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July 27, 2022

Daniel McNally
NYS Dept. of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau B, 625 Broadway, 12th Floor
Albany, NY 12233-7016

**RE: Quarterly Progress Report on Project Activities (Second Quarter 2022)
Former Norton/Nashua Tape Products Facility
(April 1 through June 30, 2022)
2600 Seventh Avenue, Watervliet, New York
NYSDEC Order on Consent Index No. CO: 4-20001205-3375 (amended on January
10, 2019)**

Dear Mr. McNally:

In accordance with the August 2019 *Site Management Plan (SMP)*, Forensic Environmental Services, Inc. (FES), on behalf of Saint-Gobain Corporation (SGC), submits this Quarterly Progress Report for ongoing project activities at the Former Norton/Nashua Tape Products Facility in Watervliet, New York. Activities performed during the reporting period (April 1 through June 30) included: 1) implementation of In-Situ Chemical Oxidation (ISCO) remedial activities (June 1 – 17, 2022); 2) the collection of ISCO-related vapor intrusion pathway samples on June 8, 2022; and 3) preparation of a response to a May 10, 2022 electronic mail correspondence from the NYSDEC regarding the February 15, 2022 *Periodic Review Report (PRR)*. In addition, a report summarizing the First Quarter 2022 site activities was submitted to the NYSDEC on May 3, 2022. The current project implementation schedule is presented in Table 6.

ISCO Injection Activities

ISCO injection/treatment activities were conducted by ISOTEC of West Windsor, New Jersey from June 7 to 16, 2022 in two areas of the site exhibiting elevated toluene concentrations. These included: 1) Building #58 proximal to monitoring well MP-37; and 2) along the interior and exterior north wall of Building #61 (proximal to monitoring wells MP-24 through MP-27). ISCO injections were previously conducted proximal to monitoring well MW-27 in the northern portion of the site (see Figure 1); however, subsequent to ISCO and enhanced Fluid Recovery (EFR) activities conducted in this area through November 2020, the toluene concentration in MW-27 was reduced to 1,700 micrograms per liter ($\mu\text{g/L}$) in April 2021 and decreased to 20 $\mu\text{g/L}$ in July 2021. Toluene was not detected in MW-27 during the most recent (April 2022) sampling event. ISCO injection locations are presented in Figure 1. ISCO reagent injection volumes, flow rates, and field monitoring data are presented in Tables 1 and 2, respectively.

As outlined in the SMP, as well as previous (NYSDEC-approved) ISCO workplans, pre-ISCO injection clearance borings were installed inside the existing warehouse building, which included 11 borings in Building #61 proximal to existing monitoring wells MP-27 through MP-29 and 8 additional borings in Building #58 proximal to monitoring well MP-37 (Note: ISCO injection locations located to the north of Building #61 and proximal to monitoring wells MP-24, MP-25, MW-28, etc. were installed using conventional Geoprobe drilling methods). Clearance borings were installed by Cascade Drilling and Technical Services (Cascade) of Schenectady, New York on June 1 and 2, 2022. Injection point locations are presented in Figure 1.

A total of 22,400 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) 3,920 gallons of catalyst/stabilizer; 7,280 gallons of hydrogen peroxide; and 11,200 gallons of sodium persulfate into 29 borings in the vicinity of target wells. Injection point locations and reagent volumes and flow rates are presented in Figure 1 and Table 1, respectively.

Field monitoring was conducted throughout ISCO injection activities to: 1) evaluate the progress of the injection; 2) determine 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 (see Tables 2a and 2b). Light non-aqueous phase liquid (LNAPL) was not observed in any monitoring well throughout injection activities (see Table 2a).

With respect to monitoring well headspace readings during ISCO injection activities, elevated PID, LEL, and oxygen levels were observed at selected monitoring wells within and adjacent to the injection areas (see Table 2a). Field data obtained from downgradient monitoring well MP-39, located in the Durham school bus maintenance area, exhibited elevated (well headspace) PID readings during the hydrogen peroxide injections (maximum of 433.4 parts per million [ppm]). However, PID readings in MP-39 decreased to a maximum of 55.2 ppm during the sodium persulfate injections and were 4.0 ppm subsequent to the completion of injection activities on June 17, 2022 (see Table 2a). All injection points were sealed at the surface with hydrated bentonite and all monitoring wells were sealed with expandable “churney” plugs and only opened as necessary during the collection of field readings. Selected monitoring wells within the injection areas inside Buildings #58 and #61 (i.e., MP-26, MP-27, MP-29, MP-37, etc.) were only opened on an intermittent basis due to the presence of elevated PID readings and positive pressure at the wellhead.

Despite the presence of elevated PID headspace readings in selected monitoring wells, periodic indoor air (worker breathing zone) monitoring indicated that PID readings were at or only slightly above background levels throughout injection activities. Indoor air monitoring locations included: 1) Building #58 and #61 injection areas (exclusion zones); 2) the outdoor exclusion zone (north of Building #61); 3) warehouse forklift paths in Buildings #58 and #61;

and 4) the Durham Bus maintenance area. Health and Safety field monitoring data are presented in Table 3.

ISCO-Related Vapor Intrusion Investigation Sampling Activities (June 9, 2021)

In accordance with the SMP and NYSDEC/NYSDOH approved work scope, vapor intrusion sampling was conducted during the second day of ISCO injection activities on June 8, 2022. Vapor intrusion sampling activities included the collection of air-phase samples from: 1) existing sub-slab vapor monitoring points DB-VMP-1¹ and DB-VMP-3; 2) indoor air proximal to DB-VMP-3; and 3) an outdoor ambient sample (see Figure 1). In addition, a trip blank (QA/QC sample) accompanied the samples to and from the laboratory. All air-phase samples were submitted to SGS Accutest Laboratories of Dayton, New Jersey (Accutest) for analysis of VOCs via EPA Method TO-15 plus tentatively identified compounds (TICs) and included NYSDEC CLP/Category B laboratory deliverables.

Pre-Sampling Inspection and Product Inventory

All air-phase samples in June 2022 (DB-VMP-1, DB-VMP-3, and IA-BLDG-61) were collected in the Stone Management (Stone) warehouse area, while the outdoor ambient sample was collected in the northwest portion of the property (see Figure 1). A pre-sampling inspection was conducted on June 7, 2022, which included: 1) a site walkover; 2) confirmation of the general floor plan; 3) PID field screening of the proposed sampling areas (conducted on June 8, 2022); and 4) an inventory of warehoused materials in the general vicinity of the sampling locations. The NYSDOH Indoor Air Quality Questionnaire and Building Inventory is presented in Attachment 1.

PID screening results from DB-VMP-1 and DB-VMP-3 were 1,856 parts per billion by volume (ppbv) and 500 ppbv prior to sampling and 82 ppbv and 2,176 ppbv, respectively subsequent to sampling. Indoor ambient readings were between 323 – 669 ppbv (see below), and outdoor ambient PID readings were between 0.0 ppbv and 156 ppbv. Field measurements collected during vapor sampling activities are presented in Table 4.

With respect to the material inventory, the site is an active warehousing facility storing various materials on wooden or composite pallets, which typically change over time based on inventory and available warehouse space. In addition, a number of propane-powered forklifts operate within the facility during normal working hours from approximately 7:00 am to 4:00 pm. In late 2021, Building #61 was leased to Sardo and Sons Warehousing, Inc. for the storage of granite countertops, which occupy the majority of the open floor space within the building. Below is a summary of the PID readings collected at various locations within Building #61 during vapor sampling activities. Readings were collected adjacent to lettered/numbered beams located within and adjacent to the general ISCO area (a photographic log is presented in Attachment 2). In addition, the adjacent Durham facility is an active school bus maintenance/repair shop, and although isolated from the Stone warehouse, routine activities at Durham were conducted on the day of the sampling. The PID readings summarized below are consistent with prior data and are indicative of background conditions in the warehouse.

¹ Soil vapor point DB-VMP-2 was not accessible due to the presence of warehouse material (granite countertops); therefore DB-VMP-1 was sampled.

<u>Sample Location</u>	<u>PID Results (ppbv)</u>
Beam K30	323
Beam J30	455
Beam G30	476
Beam H30	439
Beam F30	438
Beam F28 (IA-BLDG-61)	419
Beam G28	481
Beam H28	383
Beam I28	406
Beam J28	352
Proximal to DB-VMP-2	607
Beam D28	600
Beam E28	624
Beam F28	566
Beam G28	481
Beam D26	625
Beam E26	669
Beam F26	510

Sub-Slab Vapor Monitoring Point (VMP) Sampling and Tracer Gas Monitoring

On the day of VMP sampling, a final site inspection, VMP inspection, and PID field screening survey were performed to document conditions at the time of sampling and each VMP was connected to dedicated 0.25-inch diameter Teflon tubing. Immediately prior to VMP sampling, helium gas monitoring was conducted to confirm the integrity of each VMP (and associated fittings). Tracer gas (helium) and associated sampling readings are presented in Table 4.

A low-flow peristaltic pump (i.e., flow rate 0.2 liters per minute or less) was connected to the Teflon tubing to purge approximately 1.0 liter of air from each VMP location (1-liter Tedlar bag), which was used for tracer gas monitoring and PID field screening. The Teflon tubing from the VMP was attached to the 6-liter Summa canister and the canister valve was opened to begin sub-slab vapor collection at each VMP location at a flow rate of approximately 0.75 liters per hour. The sampling assembly was periodically inspected during testing to determine the rate of vacuum loss (i.e., sample collection) and no abnormalities were noted on any sample. The VMP sub-slab samples were recovered approximately 8 hours later by closing the Summa canister valves, disconnecting the Teflon tubing from the VMP, and recording the remaining vacuum.

At the end of VMP sampling, tracer gas helium concentrations in the flux chambers had decreased in all VMP sampling locations; therefore, immediately after VMP sampling was completed, tracer gas monitoring and PID field screening was repeated as described above by recharging the flux chambers with helium gas. Post-sampling tracer gas readings were well below the screening limit of 20% (see Table 4).

Indoor/Outdoor Air Sampling and QA/QC Air Samples

In conjunction with sub-slab VMP sampling, concurrent ambient indoor/outdoor air samples were also collected on June 8, 2022 (see Figure 1 for sample locations). Ambient indoor/outdoor air samples were collected by placing certified-clean 6L Summa canisters, equipped with particulate filters and 8-hour regulators preset by the laboratory, in each sampling area approximately five to six feet off the floor/ground to collect representative “breathing air” samples. Field readings associated with indoor/outdoor air sampling are presented in Table 4.

The Summa canisters were not attached to any tubing. The Summa canister valves were opened to begin indoor/outdoor ambient air collection at a rate of approximately 0.75 liters per hour. Similar to VMP sampling, each sampling assembly was periodically inspected during testing to determine the rate of vacuum loss (i.e., sample collection). In addition to ongoing ISCO injection activities, normal business operations (i.e., operation of forklifts at Stone and bus repair/maintenance at Durham) continued at both the Stone and Durham facilities during the air sampling event and employees were occasionally present near or in the active sampling areas.

Vapor Sampling Results

VMP, ambient indoor/outdoor air, and QA/QC samples were submitted to SGS Accutest of Dayton, New Jersey for laboratory analysis of VOCs via EPA Method TO-15 plus TICs. Laboratory analytical results are presented in Table 4. The final laboratory data package was submitted to Dataval, Inc. for third-party validation on June 30, 2022 and the validated sampling results will be uploaded to the NYSDEC EQulS database.

A total of 17 individual VOCs were present in sub-slab VMPs DB-VMP-1 and/or DB-VMP-3 at concentrations ranging from 1.2 J micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) (tertiary butyl alcohol [TBA] in DB-VMP-3) to 56.3 $\mu\text{g}/\text{m}^3$ (ethanol in DB-VMP-1). Toluene, which is the primary compound of concern in groundwater at the former Norton/Nashua Site, was detected in DB-VMP-1 and DB-VMP-3 at concentrations of 5.7 $\mu\text{g}/\text{m}^3$, and 1.9 J $\mu\text{g}/\text{m}^3$, respectively (see Table 5). VOC TICs were also detected in DB-VMP-1 and DB-VMP-3 at a total estimated concentrations of 11 J ppbv and 269 J ppbv, respectively (see Table 5).

Compounds identified in the May 2017 NYSDOH Soil Vapor/Indoor Air Matrices (A, B, and C); including: trichloroethene (TCE), cis-1,2-Dichloroethylene (cis-1,2-DCE), 1,1-Dichloroethylene (1,1-DCE), and carbon tetrachloride (Matrix A); 1,1,1-TCA (Matrix B), and vinyl chloride (Matrix C) were not detected in either DB-VMP-1 or DB-VMP-3 in June 2022 (see Table 5). PCE and 1,1,1-TCA (Matrix B) were detected in both DB-VMP-1 and DB-VMP-2 at concentrations of 2.0 $\mu\text{g}/\text{m}^3$ and 3.6 $\mu\text{g}/\text{m}^3$ and 14 $\mu\text{g}/\text{m}^3$ and 13 $\mu\text{g}/\text{m}^3$, respectively.

With respect to the indoor air sample, which was co-located with sub-slab sample DB-VMP-3, a total of 26 individual VOCs were detected at concentrations ranging from 0.61 J $\mu\text{g}/\text{m}^3$ (benzene) to 223 $\mu\text{g}/\text{m}^3$ (heptane). Of the NYSDOH Matrix A, B, and C compounds, PCE and methylene chloride (Matrix B) were detected at concentrations of 6.7 $\mu\text{g}/\text{m}^3$ and 0.83 $\mu\text{g}/\text{m}^3$, respectively. VOC TICs were also detected in the indoor air sample at a total estimated concentration of 219.3 J ppbv (see Table 5).

A total of 19 individual VOCs were present in the June 2022 outdoor ambient air sample at concentrations ranging from 0.35 J $\mu\text{g}/\text{m}^3$ (benzene) to 21.3 $\mu\text{g}/\text{m}^3$ (ethanol). Finally, two individual VOCs (methylene chloride and acetone) were detected in the trip blank sample at concentrations of 0.38 J $\mu\text{g}/\text{m}^3$ and 0.48 $\mu\text{g}/\text{m}^3$, respectively (see Table 5).

