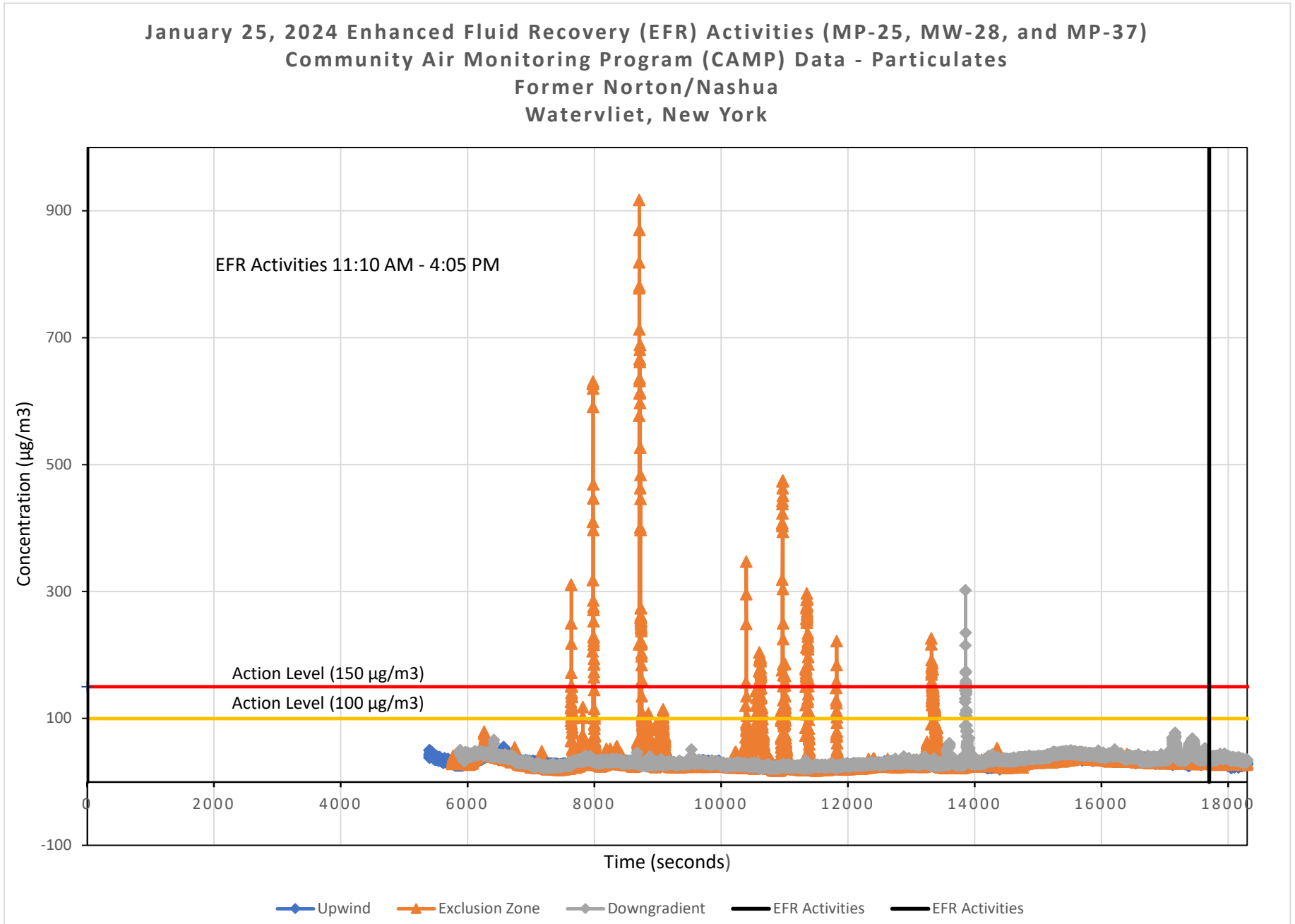
Additional guidance regarding the preparation and submittal of an acceptable PRR can be obtained from the Departments Project Manager for the site.

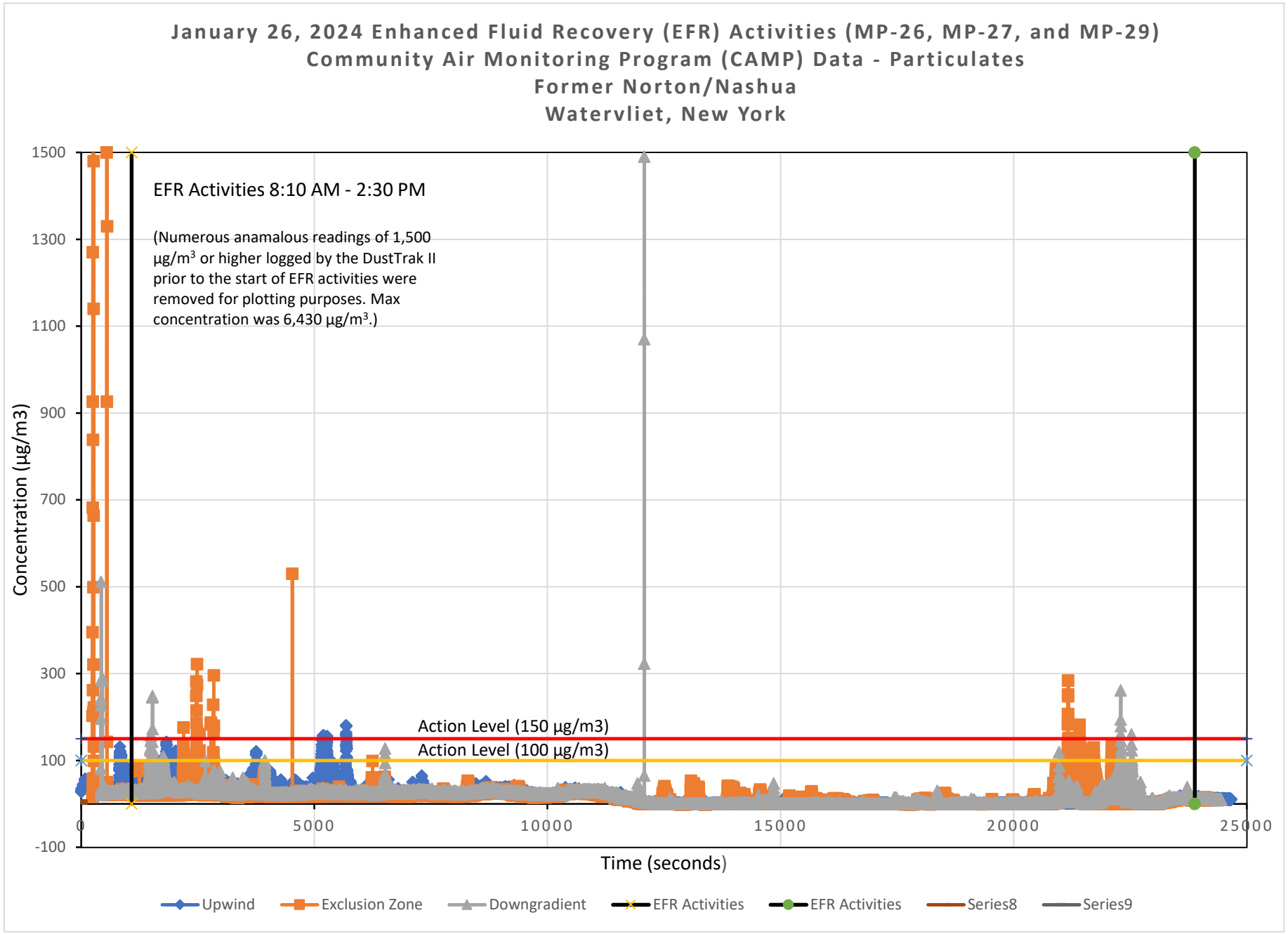
APPENDIX C

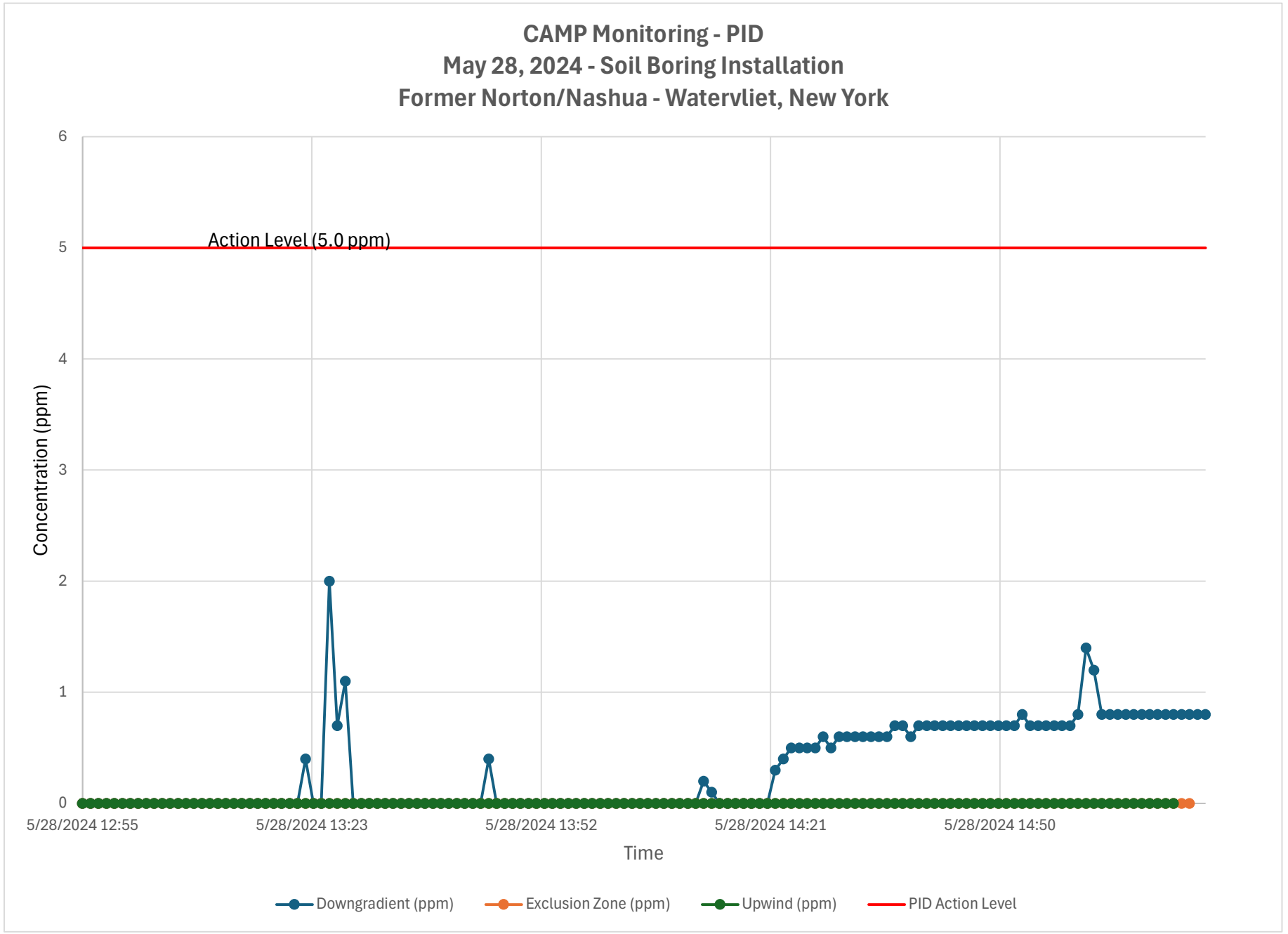
COMMUNITY AIR MONITORING PLAN (CAMP) PLOTS

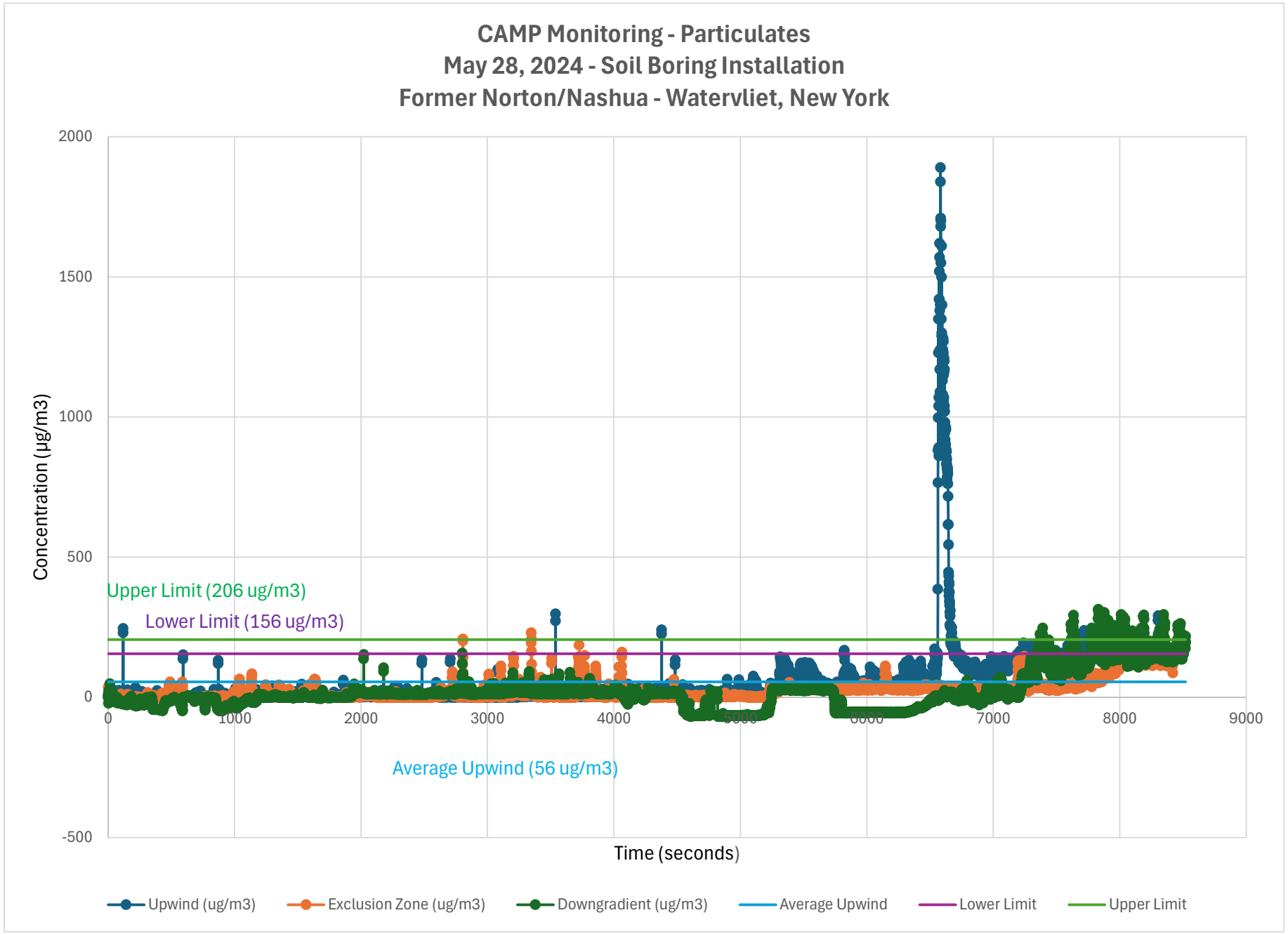

January 26, 2024 Enhanced Fluid Recovery (EFR) Activities (MP-26, MP-27, and MP-29)
Community Air Monitoring Program (CAMP) Data - Exclusion Zone PID
Former Norton/Nashua
Watervliet, New York
Action Level (5 ppmv)
EFR Activities 8:10 AM - 2:30 PM
Concentration (ppm)
7.5
6.5
5.5
4.5
3.5
2.5
1.5
0.5
-0.5
0
5000
10000
15000
20000
Time (seconds)
Exclusion Zone
EFR Activities
EFR Activities

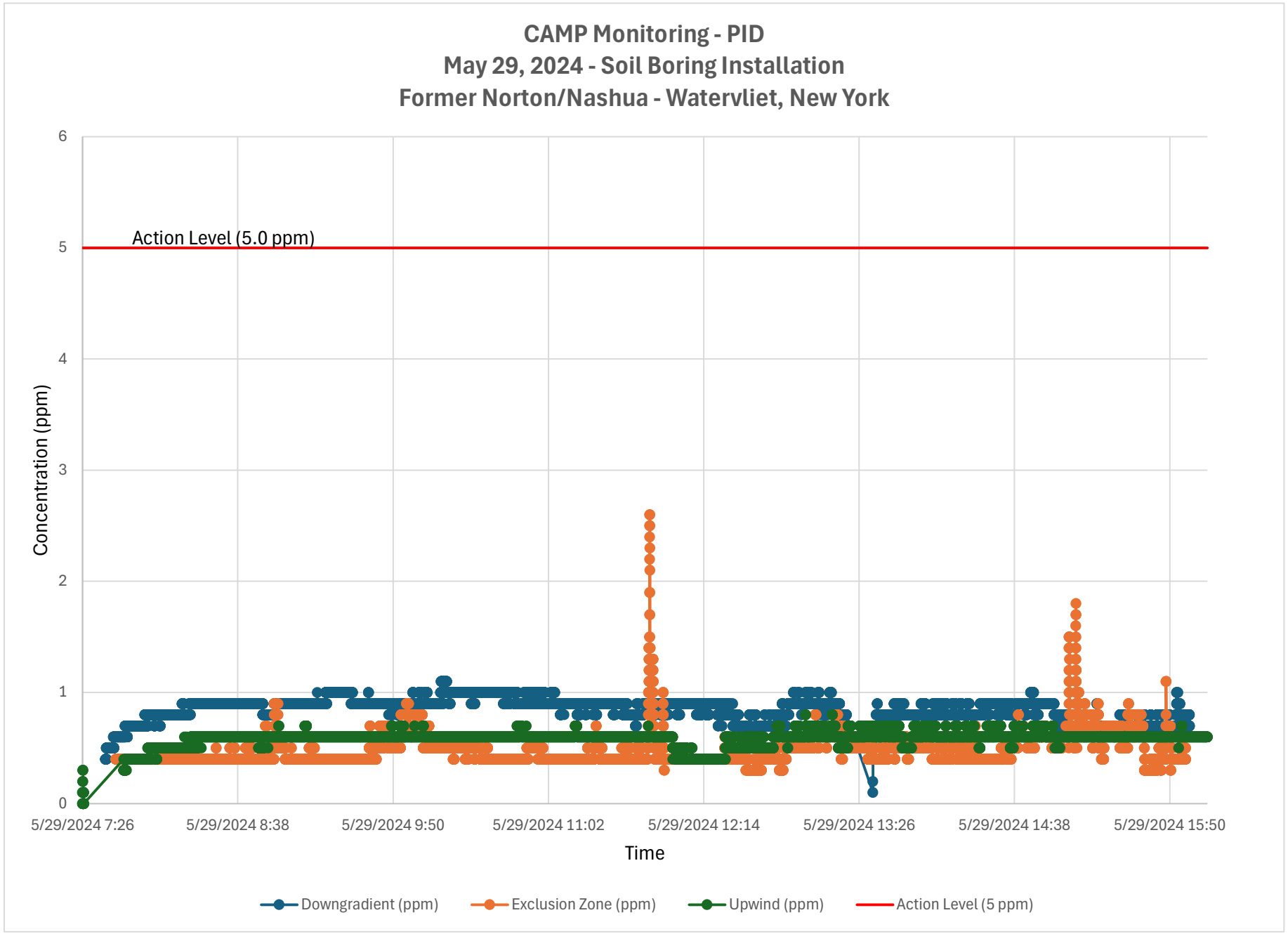

January 26, 2024 Enhanced Fluid Recovery (EFR) Activities (MP-26, MP-27, and MP-29)
Community Air Monitoring Program (CAMP) Data - Downgradient PID
Former Norton/Nashua
Watervliet, New York
Concentration (ppm)
7.5
6.5
5.5
4.5
3.5
2.5
1.5
0.5
-0.5
Action Level (5 ppmv)
EFR Activities 8:10 AM - 2:30 PM
0
5000
10000
15000
20000
25000
Time (seconds)
Downgradient
EFR Activities
EFR Activities