Vapor Sampling Results Review

VOC concentrations in sub-slab and indoor air samples in June 2022 were variable compared to the previous (June 2021) results. VOC concentrations in indoor air were significantly lower in June 2022, while concentrations were slightly higher in sub-slab point DB-VMP-3. Sub-slab point DB-VMP-1, which was last sampled in April 2019, also exhibited generally lower concentrations during the June 2022 sampling event. The detected concentrations of Matrix B VOCs (PCE and methylene chloride) in sub-slab and indoor samples collected in June 2022 (see Table 5) did not trigger resampling or mitigation requirements.

The observed toluene concentrations in indoor air and sub-slab points (DB-VMP-1 and DB-VMP-3) indicate that ISCO injection activities are not causing significant mobilization/migration of vapor-phase toluene in the subsurface. Furthermore, as stated above, implementation of preventative measures including: 1) the use of ventilation fans in the immediate vicinity of ISCO injection points; 2) the sealing of injection drilling rods at the surface with hydrated bentonite; and 3) minimizing the opening of adjacent monitoring points to prevent of-gassing into the indoor air, etc. were used to minimize exposure during ISCO injections.

Future vapor intrusion monitoring activities at the site will be conducted in accordance with the approved SMP.

Upcoming Activities

Per the March 2017 *Statement of Basis* and the approved *Site Management Plan (SMP)*, proposed activities at the site for the remainder of 2022 include: 1) post-ISCO groundwater sampling events in July and August 2022; 2) continued bio-supplementation activities 3) two EFR events; 4) semi-annual groundwater monitoring (including an expanded off-site event); and 5) an annual Engineering Control (cap) inspection. The current project implementation schedule is presented in Table 6.

If you have any questions or comments regarding the information provided in this letter, please contact me or Thomas Maguire at (610) 594-3940.

Sincerely,

FORENSIC ENVIRONMENTAL SERVICES, INC.



Bryan J. Machella
Senior Project Manager

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TABLES

Table 1
Summary of In-Situ Chemical Oxidation (ISCO) Activities (June 2022)
June 2021 Field Monitoring Data (Injection Data)
Former Norton/Nashua
Watervliet, New York

Date	Injection Point	Screen Interval (feet)	Catalyst			Oxidizer			Persulfate			Well Head Pressure (psi)
			Injection Time (mins)	Volume (gal)	Flow Rate (gpm)	Injection Time (mins)	Volume (gal)	Flow Rate (gpm)	Injection Time (mins)	Volume (gal)	Flow Rate (gpm)	
6/7/2022	IP-MP27-11	10-15	31	70	2.26	62	130	2.10				8
6/7/2022	IP-MP27-05	10-15	35	70	2.00	78	130	1.67				6
6/7/2022	IP-MP37-03	10-15	73	70	0.96	83	130	1.57				10
6/7/2022	IP-MW28-01	10-15	26	70	2.69	62	130	2.10				3
6/7/2022	IP-MW28-02	10-15	33	70	2.12	93	130	1.40				2
6/7/2022	IP-MP27-06	10-15	36	70	1.94	84	130	1.55				16
6/7/2022	IP-MW28-08	10-15				38	65	1.71				3
6/7/2022	IP-MP27-08	10-15	34	70	2.06	67	130	1.94				6
6/7/2022	IP-MP37-02	10-15	56	70	1.25	115	130	1.13				8
6/7/2022	IP-MW28-01	7-12	47	70	1.49	88	130	1.48				6
6/7/2022	IP-MW28-02	7-12	44	70	1.59	85	130	1.53				4
6/7/2022	IP-MP27-11	7-12	29	70	2.41	59	130	2.20				8
6/7/2022	IP-MP27-05	7-12				50	65	1.30				3

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			Injection Time (mins)	Volume (gal)	Flow Rate (gpm)	Injection Time (mins)	Volume (gal)	Flow Rate (gpm)	Injection Time (mins)	Volume (gal)	Flow Rate (gpm)	
6/8/2022	IP-MP37-04	10-15	25	70	2.80	45	130	2.89				8
6/8/2022	IP-MP27-08	7-12	26	70	2.69	51	130	2.55				3
6/8/2022	IP-MP27-05	7-12	21	70	3.33	26	65	2.50				5
6/8/2022	IP-MW28-08	10-15	36	70	1.94	51	65	1.27				0
6/8/2022	IP-MW28-05	10-15	88	70	0.80	115	130	1.13				0
6/8/2022	IP-MP27-06	7-12	88	70	0.80	84	130	1.55				6
6/8/2022	IP-MP37-05	10-15	62	70	1.13	72	130	1.81				3
6/8/2022	IP-MP27-09	10-15	36	70	1.94	69	130	1.88				3
6/8/2022	IP-MW28-09	10-15	47	70	1.49	136	130	0.96				20
6/8/2022	IP-MP27-07	10-15	48	70	1.46	78	130	1.67				10
6/8/2022	IP-MP37-07	10-15	33	70	2.12	57	130	2.28				0
6/8/2022	IP-MP27-04	10-15	30	70	2.33	160	130	0.81				18
6/8/2022	IP-MP37-01	10-15	37	70	1.89	84	130	1.55				0
6/8/2022	IP-MP27-09	7-12	23	70	3.04	54	130	2.41				6
6/8/2022	IP-MW28-04	10-15	57	70	1.23	88	65	0.74				2
6/8/2022	IP-MW28-05	7-12	20	25	1.25	61	65	1.07				0
6/8/2022	IP-MP27-01	10-15				50	65	1.30				0
6/8/2022	IP-MP37-02	7-12	33	70	2.12	26	65	2.50				2
6/8/2022	IP-MW28-09	7-12	31	45	1.45							0

Table 1
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			Injection Time (mins)	Volume (gal)	Flow Rate (gpm)	Injection Time (mins)	Volume (gal)	Flow Rate (gpm)	Injection Time (mins)	Volume (gal)	Flow Rate (gpm)	
6/9/2022	IP-MW28-04	10-15				105	65	0.62				0
6/9/2022	IP-MW28-05	7-12	40	45	1.13	80	65	0.81				0
6/9/2022	IP-MW28-09	7-12	38	25	0.66	143	130	0.91				3
6/9/2022	IP-MP27-01	10-15	43	70	1.63	39	65	1.67				6
6/9/2022	IP-MP37-02	7-12				46	65	1.41				6
6/9/2022	IP-MP27-04	7-12	70	70	1.00	95	130	1.37				4
6/9/2022	IP-MP37-03	7-12	45	70	1.56	52	130	2.50				4
6/9/2022	IP-MP27-07	7-12	55	70	1.27	72	130	1.81				3
6/9/2022	IP-MP37-04	7-12	29	70	2.41	77	130	1.69				6
6/9/2022	IP-MW28-07	10-15	28	70	2.50	66	130	1.97				2
6/9/2022	IP-MP27-03	10-15				54	65	1.20				0
6/9/2022	IP-MW28-04	7-12	33	70	2.12	147	130	0.88				0
6/9/2022	IP-MP27-01	7-12	85	70	0.82	81	65	0.80				3
6/9/2022	IP-MP37-05	7-12	34	70	2.06	84	130	1.55				0

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			Injection Time (mins)	Volume (gal)	Flow Rate (gpm)	Injection Time (mins)	Volume (gal)	Flow Rate (gpm)	Injection Time (mins)	Volume (gal)	Flow Rate (gpm)	
6/9/2022	IP-MW28-08	7-12	31	70	2.26	63	130	2.06				0
6/9/2022	IP-MP27-02	10-15				99	65	0.66				0
6/9/2022	IP-MW28-03	10-15	33	70	2.12							0
6/10/2022	IP-MP27-03	10-15	51	70	1.37	118	65	0.55				6
6/10/2022	IP-MP27-01	7-12				47	65	1.38				6
6/10/2022	IP-MP27-02	10-15	52	70	1.35	70	65	0.93				4
6/10/2022	IP-MW28-03	10-15				126	130	1.03				0
6/10/2022	IP-MP37-06	10-15	42	70	1.67	95	130	1.37				4
6/10/2022	IP-MW28-06	10-15	28	70	2.50	71	130	1.83				3
6/10/2022	IP-MW28-03	7-12	50	70	1.40	80	130	1.63				2
6/10/2022	IP-MP27-10	10-15	41	70	1.71	92	130	1.41				3
6/10/2022	IP-MP37-08	10-15	42	70	1.67	95	130	1.37				6
6/10/2022	IP-MP27-02	7-12	44	70	1.59	99	130	1.31				4
6/13/2022	IP-MW28-06	7-12	27	70	2.59	47	130	2.77				0
6/13/2022	IP-MP27-03	7-12	44	70	1.59	74	130	1.76				3
6/13/2022	IP-MP27-10	7-12	29	70	2.41	66	130	1.97				0
6/13/2022	IP-MP37-06	7-12	33	70	2.12	67	130	1.94				8
6/13/2022	IP-MP37-01	7-12	36	70	1.94	49	65	1.33				2
6/13/2022	IP-MP37-08	7-12	32	70	2.19	57	130	2.28				0
6/13/2022	IP-MP37-07	7-12				26	65	2.50				0

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June 2021 Field Monitoring Data (Injection Data)
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			Injection Time (mins)	Volume (gal)	Flow Rate (gpm)	Injection Time (mins)	Volume (gal)	Flow Rate (gpm)	Injection Time (mins)	Volume (gal)	Flow Rate (gpm)	
6/14/2022	IP-MW28-07	7-12	30	70	2.33	66	130	1.97				2
6/14/2022	IP-MP37-07	7-12	37	70	1.89	41	65	1.59				0
6/14/2022	IP-MP37-01	7-12				30	65	2.17				3
6/14/2022	IP-MW28-09	10-15							98	200	2.04	0
6/14/2022	IP-MW28-06	10-15							99	200	2.02	2
6/14/2022	IP-MP27-01	10-15							87	200	2.30	4
6/14/2022	IP-MP27-05	10-15							106	200	1.89	5
6/14/2022	IP-MP37-02	10-15							93	200	2.15	2
6/14/2022	IP-MP27-02	10-15							73	200	2.74	0
6/14/2022	IP-MW28-06	7-12							101	200	1.98	0
6/14/2022	IP-MW28-04	10-15							104	200	1.92	0
6/14/2022	IP-MP27-10	10-15							150	200	1.33	14
6/14/2022	IP-MP27-01	7-12							117	200	1.71	0
6/14/2022	IP-MW28-09	7-12							94	200	2.13	0
6/14/2022	IP-MW28-02	10-15							78	200	2.56	6
6/14/2022	IP-MP37-01	10-15							59	200	3.39	0
6/14/2022	IP-MP27-04	10-15							89	200	2.25	6
6/14/2022	IP-MP27-02	7-12							91	200	2.20	2
6/14/2022	IP-MP37-03	10-15							78	200	2.56	2
6/14/2022	IP-MW28-05	10-15							94	200	2.13	6
6/14/2022	IP-MW28-07	10-15							83	200	2.41	3

Table 1
Summary of In-Situ Chemical Oxidation (ISCO) Activities (June 2022)
June 2021 Field Monitoring Data (Injection Data)
Former Norton/Nashua
Watervliet, New York

Date	Injection Point	Screen Interval (feet)	Catalyst			Oxidizer			Persulfate			Well Head Pressure (psi)
			Injection Time (mins)	Volume (gal)	Flow Rate (gpm)	Injection Time (mins)	Volume (gal)	Flow Rate (gpm)	Injection Time (mins)	Volume (gal)	Flow Rate (gpm)	
6/15/2022	IP-MP27-10	7-12							123	200	1.63	0
6/15/2022	IP-MP27-05	7-12							131	200	1.53	8
6/15/2022	IP-MP37-04	10-15							123	200	1.63	0
6/15/2022	IP-MW28-02	7-12							95	200	2.11	2
6/15/2022	IP-MW28-04	7-12							89	200	2.25	0
6/15/2022	IP-MW28-05	7-12							137	200	1.46	6
6/15/2022	IP-MW28-07	7-12							88	200	2.27	0
6/15/2022	IP-MP27-07	10-15							91	200	2.20	0
6/15/2022	IP-MP37-01	7-12							63	200	3.17	3
6/15/2022	IP-MP27-06	10-15							94	200	2.13	8
6/15/2022	IP-MW28-08	10-15							138	200	1.45	0
6/15/2022	IP-MP37-02	7-12							136	200	1.47	0
6/15/2022	IP-MP27-11	10-15							100	200	2.00	10
6/15/2022	IP-MP27-08	10-15							89	200	2.25	6
6/15/2022	IP-MW28-03	10-15							85	200	2.35	0
6/15/2022	IP-MW28-01	10-15							81	200	2.47	2
6/15/2022	IP-MP37-03	7-12							68	200	2.94	3
6/15/2022	IP-MP37-05	10-15							134	200	1.49	12
6/15/2022	IP-MP27-06	7-12							128	200	1.56	10
6/15/2022	IP-MW28-03	7-12							77	200	2.60	0
6/15/2022	IP-MW28-08	7-12							94	200	2.13	3
6/15/2022	IP-MP37-04	7-12							95	200	2.11	0

Table 1
Summary of In-Situ Chemical Oxidation (ISCO) Activities (June 2022)
June 2021 Field Monitoring Data (Injection Data)
Former Norton/Nashua
Watervliet, New York