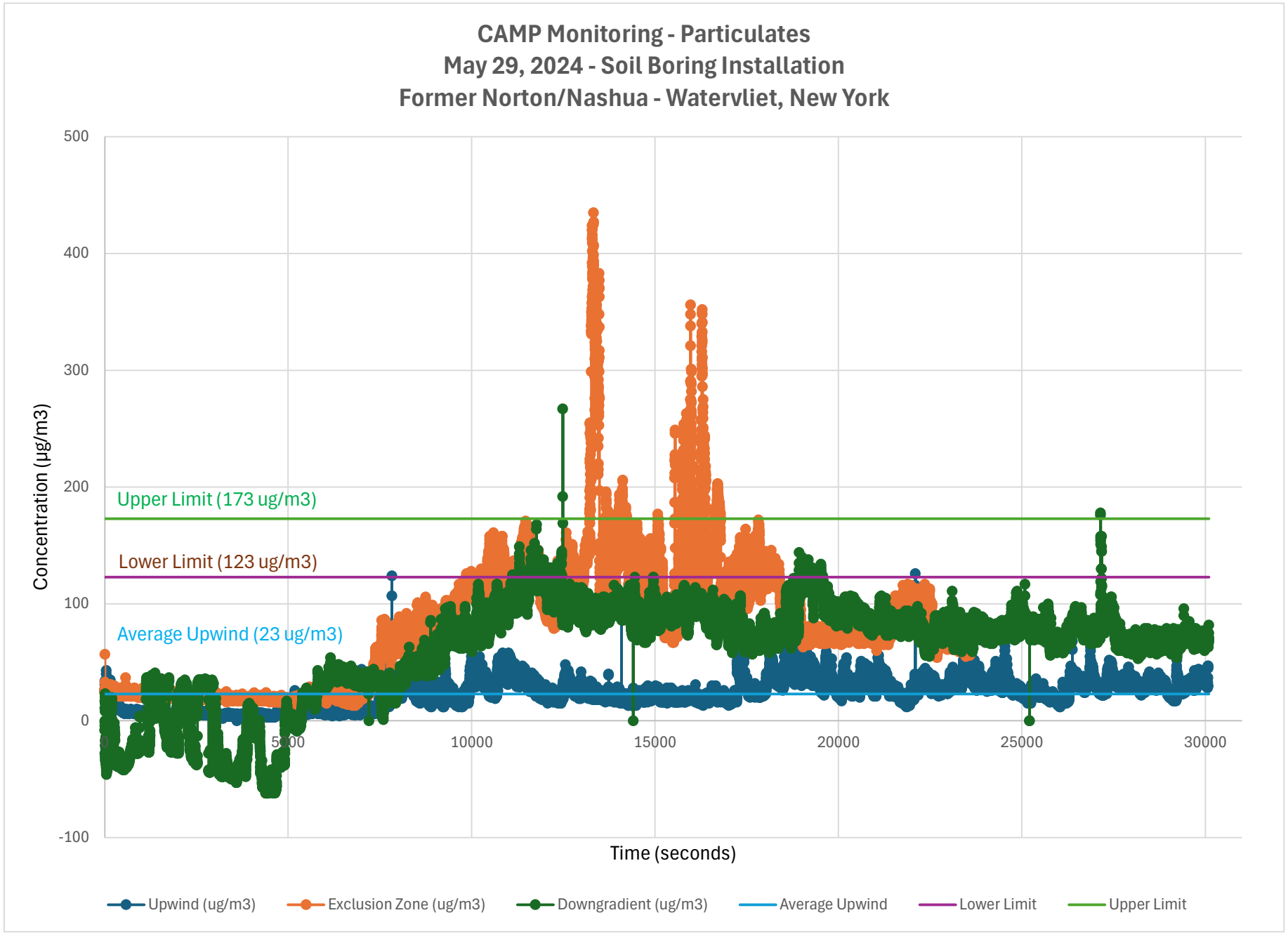

January 25, 2024 Enhanced Fluid Recovery (EFR) Activities (MP-25, MW-28, and MP-37)
Community Air Monitoring Program (CAMP) Data - Particulates
Former Norton/Nashua
Watervliet, New York
EFR Activities 11:10 AM - 4:05 PM
Action Level (150 µg/m3)
Action Level (100 µg/m3)
Concentration (µg/m3)
900
700
500
300
100
-100
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
Time (seconds)
Upwind
Exclusion Zone
Downgradient
EFR Activities
EFR Activities

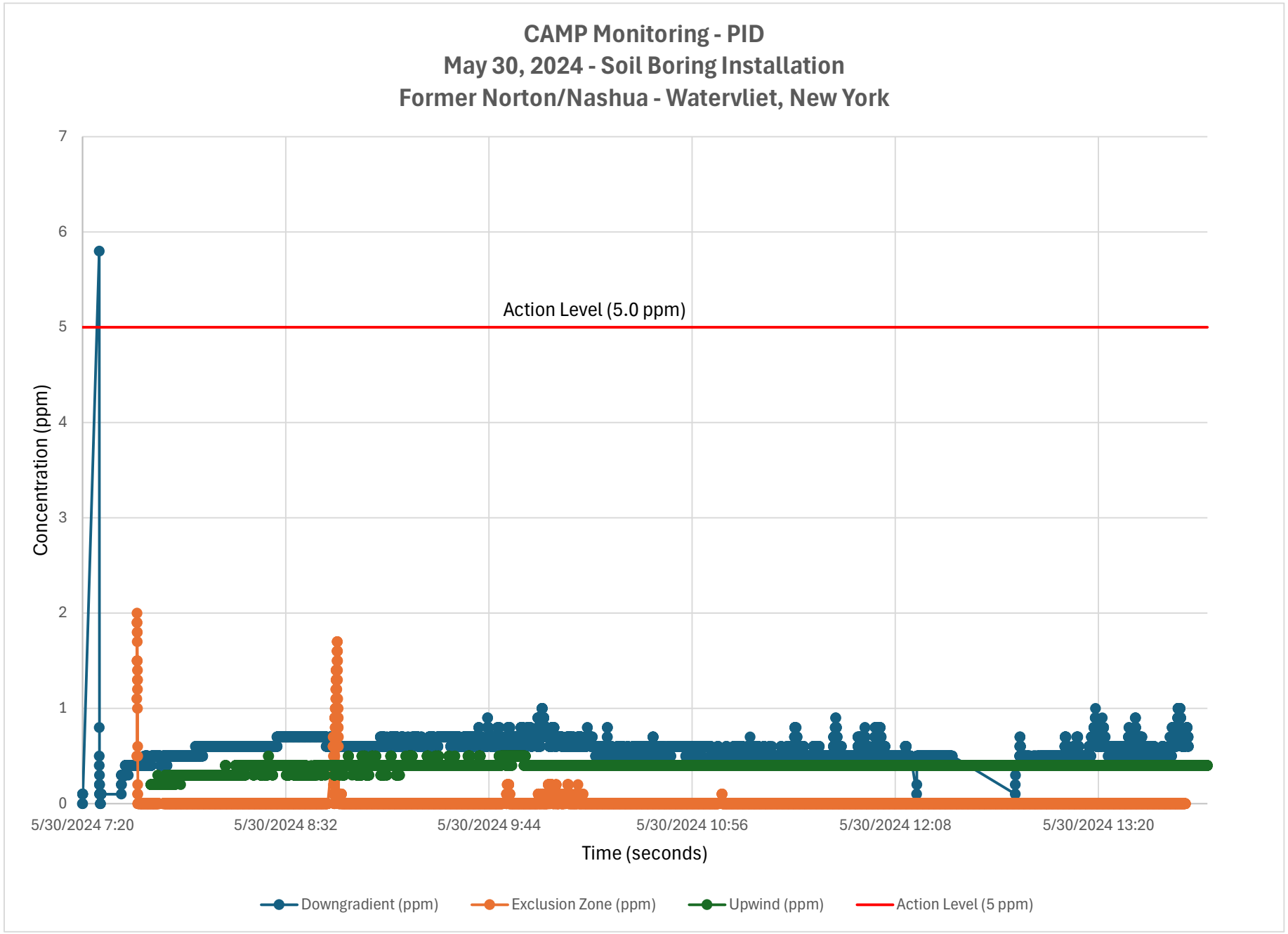

January 26, 2024 Enhanced Fluid Recovery (EFR) Activities (MP-26, MP-27, and MP-29)
Community Air Monitoring Program (CAMP) Data - Particulates
Former Norton/Nashua
Watervliet, New York
EFR Activities 8:10 AM - 2:30 PM
(Numerous anamalous readings of 1,500 µg/m3 or higher logged by the DustTrak II prior to the start of EFR activities were removed for plotting purposes. Max concentration was 6,430 µg/m3.)
Action Level (150 µg/m3)
Action Level (100 µg/m3)
Concentration (µg/m3)
Time (seconds)
1500
1300
1100
900
700
500
300
100
-100
0
5000
10000
15000
20000
25000
Upwind
Exclusion Zone
Downgradient
EFR Activities
EFR Activities
Series8
Series9

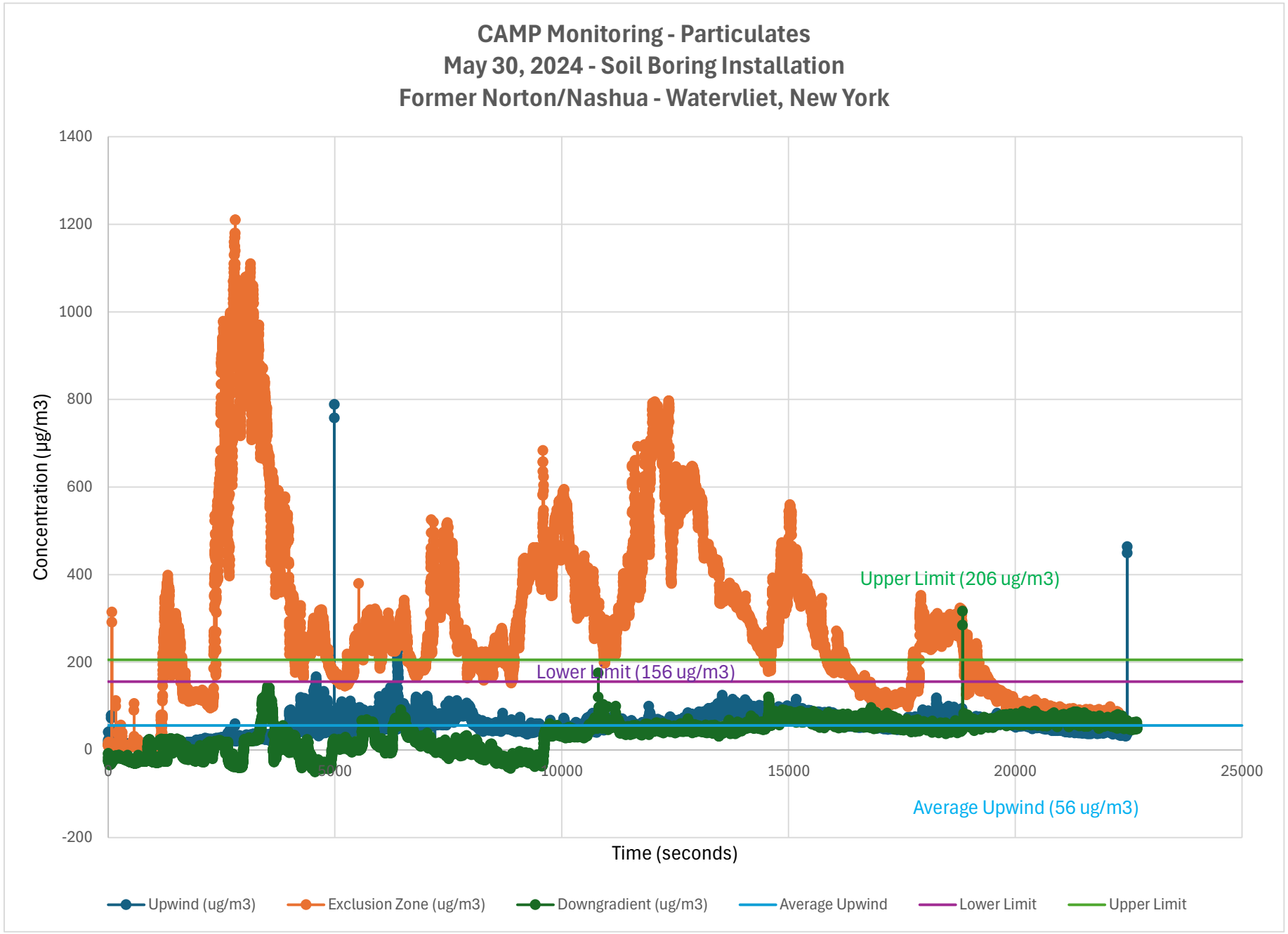

CAMP Monitoring - PID
May 28, 2024 - Soil Boring Installation
Former Norton/Nashua - Watervliet, New York
Action Level (5.0 ppm)
Concentration (ppm)
0
1
2
3
4
5
6
5/28/2024 12:55
5/28/2024 13:23
5/28/2024 13:52
5/28/2024 14:21
5/28/2024 14:50
Time
Downgradient (ppm)
Exclusion Zone (ppm)
Upwind (ppm)
PID Action Level

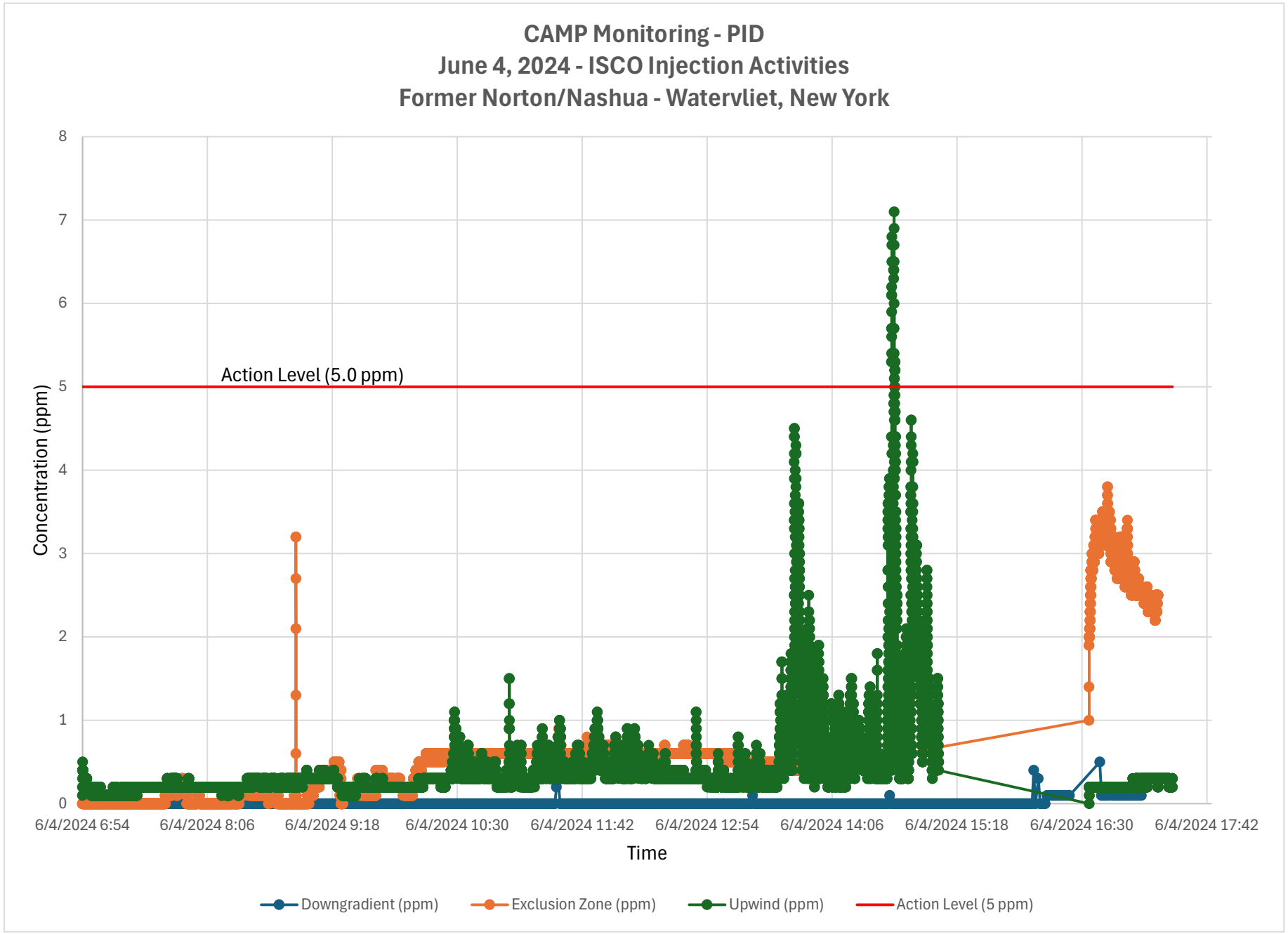

CAMP Monitoring - Particulates
May 28, 2024 - Soil Boring Installation
Former Norton/Nashua - Watervliet, New York
Concentration (µg/m3)
2000
1500
1000
500
0
-500
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
Time (seconds)
Upper Limit (206 ug/m3)
Lower Limit (156 ug/m3)
Average Upwind (56 ug/m3)
Upwind (ug/m3)
Exclusion Zone (ug/m3)
Downgradient (ug/m3)
Average Upwind
Lower Limit
Upper Limit