Date	Injection Point	Screen Interval (feet)	Catalyst			Oxidizer			Persulfate			Well Head Pressure (psi)
			Injection Time (mins)	Volume (gal)	Flow Rate (gpm)	Injection Time (mins)	Volume (gal)	Flow Rate (gpm)	Injection Time (mins)	Volume (gal)	Flow Rate (gpm)	
6/16/2022	IP-MP37-05	7-12							88	200	2.27	10
6/16/2022	IP-MP27-07	7-12							74	200	2.70	8
6/16/2022	IP-MP27-08	7-12							102	200	1.96	0
6/16/2022	IP-MW28-01	7-12							65	200	3.08	0
6/16/2022	IP-MP27-03	10-15							165	200	1.21	24
6/16/2022	IP-MP27-09	10-15							87	200	2.30	3
6/16/2022	IP-MP27-09	7-12							72	200	2.78	0
6/16/2022	IP-MP27-11	7-12							130	200	1.54	2
6/16/2022	IP-MP37-06	10-15							95	200	2.11	8
6/16/2022	IP-MP37-07	10-15							79	200	2.53	3
6/16/2022	IP-MP37-08	10-15							86	200	2.33	8
6/16/2022	IP-MP37-06	7-12							82	200	2.44	2
6/16/2022	IP-MP37-08	7-12							66	200	3.03	2
6/16/2022	IP-MP27-04	7-12							83	200	2.41	10
6/16/2022	IP-MP27-03	7-12							89	200	2.25	4
6/16/2022	IP-MP37-07	7-12							101	200	1.98	8
Total Volume/Average Flow				3,920	1.84		7,280	1.60		11,200	2.17	
Total Volume Injected			22,400									

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 2a
Summary of In-Situ Chemical Oxidation (ISCO) Activities
June 2022 Groundwater/Vapor Field Monitoring Data
Former Norton/Nashua
Watervliet, New York

Monitoring Point	Date	Time (24hr)	Injection Phase	DTW (feet)	Monitoring Well Headspace Readings					Groundwater Readings (FES)				
					Vacuum (in/H ² O)	PID (ppmv)	LEL (%)	O ₂ (%)	CO ₂ (%)	DO (mg/L)	Sp. Cond. (µS/Cm)	ORP (mV)	pH (pH Units)	Temp (°C)
MP-23	6/6/2022	10:01 AM	Baseline	9.55	0.0	3.0	0	16.5	2.9	2.38	1,452	-190.2	6.64	15.55
	6/7/2022	2:24 PM	MFR	9.46	0.1	166.4	>100	21.5	12.1	2.83	1,409	-73.0	6.67	16.36
	6/8/2022	8:47 AM	MFR	9.41	0.0	280.7	20	22.0	6.6	2.45	1,376	-293.9	6.67	15.19
	6/8/2022	1:49 PM	MFR	9.43	0.0	400 R	72	OR	12.1	3.55	1,315	-118.6	6.63	15.64
	6/9/2022	10:20 AM	MFR	9.42	0.05	60.2	8	OR	11.7	2.28	1,391	-148.1	6.69	15.17
	6/9/2022	2:15 PM	MFR	9.41	0.1	100.3	7	OR	12.2	2.36	1,426	-102.6	6.89	15.94
	6/10/2022	10:02 AM	MFR	9.32	0.0	31.4	10	21.5	3.3	2.73	2,386	-113.3	6.68	15.62
	6/13/2022	9:04 AM	MFR	9.47	0.0	0.0	0	21.1	0.0	2.15	1,923	-110.2	6.72	17.30
	6/13/2022	2:56 PM	MFR	9.45	0.0	115 R	1	22.8	1.1	6.33	1,368	-56.0	6.54	16.79
	6/14/2022	8:19 AM	MFR	9.48	0.0	35.9 R	0	21.4	0.0	5.28	1,369	-60.8	6.55	16.29
	6/14/2022	1:42 PM	Persulfate*	9.40	0.0	0.0	3	23.2	2.2	5.28	1,404	-9.4	7.10	17.23
	6/15/2022	7:44 AM	Persulfate	9.47	0.0	0.1	0	21.0	0.0	4.16	1,301	-62.1	6.58	16.18
	6/15/2022	2:20 PM	Persulfate	9.37	0.0	27.2	1	OR	5.2	4.41	1,436	19.4	6.64	16.13
	6/16/2022	8:36 AM	Persulfate	9.44	0.0	0.0	0	21.4	0.0	4.40	1,289	-21.1	6.49	16.04
6/16/2022	1:18 PM	Persulfate	9.37	0.0	0.0	3	21.3	0.0	4.71	1,376	81.4	6.59	16.37	
6/17/2022	8:31 AM	Post-Injection	9.43	0.0	0.0	0	21.1	0.0	3.52	1,401	-10.1	6.48	17.09	
MP-24	6/6/2022	10:09 AM	Baseline	9.50	0.0	1.0	0	11.1	5.8	1.86	10,200	-104.9	6.40	16.73
	6/7/2022	2:28 PM	MFR	9.36	0.1	330.2	69	OR	5.2	12.02	7,059	143.6	6.86	16.19
	6/8/2022	8:50 AM	MFR	9.18	0.0	5.1	1	24.5	0.5	13.32	1,695	-38.6	6.55	12.59
	6/8/2022	1:51 PM	MFR	9.31	1.5	133.0	16	OR	6.7	10.46	128,100	0.2	6.64	15.94
	6/9/2022	10:27 AM	MFR	9.83	0.1	63.7	10	OR	5.5	9.76	7,831	-60.1	6.81	15.43
	6/9/2022	2:21 PM	MFR	9.02	0.25	78.2	15	OR	6.5	7.54	6,765	-28.6	6.93	15.67
	6/10/2022	10:09 AM	MFR	8.98	0.3	1,260 R	>100	OR	8.6	6.88	8,346	-37.8	6.80	16.51
	6/13/2022	9:14 AM	MFR	9.48	0.0	6.2	0	21.5	0.0	2.67	9,468	-8.5	6.60	17.22
	6/13/2022	3:00 PM	MFR	9.42	0.0	125 R	1	22.5	0.2	3.75	6,085	-19.8	6.69	16.59
	6/14/2022	8:23 AM	MFR	9.44	0.0	207.9	12	OR	4.6	5.22	6,270	-6.8	6.70	16.91
	6/14/2022	1:46 PM	Persulfate*	8.65	0.0	301.5 R	26	OR	5.9	4.40	7,614	138.8	7.06	16.84
	6/15/2022	7:48 AM	Persulfate	8.93	0.0	24.3 R	0	22.7	0.9	4.85	9,973	188.0	6.89	17.53
	6/15/2022	2:25 PM	Persulfate	8.78	0.0	205.5	18	OR	6.0	13.31	12,880	226.4	6.72	18.48
	6/16/2022	8:40 AM	Persulfate	8.83	0.0	107.5	6	OR	0.0	14.78	26,890	278.0	9.73	18.16
6/16/2022	1:21 PM	Persulfate	8.68	0.0	6.1	6	21.4	0.0	16.14	44,290	291.4	12.41	18.53	
6/17/2022	8:37 AM	Post-Injection	9.57	0.0	75 R	0	21.2	0.0	13.82	34,290	370.7	9.41	19.91	

Table 2a
Summary of In-Situ Chemical Oxidation (ISCO) Activities
June 2022 Groundwater/Vapor Field Monitoring Data
Former Norton/Nashua
Watervliet, New York

Monitoring Point	Date	Time (24hr)	Injection Phase	DTW (feet)	Monitoring Well Headspace Readings					Groundwater Readings (FES)				
					Vacuum (in/H ² O)	PID (ppmv)	LEL (%)	O ₂ (%)	CO ₂ (%)	DO (mg/L)	Sp. Cond. (µS/Cm)	ORP (mV)	pH (pH Units)	Temp (°C)
MP-25	6/6/2022	10:21 AM	Baseline	9.50	0.0	1.5	0	19.7	0.6	1.32	5,514	-210.6	7.01	15.40
	6/7/2022	2:38 PM	MFR	9.36	0.1	864.5	>100	OR	5.5	9.37	6,538	56.0	7.61	15.03
	6/8/2022	9:05 AM	MFR	9.13	0.2	1,130	3	22.5	0.3	11.87	7,072	-32.1	7.53	14.78
	6/8/2022	2:04 PM	MFR	9.05	0.3	1,718	83	OR	6.0	5.68	8,864	26.3	7.34	15.52
	6/9/2022	10:45 AM	MFR	9.18	0.3	6.7	9	OR	4.7	4.56	10,180	10.7	7.28	16.11
	6/9/2022	2:35 PM	MFR	9.03	0.35	7.3	14	OR	5.2	5.25	10,270	12.3	6.94	16.02
	6/10/2022	10:22 AM	MFR	7.74	0.8	1,775 R	>100	OR	7.2	17.80	11,590	207.4	7.48	17.31
	6/13/2022	9:24 AM	MFR	9.47	0.0	246.9	0	OR	1.4	1.58	10,890	-55.5	7.07	16.43
	6/13/2022	3:12 PM	MFR	8.96	0.0	270 R	12	OR	1.6	21.12	8,644	246.0	7.47	21.19
	6/14/2022	8:33 AM	MFR	8.20	0.5	287.6 R	1	OR	1.6	19.36	8,611	214.4	7.42	22.24
	6/14/2022	1:54 PM	Persulfate*	8.64	0.0	210.1	44	OR	2.6	19.20	7,652	220.7	7.30	23.79
	6/15/2022	7:59 AM	Persulfate	8.87	0.0	32.3 R	2	OR	2.9	4.46	9,554	171.7	7.00	22.07
	6/15/2022	2:32 PM	Persulfate	8.56	0.0	6.8 R	1	21.4	0.0	9.40	66,340	311.1	12.66	24.69
	6/16/2022	8:49 AM	Persulfate	9.38	0.0	0.0	0	OR	0.6	5.48	17,290	254.3	9.69	22.02
6/16/2022	1:29 PM	Persulfate	9.22	0.0	0.0	1	21.4	0.0	6.41	19,040	307.8	9.75	23.06	
6/17/2022	8:50 AM	Post-Injection	9.43	0.0	100 R	1	21.4	0.0	NM	NM	NM	NM	NM	
MP-26	6/6/2022	9:18 AM	Baseline	10.19	0.0	0.8	0	19.3	1.6	0.59	4,347	-338.7	7.15	14.14
	6/7/2022	1:58 PM	MFR	9.58	0.5	49.7	20	OR	8.2	2.05	NM	NM	NM	NM
	6/8/2022	8:17 AM	MFR	9.33	0.0	45.6 R	13	OR	4.1	2.13	2,694	-154.4	7.50	14.68
	6/8/2022	1:34 PM	MFR	NM	0.5	2,700 R	>100	OR	6.0	NM	NM	NM	NM	NM
	6/9/2022	9:37 AM	MFR	9.84	0.15	382.6	20	OR	4.3	6.22	10,000	-18.4	6.37	15.18
	6/9/2022	1:35 PM	MFR	8.71	1.2	370.3	>100	OR	3.1	11.75	8,867	32.0	7.46	16.77
	6/10/2022	9:29 AM	MFR	NM	0.1	4,020	>100	OR	6.4	NM	NM	NM	NM	NM
	6/13/2022	4:25 AM	MFR	9.76	0.0	974.8	59	OR	1.4	9.64	14,130	56.3	6.68	17.65
	6/13/2022	8:31 AM	MFR	10.05	0.0	541.9 R	0	OR	5.9	1.36	8,061	-95.6	7.26	17.29
	6/14/2022	7:37 AM	MFR	10.03	0.0	254.2 R	0	24.6	1.3	3.85	15,170	-14.5	6.88	17.71
	6/14/2022	1:11 PM	Persulfate*	8.10	0.0	396.5	>100	OR	2.0	8.32	107,800	150.5	12.91	19.52
	6/15/2022	8:33 AM	Persulfate	9.56	0.0	104.4	5	OR	0.2	3.52	49,200	192.5	12.43	19.25
	6/15/2022	1:52 PM	Persulfate	9.66	0.0	93.7	3	21.6	0.1	4.26	40,400	237.6	11.83	18.61
	6/16/2022	7:50 AM	Persulfate	10.02	0.0	84.8	4	OR	0.3	4.60	37,050	241.8	10.50	18.00
6/16/2022	12:45 PM	Persulfate	9.82	0.0	155.0	1	21.6	0.0	5.96	30,330	260.1	10.21	18.92	
6/17/2022	7:46 AM	Post-Injection	10.01	0.0	25 R	3	OR	0.5	6.17	25,320	243.4	10.01	18.91	

Table 2a
Summary of In-Situ Chemical Oxidation (ISCO) Activities
June 2022 Groundwater/Vapor Field Monitoring Data
Former Norton/Nashua
Watervliet, New York