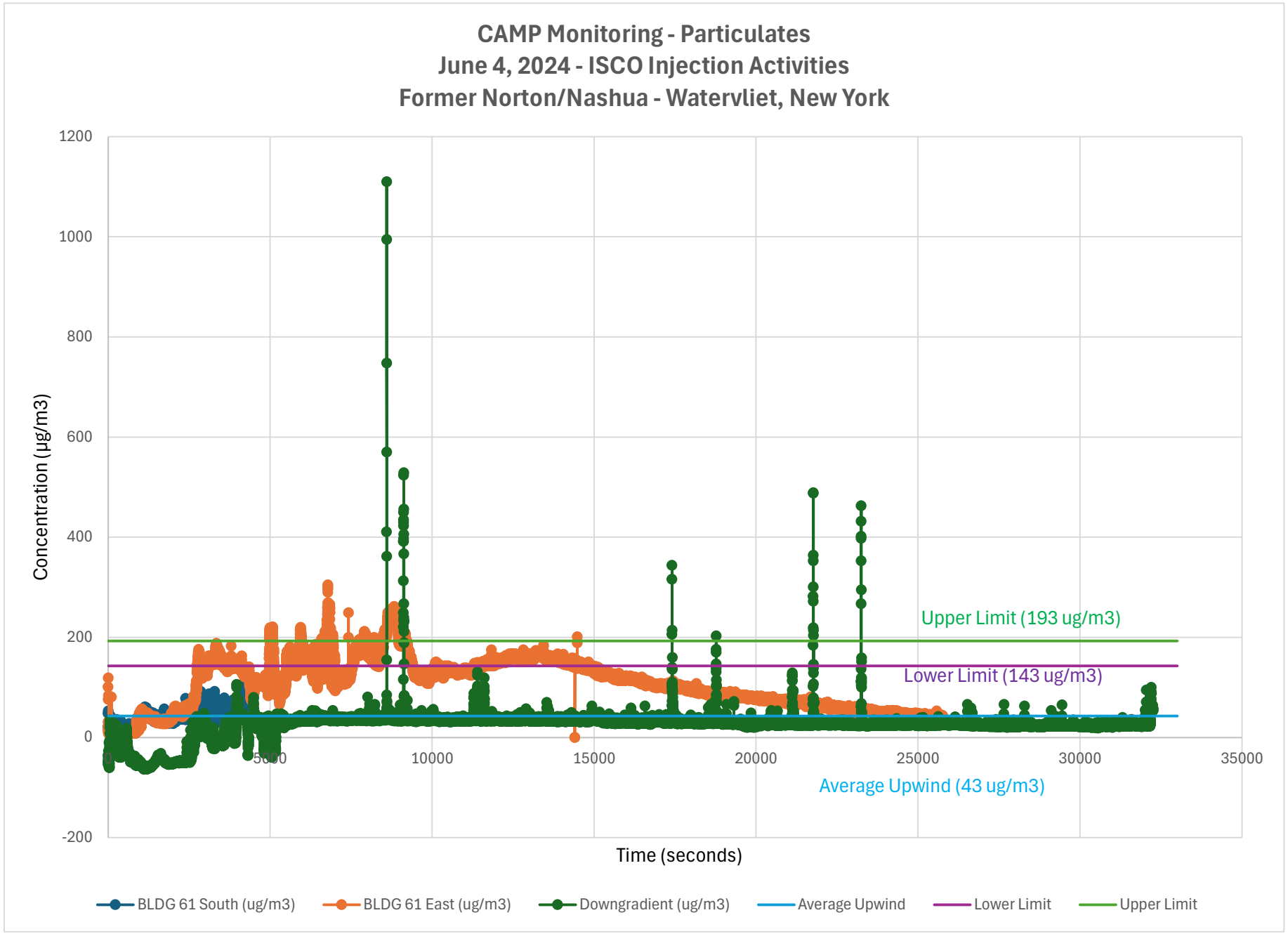

CAMP Monitoring - PID
May 29, 2024 - Soil Boring Installation
Former Norton/Nashua - Watervliet, New York
Action Level (5.0 ppm)
Concentration (ppm)
0
1
2
3
4
5
6
5/29/2024 7:26
5/29/2024 8:38
5/29/2024 9:50
5/29/2024 11:02
5/29/2024 12:14
5/29/2024 13:26
5/29/2024 14:38
5/29/2024 15:50
Time
Downgradient (ppm)
Exclusion Zone (ppm)
Upwind (ppm)
Action Level (5 ppm)

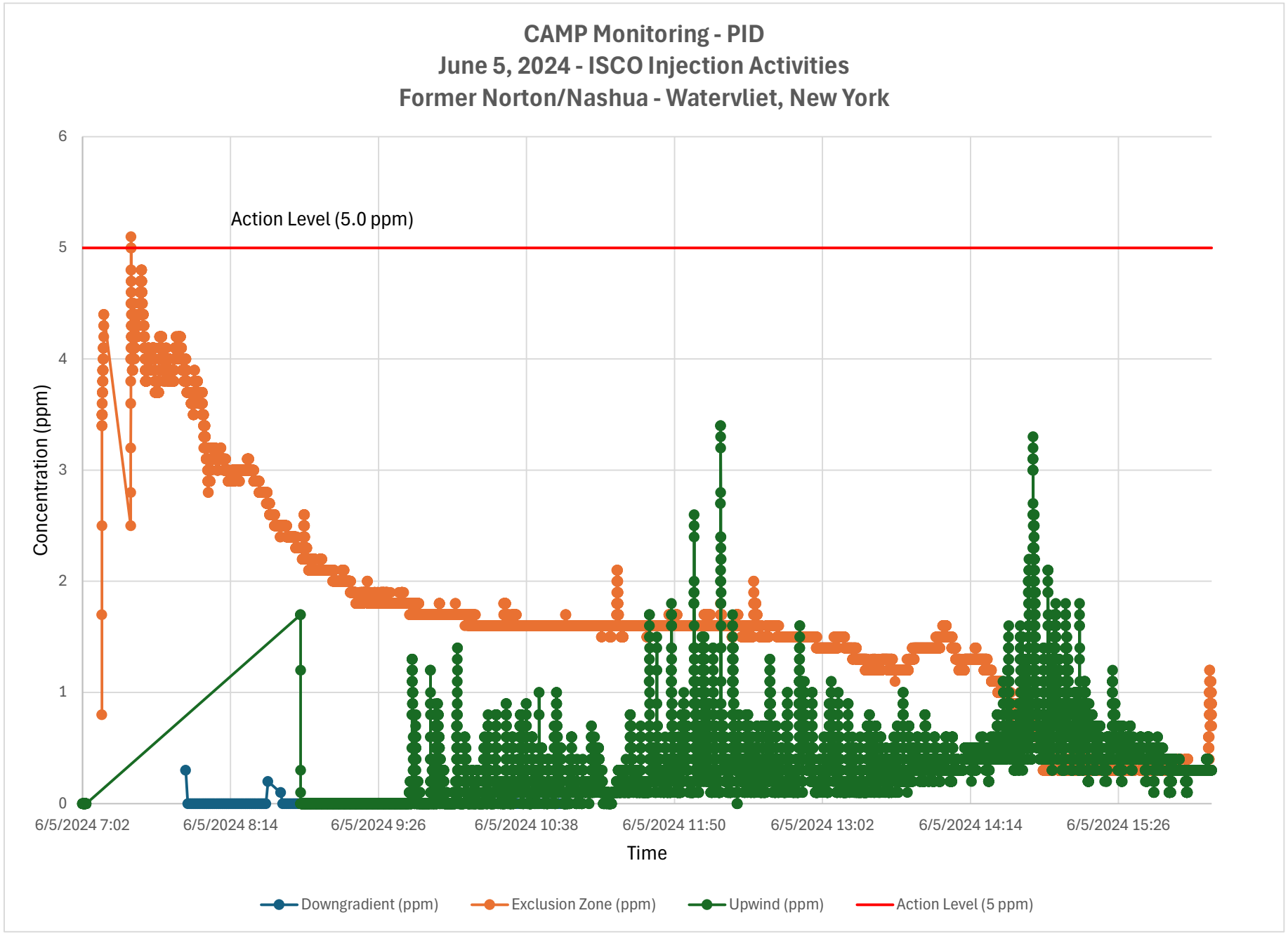

CAMP Monitoring - Particulates
May 29, 2024 - Soil Boring Installation
Former Norton/Nashua - Watervliet, New York
Concentration (µg/m3)
500
400
300
200
100
0
-100
Upper Limit (173 ug/m3)
Lower Limit (123 ug/m3)
Average Upwind (23 ug/m3)
0
5000
10000
15000
20000
25000
30000
Time (seconds)
Upwind (ug/m3)
Exclusion Zone (ug/m3)
Downgradient (ug/m3)
Average Upwind
Lower Limit
Upper Limit

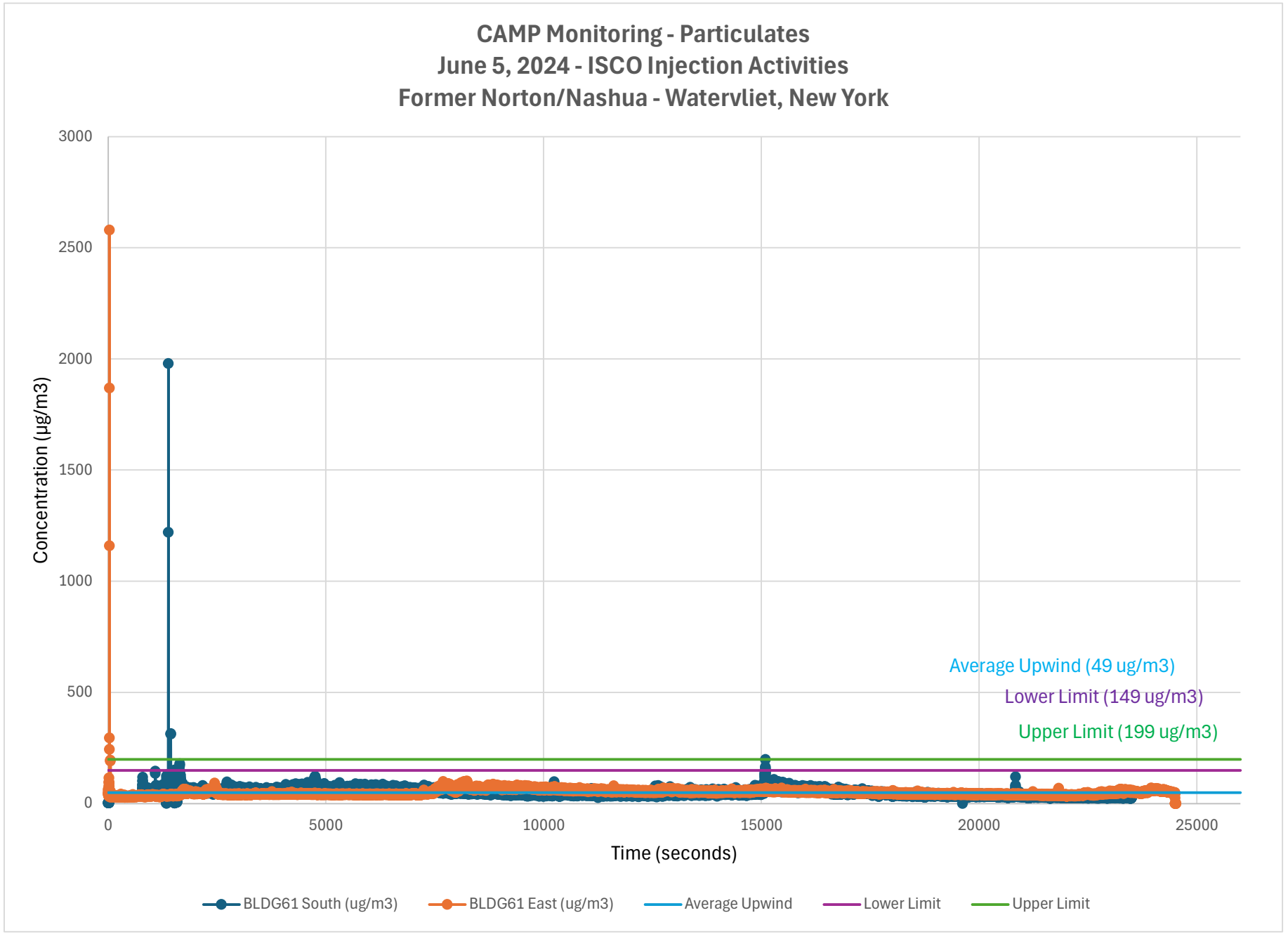

CAMP Monitoring - PID
May 30, 2024 - Soil Boring Installation
Former Norton/Nashua - Watervliet, New York
Concentration (ppm)
7
6
5
4
3
2
1
0
Action Level (5.0 ppm)
5/30/2024 7:20
5/30/2024 8:32
5/30/2024 9:44
5/30/2024 10:56
5/30/2024 12:08
5/30/2024 13:20
Time (seconds)
Downgradient (ppm)
Exclusion Zone (ppm)
Upwind (ppm)
Action Level (5 ppm)

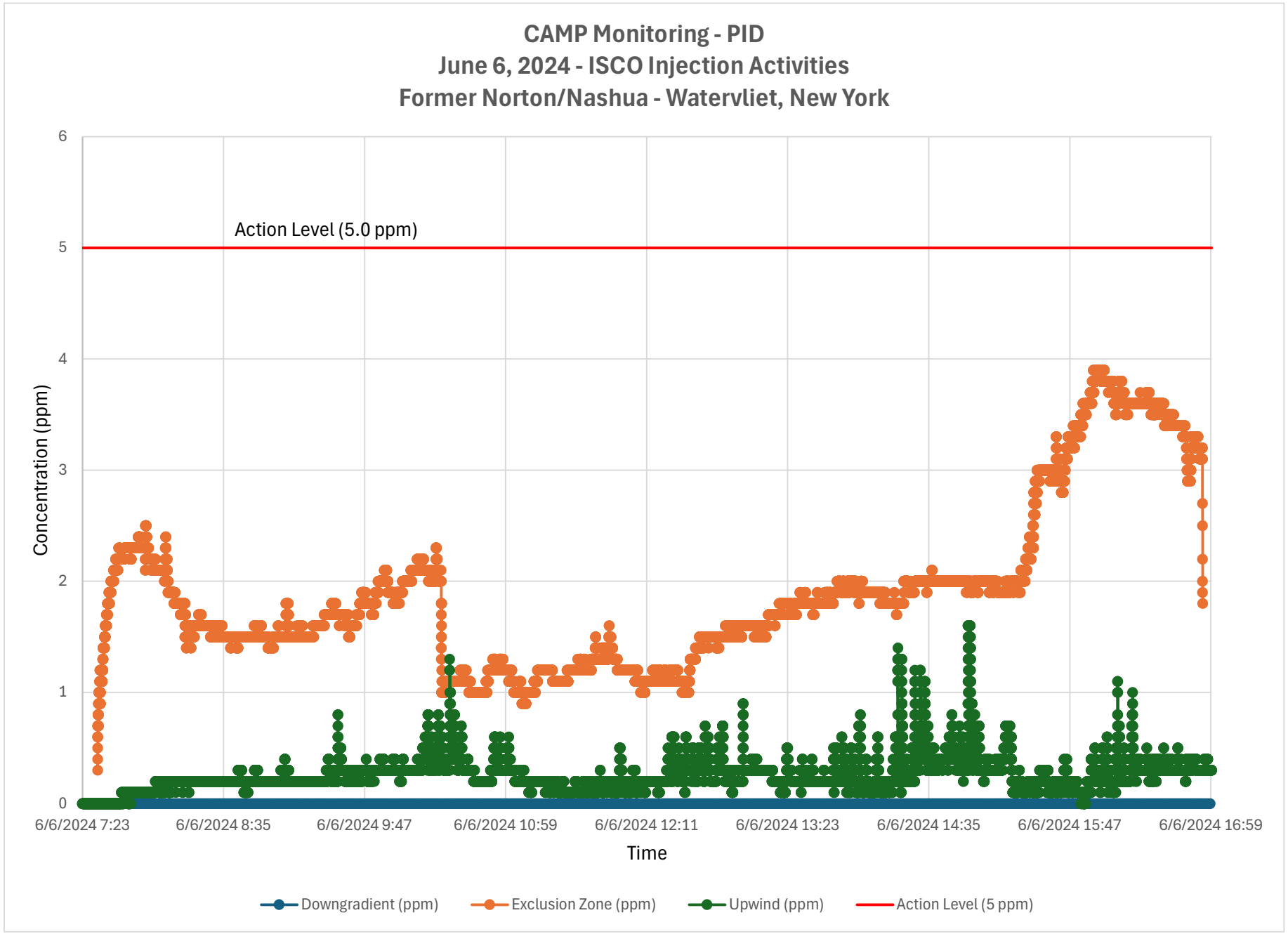

CAMP Monitoring - Particulates
May 30, 2024 - Soil Boring Installation
Former Norton/Nashua - Watervliet, New York
Concentration (µg/m3)
1400
1200
1000
800
600
400
200
0
-200
0
5000
10000
15000
20000
25000
Time (seconds)
Upper Limit (206 ug/m3)
Lower Limit (156 ug/m3)
Average Upwind (56 ug/m3)
Upwind (ug/m3)
Exclusion Zone (ug/m3)
Downgradient (ug/m3)
Average Upwind
Lower Limit
Upper Limit

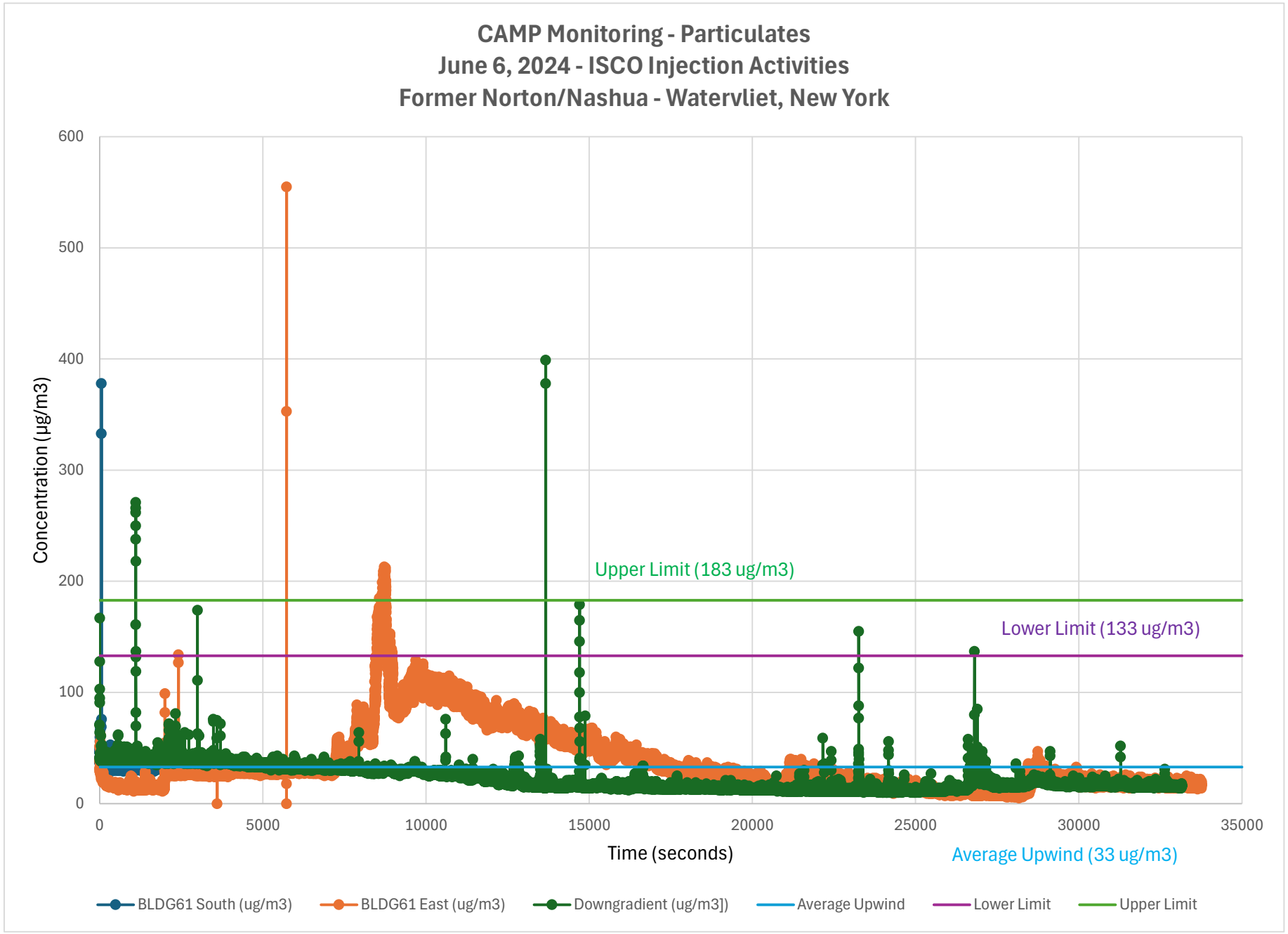

CAMP Monitoring - PID
June 4, 2024 - ISCO Injection Activities
Former Norton/Nashua - Watervliet, New York
Concentration (ppm)
8
7
6
5
4
3
2
1
0
Action Level (5.0 ppm)
6/4/2024 6:54
6/4/2024 8:06
6/4/2024 9:18
6/4/2024 10:30
6/4/2024 11:42
6/4/2024 12:54
6/4/2024 14:06
6/4/2024 15:18
6/4/2024 16:30
6/4/2024 17:42
Time
Downgradient (ppm)
Exclusion Zone (ppm)
Upwind (ppm)
Action Level (5 ppm)

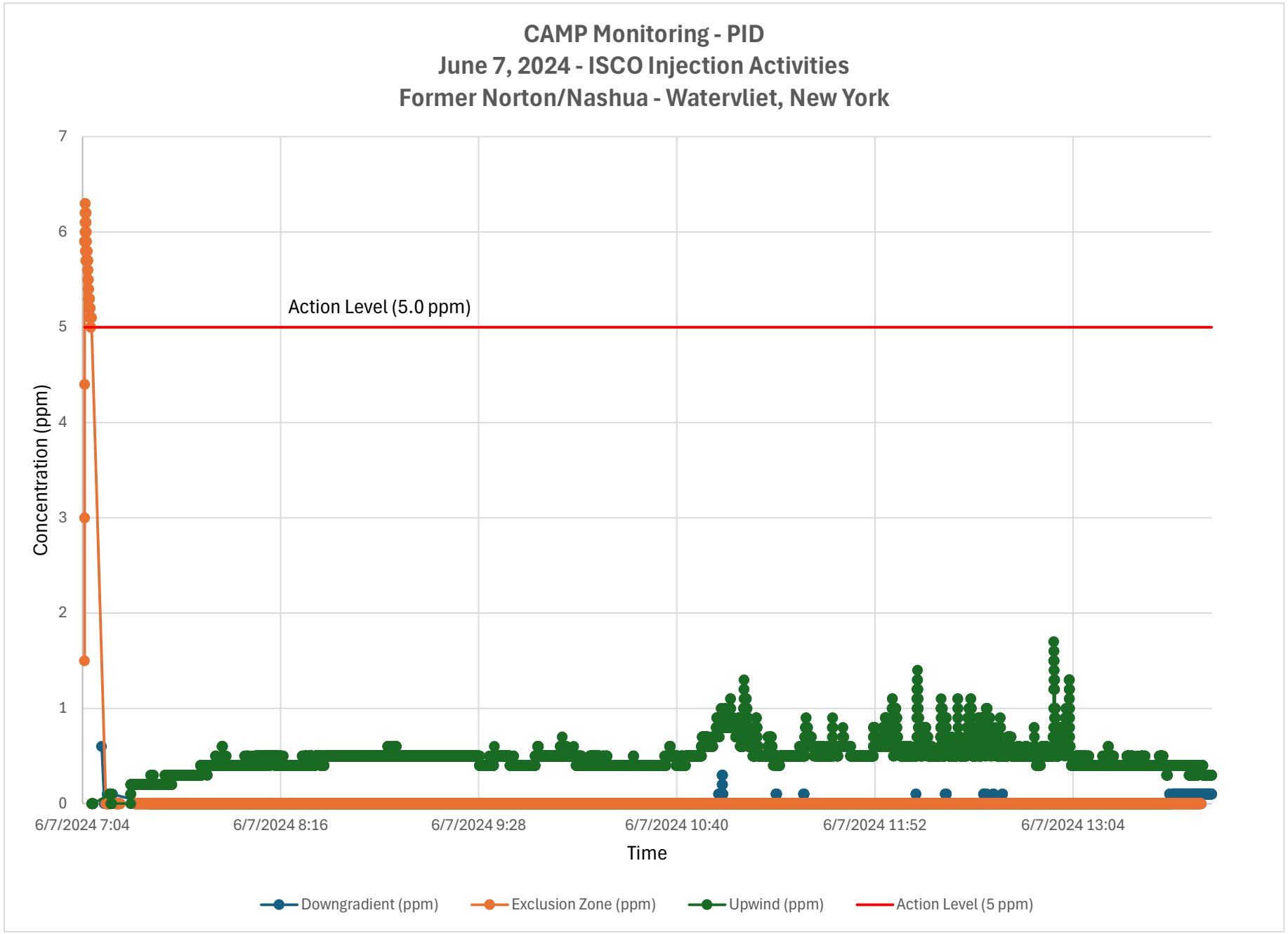

CAMP Monitoring - Particulates
June 4, 2024 - ISCO Injection Activities
Former Norton/Nashua - Watervliet, New York
Concentration (µg/m3)
1200
1000
800
600
400
200
0
-200
0
5000
10000
15000
20000
25000
30000
35000
Time (seconds)
Upper Limit (193 ug/m3)
Lower Limit (143 ug/m3)
Average Upwind (43 ug/m3)
BLDG 61 South (ug/m3)
BLDG 61 East (ug/m3)
Downgradient (ug/m3)
Average Upwind
Lower Limit
Upper Limit

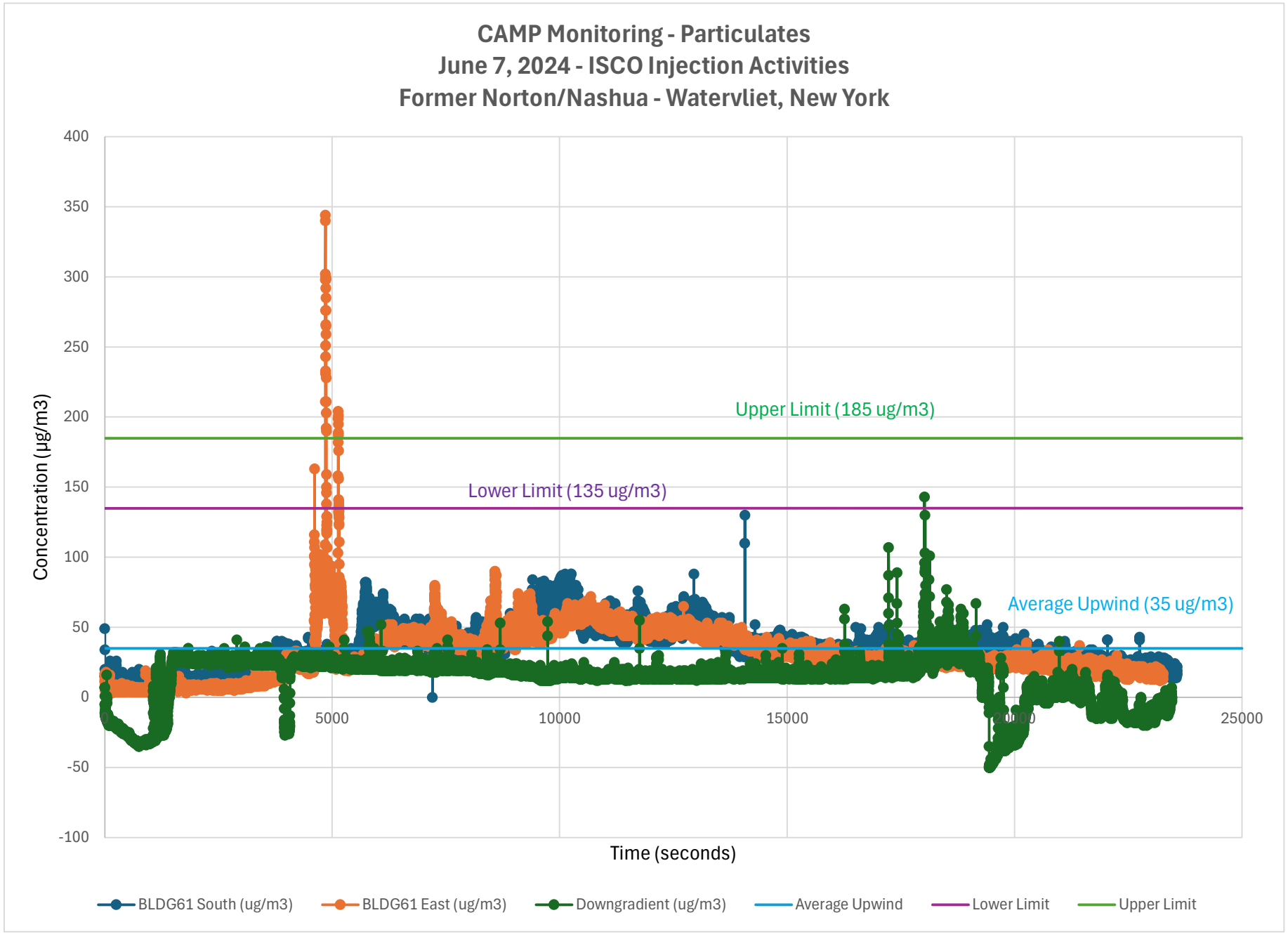

CAMP Monitoring - PID
June 5, 2024 - ISCO Injection Activities
Former Norton/Nashua - Watervliet, New York
Action Level (5.0 ppm)
Concentration (ppm)
0
1
2
3
4
5
6
6/5/2024 7:02
6/5/2024 8:14
6/5/2024 9:26
6/5/2024 10:38
6/5/2024 11:50
6/5/2024 13:02
6/5/2024 14:14
6/5/2024 15:26
Time
Downgradient (ppm)
Exclusion Zone (ppm)
Upwind (ppm)
Action Level (5 ppm)

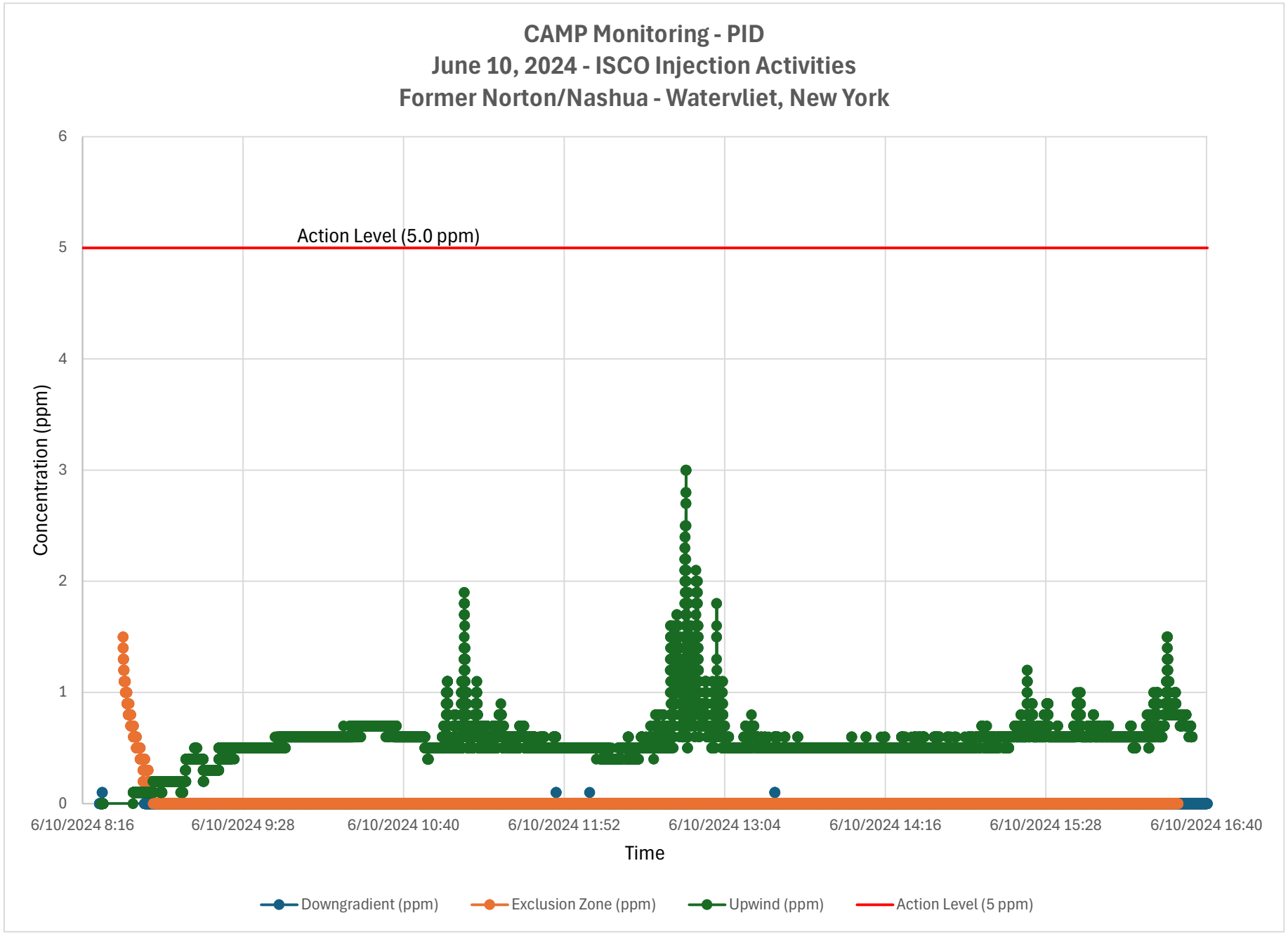

CAMP Monitoring - Particulates
June 5, 2024 - ISCO Injection Activities
Former Norton/Nashua - Watervliet, New York
Concentration (µg/m3)
3000
2500
2000
1500
1000
500
0
0
5000
10000
15000
20000
25000
Time (seconds)
Average Upwind (49 ug/m3)
Lower Limit (149 ug/m3)
Upper Limit (199 ug/m3)
BLDG61 South (ug/m3)
BLDG61 East (ug/m3)
Average Upwind
Lower Limit
Upper Limit

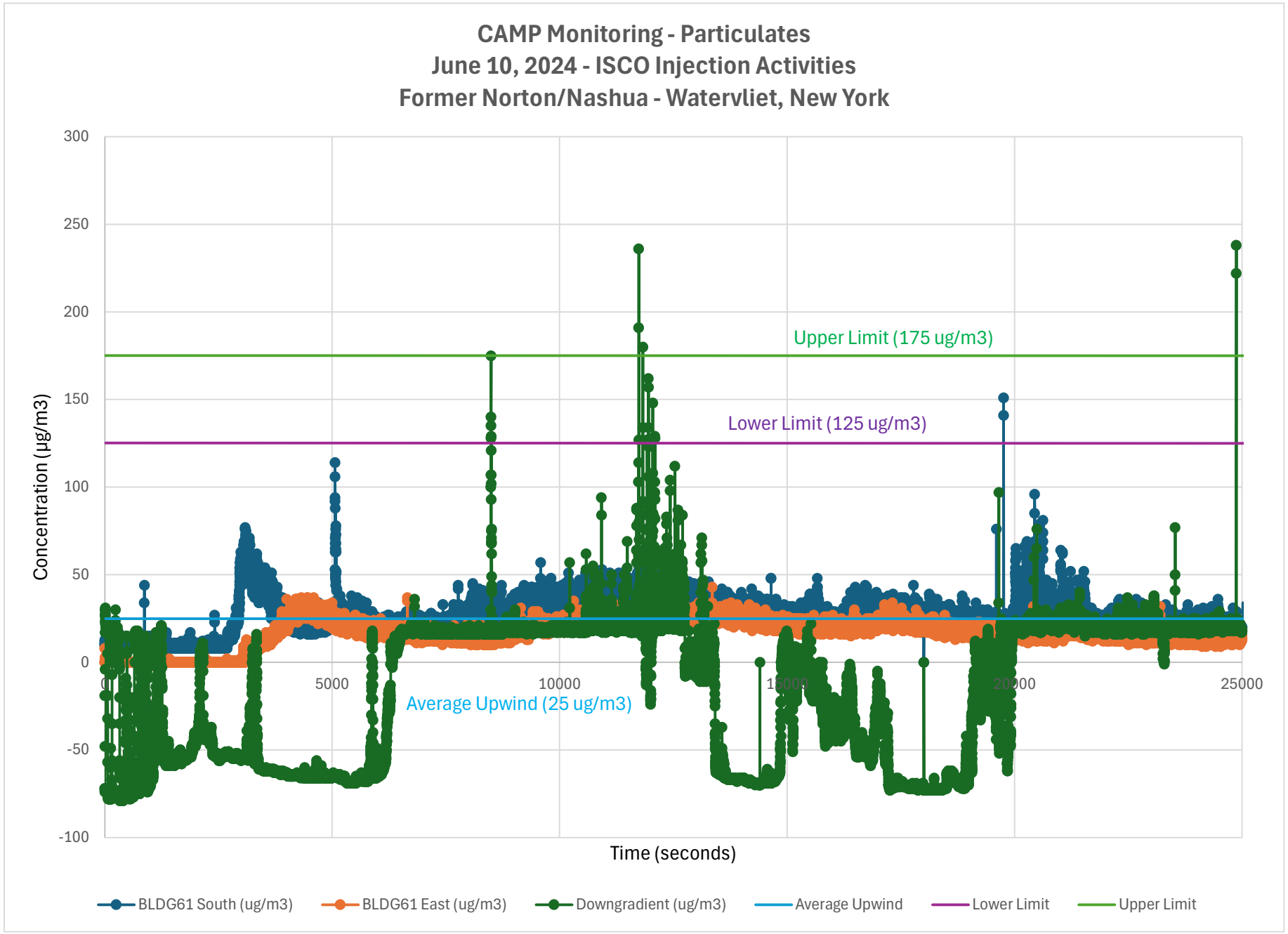

CAMP Monitoring - PID
June 6, 2024 - ISCO Injection Activities
Former Norton/Nashua - Watervliet, New York
Action Level (5.0 ppm)
Concentration (ppm)
0
1
2
3
4
5
6
6/6/2024 7:23
6/6/2024 8:35
6/6/2024 9:47
6/6/2024 10:59
6/6/2024 12:11
6/6/2024 13:23
6/6/2024 14:35
6/6/2024 15:47
6/6/2024 16:59
Time
Downgradient (ppm)
Exclusion Zone (ppm)
Upwind (ppm)
Action Level (5 ppm)