Monitoring Point	Date	Time (24hr)	Injection Phase	DTW (feet)	Monitoring Well Headspace Readings					Groundwater Readings (FES)				
					Vacuum (in/H ² O)	PID (ppmv)	LEL (%)	O ₂ (%)	CO ₂ (%)	DO (mg/L)	Sp. Cond. (µS/Cm)	ORP (mV)	pH (pH Units)	Temp (°C)
MP-27	6/6/2022	9:24 AM	Baseline	10.05	0.0	1.0	0	13.2	7.7	1.34	5,593	-228.1	6.98	14.17
	6/7/2022	2:04 PM	MFR	5.23	0.2	2,016	18	21.7	0.1	12.30	8,139	-0.6	7.19	14.76
	6/8/2022	8:21 AM	MFR	NM	0.1	3,600	>100	OR	5.5	NM	NM	NM	NM	NM
	6/8/2022	1:36 PM	MFR	NM	0.45	2,420	>100	OR	7.6	NM	NM	NM	NM	NM
	6/9/2022	9:42 AM	MFR	9.46	0.2	3,280	>100	OR	6.6	9.71	16,860	84.2	7.22	18.82
	6/9/2022	1:41 PM	MFR	9.30	0.1	3,500 R	>100	OR	5.1	3.94	16,570	28.8	7.22	19.33
	6/10/2022	9:35 AM	MFR	NM	1.2	5,885 R	>100	OR	8.9	NM	NM	NM	NM	NM
	6/13/2022	8:36 AM	MFR	10.03	0.0	946.5	20	OR	5.2	1.42	16,280	-89.4	7.10	18.17
	6/13/2022	2:30 PM	MFR	8.85	0.0	1,964	>100	OR	6.3	22.28	9,129	299.5	6.63	18.58
	6/14/2022	7:44 AM	MFR	9.92	0.0	2,165 R	>100	OR	5.2	12.45	11,280	94.7	6.72	18.88
	6/14/2022	1:15 PM	Persulfate*	8.74	0.0	3,050 R	>100	OR	6.7	13.51	12,930	130.0	8.47	19.52
	6/15/2022	8:39 AM	Persulfate	9.38	0.0	1,900 R	>100	OR	5.4	6.31	15,810	255.9	6.99	19.18
	6/15/2022	1:56 PM	Persulfate	8.33	0.0	1,500 R	>100	OR	6.9	9.51	18,180	298.5	7.38	19.16
	6/16/2022	7:55 AM	Persulfate	9.93	0.0	750 R	76	OR	4.6	6.60	19,370	328.7	7.34	18.92
6/16/2022	12:49 PM	Persulfate	9.90	0.0	140 R	18	OR	1.7	7.12	18,700	354.2	7.03	19.23	
6/17/2022	7:51 AM	Post-Injection	9.97	0.0	16.4 R	1	22.1	0.1	NM	NM	NM	NM	NM	
MP-28	6/6/2022	9:29 AM	Baseline	10.06	0.0	0.8	0	14.9	6.2	3.33	2,877	-164.3	6.97	13.89
	6/7/2022	NM	MFR	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	6/8/2022	8:27 AM	MFR	9.52	0.3	93.8	21	17.1	10.9	3.26	2,793	-66.4	6.40	16.16
	6/8/2022	1:38 PM	MFR	9.54	0.3	270.0	32	OR	7.5	16.70	5,494	308.7	6.65	15.58
	6/9/2022	9:48 AM	MFR	9.32	0.3	565 R	77	OR	11.9	24.56	6,980	294.7	6.70	15.71
	6/9/2022	1:49 PM	MFR	9.73	0.2	583.2	11	OR	6.3	17.45	9,379	140.7	6.35	15.87
	6/10/2022	9:42 AM	MFR	9.28	0.05	574.1	>100	OR	15.4	9.42	13,110	79.2	7.00	15.35
	6/13/2022	8:43 AM	MFR	10.45	0.0	47.9	3	OR	4.1	11.30	13,880	107.8	6.15	16.90
	6/13/2022	2:35 PM	MFR	10.03	0.0	225 R	8	OR	15.0	19.86	11,850	270.7	6.07	17.15
	6/14/2022	7:49 AM	MFR	10.05	0.0	131.6 R	4	OR	4.2	17.04	11,240	129.4	6.18	16.72
	6/14/2022	1:19 PM	Persulfate*	9.78	0.0	55.3 R	7	OR	10.3	17.99	10,750	215.9	6.41	17.45
	6/15/2022	8:44 AM	Persulfate	9.84	0.0	40.0 R	5	OR	5.7	18.04	55,680	218.8	12.70	17.37
	6/15/2022	2:00 PM	Persulfate	9.63	0.0	16.2	4	OR	5.6	13.41	119,100	339.3	12.87	18.60
	6/16/2022	8:00 AM	Persulfate	9.87	0.0	15.0 R	2	OR	6.1	10.33	44,490	285.3	12.19	19.75
6/16/2022	12:53 PM	Persulfate	9.58	0.0	17.8	3	OR	6.2	9.47	136,400	391.2	12.79	19.26	
6/17/2022	8:07 AM	Post-Injection	10.07	0.0	0.0	0	21.2	0.0	7.93	45,890	279.5	12.08	20.26	

Table 2a
Summary of In-Situ Chemical Oxidation (ISCO) Activities
June 2022 Groundwater/Vapor Field Monitoring Data
Former Norton/Nashua
Watervliet, New York

Monitoring Point	Date	Time (24hr)	Injection Phase	DTW (feet)	Monitoring Well Headspace Readings					Groundwater Readings (FES)				
					Vacuum (in/H ² O)	PID (ppmv)	LEL (%)	O ₂ (%)	CO ₂ (%)	DO (mg/L)	Sp. Cond. (µS/Cm)	ORP (mV)	pH (pH Units)	Temp (°C)
MP-29	6/6/2022	9:34 AM	Baseline	10.04	0.0	0.9	0	19.6	1.0	1.00	1,168	-274.7	6.60	14.36
	6/7/2022	2:10 PM	MFR	NM	6.0	1,173	NM	NM	NM	NM	NM	NM	NM	NM
	6/8/2022	8:32 AM	MFR	9.45	0.5	510 R	40	22.7	3.4	1.99	1,833	-48.6	6.92	17.15
	6/8/2022	1:40 PM	MFR	9.55	5.0	1,779	>100	OR	9.1	10.81	12,100	253.6	7.03	15.07
	6/9/2022	10:00 AM	MFR	9.45	-0.8	1.8	17	OR	1.3	15.34	12,450	253.2	7.14	17.09
	6/9/2022	1:55 PM	MFR	9.84	0.0	2.9	>100	OR	7.2	15.12	12,280	122.7	6.79	16.95
	6/10/2022	9:48 AM	MFR	NM	8.0	7,545 R	>100	OR	17.3	NM	NM	NM	NM	NM
	6/13/2022	8:49 AM	MFR	10.05	0.0	715.4	5	OR	2.5	2.59	12,590	-7.5	6.63	17.01
	6/13/2022	2:40 PM	MFR	10.02	0.0	211.3 R	3	OR	2.8	24.72	11,000	287.6	6.80	16.85
	6/14/2022	7:57 AM	MFR	10.02	0.0	153.9 R	3	OR	4.8	16.50	9,783	127.3	6.66	17.17
	6/14/2022	1:23 PM	Persulfate*	9.28	0.0	136.8	9	OR	0.4	7.57	91,800	160.3	12.74	25.01
	6/15/2022	8:50 AM	Persulfate	9.86	0.1	8.6	72	OR	0.0	7.56	32,410	190.4	12.36	20.08
	6/15/2022	2:04 PM	Persulfate	9.63	0.0	343.9	26	OR	0.0	12.56	91,220	362.1	12.78	21.90
	6/16/2022	8:06 AM	Persulfate	9.91	0.0	324.3	23	OR	0.0	7.47	22,010	258.4	12.24	19.35
6/16/2022	12:58 PM	Persulfate	9.47	0.0	1,333	>100	OR	2.9	9.69	26,200	324.1	12.35	19.25	
6/17/2022	8:12 AM	Post-Injection	9.98	0.0	275 R	33	24.8	0.0	7.27	17,100	256.3	11.21	19.47	
MP-30	6/6/2022	9:50 AM	Baseline	9.98	0.0	0.8	0	20.9	0.2	1.65	2,249	-316.4	6.72	15.80
	6/7/2022	2:18 PM	MFR	9.88	0.0	3.0	14	15.4	12.5	2.11	1,840	-230.5	6.83	16.74
	6/8/2022	8:43 AM	MFR	9.48	0.0	0.0	2	6.3	15.1	1.94	1,877	-192.5	6.77	15.87
	6/8/2022	1:47 PM	MFR	9.75	0.5	0.0	6	7.5	15.7	2.57	1,704	-163.9	6.72	15.84
	6/9/2022	10:15 AM	MFR	9.80	0.0	4.1	2	15.4	15.5	2.08	2,187	-122.1	6.67	15.49
	6/9/2022	2:07 PM	MFR	9.63	0.0	5.6	2	21.5	0.0	3.38	2,400	-142.6	6.71	15.33
	6/10/2022	9:57 AM	MFR	9.45	0.05	563.8	>100	OR	7.8	2.87	4,066	-120.2	6.65	15.09
	6/13/2022	8:57 AM	MFR	9.95	0.0	84.5 R	1	21.5	0.7	2.53	3,760	-54.9	6.60	15.96
	6/13/2022	2:50 PM	MFR	9.94	0.0	110 R	1	OR	10.1	4.34	3,076	-24.7	6.47	16.76
	6/14/2022	8:08 AM	MFR	9.95	0.0	15.3	1	22.0	0.4	4.21	3,350	-40.3	6.53	16.17
	6/14/2022	1:34 PM	Persulfate*	9.71	0.0	65.0 R	2	OR	7.2	5.82	3,233	238.7	8.80	18.41
	6/15/2022	9:01 AM	Persulfate	9.78	0.0	10.4 R	1	OR	5.9	3.81	3,572	38.7	6.54	16.12
	6/15/2022	2:12 PM	Persulfate	9.55	0.0	42.4 R	1	OR	5.5	5.46	3,592	287.4	6.70	16.53
	6/16/2022	8:19 AM	Persulfate	9.76	0.0	8.0 R	0	OR	6.2	2.62	9,319	-33.2	6.63	16.38
6/16/2022	1:12 PM	Persulfate	9.63	0.0	0.0	4	21.4	0.0	3.83	4,147	283.8	6.60	16.90	
6/17/2022	8:24 AM	Post-Injection	9.90	0.0	0.0	1	21.3	0.0	3.89	51,398	170.7	6.29	17.18	

Table 2a
Summary of In-Situ Chemical Oxidation (ISCO) Activities
June 2022 Groundwater/Vapor Field Monitoring Data
Former Norton/Nashua
Watervliet, New York

Monitoring Point	Date	Time (24hr)	Injection Phase	DTW (feet)	Monitoring Well Headspace Readings					Groundwater Readings (FES)				
					Vacuum (in/H ² O)	PID (ppmv)	LEL (%)	O ₂ (%)	CO ₂ (%)	DO (mg/L)	Sp. Cond. (µS/Cm)	ORP (mV)	pH (pH Units)	Temp (°C)
MP-31	6/6/2022	9:41 AM	Baseline	10.05	0.0	0.3	0	20.9	0.1	2.30	1,312	-103.5	7.02	14.73
	6/7/2022	2:13 PM	MFR	9.97	0.0	30.6	23	OR	0.1	11.01	1,559	32.7	6.94	16.07
	6/8/2022	8:40 AM	MFR	9.43	0.0	45.7 R	3	22.7	1.4	4.68	2,146	-19.5	6.98	15.30
	6/8/2022	1:44 PM	MFR	9.68	0.0	253.0	10	21.2	0.0	7.35	21,870	232.8	6.86	15.21
	6/9/2022	10:07 AM	MFR	9.78	0.0	0.5	3	21.3	0.0	7.62	1,830	224.9	7.02	15.64
	6/9/2022	2:02 PM	MFR	9.85	0.0	1.1	5	21.1	0.0	5.59	1,959	95.0	6.97	16.02
	6/10/2022	9:53 AM	MFR	9.24	0.0	3.8	2	21.2	0.0	3.13	3,085	27.8	6.92	16.09
	6/13/2022	8:53 AM	MFR	10.03	0.0	60.2	0	21.2	0.0	3.59	2,914	12.4	6.88	16.22
	6/13/2022	2:44 PM	MFR	9.98	0.0	11.7	0	21.6	0.0	8.09	2,135	248.6	6.76	16.26
	6/14/2022	8:04 AM	MFR	10.03	0.0	7.2 R	2	21.4	0.0	5.35	2,666	57.0	6.65	16.05
	6/14/2022	1:30 PM	Persulfate*	9.78	0.0	0.0	3	21.4	0.0	6.88	3,342	280.2	8.82	16.68
	6/15/2022	8:56 AM	Persulfate	9.87	0.0	0.0	1	21.5	0.0	9.46	4,072	335.2	7.30	16.78
	6/15/2022	2:08 PM	Persulfate	9.70	0.0	0.0	1	21.3	0.0	13.17	5,078	340.5	9.10	16.84
	6/16/2022	8:11 AM	Persulfate	9.91	0.0	0.0	0	21.5	0.0	11.61	6,248	386.3	6.80	16.84
6/16/2022	1:03 PM	Persulfate	9.64	0.0	5.0	22	21.3	0.0	7.50	6,998	331.1	10.37	16.46	
6/17/2022	8:20 AM	Post-Injection	9.97	0.0	0.0	0	21.2	0.0	10.25	5,311	373.1	7.18	16.77	
MP-34	6/6/2022	1:51 PM	Baseline	9.80	0.0	0.7	0	11.2	8.1	3.33	733	-107.1	6.97	18.23
	6/7/2022	1:37 PM	MFR	9.68	0.0	116.8	5	12.3	7.6	2.87	672	-96.7	6.96	17.49
	6/8/2022	8:02 AM	MFR	9.54	0.0	8.0	10	10.4	8.8	2.44	660	-92.8	6.94	17.43
	6/8/2022	1:16 PM	MFR	9.47	0.0	734.0	>100	14.0	5.9	2.67	659	-76.2	6.89	17.71
	6/9/2022	9:13 AM	MFR	9.53	0.0	583.6	35	9.8	9.5	2.61	646	-79.9	6.97	17.59
	6/9/2022	1:08 PM	MFR	9.51	0.0	571.3	>100	14.9	7.9	5.22	659	-74.1	6.97	17.92
	6/10/2022	9:04 AM	MFR	9.38	0.0	622.8	36	17.8	5.2	5.06	1,740	-92.9	7.08	17.56
	6/13/2022	8:13 AM	MFR	9.78	0.0	289.2	7	12.0	7.6	2.34	1,314	-79.4	6.89	17.55
	6/13/2022	2:02 PM	MFR	9.75	0.0	556.4	38	14.5	5.6	4.39	614	-74.4	6.81	17.53
	6/14/2022	7:03 AM	MFR	9.80	0.0	41.7 R	0	12.1	7.1	3.96	640	-77.5	6.82	18.46
	6/14/2022	12:44 PM	Persulfate*	9.75	0.0	85.0 R	1	10.6	8.8	4.12	658	-83.5	6.87	18.69
	6/15/2022	7:13 AM	Persulfate	9.80	0.0	137.0 R	0	11.4	8.1	5.14	659	-47.0	6.85	18.45
	6/15/2022	1:25 PM	Persulfate	9.73	0.0	14.6	0	9.4	9.5	5.14	766	-54.1	6.78	18.96
	6/16/2022	7:31 AM	Persulfate	9.76	0.0	7.3 R	0	10.5	8.8	3.02	1,055	250.4	7.36	18.54
6/16/2022	12:09 PM	Persulfate	9.72	0.0	20.0 R	0	9.9	9.2	3.78	636	0.0	6.73	18.83	
6/17/2022	7:15 AM	Post-Injection	9.75	0.0	25 R	0	9.4	9.3	5.25	633	46.4	6.67	18.16	

Table 2a
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June 2022 Groundwater/Vapor Field Monitoring Data
Former Norton/Nashua
Watervliet, New York

Monitoring Point	Date	Time (24hr)	Injection Phase	DTW (feet)	Monitoring Well Headspace Readings					Groundwater Readings (FES)				
					Vacuum (in/H ² O)	PID (ppmv)	LEL (%)	O ₂ (%)	CO ₂ (%)	DO (mg/L)	Sp. Cond. (µS/Cm)	ORP (mV)	pH (pH Units)	Temp (°C)
MP-37	6/6/2022	12:00 PM	Baseline	10.13	0.0	2.3	0	17.6	3.6	1.86	814	-58.0	6.57	16.63
	6/7/2022	1:42 PM	MFR	10.08	0.75	394.7	>100	OR	6.0	2.89	789	-93.5	6.68	17.73
	6/8/2022	8:06 AM	MFR	NM	12.0	1,600 R	>100	OR	14.8	NM	NM	NM	NM	NM
	6/8/2022	1:22 PM	MFR	NM	18.0	650 R	>100	OR	7.6	NM	NM	NM	NM	NM
	6/9/2022	9:16 AM	MFR	10.06	0.5	529.3	>100	OR	9.6	12.00	17,990	137.1	7.28	18.00
	6/9/2022	1:15 PM	MFR	NM	6.0	2,000 R	>100	OR	7.9	NM	NM	NM	NM	NM
	6/10/2022	9:09 AM	MFR	NM	7.5	1,599 R	>100	OR	7.8	NM	NM	NM	NM	NM
	6/13/2022	8:08 AM	MFR	10.12	0.0	205.3	47	OR	13.4	3.69	7,323	2.7	7.10	19.09
	6/13/2022	2:08 PM	MFR	10.11	0.25	413.0	21	OR	10.7	13.46	19,330	77.8	7.03	20.10
	6/14/2022	7:24 AM	MFR	10.13	0.0	517.1 R	>100	OR	16.0	7.10	11,240	22.1	6.96	19.20
	6/14/2022	12:56 PM	Persulfate*	10.10	0.0	22.8	>100	OR	17.6	8.52	33,490	50.4	12.17	21.11
	6/15/2022	7:25 AM	Persulfate	10.14	0.0	324.4 R	82	OR	0.3	8.40	31,530	138.9	12.10	19.51
	6/15/2022	1:37 PM	Persulfate	10.11	0.0	250.0 R	30	OR	0.0	8.34	157,000	320.3	12.68	20.95
	6/16/2022	7:21 AM	Persulfate	10.09	0.0	305.0 R	55	OR	0.0	6.98	28,520	192.4	12.48	20.36
6/16/2022	12:32 PM	Persulfate	10.07	0.0	200 R	23	OR	0.0	6.96	130,200	342.1	12.77	22.02	
6/17/2022	7:28 AM	Post-Injection	10.08	0.0	310 R	>100	OR	0.0	5.06	24,930	189.1	12.31	20.74	
MP-38	6/6/2022	8:49 AM	Baseline	10.07	0.0	2.7	0	17.1	3.2	3.48	890	-24.7	6.44	17.20
	6/7/2022	1:31 PM	MFR	10.04	0.0	92.4	>100	2.4	12.3	3.07	846	-53.4	6.41	17.89
	6/8/2022	7:54 AM	MFR	9.94	0.1	87.6	>100	0.0	16.3	3.49	824	-54.8	6.17	18.16
	6/8/2022	1:13 PM	MFR	9.89	0.05	175 R	>100	0.4	21.0	3.59	950	-53.4	6.50	18.61
	6/9/2022	9:04 AM	MFR	10.07	0.05	0.0	>100	3.5	19.5	2.72	674	-36.3	6.45	17.87
	6/9/2022	1:02 PM	MFR	10.08	0.0	0.2	>100	10.5	8.9	4.02	730	-49.1	6.51	17.74
	6/10/2022	8:57 AM	MFR	9.83	0.0	7.6	>100	0.4	15.7	4.82	1,982	-53.2	6.53	18.10
	6/13/2022	7:58 AM	MFR	10.11	0.0	307.6	>100	0.7	15.1	3.38	1,215	-51.7	6.51	18.66
	6/13/2022	1:54 PM	MFR	10.09	0.0	214.7	>100	0.2	19.2	4.61	721	-42.4	6.36	18.04
	6/14/2022	7:18 AM	MFR	10.15	0.0	394.7	>100	OR	18.3	3.95	707	-24.0	6.36	17.62
	6/14/2022	12:50 PM	Persulfate*	10.10	0.0	264.9	>100	5.5	14.3	4.38	714	-30.1	6.42	18.23
	6/15/2022	7:19 AM	Persulfate	10.14	0.0	185.4 R	>100	0.7	18.3	4.62	748	-11.2	6.40	17.54
	6/15/2022	1:30 PM	Persulfate	10.08	0.0	133.1	>100	0.5	19.2	4.88	791	-22.6	6.40	18.83
	6/16/2022	7:38 AM	Persulfate	10.10	0.0	158.3 R	>100	2.7	15.9	4.05	785	3.1	6.44	18.46
6/16/2022	12:24 PM	Persulfate	10.06	0.0	137.0	>100	0.0	19.6	4.40	760	28.2	6.43	18.24	
6/17/2022	7:21 AM	Post-Injection	10.07	0.0	102 R	>100	1.3	17.4	4.35	740	65.9	6.41	18.36	

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June 2022 Groundwater/Vapor Field Monitoring Data
Former Norton/Nashua
Watervliet, New York

Monitoring Point	Date	Time (24hr)	Injection Phase	DTW (feet)	Monitoring Well Headspace Readings					Groundwater Readings (FES)				
					Vacuum (in/H ² O)	PID (ppmv)	LEL (%)	O ₂ (%)	CO ₂ (%)	DO (mg/L)	Sp. Cond. (µS/Cm)	ORP (mV)	pH (pH Units)	Temp (°C)
MP-39	6/6/2022	10:28 AM	Baseline	10.07	0.0	211.0	0	19.2	0.7	4.24	1,417	-126.7	7.58	19.66
	6/7/2022	2:44 PM	MFR	10.07	0.0	1.3	10	20.3	0.5	2.08	1,352	-126.6	7.65	19.92
	6/8/2022	9:08 AM	MFR	10.03	0.3	295.2	17	19.6	0.7	1.94	1,255	-221.8	7.61	17.17
	6/8/2022	2:07 PM	MFR	10.00	0.0	433.4	>100	20.6	0.4	1.65	1,386	182.4	7.56	16.52
	6/9/2022	10:52 AM	MFR	10.02	0.0	287.3	15	19.1	0.3	1.93	1,210	-283.2	6.92	15.89
	6/9/2022	2:41 PM	MFR	10.01	0.0	298.2	21	23.2	0.2	2.60	1,418	-290.6	6.98	15.31
	6/10/2022	10:27 AM	MFR	10.02	0.0	20.8	12	20.9	0.0	4.19	2,626	-31.2	7.35	17.29
	6/13/2022	9:30 AM	MFR	10.08	0.0	78.7	4	21.2	0.0	2.04	2,092	-166.6	7.62	16.78
	6/13/2022	3:19 PM	MFR	10.10	0.0	334.8	7	21.9	0.1	1.90	1,248	-180.0	7.55	18.38
	6/14/2022	8:42 AM	MFR	10.10	0.0	159.4	4	22.6	0.6	4.35	1,266	-120.8	7.52	17.40
	6/14/2022	1:58 PM	Persulfate*	10.08	0.0	342.4	8	22.2	0.6	4.69	1,293	-121.2	7.59	19.35
	6/15/2022	8:04 AM	Persulfate	10.10	0.0	8.4 R	0	22.5	0.9	3.58	1,384	-140.4	7.53	17.78
	6/15/2022	2:37 PM	Persulfate	10.04	0.0	55.2	2	22.4	0.7	3.39	2,398	189.4	9.41	17.76
	6/16/2022	8:53 AM	Persulfate	8.48	0.0	44.5	1	21.9	0.3	2.86	1,616	63.9	7.95	17.79
6/16/2022	1:33 PM	Persulfate	10.03	0.0	21.1	2	21.3	0.0	3.98	1,649	87.9	8.07	18.24	
6/17/2022	8:55 AM	Post-Injection	10.06	0.0	4.0	0	21.2	0.7	3.32	1,393	-86.5	7.33	18.48	
MW-17	6/6/2022	8:37 AM	Baseline	9.85	0.0	1.1	0	18.8	1.7	3.97	584	-11.3	6.22	17.28
	6/7/2022	1:28 PM	MFR	9.27	0.0	1.0	0	5.6	10.7	3.65	479	-29.7	6.28	19.80
	6/8/2022	7:49 AM	MFR	9.60	0.0	0.5	0	7.2	9.6	3.28	449	-25.1	6.38	18.23
	6/8/2022	1:09 PM	MFR	9.51	0.0	279.7	6	8.7	85.0	3.98	473	-46.7	6.15	19.15
	6/9/2022	9:00 AM	MFR	8.23	0.0	0.0	1	7.6	9.0	3.35	440	-32.8	6.48	18.12
	6/9/2022	12:55 PM	MFR	10.12	0.0	0.0	17	4.4	13.2	5.09	876	-41.1	6.57	18.27
	6/10/2022	8:50 AM	MFR	8.40	0.0	379.2	4	7.9	11.3	6.42	582	-55.3	7.09	18.25
	6/13/2022	7:53 AM	MFR	9.83	0.0	28.8	0	4.1	12.5	2.71	1,056	-52.0	6.42	18.78
	6/13/2022	1:49 PM	MFR	9.10	0.0	150 R	2	8.9	8.9	3.78	NM	-44.1	6.26	18.71
	6/14/2022	7:09 AM	MFR	9.80	0.0	49.2 R	0	8.6	8.3	3.99	410	-25.1	6.24	17.70
	6/16/2022	7:15 AM	Persulfate	9.82	0.0	0.0	1	7.9	9.5	4.97	499	-7.0	6.37	18.56
	6/16/2022	12:03 PM	Persulfate	9.77	0.0	12.4	1	11.7	6.9	4.14	497	-50.4	6.50	18.58
	6/17/2022	7:08 AM	Post-Injection	9.80	0.0	0.0	0	20.9	0.1	4.30	452	12.2	6.39	18.68

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Monitoring Point	Date	Time (24hr)	Injection Phase	DTW (feet)	Monitoring Well Headspace Readings					Groundwater Readings (FES)				
					Vacuum (in/H ² O)	PID (ppmv)	LEL (%)	O ₂ (%)	CO ₂ (%)	DO (mg/L)	Sp. Cond. (µS/Cm)	ORP (mV)	pH (pH Units)	Temp (°C)
MW-20	6/6/2022	9:11 AM	Baseline	9.97	0.0	1.6	0	18.7	1.4	1.86	1,129	-90.3	6.60	14.88
	6/7/2022	1:55 PM	MFR	9.85	0.2	931.0	>100	8.3	10.1	2.66	1,099	-93.5	6.62	15.22
	6/8/2022	8:14 AM	MFR	9.83	0.0	196.5	>100	OR	14.1	2.97	1,052	-76.7	6.67	15.88
	6/8/2022	1:31 PM	MFR	9.83	0.0	349.9	>100	OR	13.0	3.13	1,070	-66.6	6.65	14.87
	6/9/2022	9:32 AM	MFR	9.97	0.0	680.5	>100	OR	13.8	2.76	1,076	-52.6	6.63	15.69
	6/9/2022	1:30 PM	MFR	9.84	0.0	688.1	>100	OR	13.9	5.50	1,047	-53.9	6.72	14.71
	6/10/2022	9:23 AM	MFR	9.83	0.0	672.3	>100	OR	14.7	4.82	2,165	-55.4	6.89	14.99
	6/13/2022	8:26 AM	MFR	9.95	0.0	161.9	25	OR	15.7	3.04	1,513	-27.6	6.49	15.24
	6/13/2022	2:20 PM	MFR	9.94	0.0	475.0	25	OR	13.0	5.24	997	-75.0	6.41	15.59
	6/14/2022	7:34 AM	MFR	9.96	0.0	400.2	18	OR	13.3	4.60	938	-2.5	6.44	15.72
	6/14/2022	1:07 PM	Persulfate*	9.90	0.0	272.5	31	OR	10.9	4.73	968	-46.3	6.55	15.72
	6/15/2022	8:28 AM	Persulfate	9.95	0.0	83.1	5	OR	9.6	4.01	944	-6.1	6.54	15.92
	6/15/2022	1:48 PM	Persulfate	9.87	0.0	139.4	4	24.1	2.7	3.87	1,079	87.3	7.46	15.66
	6/16/2022	7:46 AM	Persulfate	9.93	0.0	81.9	7	OR	11.7	5.03	944	53.2	6.46	16.27
6/16/2022	12:41 PM	Persulfate	9.87	0.0	63.7	3	OR	11.4	4.94	1,071	247.2	7.33	15.72	
6/17/2022	7:41 AM	Post-Injection	9.90	0.0	25 R	3	OR	12.3	4.61	941	182.6	6.67	15.76	
MW-22	6/6/2022	9:04 AM	Baseline	9.68	0.0	2.1	0	16.5	2.9	1.70	549	-38.6	6.54	16.08
	6/7/2022	1:47 PM	MFR	9.48	0.0	1,476.0	>100	5.9	13.0	2.21	548	-62.8	6.58	16.78
	6/8/2022	8:09 AM	MFR	9.45	0.0	776.8	>100	22.0	3.9	2.63	541	-19.9	6.63	17.20
	6/8/2022	1:26 PM	MFR	9.48	0.15	127.8	>100	13.9	19.0	4.68	637	-10.7	6.54	17.10
	6/9/2022	9:25 AM	MFR	9.86	0.0	980.6	>100	OR	15.3	3.49	1,362	-20.6	6.55	16.59
	6/9/2022	1:25 PM	MFR	9.59	0.0	1,182 R	>100	OR	14.0	3.52	598	-49.2	6.62	17.21
	6/10/2022	9:15 AM	MFR	NM	0.0	1,300 R	>100	22.1	5.6	NM	NM	NM	NM	NM
	6/13/2022	8:20 AM	MFR	9.66	0.0	339.5	>100	13.2	15.7	2.08	1,019	-44.4	6.57	16.38
	6/13/2022	2:13 PM	MFR	9.64	0.0	472 R	94	OR	15.5	3.60	1,297	-2.1	6.53	17.18
	6/14/2022	7:28 AM	MFR	9.68	0.0	498.1	41	21.3	7.1	3.53	827	-8.6	6.48	16.89
	6/14/2022	1:01 PM	Persulfate*	9.62	0.0	448.9	>100	OR	12.2	3.08	1,216	25.1	6.97	17.39
	6/15/2022	7:37 AM	Persulfate	9.67	0.0	223.7 R	39	OR	15.4	3.57	1,285	86.0	6.94	17.57
	6/15/2022	1:42 PM	Persulfate	9.59	0.0	250.0 R	20	22.3	10.7	3.60	3,961	187.5	11.76	17.80
	6/16/2022	8:25 AM	Persulfate	9.65	0.0	175.0 R	0	21.7	8.3	3.56	745	5.0	6.47	17.14
6/16/2022	1:27 PM	Persulfate	9.59	0.0	143.2	5	21.1	5.9	3.70	2,621	296.2	10.49	17.64	
6/17/2022	7:35 AM	Post-Injection	9.62	0.0	33.9 R	2	20.4	3.4	3.14	1,081	243.2	7.08	17.47	