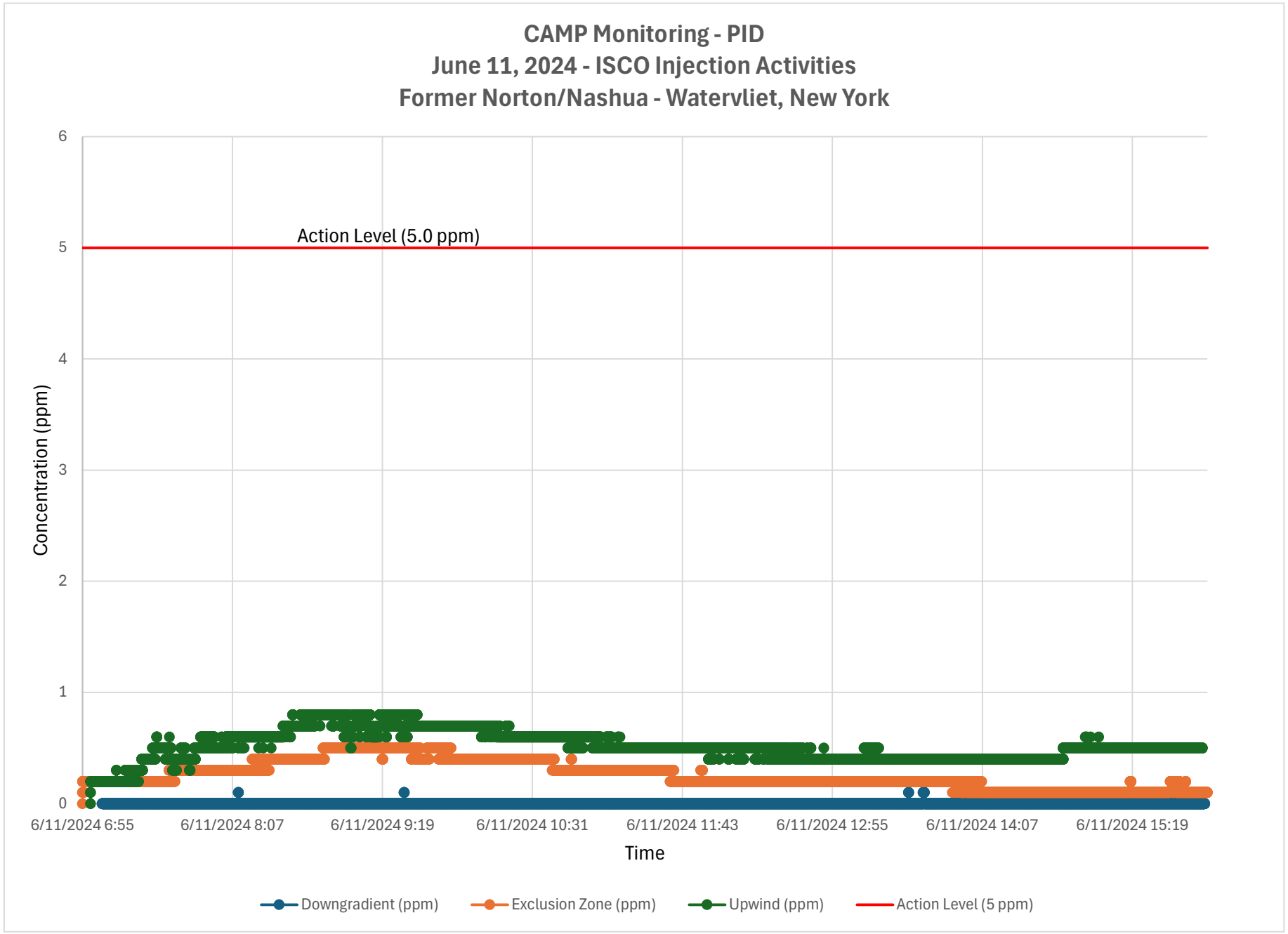

CAMP Monitoring - Particulates
June 6, 2024 - ISCO Injection Activities
Former Norton/Nashua - Watervliet, New York
Concentration (µg/m3)
600
500
400
300
200
100
0
0
5000
10000
15000
20000
25000
30000
35000
Time (seconds)
Upper Limit (183 ug/m3)
Lower Limit (133 ug/m3)
Average Upwind (33 ug/m3)
BLDG61 South (ug/m3)
BLDG61 East (ug/m3)
Downgradient (ug/m3])
Average Upwind
Lower Limit
Upper Limit

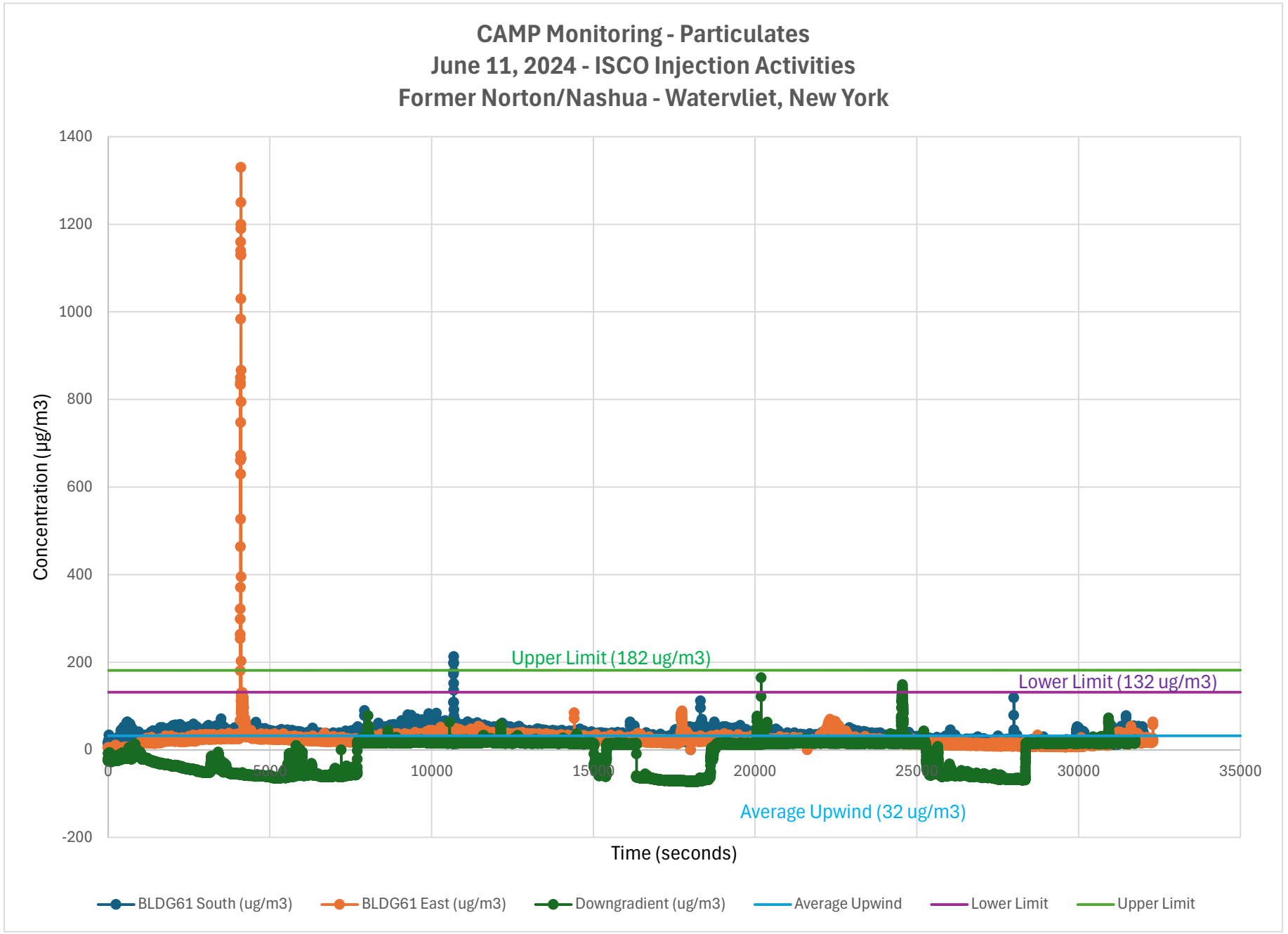

CAMP Monitoring - PID
June 7, 2024 - ISCO Injection Activities
Former Norton/Nashua - Watervliet, New York
Concentration (ppm)
7
6
5
4
3
2
1
0
Action Level (5.0 ppm)
6/7/2024 7:04
6/7/2024 8:16
6/7/2024 9:28
6/7/2024 10:40
6/7/2024 11:52
6/7/2024 13:04
Time
Downgradient (ppm)
Exclusion Zone (ppm)
Upwind (ppm)
Action Level (5 ppm)

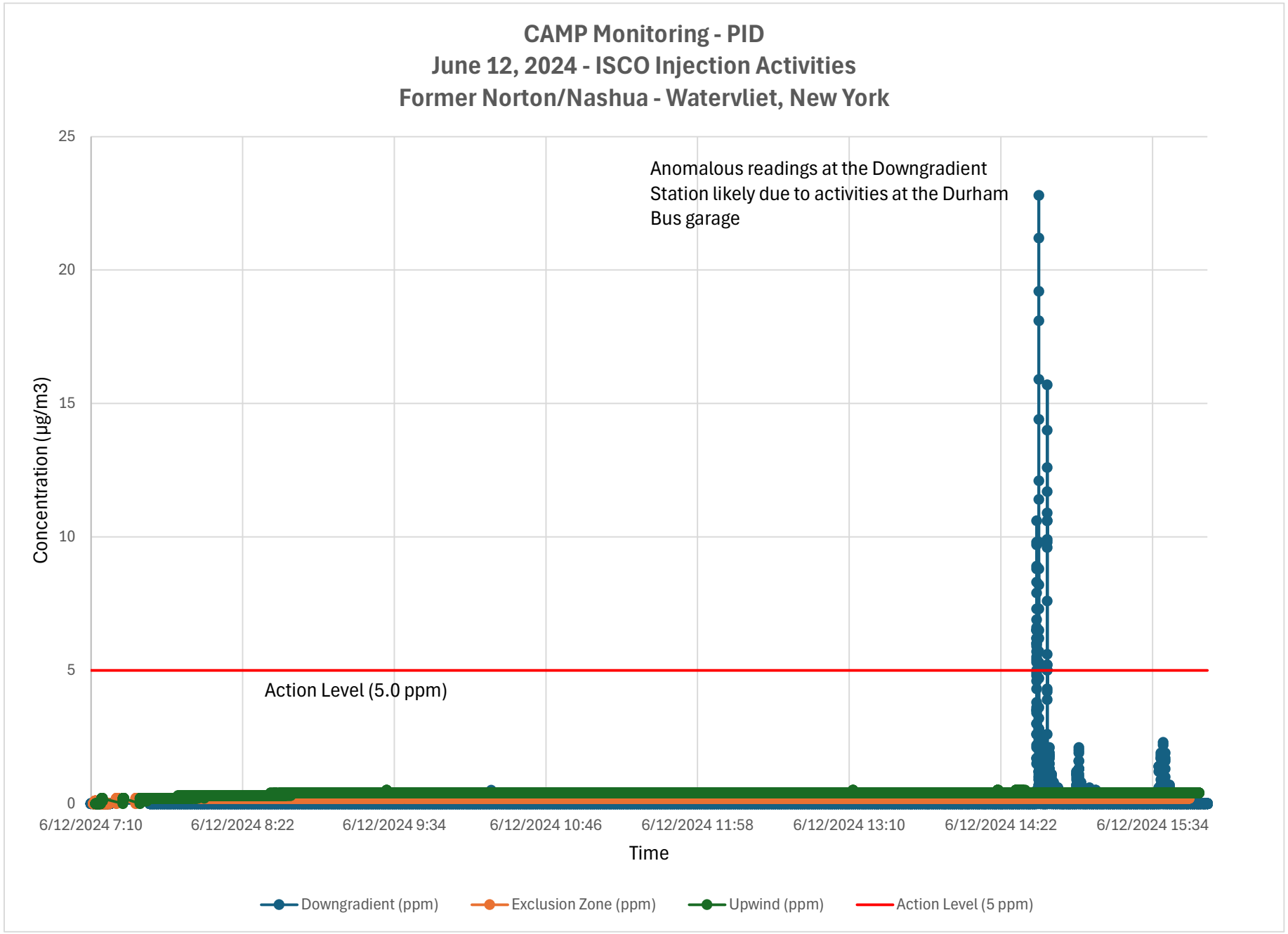

CAMP Monitoring - Particulates
June 7, 2024 - ISCO Injection Activities
Former Norton/Nashua - Watervliet, New York
Concentration (µg/m3)
400
350
300
250
200
150
100
50
0
-50
-100
0
5000
10000
15000
20000
25000
Time (seconds)
Upper Limit (185 ug/m3)
Lower Limit (135 ug/m3)
Average Upwind (35 ug/m3)
BLDG61 South (ug/m3)
BLDG61 East (ug/m3)
Downgradient (ug/m3)
Average Upwind
Lower Limit
Upper Limit

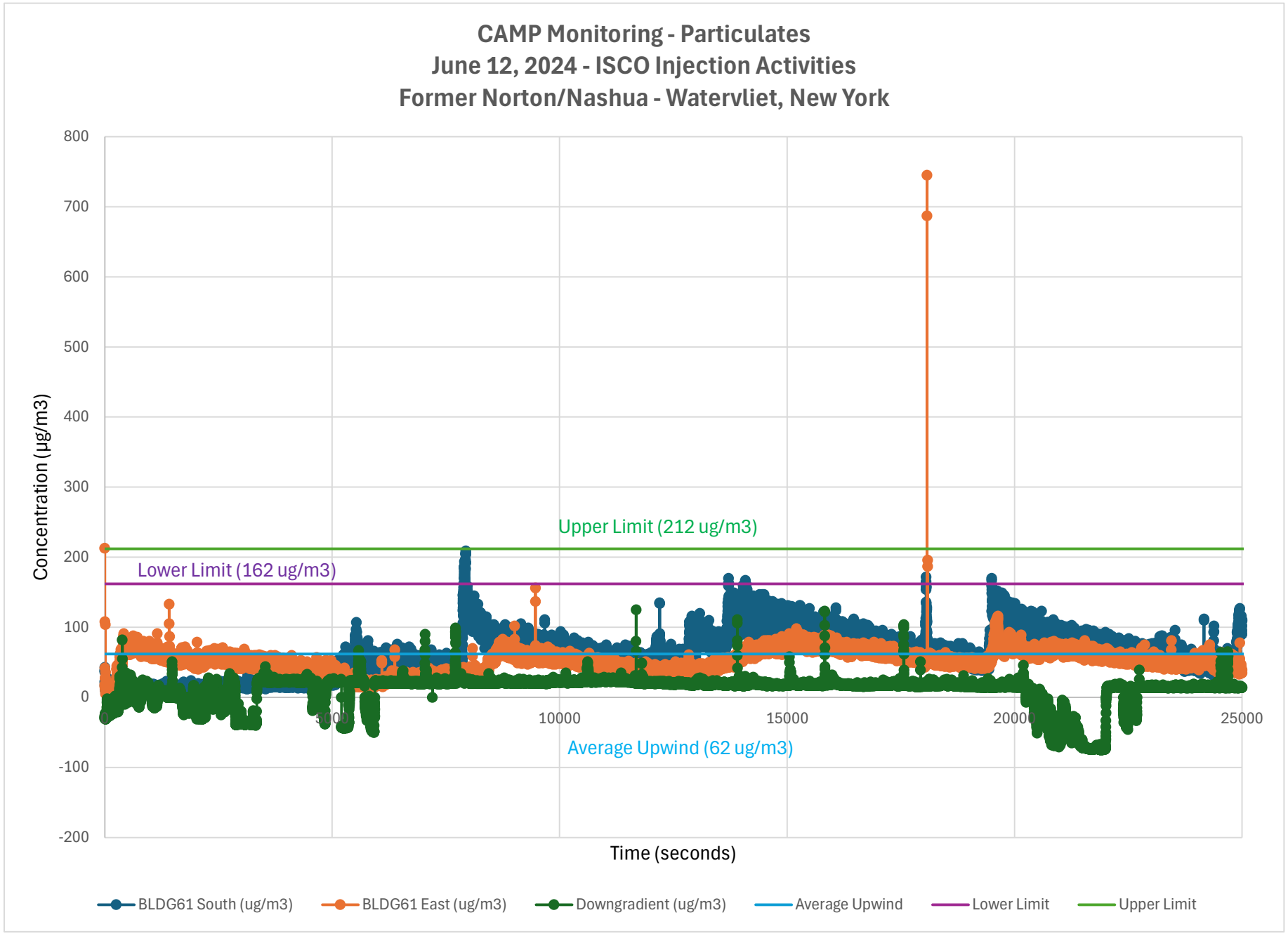

CAMP Monitoring - PID
June 10, 2024 - ISCO Injection Activities
Former Norton/Nashua - Watervliet, New York
Action Level (5.0 ppm)
Concentration (ppm)
0
1
2
3
4
5
6
6/10/2024 8:16
6/10/2024 9:28
6/10/2024 10:40
6/10/2024 11:52
6/10/2024 13:04
6/10/2024 14:16
6/10/2024 15:28
6/10/2024 16:40
Time
Downgradient (ppm)
Exclusion Zone (ppm)
Upwind (ppm)
Action Level (5 ppm)

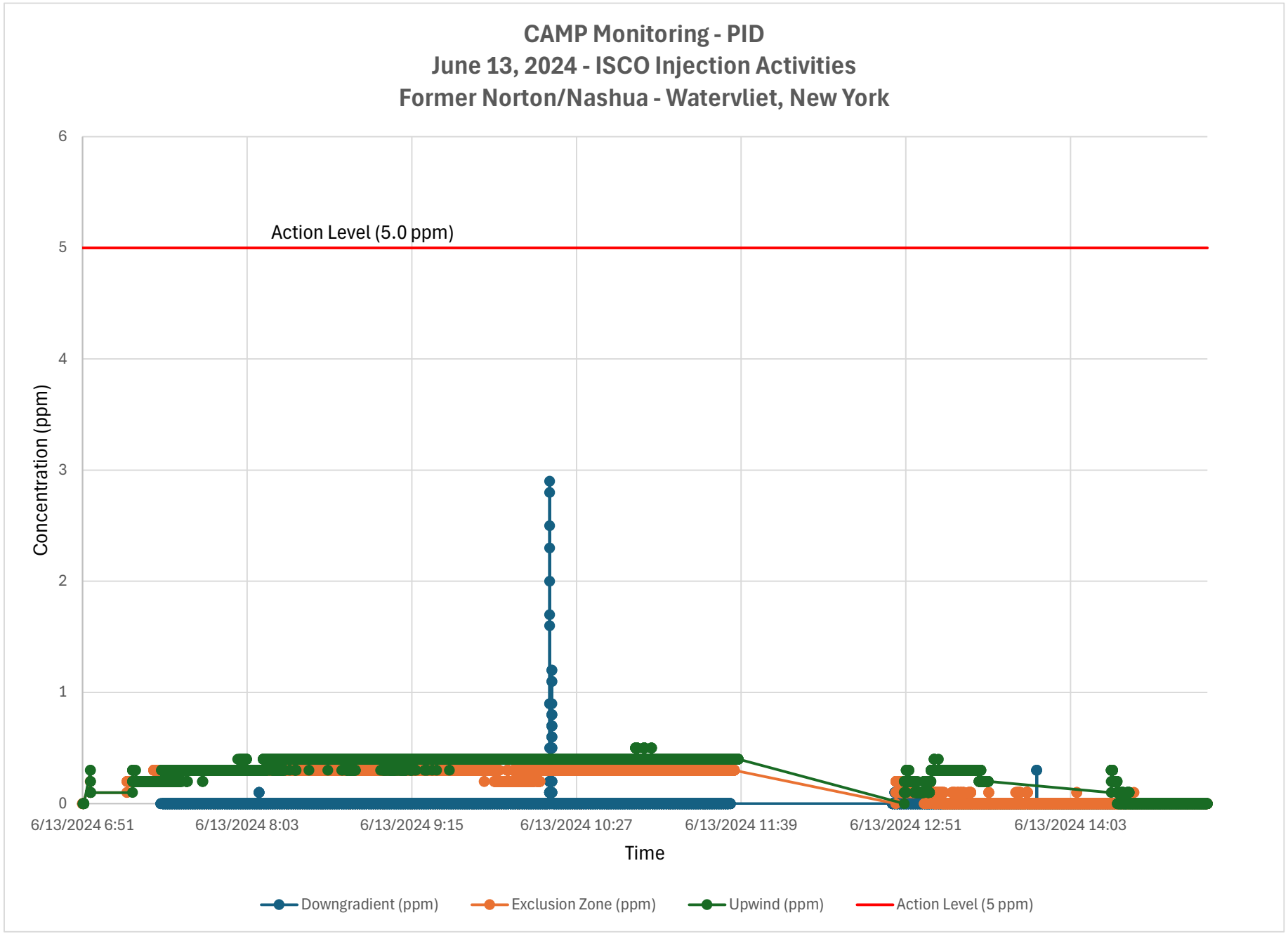

CAMP Monitoring - Particulates
June 10, 2024 - ISCO Injection Activities
Former Norton/Nashua - Watervliet, New York
Concentration (µg/m3)
300
250
200
150
100
50
0
-50
-100
5000
10000
15000
20000
25000
Time (seconds)
Upper Limit (175 ug/m3)
Lower Limit (125 ug/m3)
Average Upwind (25 ug/m3)
BLDG61 South (ug/m3)
BLDG61 East (ug/m3)
Downgradient (ug/m3)
Average Upwind
Lower Limit
Upper Limit