Table 2a
Summary of In-Situ Chemical Oxidation (ISCO) Activities
June 2022 Groundwater/Vapor Field Monitoring Data
Former Norton/Nashua
Watervliet, New York

Monitoring Point	Date	Time (24hr)	Injection Phase	DTW (feet)	Monitoring Well Headspace Readings					Groundwater Readings (FES)				
					Vacuum (in/H ² O)	PID (ppmv)	LEL (%)	O ₂ (%)	CO ₂ (%)	DO (mg/L)	Sp. Cond. (µS/Cm)	ORP (mV)	pH (pH Units)	Temp (°C)
MW-25	6/7/2022	7:35 AM	Baseline	8.26	0.0	0.0	0	19.7	0.8	3.81	1,213	14.9	6.61	15.45
	6/7/2022	2:55 PM	MFR	NM	0.0	37.1	13	14.3	3.0	NM	NM	NM	NM	NM
	6/8/2022	9:22 AM	MFR	8.04	-1.0	623.7	26	18.2	1.0	3.05	1,263	-20.5	6.82	16.84
	6/8/2022	2:17 PM	MFR	7.95	0.05	566.7	29	16.6	1.9	NM	NM	NM	NM	NM
	6/9/2022	11:12 AM	MFR	8.04	-0.05	517.8	19	17.1	0.5	3.62	1,318	-228.5	6.27	15.92
	6/9/2022	2:54 PM	MFR	8.05	-0.1	542.8	18	0.3	0.7	NM	NM	NM	NM	NM
	6/10/2022	10:46 AM	MFR	8.07	0.15	583.2	42	28.2	0.2	3.98	173	-305.5	6.32	16.95
	6/13/2022	10:20 AM	MFR	8.05	0.0	82.9	2	20.7	0.3	NM	NM	NM	NM	NM
	6/13/2022	3:36 PM	MFR	8.08	0.0	83.5	6	19.9	0.8	4.11	1,239	2.1	6.63	19.83
	6/14/2022	9:02 AM	MFR	8.12	0.0	84.0	21	15.0	3.3	4.10	1,229	16.5	6.58	17.84
	6/14/2022	2:12 PM	Persulfate*	8.10	0.0	156.7	23	15.1	3.2	NM	NM	NM	NM	NM
	6/15/2022	8:21 AM	Persulfate	8.18	0.0	225.0 R	18	11.8	5.1	4.12	1,206	40.8	6.55	17.40
	6/15/2022	2:50 PM	Persulfate	8.05	0.0	140.4 R	14	13.5	4.0	NM	NM	NM	NM	NM
6/16/2022	9:07 AM	Persulfate	8.15	0.0	94.9	15	10.8	6.0	NM	NM	NM	NM	NM	
6/16/2022	1:47 PM	Persulfate	7.88	0.0	78.8 R	15	12.4	4.9	3.94	1,244	184.1	6.72	17.89	
MW-26	6/6/2022	1:22 PM	Baseline	8.35	0.0	10.4	49	3.9	8.2	3.87	1,566	-80.1	6.69	17.23
	6/7/2022	2:52 PM	MFR	NM	0.0	25.4	62	4.3	8.5	NM	NM	NM	NM	NM
	6/8/2022	9:17 AM	MFR	8.07	0.0	565.3	33	2.4	9.9	5.25	144	-48.5	6.50	17.56
	6/8/2022	2:14 PM	MFR	8.18	0.05	703.0	>100	4.7	11.8	NM	NM	NM	NM	NM
	6/9/2022	11:06 AM	MFR	8.06	0.0	492.8	22	2.2	8.1	4.83	149	-189.7	6.30	16.10
	6/9/2022	2:51 PM	MFR	8.05	0.0	512.3	21	5.8	9.3	NM	NM	NM	NM	NM
	6/10/2022	10:39 AM	MFR	8.08	0.0	473.8	25	1.9	12.3	4.83	308	-211.8	6.28	17.32
	6/13/2022	10:16 AM	MFR	8.04	0.0	84.6	5	21.2	0.1	NM	NM	NM	NM	NM
	6/13/2022	3:32 PM	MFR	8.14	0.0	436.5	5	21.9	2.8	4.48	1,137	-32.1	6.82	20.37
	6/14/2022	8:57 AM	MFR	8.25	0.0	234.2 R	3	21.5	9.1	5.29	1,218	-13.6	6.73	18.01
	6/14/2022	2:08 PM	Persulfate*	8.12	0.0	343.2	7	20.1	11.9	NM	NM	NM	NM	NM
	6/15/2022	8:16 AM	Persulfate	8.25	0.0	40.0 R	0	19.7	11.8	4.09	1,299	-0.6	6.64	17.38
	6/15/2022	2:47 PM	Persulfate	8.10	0.0	64.4	2	19.6	8.4	NM	NM	NM	NM	NM
	6/16/2022	9:03 AM	Persulfate	8.25	0.0	41.6	1	18.3	12.6	NM	NM	NM	NM	NM
6/16/2022	1:43 PM	Persulfate	8.14	0.0	75 R	3	18.6	8.6	4.17	1,370	138.1	6.93	18.49	

Table 2a
Summary of In-Situ Chemical Oxidation (ISCO) Activities
June 2022 Groundwater/Vapor Field Monitoring Data
Former Norton/Nashua
Watervliet, New York

Monitoring Point	Date	Time (24hr)	Injection Phase	DTW (feet)	Monitoring Well Headspace Readings					Groundwater Readings (FES)				
					Vacuum (in/H ² O)	PID (ppmv)	LEL (%)	O ₂ (%)	CO ₂ (%)	DO (mg/L)	Sp. Cond. (µS/Cm)	ORP (mV)	pH (pH Units)	Temp (°C)
MW-27	6/6/2022	1:27 PM	Baseline	8.51	0.0	47.9	7	17.3	2.1	2.68	1,946	-88.4	6.56	16.73
	6/7/2022	2:49 PM	MFR	NM	0.3	0.4	>100	13.0	5.0	NM	NM	NM	NM	NM
	6/8/2022	9:13 AM	MFR	8.38	-0.5	147.7	52	20.6	0.0	5.08	140	-124.5	7.41	16.28
	6/8/2022	2:11 PM	MFR	8.42	0.0	160.6	>100	19.4	0.8	NM	NM	NM	NM	NM
	6/9/2022	10:59 AM	MFR	8.41	-0.05	136.2	63	20.7	0.1	5.02	132	-217.3	6.25	16.03
	6/9/2022	2:47 PM	MFR	8.37	-0.1	143.7	67	21.2	0.7	NM	NM	NM	NM	NM
	6/10/2022	10:34 AM	MFR	8.39	-0.1	111.7	58	12.3	0.9	3.27	157	-238.2	6.36	17.11
	6/13/2022	9:36 AM	MFR	8.45	0.0	378.6 R	3	20.9	0.4	NM	NM	NM	NM	NM
	6/13/2022	3:27 PM	MFR	8.47	0.0	396.8	9	20.6	0.9	2.95	378	-93.3	6.82	19.54
	6/14/2022	8:52 AM	MFR	8.48	0.0	51.6	22	18.3	2.8	3.62	434	-76.3	6.70	16.00
	6/14/2022	2:05 PM	Persulfate*	8.35	0.0	172.8	24	18.4	2.4	NM	NM	NM	NM	NM
	6/15/2022	8:12 AM	Persulfate	8.47	0.0	81.4	24	16.4	3.8	3.79	521	-85.90	6.79	17.37
	6/15/2022	2:44 PM	Persulfate	8.33	0.0	381.1	46	15.9	4.0	NM	NM	NM	NM	NM
6/16/2022	8:58 AM	Persulfate	10.10	0.0	70.6 R	>100	14.0	5.3	NM	NM	NM	NM	NM	
6/16/2022	1:39 PM	Persulfate	8.38	0.0	48.7	>100	14.4	4.8	4.00	673	-33.8	7.57	17.44	
MW-28	6/6/2022	10:15 AM	Baseline	9.38	0.0	1.8	0	20.3	0.3	1.30	5,309	-228.9	7.47	16.01
	6/7/2022	2:33 PM	MFR	9.14	0.2	1,168	>100	OR	6.8	3.87	5,372	-17.3	7.69	15.69
	6/8/2022	8:57 AM	MFR	8.65	0.3	77.4	3	22.5	0.6	10.15	5,205	-10.7	7.73	14.83
	6/8/2022	2:00 PM	MFR	8.85	0.3	1,502	>100	OR	6.5	6.25	5,371	-15.4	7.74	15.42
	6/9/2022	10:36 AM	MFR	9.20	0.45	12.1	>100	OR	4.3	4.34	5,803	-53.5	7.76	14.59
	6/9/2022	2:28 PM	MFR	9.01	0.1	14.8	>100	OR	7.3	3.40	5,988	-86.3	7.89	15.31
	6/10/2022	10:15 AM	MFR	8.75	1.7	1,333	>100	OR	12.6	15.26	8,873	154.8	7.36	16.02
	6/13/2022	9:18 AM	MFR	9.35	0.0	344.6	0	22.0	0.2	2.45	10,160	-19.8	7.27	16.61
	6/13/2022	3:09 PM	MFR	8.90	0.0	500 R	52	OR	1.7	22.78	9,595	287.5	7.27	19.40
	6/14/2022	8:29 AM	MFR	7.63	2.0	352.2 R	15	OR	2.9	17.22	7,312	151.2	7.24	22.18
	6/14/2022	1:50 PM	Persulfate*	8.34	0.0	290.0 R	22	OR	2.1	17.09	7,565	222.6	7.29	22.81
	6/15/2022	7:54 AM	Persulfate	9.05	0.0	18.8 R	0	OR	2.2	9.06	7,734	183.4	7.28	21.11
	6/15/2022	2:29 PM	Persulfate	7.99	0.0	8.6 R	1	21.2	0.0	13.94	35,400	243.5	12.31	24.28
	6/16/2022	8:44 AM	Persulfate	9.35	0.0	3.6	0	22.4	0.1	11.30	20,730	255.6	10.11	20.76
	6/16/2022	1:25 PM	Persulfate	9.10	0.0	0.0	1	21.4	0.0	10.48	20,800	313.0	9.76	22.56
6/17/2022	8:42 AM	Post-Injection	9.33	0.0	85 R	0	21.3	0.1	6.57	21,490	379.3	8.18	22.01	

Table 2a
Summary of In-Situ Chemical Oxidation (ISCO) Activities
June 2022 Groundwater/Vapor Field Monitoring Data
Former Norton/Nashua
Watervliet, New York

Monitoring Point	Date	Time (24hr)	Injection Phase	DTW (feet)	Monitoring Well Headspace Readings					Groundwater Readings (FES)				
					Vacuum (in/H ² O)	PID (ppmv)	LEL (%)	O ₂ (%)	CO ₂ (%)	DO (mg/L)	Sp. Cond. (µS/Cm)	ORP (mV)	pH (pH Units)	Temp (°C)
SVP-1	6/7/2022	PM	Baseline	---	0.0	0.0	NM	NM	NM	---	---	---	---	---
	6/7/2022	10:25 AM	MFR	---	NM	0.0	0	19.1	0.4	---	---	---	---	---
	6/13/2022	10:55 AM	MFR	---	0.0	8.1	0	18.1	1.6	---	---	---	---	---
	6/13/2022	3:23 PM	MFR	---	0.0	3.1	0	18.8	1.5	---	---	---	---	---
	6/14/2022	8:44 AM	MFR	---	0.0	0.0	0	17.9	1.7	---	---	---	---	---
	6/15/2022	8:08 AM	Persulfate	---	0.0	1.1	0	18.0	1.7	---	---	---	---	---
	6/15/2022	2:40 PM	Persulfate	---	0.0	0.0	0	17.8	1.6	---	---	---	---	---
	6/16/2022	9:10 AM	Persulfate	---	0.0	0.0	0	17.9	1.6	---	---	---	---	---
	6/16/2022	1:55 PM	Persulfate	---	0.0	0.0	0	17.8	1.5	---	---	---	---	---
	6/17/2022	8:59 AM	Post-Injection	---	0.0	0.0	0	18.7	1.3	---	---	---	---	---
SVP-3	6/7/2022	PM	Baseline	---	0.0	0.0	NM	NM	NM	---	---	---	---	---
	6/7/2022	10:35 AM	MFR	---	NM	0.0	0	18.4	1.7	---	---	---	---	---
	6/13/2022	10:47 AM	MFR	---	0.0	72.4	0	23.4	0.8	---	---	---	---	---
	6/13/2022	2:47 PM	MFR	---	0.0	12.9	3	23.0	0.7	---	---	---	---	---
	6/14/2022	9:07 AM	MFR	---	0.0	1.7	2	23.3	0.8	---	---	---	---	---
	6/15/2022	9:05 AM	Persulfate	---	0.0	0.0	0	23.9	0.8	---	---	---	---	---
	6/15/2022	2:16 PM	Persulfate	---	0.0	0.0	1	23.1	0.8	---	---	---	---	---
	6/16/2022	8:16 AM	Persulfate	---	0.0	0.0	0	23.6	0.8	---	---	---	---	---
	6/16/2022	1:08 PM	Persulfate	---	0.0	0.5	5	23.6	0.8	---	---	---	---	---
6/17/2022	8:17 AM	Post-Injection	---	0.0	0.0	0	22.9	0.8	---	---	---	---	---	

Notes:

1. DTW = Depth to Water; DO = dissolved oxygen; PID = Photoionization Detector; ORP = Oxidation Reduction Potential; OR = Over Range; LEL = lower explosive limit; O₂ = vapor-phase oxygen; CO₂ = vapor-phase carbon dioxide; mg/L = milligrams per liter; ppmv = parts per million by volume; "-" = not recorded; in/H₂O = inches of water
R = Rising PID reading; MFR = Modified Fenton's Reagent.
2. Field readings from select monitoring wells exhibiting elevated PID and/or LEL readings were not collected for health and safety reasons.
3. "*" = On June 14, 2022, persulfate injections started at 9:16 AM in the exterior and Building #61 interior injection areas and 11:43 AM in the MP-37 area.

Table 2b
Summary of In-Situ Chemical Oxidation (ISCO) Activities
June 2022 Groundwater/Vapor Field Monitoring Data
Former Norton/Nashua
Watervliet, New York

Monitoring Point	Date/Time	Groundwater Readings (ISOTEC)		
		Persulfate (mg/L)	Iron (mg/L)	H ₂ O ₂ (mg/L)
MP-24	6/7/22 9:00	ND	2.8	ND
	6/7/22 14:00	NS	23	3
	6/8/22 9:00	NS	30	3
	6/8/22 14:00	NS	46	3
	6/9/22 10:00	NS	36	6
	6/9/22 14:00	NS	44	3
	6/10/22 10:00	NS	36	5
	6/13/22 9:30	NS	31	6
	6/14/22 9:00	NS	30	15
	6/15/22 9:00	1225	24	80
6/16/22 9:00	>7000	30	125	
MP-25	6/7/22 9:00	ND	3	ND
	6/7/22 14:00	NS	90	2
	6/8/22 9:00	NS	96	12
	6/8/22 14:00	NS	198	25
	6/9/22 10:00	NS	88	5
	6/9/22 15:00	NS	80	2
	6/10/22 10:00	NS	100	275
	6/13/22 9:30	NS	6+0	12
	6/14/22 9:00	NS	36	20
	6/15/22 9:00	14	10	8
6/16/22 9:00	>7000	7	40	
MP-26	6/7/22 9:00	ND	1	ND
	6/7/22 14:00	NS	2	0.8
	6/8/22 9:00	NS	5	0.8
	6/9/22 10:00	NS	6	3
	6/9/22 14:00	NS	36	7
	6/13/22 9:30	NS	51	12
	6/14/22 9:00	NS	42	15
	6/15/22 9:00	>7000	7	150
	6/16/22 9:00	>7000	5	100

Table 2b
Summary of In-Situ Chemical Oxidation (ISCO) Activities
June 2022 Groundwater/Vapor Field Monitoring Data
Former Norton/Nashua
Watervliet, New York

Monitoring Point	Date/Time	Groundwater Readings (ISOTEC)		
		Persulfate (mg/L)	Iron (mg/L)	H ₂ O ₂ (mg/L)
MP-27	6/7/22 9:00	ND	4	ND
	6/7/22 14:00	NS	22	1.2
	6/9/22 10:00	NS	90	14
	6/13/22 9:30	NS	156	20
	6/14/22 9:00	NS	48	60
	6/15/22 9:00	1400	42	75
	6/16/22 9:00	5600	44	200
MP-28	6/7/22 9:00	ND	3.4	ND
	6/8/22 9:00	NS	4	3
	6/8/22 14:00	NS	75	>1000
	6/9/22 10:00	NS	84	600
	6/9/22 14:00	NS	420	140
	6/9/22 14:00	NS	100	60
	6/10/22 10:00	NS	296	60
	6/13/22 9:30	NS	92	4
	6/14/22 9:00	NS	76	6
	6/15/22 9:00	>7000	5	300
6/16/22 9:00	>7000	7	300	
MP-29	6/7/22 9:00	ND	2.4	ND
	6/8/22 9:00	NS	174	30
	6/8/22 14:00	NS	130	75
	6/9/22 10:00	NS	60	6
	6/13/22 9:30	NS	36	20
	6/14/22 9:00	NS	26	45
	6/15/22 9:00	>7000	16	200
	6/16/22 9:00	>7000	16	200
MP-30	6/7/22 9:00	ND	0.6	ND
	6/7/22 14:00	NS	1.8	INT
	6/8/22 9:00	NS	2	INT
	6/8/22 14:00	NS	1.8	INT
	6/9/22 10:00	NS	2.2	INT
	6/9/22 14:00	NS	2.6	INT
	6/10/22 10:00	NS	2.2	ND
	6/13/22 9:30	NS	7.8	1.6
	6/14/22 9:00	NS	6.8	1.2
	6/15/22 9:00	140	3	5
	6/16/22 9:00	105	4	3

Table 2b
Summary of In-Situ Chemical Oxidation (ISCO) Activities
June 2022 Groundwater/Vapor Field Monitoring Data
Former Norton/Nashua
Watervliet, New York

Monitoring Point	Date/Time	Groundwater Readings (ISOTEC)		
		Persulfate (mg/L)	Iron (mg/L)	H ₂ O ₂ (mg/L)
MP-31	6/7/22 9:00	ND	1.4	ND
	6/7/22 14:00	NS	4	ND
	6/8/22 9:00	NS	3.6	ND
	6/8/22 14:00	NS	3.2	ND
	6/9/22 10:00	NS	3.6	ND
	6/9/22 14:00	NS	3	ND
	6/10/22 10:00	NS	3	ND
	6/13/22 9:30	NS	3.4	1.2
	6/14/22 9:00	NS	3.4	0.8
	6/15/22 9:00	21	3.6	2
6/16/22 9:00	70	3.2	2	
MP-32	6/7/22 9:00	ND	10.8	ND
	6/7/22 14:00	NS	12	0.6
	6/9/22 10:00	NS	46	8
	6/9/22 14:00	NS	120	14
	6/13/22 9:30	NS	124	30
	6/14/22 9:00	NS	144	18
	6/15/22 9:00	>7000	76	100
	6/16/22 9:00	>7000	80	100
MW-28	6/7/22 9:00	ND	1.8	ND
	6/7/22 14:00	NS	1.6	1.6
	6/8/22 9:00	NS	2.6	2
	6/8/22 14:00	NS	10	8
	6/9/22 10:00	NS	28	10
	6/9/22 14:00	NS	38	5
	6/10/22 10:00	NS	160	50
	6/13/22 9:30	NS	90	25
	6/14/22 9:00	NS	24	60
	6/15/22 9:00	35	18	10
	6/16/22 9:00	>7000	10	40

Notes:

1. mg/L = milligrams per liter; ND = Not Detected; NS = Not Sampled.
INT = Interference.
2. Field readings from select monitoring wells exhibiting elevated PID and/or LEL readings were not collected in order to minimize indoor air/worker breathing zone concerns.

Table 3
Summary of In-Situ Chemical Oxidation (ISCO) Activities
June 2022 Indoor Air (Health and Safety) Field Monitoring Data
Former Norton/Nashua
Watervliet, New York

Monitoring Point	Date	Time (24hr)	Injection Phase	PID (ppm)
BLDG #58 Exclusion Zone	6/7/2022	11:00 AM	MFR	0.4
	6/7/2022	11:52 AM	MFR	0.2
	6/7/2022	12:33 PM	MFR	0.2
	6/7/2022	1:03 PM	MFR	0.3
	6/7/2022	1:17 PM	MFR	0.4
	6/7/2022	3:07 PM	MFR	1.0 - 1.8
	6/7/2022	3:40 PM	MFR	0.7 - 0.8
	6/7/2022	3:52 PM	MFR	0.7 - 0.8
	6/8/2022	7:45 AM	MFR	0.2 - 0.3
	6/8/2022	9:45 AM	MFR	0.1 - 0.5
	6/8/2022	10:05 AM	MFR	0.1 - 0.3
	6/8/2022	10:26 AM	MFR	0.1 - 0.4
	6/8/2022	10:51 AM	MFR	0.1 - 0.4
	6/8/2022	11:24 AM	MFR	0.1 - 0.4
	6/8/2022	11:42 AM	MFR	0.0 - 0.3
	6/8/2022	12:22 PM	MFR	0.1 - 0.3
	6/9/2022	7:51 AM	MFR	0.0
	6/9/2022	8:15 AM	MFR	0.0
	6/9/2022	8:45 AM	MFR	0.0
	6/9/2022	12:25 PM	MFR	0.0
	6/9/2022	3:06 PM	MFR	0.0 - 0.3
	6/9/2022	3:37 PM	MFR	0.0 - 0.2
	6/10/2022	7:26 AM	MFR	0.0
	6/10/2022	7:56 AM	MFR	0.1 - 0.3
	6/10/2022	8:26 AM	MFR	0.0 - 0.2
	6/10/2022	11:07 AM	MFR	0.1 - 0.3
	6/10/2022	11:47 AM	MFR	0.0 - 0.2
	6/10/2022	12:16 PM	MFR	0.1 - 0.3
	6/10/2022	12:51 PM	MFR	0.0 - 0.2
	6/13/2022	11:11 AM	MFR	0.0
	6/13/2022	11:52 AM	MFR	0.0
	6/13/2022	12:29 PM	MFR	0.0
	6/13/2022	1:31 PM	MFR	0.0
	6/13/2022	3:49 PM	MFR	0.0
	6/14/2022	9:26 AM	MFR	0.0
	6/14/2022	2:19 PM	Persulfate	0.0
	6/15/2022	9:32 AM	Persulfate	0.0
	6/15/2022	2:56 PM	Persulfate	0.0
	6/16/2022	10:43 AM	Persulfate	0.0

Table 3
Summary of In-Situ Chemical Oxidation (ISCO) Activities
June 2022 Indoor Air (Health and Safety) Field Monitoring Data
Former Norton/Nashua
Watervliet, New York

Monitoring Point	Date	Time (24hr)	Injection Phase	PID (ppm)
BLDG #58 Forklift Path	6/7/2022	11:35 AM	MFR	0.3
	6/7/2022	3:12 PM	MFR	1.0 - 1.5
	6/7/2022	3:38 PM	MFR	0.7 - 0.8
	6/7/2022	3:52 PM	MFR	0.7 - 0.8
	6/8/2022	7:44 AM	MFR	0.2 - 0.3
	6/8/2022	9:41 AM	MFR	0.0 - 0.4
	6/8/2022	10:04 AM	MFR	0.2 - 0.6
	6/8/2022	10:24 AM	MFR	0.0 - 0.1
	6/8/2022	10:49 AM	MFR	0.1 - 0.2
	6/8/2022	11:22 AM	MFR	0.1 - 0.3
	6/8/2022	11:41 AM	MFR	0.0
	6/8/2022	12:20 PM	MFR	0.0
	6/9/2022	7:49 AM	MFR	0.0
	6/9/2022	8:13 AM	MFR	0.0
	6/9/2022	8:43 AM	MFR	0.0
	6/9/2022	12:24 PM	MFR	0.0
	6/9/2022	3:04 PM	MFR	0.0
	6/9/2022	3:34 PM	MFR	0.0
	6/10/2022	7:24 AM	MFR	0.0
	6/10/2022	7:54 AM	MFR	0.0
	6/10/2022	8:24 AM	MFR	0.0
	6/10/2022	11:04 AM	MFR	0.0 - 0.2
	6/10/2022	11:45 AM	MFR	0.0
	6/10/2022	12:14 PM	MFR	0.0
	6/10/2022	12:49 PM	MFR	0.0
	6/13/2022	11:10 AM	MFR	0.0
	6/13/2022	11:52 AM	MFR	0.0
	6/13/2022	12:28 PM	MFR	0.0
	6/13/2022	1:31 PM	MFR	0.0
	6/13/2022	3:48 PM	MFR	0.0
	6/14/2022	9:24 AM	MFR	0.0
	6/14/2022	2:18 PM	Persulfate	0.0
	6/15/2022	9:33 AM	Persulfate	0.0
6/15/2022	2:57 PM	Persulfate	0.0	
6/16/2022	10:43 AM	Persulfate	0.0	

Table 3
Summary of In-Situ Chemical Oxidation (ISCO) Activities
June 2022 Indoor Air (Health and Safety) Field Monitoring Data
Former Norton/Nashua
Watervliet, New York

Monitoring Point	Date	Time (24hr)	Injection Phase	PID (ppm)
BLDG #61 Exclusion Zone	6/7/2022	10:48 AM	MFR	0.3
	6/7/2022	11:50 AM	MFR	0.2
	6/7/2022	12:30 PM	MFR	0.4
	6/7/2022	1:00 PM	MFR	0.2
	6/7/2022	1:15 PM	MFR	0.5
	6/7/2022	3:00 PM	MFR	0.9 - 1.2
	6/7/2022	3:37 PM	MFR	0.7 - 0.8
	6/7/2022	3:48 PM	MFR	0.7 - 0.8
	6/8/2022	7:42 AM	MFR	0.2 - 0.3
	6/8/2022	9:38 AM	MFR	0.0 - 0.1
	6/8/2022	10:00 AM	MFR	0.0 - 0.2
	6/8/2022	10:22 AM	MFR	0.0 - 0.2
	6/8/2022	10:47 AM	MFR	0.0 - 0.2
	6/8/2022	11:19 AM	MFR	0.0 - 0.2
	6/8/2022	11:43 AM	MFR	0.0
	6/8/2022	12:17 PM	MFR	0.0
	6/9/2022	7:47 AM	MFR	0.0
	6/9/2022	8:12 AM	MFR	0.0
	6/9/2022	8:42 AM	MFR	0.0
	6/9/2022	12:22 PM	MFR	0.0
	6/9/2022	3:02 PM	MFR	0.0
	6/9/2022	3:32 PM	MFR	0.0
	6/10/2022	7:22 AM	MFR	0.0 - 0.1
	6/10/2022	7:52 AM	MFR	0.0 - 0.2
	6/10/2022	8:22 AM	MFR	0.0 - 0.3
	6/10/2022	11:02 AM	MFR	0.1 - 0.4
	6/10/2022	11:42 AM	MFR	0.1 - 0.3
	6/10/2022	12:12 PM	MFR	0.0 - 0.2
	6/10/2022	12:47 PM	MFR	0.0
	6/13/2022	11:12 AM	MFR	0.0
	6/13/2022	11:51 AM	MFR	0.0
	6/13/2022	12:27 PM	MFR	0.0
	6/13/2022	1:03 PM	MFR	0.0
	6/13/2022	3:50 PM	MFR	0.0
	6/14/2022	9:24 AM	MFR	0.0
	6/14/2022	2:20 PM	Persulfate	0.0
	6/15/2022	9:33 AM	Persulfate	0.0
	6/15/2022	2:57 PM	Persulfate	0.0
	6/16/2022	10:42 AM	Persulfate	0.0
	6/16/2022	10:42 AM	Persulfate	0.0