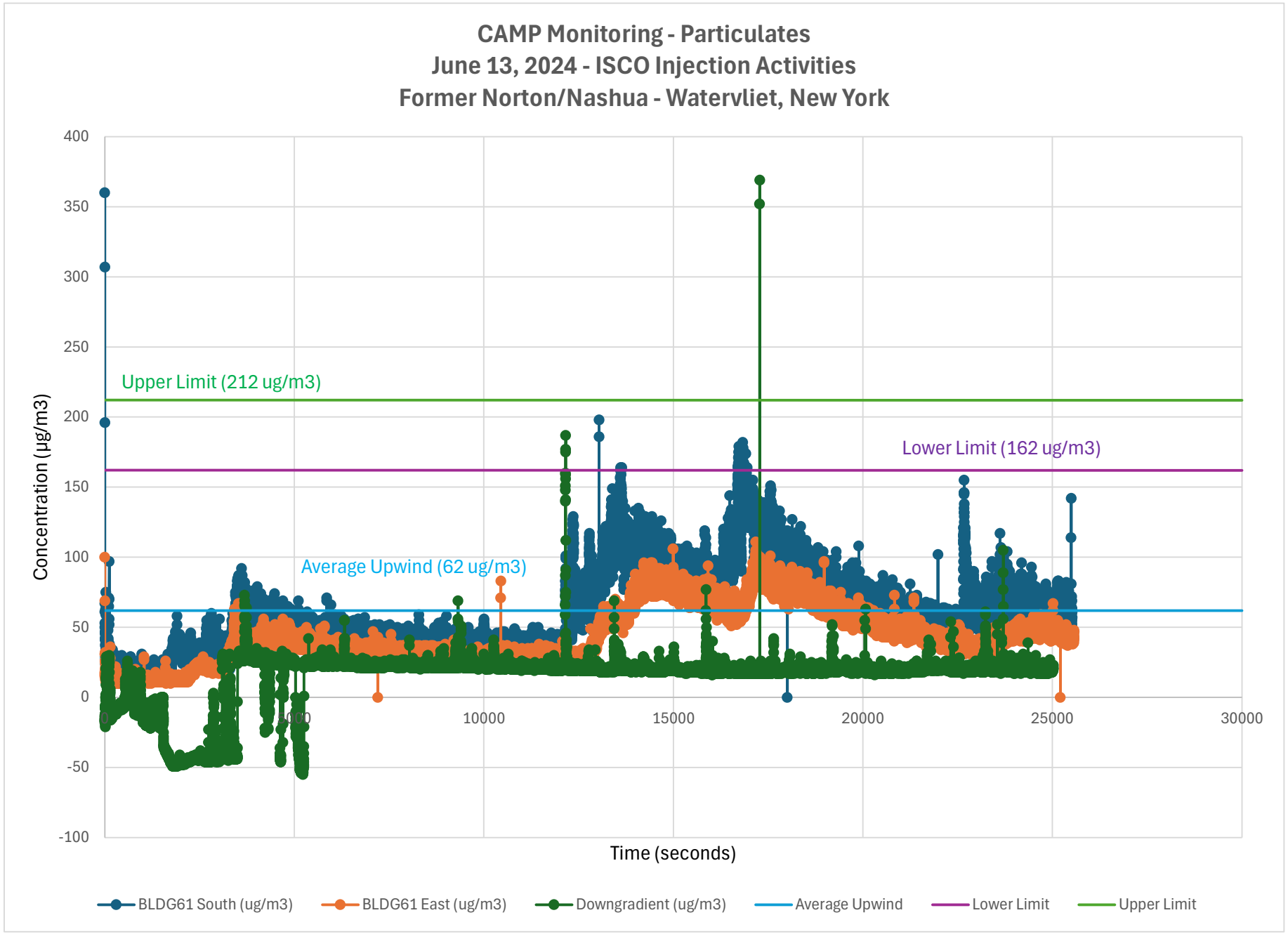

CAMP Monitoring - PID
June 11, 2024 - ISCO Injection Activities
Former Norton/Nashua - Watervliet, New York
Action Level (5.0 ppm)
Concentration (ppm)
0
1
2
3
4
5
6
6/11/2024 6:55
6/11/2024 8:07
6/11/2024 9:19
6/11/2024 10:31
6/11/2024 11:43
6/11/2024 12:55
6/11/2024 14:07
6/11/2024 15:19
Time
Downgradient (ppm)
Exclusion Zone (ppm)
Upwind (ppm)
Action Level (5 ppm)

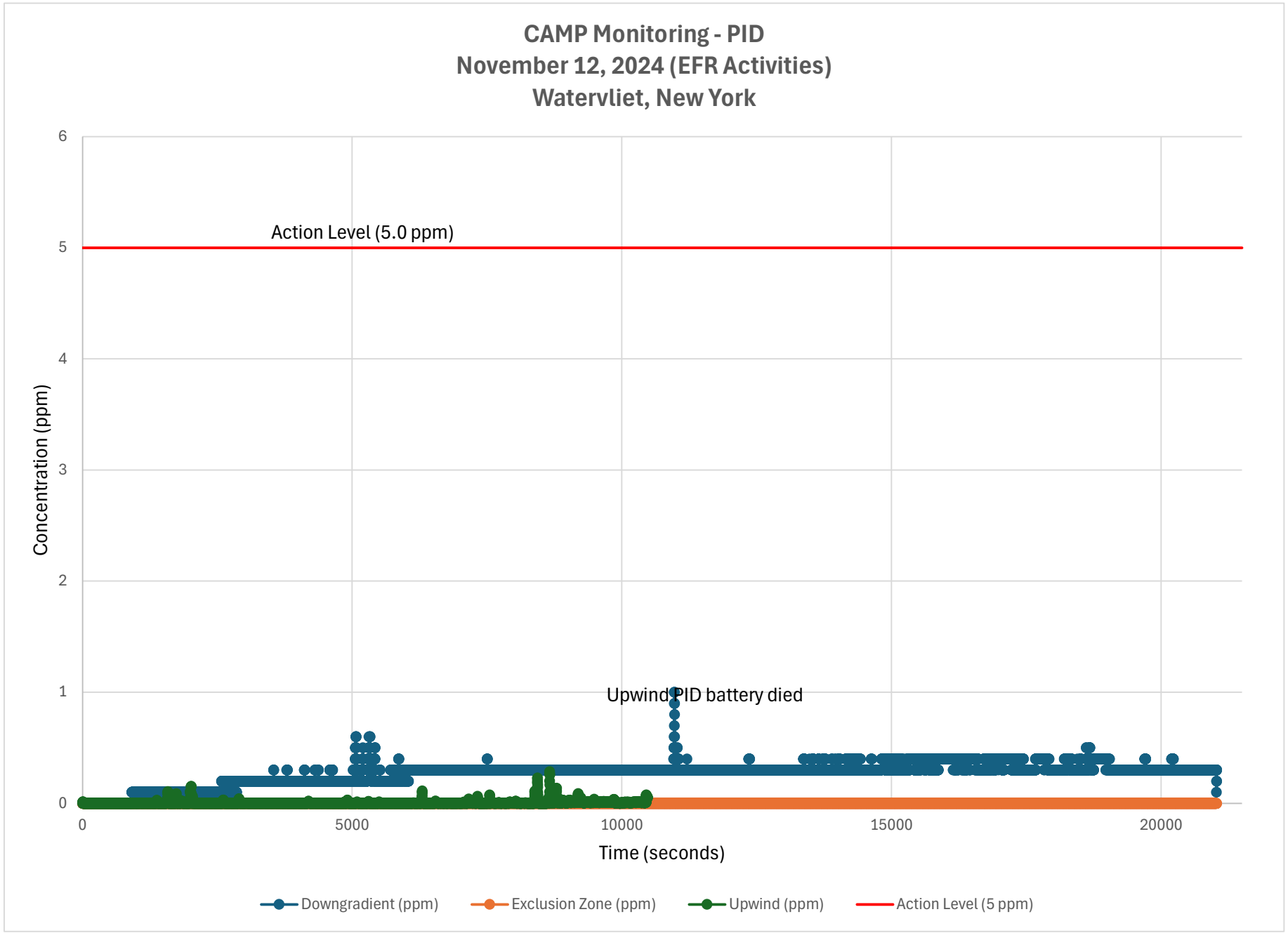

CAMP Monitoring - Particulates
June 11, 2024 - ISCO Injection Activities
Former Norton/Nashua - Watervliet, New York
Concentration (µg/m3)
1400
1200
1000
800
600
400
200
0
-200
0
5000
10000
15000
20000
25000
30000
35000
Time (seconds)
Upper Limit (182 ug/m3)
Lower Limit (132 ug/m3)
Average Upwind (32 ug/m3)
BLDG61 South (ug/m3)
BLDG61 East (ug/m3)
Downgradient (ug/m3)
Average Upwind
Lower Limit
Upper Limit

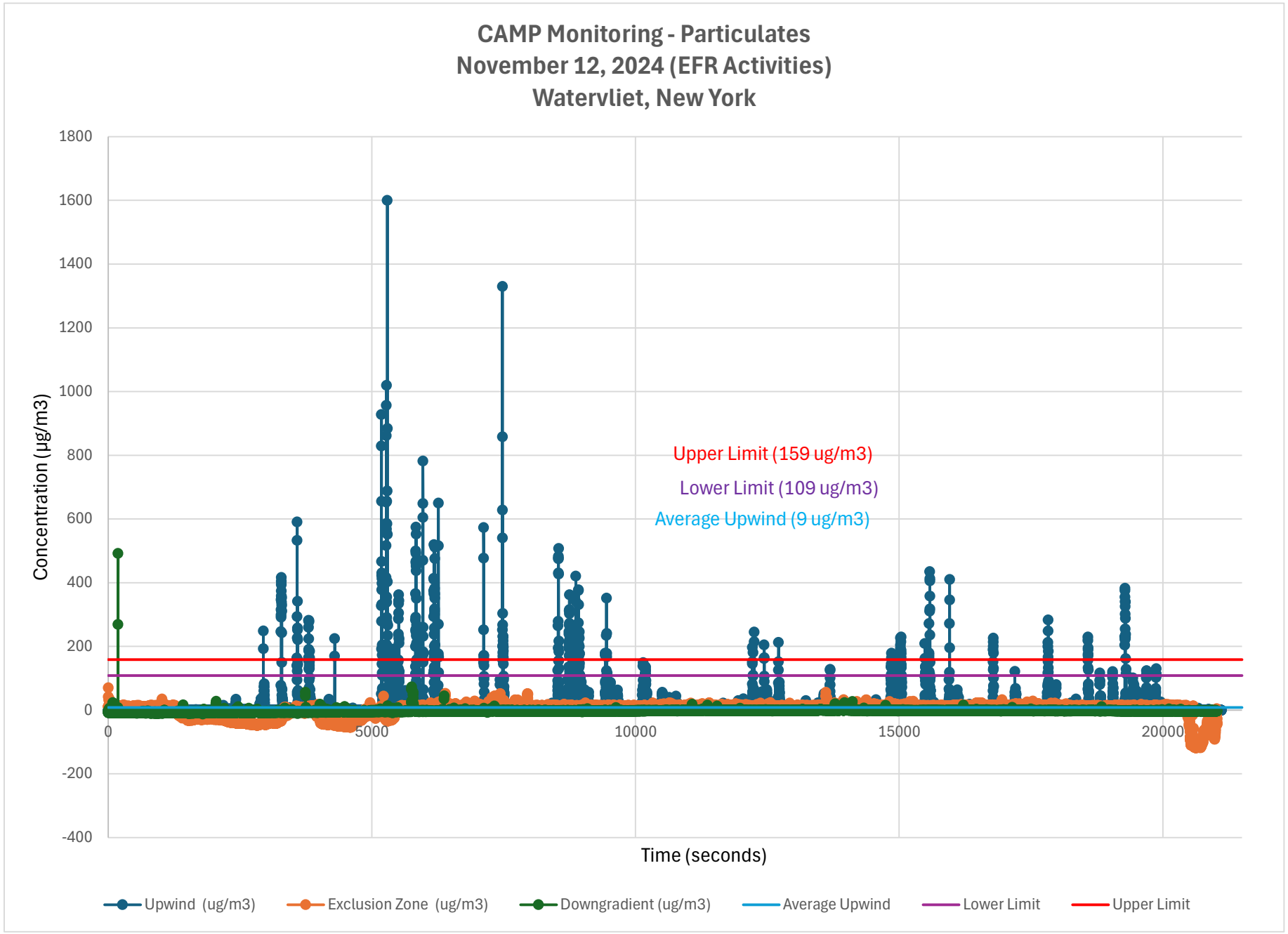

CAMP Monitoring - PID
June 12, 2024 - ISCO Injection Activities
Former Norton/Nashua - Watervliet, New York
Anomalous readings at the Downgradient Station likely due to activities at the Durham Bus garage
Action Level (5.0 ppm)
Concentration (µg/m3)
25
20
15
10
5
0
6/12/2024 7:10
6/12/2024 8:22
6/12/2024 9:34
6/12/2024 10:46
6/12/2024 11:58
6/12/2024 13:10
6/12/2024 14:22
6/12/2024 15:34
Time
Downgradient (ppm)
Exclusion Zone (ppm)
Upwind (ppm)
Action Level (5 ppm)

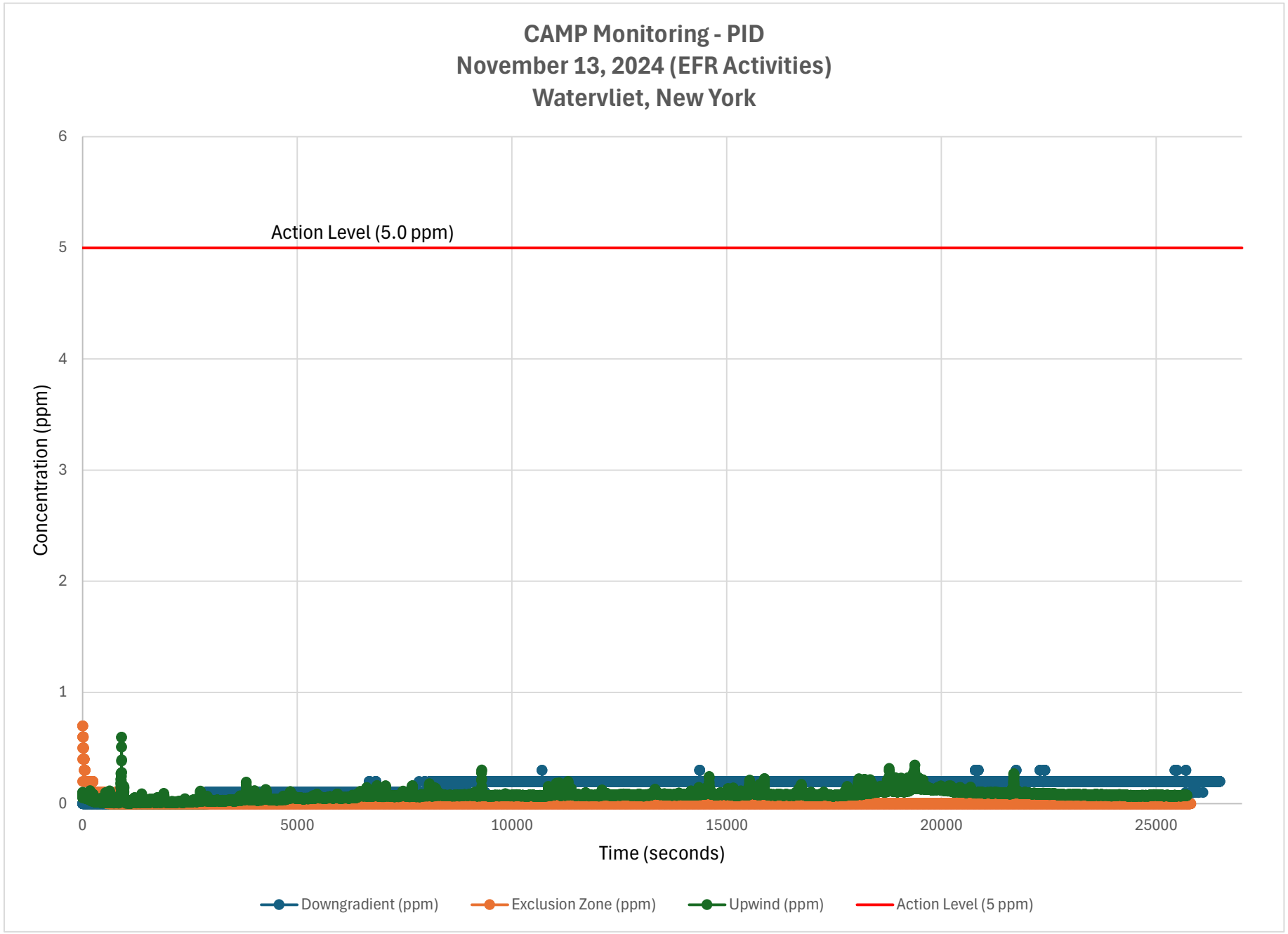

CAMP Monitoring - Particulates
June 12, 2024 - ISCO Injection Activities
Former Norton/Nashua - Watervliet, New York
Concentration (µg/m3)
800
700
600
500
400
300
200
100
0
-100
-200
0
5000
10000
15000
20000
25000
Time (seconds)
Upper Limit (212 ug/m3)
Lower Limit (162 ug/m3)
Average Upwind (62 ug/m3)
BLDG61 South (ug/m3)
BLDG61 East (ug/m3)
Downgradient (ug/m3)
Average Upwind
Lower Limit
Upper Limit

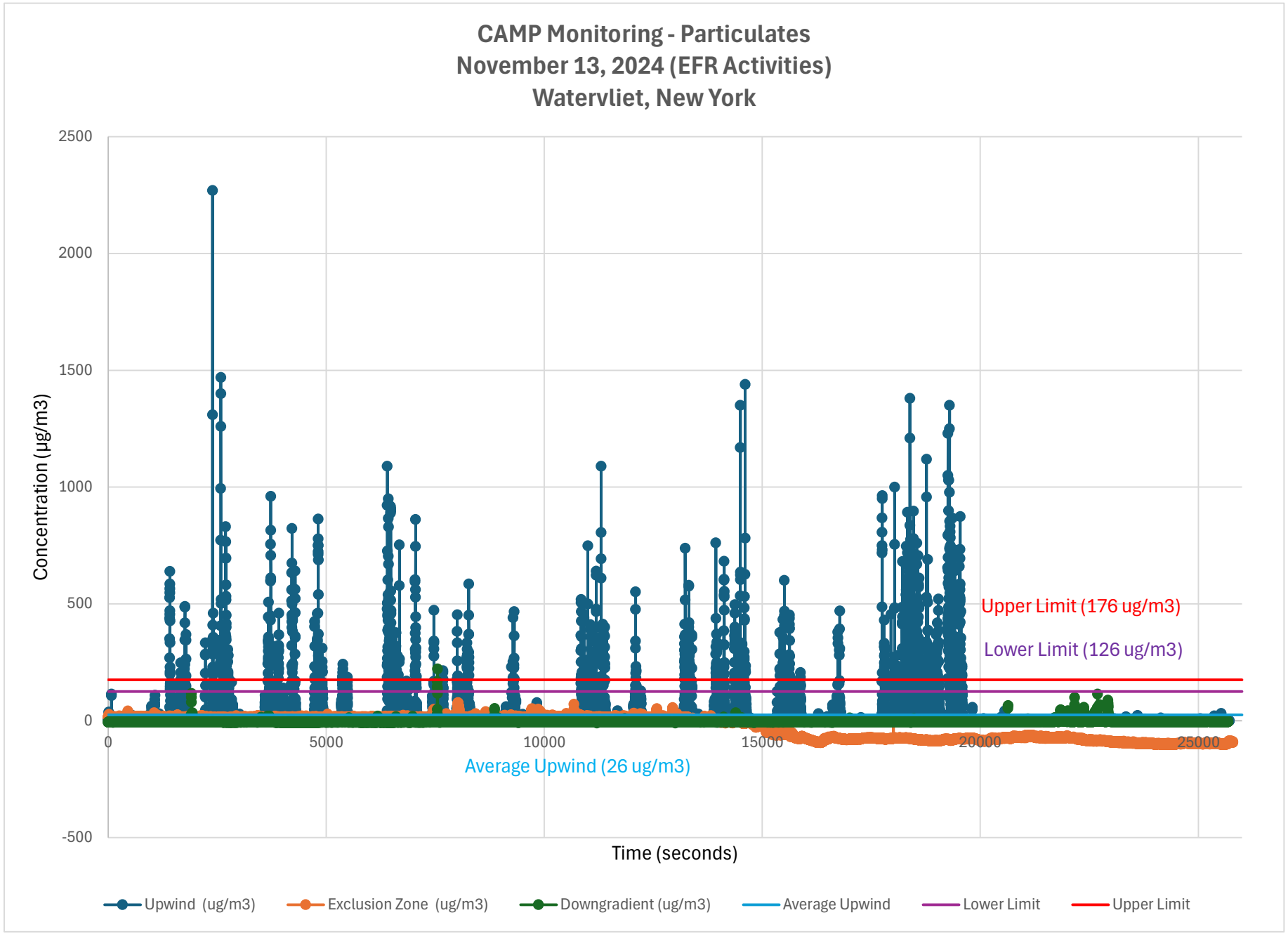

CAMP Monitoring - PID
June 13, 2024 - ISCO Injection Activities
Former Norton/Nashua - Watervliet, New York
Action Level (5.0 ppm)
Concentration (ppm)
0
1
2
3
4
5
6
6/13/2024 6:51
6/13/2024 8:03
6/13/2024 9:15
6/13/2024 10:27
6/13/2024 11:39
6/13/2024 12:51
6/13/2024 14:03
Time
Downgradient (ppm)
Exclusion Zone (ppm)
Upwind (ppm)
Action Level (5 ppm)

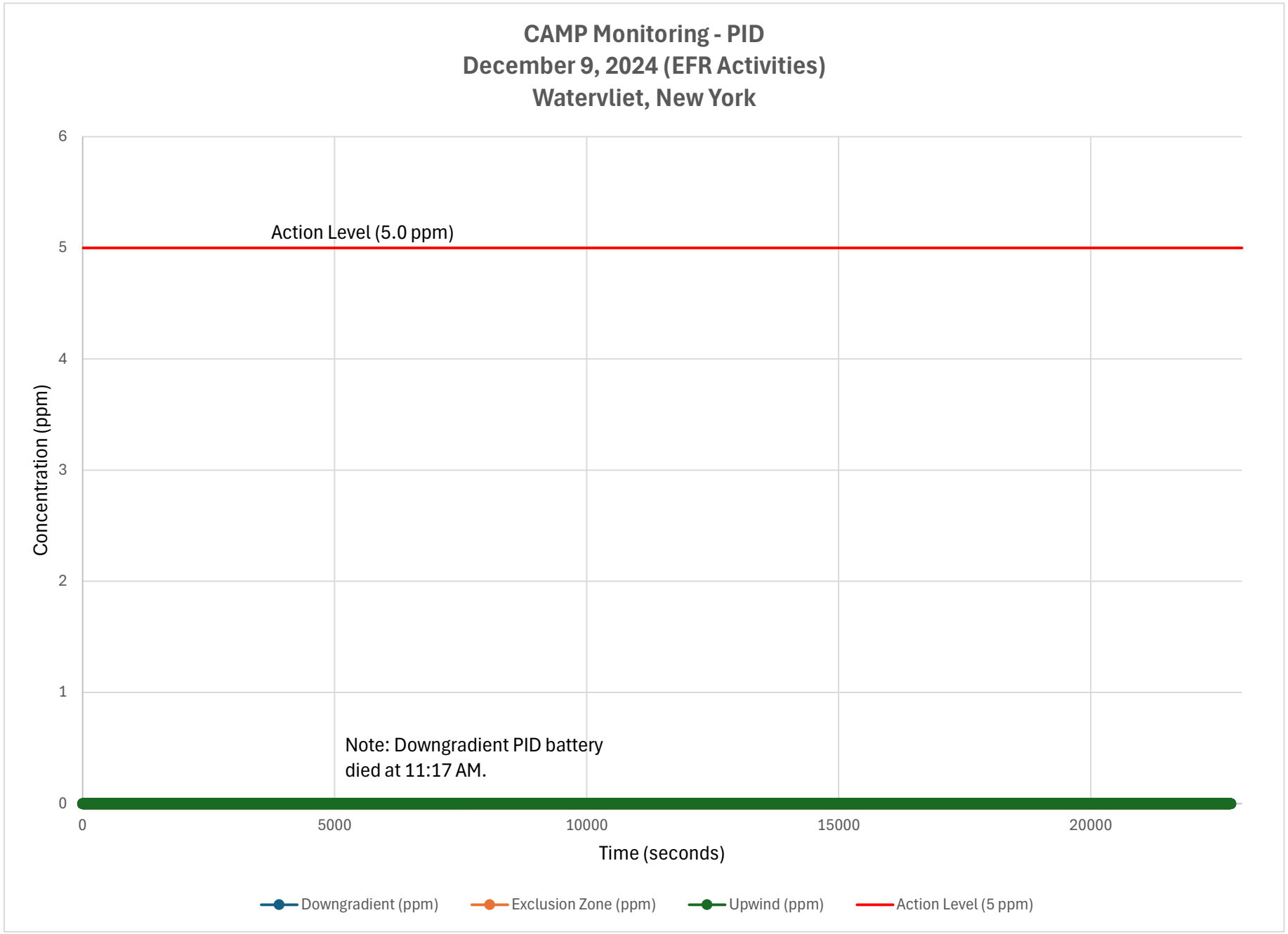

CAMP Monitoring - Particulates
June 13, 2024 - ISCO Injection Activities
Former Norton/Nashua - Watervliet, New York
Concentration (µg/m3)
Time (seconds)
Upper Limit (212 ug/m3)
Lower Limit (162 ug/m3)
Average Upwind (62 ug/m3)
400
350
300
250
200
150
100
50
0
-50
-100
0
5000
10000
15000
20000
25000
30000
BLDG61 South (ug/m3)
BLDG61 East (ug/m3)
Downgradient (ug/m3)
Average Upwind
Lower Limit
Upper Limit

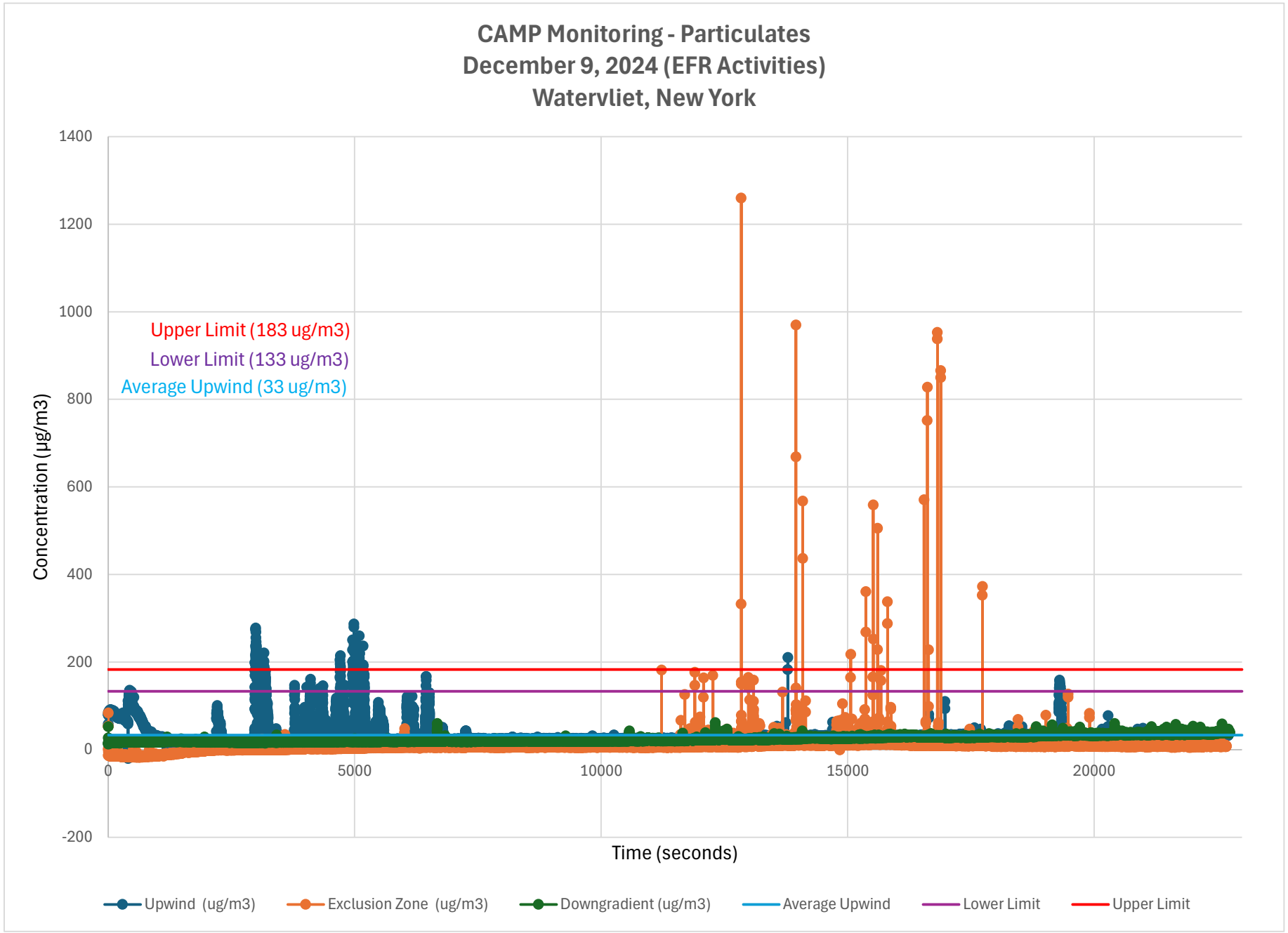

CAMP Monitoring - PID
November 12, 2024 (EFR Activities)
Watervliet, New York
Action Level (5.0 ppm)
Upwind PID battery died
Concentration (ppm)
Time (seconds)
0
1
2
3
4
5
6
0
5000
10000
15000
20000
Downgradient (ppm)
Exclusion Zone (ppm)
Upwind (ppm)
Action Level (5 ppm)

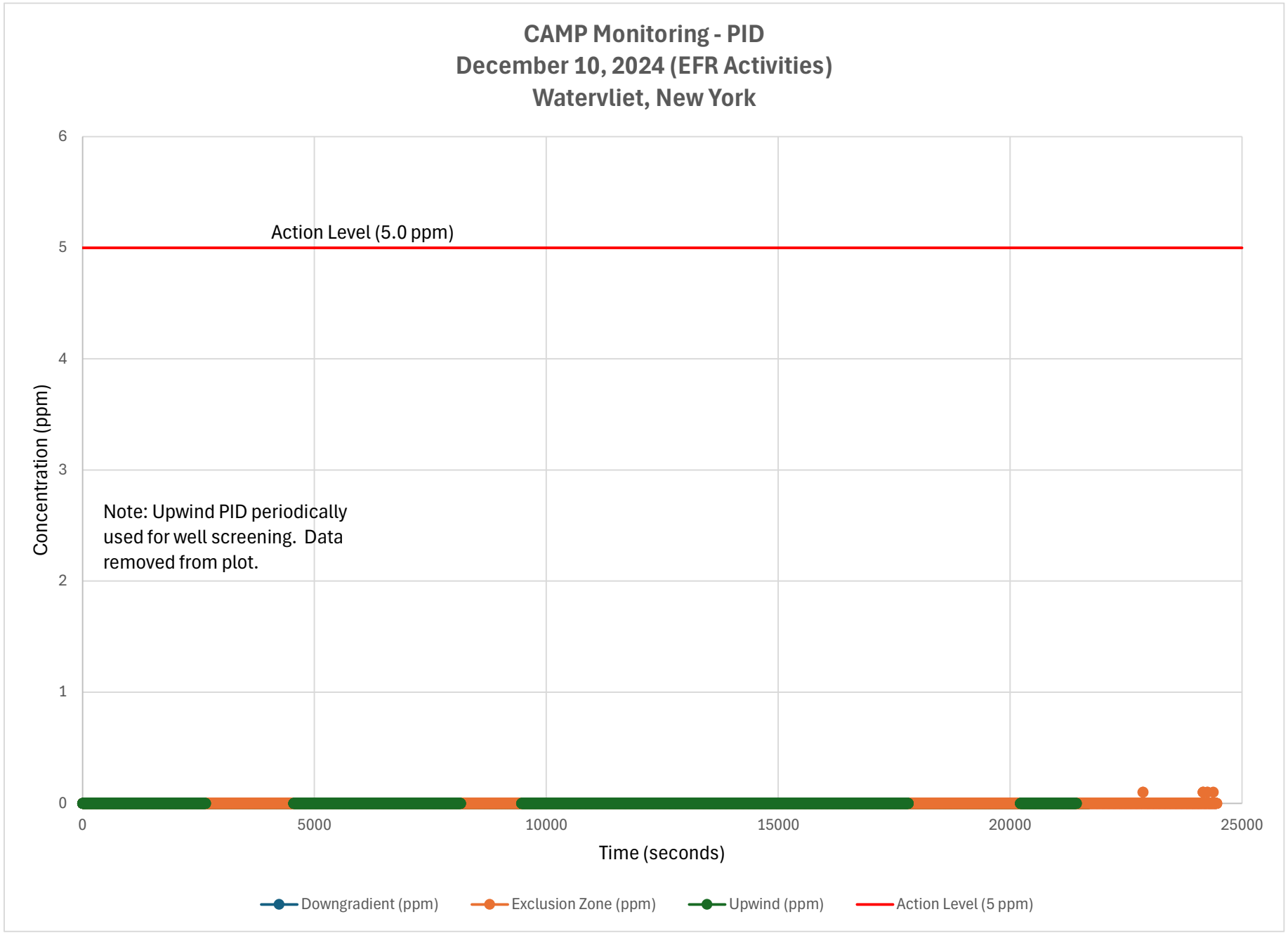

CAMP Monitoring - Particulates
November 12, 2024 (EFR Activities)
Watervliet, New York
Concentration (µg/m3)
1800
1600
1400
1200
1000
800
600
400
200
0
-200
-400
0
5000
10000
15000
20000
Time (seconds)
Upper Limit (159 ug/m3)
Lower Limit (109 ug/m3)
Average Upwind (9 ug/m3)
Upwind (ug/m3)
Exclusion Zone (ug/m3)
Downgradient (ug/m3)
Average Upwind
Lower Limit
Upper Limit

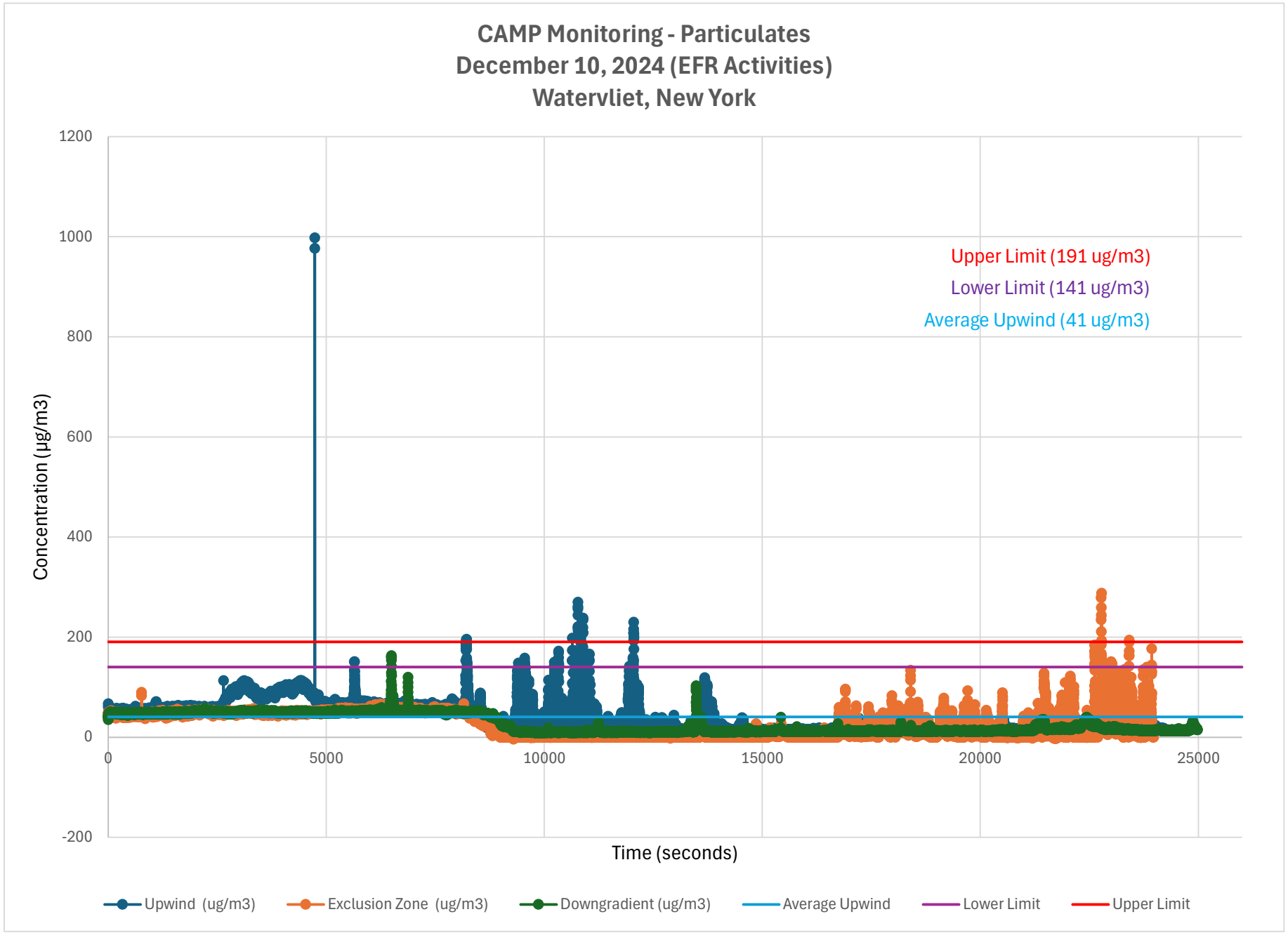

CAMP Monitoring - PID
November 13, 2024 (EFR Activities)
Watervliet, New York
Action Level (5.0 ppm)
Concentration (ppm)
0
1
2
3
4
5
6
0
5000
10000
15000
20000
25000
Time (seconds)
Downgradient (ppm)
Exclusion Zone (ppm)
Upwind (ppm)
Action Level (5 ppm)


CAMP Monitoring - Particulates
November 13, 2024 (EFR Activities)
Watervliet, New York
Concentration (µg/m3)
2500
2000
1500
1000
500
0
-500
0
5000
10000
15000
20000
25000
Time (seconds)
Upper Limit (176 ug/m3)
Lower Limit (126 ug/m3)
Average Upwind (26 ug/m3)
Upwind (ug/m3)
Exclusion Zone (ug/m3)
Downgradient (ug/m3)
Average Upwind
Lower Limit
Upper Limit


CAMP Monitoring - PID
December 9, 2024 (EFR Activities)
Watervliet, New York
Concentration (ppm)
6
5
4
3
2
1
0
Action Level (5.0 ppm)
Note: Downgradient PID battery
died at 11:17 AM.
0
5000
10000
15000
20000
Time (seconds)
Downgradient (ppm)
Exclusion Zone (ppm)
Upwind (ppm)
Action Level (5 ppm)

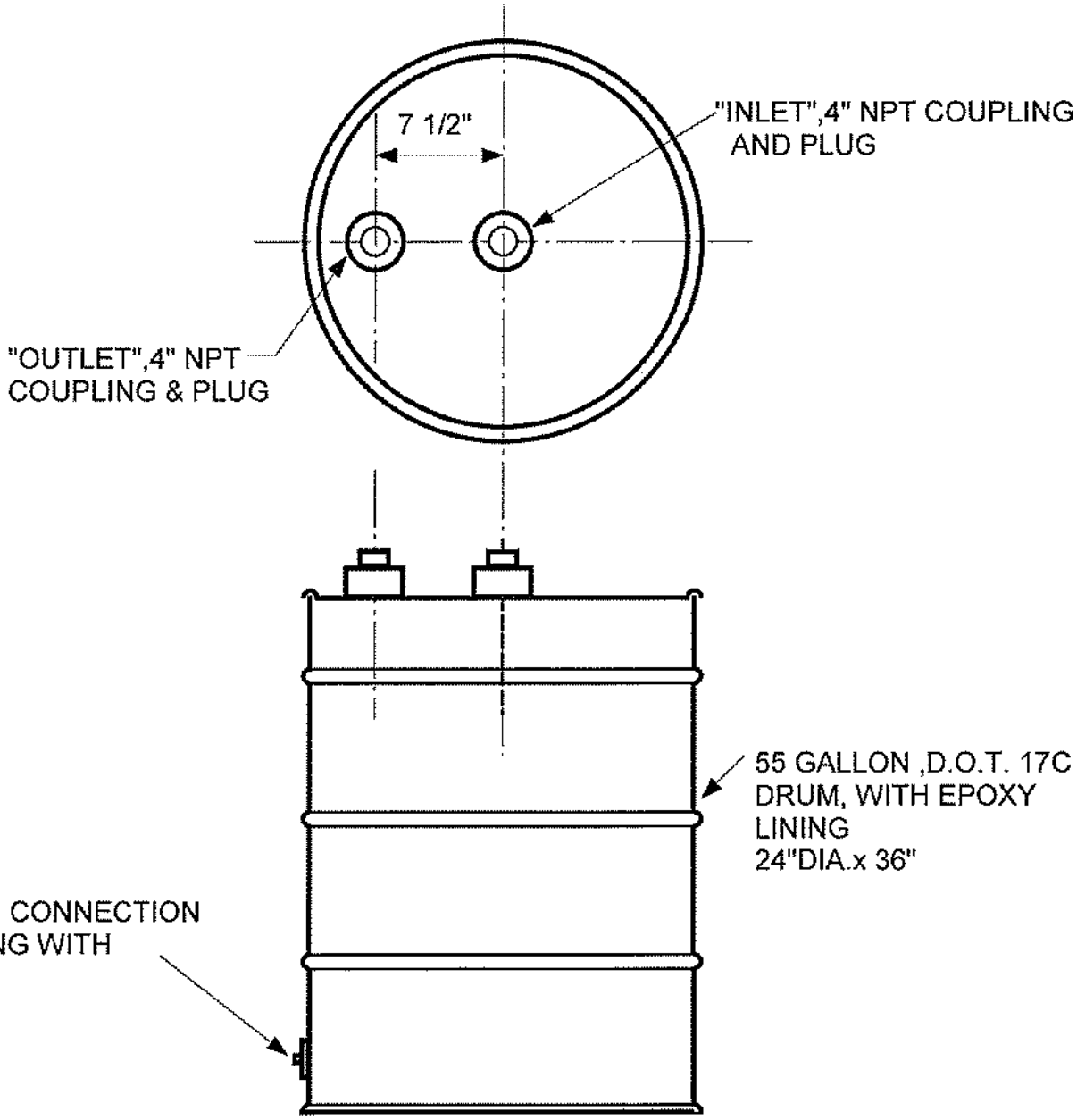

CAMP Monitoring - Particulates
December 9, 2024 (EFR Activities)
Watervliet, New York
Upper Limit (183 ug/m3)
Lower Limit (133 ug/m3)
Average Upwind (33 ug/m3)
Concentration (µg/m3)
1400
1200
1000
800
600
400
200
0
-200
0
5000
10000
15000
20000
Time (seconds)
Upwind (ug/m3)
Exclusion Zone (ug/m3)
Downgradient (ug/m3)
Average Upwind
Lower Limit
Upper Limit


CAMP Monitoring - PID
December 10, 2024 (EFR Activities)
Watervliet, New York
Action Level (5.0 ppm)
Note: Upwind PID periodically used for well screening. Data removed from plot.
Concentration (ppm)
Time (seconds)
0
1
2
3
4
5
6
0
5000
10000
15000
20000
25000
Downgradient (ppm)
Exclusion Zone (ppm)
Upwind (ppm)
Action Level (5 ppm)


CAMP Monitoring - Particulates
December 10, 2024 (EFR Activities)
Watervliet, New York
Concentration (µg/m3)
1200
1000
800
600
400
200
0
-200
0
5000
10000
15000
20000
25000
Time (seconds)
Upper Limit (191 ug/m3)
Lower Limit (141 ug/m3)
Average Upwind (41 ug/m3)
Upwind (ug/m3)
Exclusion Zone (ug/m3)
Downgradient (ug/m3)
Average Upwind
Lower Limit
Upper Limit

APPENDIX D

GAC DRUM SPECIFICATIONS



CARBTROL CORPORATION

51 RIVERSIDE AVENUE
WESTPORT CONN. 06880
(203) 226-5642

SCALE ----	PN-00111 PN-00112	BY R
DATE 10-1-85		REV 9-2-20

CARBTROL G-3

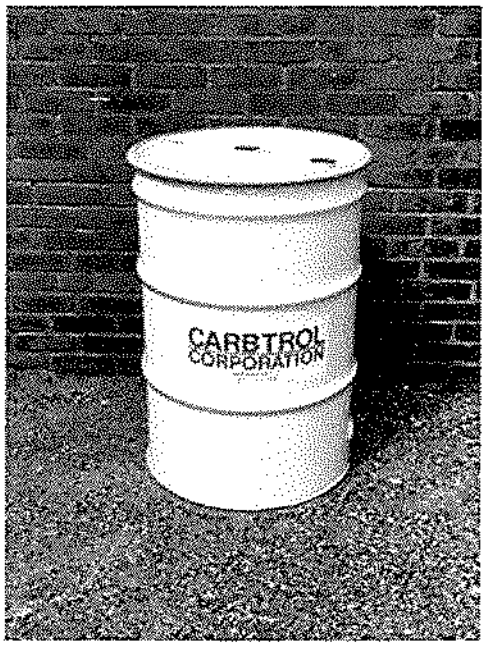
ARRANGEMENT	**S**	DWG **1115/2**

For Veolia

CARBTROL®

AIR PURIFICATION CANISTERS 140-200 LB. ACTIVATED CARBON

G-1
G-2
G-3



G-1S

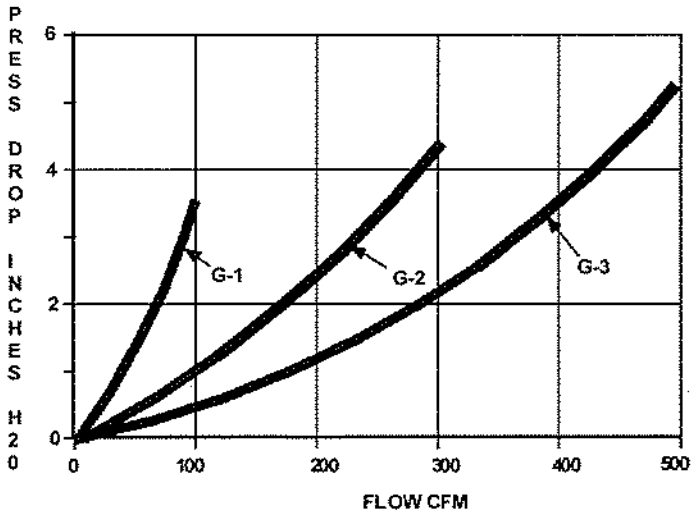
The CARBTROL "G" Canisters handles flows up to 500 CFM.

FEATURES

- High activity carbon.
- Epoxy lined steel or polyethylene construction.
- Acceptable for transport of hazardous spent carbon.
- Side drain for removal of accumulated condensate.
- Low pressure drop.
- PVC internal piping.
- High temperature (180°F) steel units available.

APPLICATIONS

- Soil vapor remediation
- Air stripper exhausts
- Tank vents
- Exhaust hoods
- Work area purification
- Sewage plant odor control



For Veolia

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AT-116/#1

CARBTROL®
CORPORATION

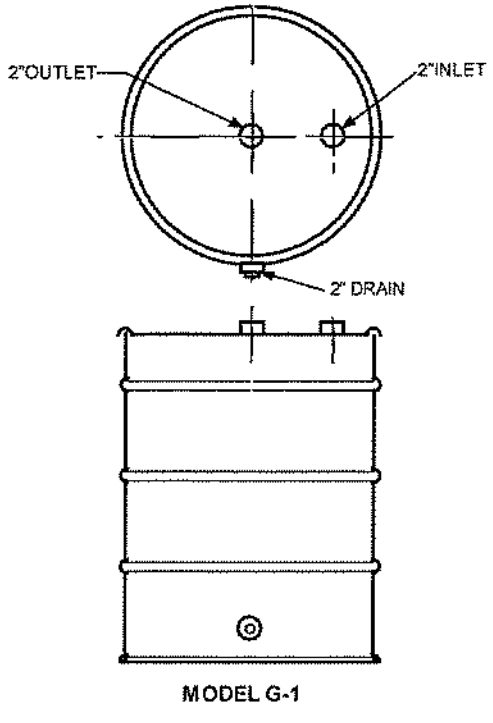
200 Benton St.
Stratford, CT 06615

800-242-1150 Fax: 203-337-4347
www.carbtrol.com info@carbtrol.com

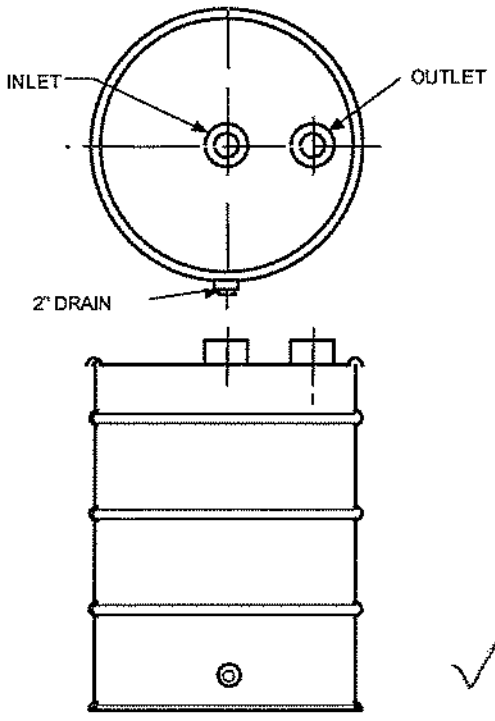
CARBTROL®

AIR PURIFICATION CANISTERS
140-200 LB. ACTIVATED CARBON

G-1
G-2
G-3



MODEL G-1



MODEL G-2,G-3

SPECIFICATIONS

MODEL	DIAMETER/HEIGHT	CARBON WEIGHT	INLET/OUTLET	MAXIMUM RATED FLOW	APPROXIMATE SHIP WEIGHT
G-1*	24"/36"	200 lbs.	2"/2"	100 CFM	250 lbs.
G-2*	24"/36"	170 lbs.	4"/4"	300 CFM	220 lbs.
G-3P	24"/36"	140 lbs.	6"/4"	500 CFM	190 lbs.
G-3S	24"/34"	140 lbs.	4"/4"	500 CFM	180 lbs.

* Specify: Polyethylene (P) or Epoxy Lined Steel (S)

SAFETY

Certain chemical compounds in the presence of activated carbon may oxidize, decompose or polymerize. This could result in temperature increases sufficient to cause ignition of the activated carbon or adsorbed material. If a compounds reaction with activated carbon is unknown, appropriate tests should be considered.

CARBTROL®
CORPORATION
For Veolia

200 Benton St.
Stratford, CT 06615

800-242-1150 Fax: 203-337-4347
www.carbtrol.com info@carbtrol.com

PRODUCT DESCRIPTION

ACTIVATED CARBON CANISTER
VAPOR PHASE FOR VOC REMOVAL

Model:	G-1S	G-2S	G-3S
Design Flow (CFM):	100	300	500
Design Features:			
Pressure Drop at Design Flow (in. w.c.):	3.5	4.25	5.0
Carbon Weight (lbs.):	200	170	140
Carbon	Vapor phase activated carbon, high activity.		
Canister:	24"Ø X 34" high epoxy lined carbon steel drum. PVC internal piping. Acceptable for transport of hazardous spent carbon.		
Maximum Operating Pressure	10 psi	10 psi	10 psi
Connections:	Inlet and outlet couplings located in lid. 2" side bung drain.		
Inlet & Outlet Size:	2" FPT	4" FPT	4" FPT
Shipping Weight (lbs.):	275	265	235
Availability:	2 days		
Drawing Number:	S-1113	S-1114	S-1115

01/08/21
*SP-101

For Veolia

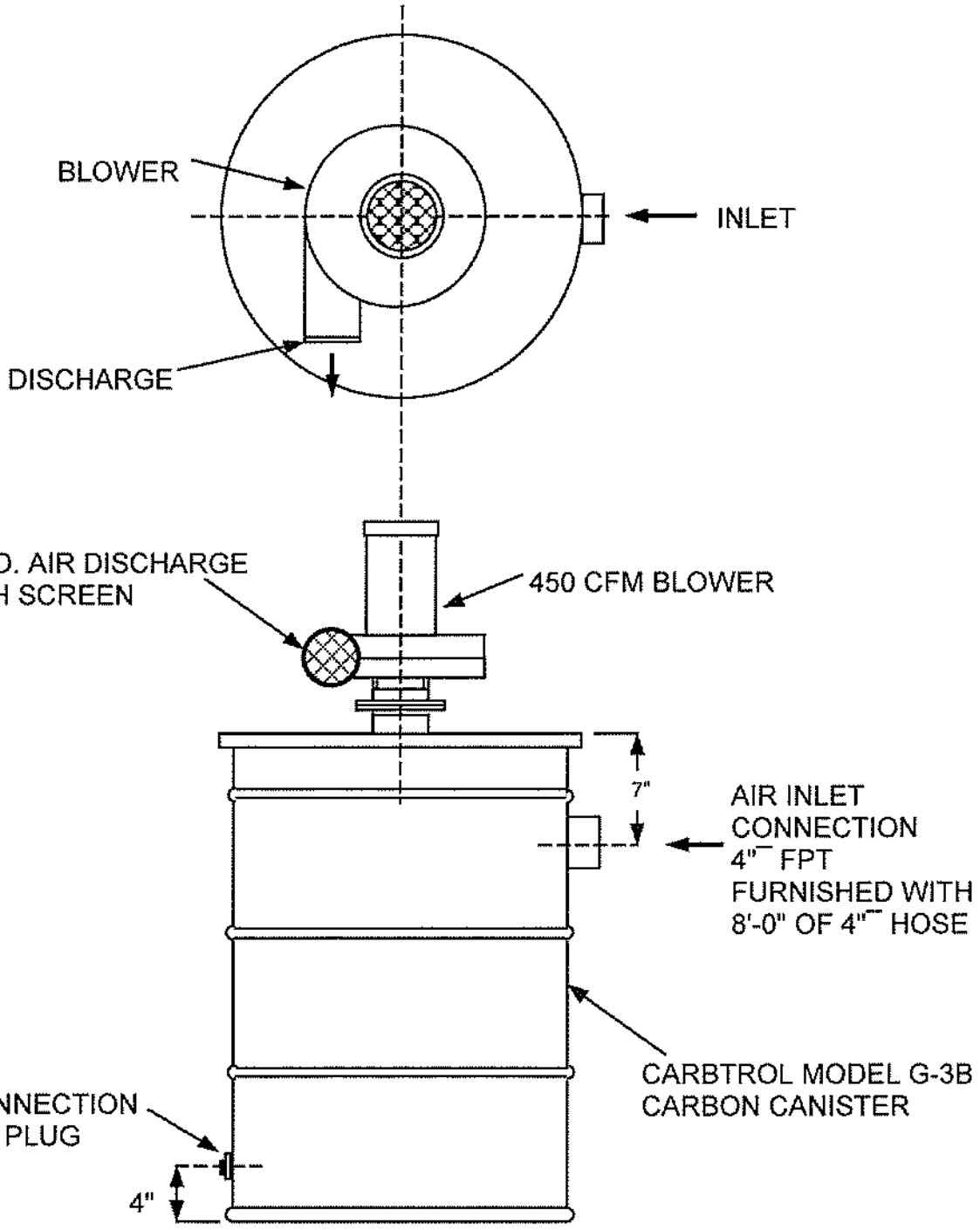
SPECIFICATION

AIR PURIFICATION SYSTEM
for
VOC REMOVAL
(ACTIVATED CARBON CANISTER WITH BLOWER)

Model	G-1B90	G-2B175	G-2B275	G-3B450	G-3B1000
Design Flow (CFM):	90	175	275	450	1000
Design Features:					
Carbon Weight (lbs.):	200	170	170	140	280
Canister Model:	G-1B	G-2B	G-2B	G-3B	(2) G-3S
Motor Rating:	1/3 HP 1Ø 115/208-230v	1/3 HP 1Ø 115/208-230v	1/2 HP 1Ø 115/208-230v	3/4 HP 1Ø 115/230v	3 HP 3Ø 230/460v
Electrical Connection:	Cord and 115 volt plug	Cord and 115 volt plug	Manual motor starter (optional)	Manual motor starter (optional)	Manual motor starter (optional)
Blower:	Cast aluminum, centrifugal, flanged suction, direct drive, 3450 RPM, TEFC motor.				
Carbon:	Vapor phase activated carbon, 4 X 8 mesh, high activity, type CSV.				
Mounting:	None	None	None	None	Polyethylene skid
Suction Hose:	Eight (8) feet of suction hose provided.				
Options:	Fractional motors rated for 3 Ø, 230/460v. 3 HP motors rated for 1 Ø, 115/230v. Explosionproof motors (supplied without cord/plug) Manual motor starters, NEMA 4X or NEMA 7 Weather shroud with sound attenuation material.				
Shipping Weight (lbs.):	325	270	295	290	600
Availability:	Standard models - 3 days. Optional models - 4 to 6 weeks.				
Drawing Number:	S-1123	S-1245	S-1246	S-1110	S-4887

2/26/24
*SP-200/#8

For Veolia



NOTE:-
APPROXIMATE
OVERALL DIMENSIONS
24" x 58" HIGH.

CARBTROL
CORPORATION

955 CONNECTICUT AVENUE
BRIDGEPORT, CT. 06607
(203) 337-4340

SCALE --------	PN-00206	BY WH
DATE 10-1-88		REV 9-18-20

G-3B-450
AIR PURIFICATION SYSTEM

ARRANGEMENT	S	DWG 1110/2

For Veolia