Table 3
Summary of In-Situ Chemical Oxidation (ISCO) Activities
June 2022 Indoor Air (Health and Safety) Field Monitoring Data
Former Norton/Nashua
Watervliet, New York

Monitoring Point	Date	Time (24hr)	Injection Phase	PID (ppm)
BLDG #61 Forklift Path	6/7/2022	11:30 AM	MFR	0.2
	6/7/2022	3:05 PM	MFR	0.9 - 1.4
	6/7/2022	3:35 PM	MFR	0.7 - 0.8
	6/7/2022	3:51 PM	MFR	0.7 - 0.8
	6/8/2022	7:40 AM	MFR	0.2 - 0.3
	6/8/2022	9:35 AM	MFR	0.0 - 0.1
	6/8/2022	10:00 AM	MFR	0.0 - 0.2
	6/8/2022	10:10 AM	MFR	0.0 - 0.2
	6/8/2022	10:45 AM	MFR	0.0 - 0.1
	6/8/2022	11:17 AM	MFR	0.0 - 0.1
	6/8/2022	11:40 AM	MFR	0.0
	6/8/2022	12:15 PM	MFR	0.0 - 0.1
	6/9/2022	7:45 AM	MFR	0.0
	6/9/2022	8:10 AM	MFR	0.0
	6/9/2022	8:40 AM	MFR	0.0
	6/9/2022	12:20 PM	MFR	0.0
	6/9/2022	3:00 PM	MFR	0.0
	6/9/2022	3:30 PM	MFR	0.0
	6/10/2022	7:20 AM	MFR	0.0
	6/10/2022	7:50 AM	MFR	0.0
	6/10/2022	8:20 AM	MFR	0.0
	6/10/2022	11:00 AM	MFR	0.0
	6/10/2022	11:40 AM	MFR	0.0
	6/10/2022	12:10 PM	MFR	0.0
	6/10/2022	12:45 PM	MFR	0.0
	6/13/2022	11:09 AM	MFR	0.0
	6/13/2022	11:51 AM	MFR	0.0
	6/13/2022	12:27 PM	MFR	0.0
	6/13/2022	1:29 PM	MFR	0.0
	6/13/2022	3:47 PM	MFR	0.0
	6/14/2022	9:23 AM	MFR	0.0
	6/14/2022	2:17 PM	Persulfate	0.0
	6/15/2022	9:33 AM	Persulfate	0.0
	6/15/2022	2:55 PM	Persulfate	0.0
6/16/2022	10:40 AM	Persulfate	0.0	

Table 3
Summary of In-Situ Chemical Oxidation (ISCO) Activities
June 2022 Indoor Air (Health and Safety) Field Monitoring Data
Former Norton/Nashua
Watervliet, New York

Monitoring Point	Date	Time (24hr)	Injection Phase	PID (ppm)
Durham Bus	6/7/2022	11:05 AM	MFR	0.2
	6/7/2022	11:45 AM	MFR	0.3
	6/7/2022	11:58 AM	MFR	0.3
	6/7/2022	12:28 PM	MFR	0.2
	6/7/2022	1:06 PM	MFR	0.2
	6/7/2022	1:19 PM	MFR	0.2
	6/7/2022	3:22 PM	MFR	0.2
	6/7/2022	3:42 PM	MFR	0.2
	6/7/2022	3:53 PM	MFR	0.2
	6/8/2022	7:30 AM	MFR	0.4
	6/8/2022	9:47 AM	MFR	0.0
	6/8/2022	10:08 AM	MFR	0.0
	6/8/2022	10:30 AM	MFR	0.0
	6/8/2022	10:55 AM	MFR	0.0 - 0.2
	6/8/2022	11:27 AM	MFR	0.0
	6/8/2022	11:46 AM	MFR	0.0
	6/8/2022	12:26 PM	MFR	0.0
	6/9/2022	7:53 AM	MFR	0.0
	6/9/2022	8:17 AM	MFR	0.0
	6/9/2022	8:48 AM	MFR	0.0
	6/9/2022	12:28 PM	MFR	0.0
	6/9/2022	3:10 PM	MFR	0.0
	6/9/2022	3:41 PM	MFR	0.1
	6/10/2022	7:33 AM	MFR	NM
	6/10/2022	8:00 AM	MFR	NM
	6/10/2022	8:34 AM	MFR	0.1
	6/10/2022	11:15 AM	MFR	0.1
	6/10/2022	11:52 AM	MFR	0.0 - 0.1
	6/10/2022	12:23 PM	MFR	0.0
	6/10/2022	12:57 PM	MFR	0.0
	6/13/2022	11:00 AM	MFR	0.0 - 1.4
	6/13/2022	11:53 AM	MFR	0.0
	6/13/2022	12:31 PM	MFR	0.0
	6/13/2022	1:33 PM	MFR	0.0
	6/13/2022	3:45 PM	MFR	0.0
	6/14/2022	9:22 AM	MFR	0.0
	6/14/2022	2:21 PM	Persulfate	0.0
	6/15/2022	9:35 AM	Persulfate	0.0
	6/15/2022	3:00 PM	Persulfate	0.0
	6/16/2022	10:46 AM	Persulfate	0.0

Table 3
Summary of In-Situ Chemical Oxidation (ISCO) Activities
June 2022 Indoor Air (Health and Safety) Field Monitoring Data
Former Norton/Nashua
Watervliet, New York

Monitoring Point	Date	Time (24hr)	Injection Phase	PID (ppm)
Outdoor Exclusion Zone	6/7/2022	11:10 AM	MFR	0.1
	6/7/2022	11:40 AM	MFR	0.2
	6/7/2022	11:54 AM	MFR	0.2
	6/7/2022	12:25 PM	MFR	0.2
	6/7/2022	1:10 PM	MFR	0.2
	6/7/2022	1:20 PM	MFR	0.2
	6/7/2022	3:20 PM	MFR	0.2
	6/7/2022	3:45 PM	MFR	0.2
	6/7/2022	3:55 PM	MFR	0.2
	6/8/2022	7:35 AM	MFR	0.0
	6/8/2022	9:49 AM	MFR	0.0
	6/8/2022	10:33 AM	MFR	0.0
	6/8/2022	10:57 AM	MFR	0.0
	6/8/2022	11:30 AM	MFR	0.0 - 0.1
	6/8/2022	11:45 AM	MFR	0.0
	6/8/2022	12:25 PM	MFR	0.0
	6/8/2022	7:10 PM	MFR	0.0
	6/9/2022	7:55 AM	MFR	0.0
	6/9/2022	8:19 AM	MFR	0.0
	6/9/2022	8:50 AM	MFR	0.0
	6/9/2022	12:30 PM	MFR	0.0
	6/9/2022	3:11 PM	MFR	0.0
	6/9/2022	3:43 PM	MFR	0.0
	6/10/2022	7:31 AM	MFR	0.0
	6/10/2022	7:59 AM	MFR	0.0
	6/10/2022	8:31 AM	MFR	0.0
	6/10/2022	11:13 AM	MFR	0.0
	6/10/2022	11:49 AM	MFR	0.0
	6/10/2022	12:20 PM	MFR	0.0
	6/10/2022	12:54 PM	MFR	0.0
	6/13/2022	11:06 AM	MFR	0.0
	6/13/2022	11:53 AM	MFR	0.0
	6/13/2022	12:30 PM	MFR	0.0
	6/13/2022	1:32 PM	MFR	0.0
	6/13/2022	3:51 PM	MFR	0.0
	6/14/2022	9:21 AM	MFR	0.0
	6/14/2022	2:22 PM	Persulfate	0.0
	6/15/2022	9:35 AM	Persulfate	0.0
	6/15/2022	2:59 PM	Persulfate	0.0
	6/16/2022	10:45 AM	Persulfate	0.0

Table 3
Summary of In-Situ Chemical Oxidation (ISCO) Activities
June 2022 Indoor Air (Health and Safety) Field Monitoring Data
Former Norton/Nashua
Watervliet, New York

Monitoring Point	Date	Time (24hr)	Injection Phase	PID (ppm)
Background	6/8/2022	11:48 AM	MFR	0.0
	6/8/2022	12:28 PM	MFR	0.0
	6/9/2022	7:57 AM	MFR	0.0
	6/9/2022	8:21 AM	MFR	0.0
	6/9/2022	8:53 AM	MFR	0.0
	6/9/2022	12:32 PM	MFR	0.0
	6/9/2022	3:13 PM	MFR	0.0
	6/9/2022	3:45 PM	MFR	0.0
	6/10/2022	7:36 AM	MFR	0.0
	6/10/2022	8:02 AM	MFR	0.0
	6/10/2022	8:37 AM	MFR	0.0
	6/10/2022	11:20 AM	MFR	0.0
	6/10/2022	11:55 AM	MFR	0.0
	6/10/2022	12:25 PM	MFR	0.0
	6/10/2022	1:00 PM	MFR	0.0
	6/16/2022	10:45 AM	Persulfate	0.0

Notes:

1. PID = Photoionization Detector; ppmv = parts per million by volume;
MFR = Modified Fenton's Reagent.

Table 4
Vapor/Ambient Air Sampling Field Measurements (June 8, 2022)
Former Norton/Nashua Tape Products Facility
Watervliet, New York

Sample Designation	Initial Summa Vacuum (inHg)	Post-Sample Summa Vacuum (inHg)	Post-Sample Laboratory Summa Vacuum (inHg)	Purge Volume (Liters)	Pre-Sample PID Screening (ppbv)	Post-Sample PID Screening (ppbv)	Tracer Gas (Helium) Monitoring			
							Pre-Sample Concentration (Flux Chamber) (%)	Pre-Sample Concentration (Tedlar Bag) (ppmv)	Post-Sample Concentration (Flux Chamber) (%)	Post-Sample Concentration (Tedlar Bag) (ppmv)
DB-VMP-1	30.0	4.0	3.5	1.0	1,856	82	50.3%	5,400 ppmv	14.0%	25 ppmv
DB-VMP-3	29.5	3.0	5.0	1.0	500	2,176	77.0%	5,600 ppmv	64.0%	3,300 ppmv
IA-BLDG-61	29.5	4.0	4.5	NA	505	464	NA	NA	NA	NA
Outdoor Ambient	30.0	4.0	5.5	NA	83	156	NA	NA	NA	NA
Trip Blank	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

- PID = photoionization detector; inHg = inches of mercury; ppbv = parts per billion by volume; ppmv = parts per million by volume; VMP = vapor monitoring point; IA = indoor air; TB = trip blank; NA = Not Applicable.

Table 5
Summary of Vapor Analytical Data
2022 In-Situ Chemical Oxidation (ISCO) Activities
Former Norton/Nashua Facility
Watervliet, New York

Sample ID: Date Sampled:	Indoor Air 6/8/2022	DB-VMP-1 6/8/2022	DB-VMP-3 6/8/2022	Outdoor Ambient 6/8/2022	Trip Blank 6/8/2022
Trichloroethene (TCE)	<0.10	<0.41	<0.41	<0.10	<0.10
cis-1,2-Dichloroethylene (cis-1,2-DCE)	<0.31	<1.2	<1.2	<0.31	<0.31
1,1-Dichloroethylene (1,1-DCE)	<0.23	<0.95	<0.95	<0.23	<0.23
Carbon Tetrachloride	<0.25	<1.0	<1.0	<0.25	<0.25
Tetrachloroethene (PCE)	6.7	2.0	3.6	0.28	<0.095
1,1,1-Trichloroethane (1,1,1-TCA)	<0.20	<0.82	<0.82	<0.20	<0.20
Methylene chloride	0.83	14	13	10	0.38 J
Vinyl Chloride	<0.18	<0.72	<0.72	<0.18	<0.18
Acetone	24.9	7.4	13	16	0.48
1,3-Butadiene	<0.19	<0.75	<0.75	<0.19	<0.19
Benzene	0.61 J	<0.80	<0.80	0.35 J	<0.20
Bromodichloromethane	<0.20	<0.80	<0.80	<0.20	<0.20
Carbon disulfide	<0.14	<0.56	<0.56	0.62	<0.14
Chloroform	<0.18	<0.73	<0.73	<0.18	<0.18
Chloromethane	1.7	<0.74	<0.74	1.1	<0.19
Cyclohexane	2.1	<1.5	2.8	<0.38	<0.38
1,1-Dichloroethane	<0.23	<0.93	<0.93	<0.23	<0.23
1,2-Dichloroethane	<0.28	<1.1	<1.1	<0.28	<0.28
Dichlorodifluoromethane	2.0	<0.64	2.1 J	2.0	<0.16
trans-1,2-DCE	<0.27	<1.1	<1.1	<0.27	<0.27
m-Dichlorobenzene	2.0	<0.96	<0.96	<0.24	<0.24
p-Dichlorobenzene	<1.1	<4.6	<4.6	<1.1	<1.1
Ethanol	43.0	56.3	32.8	21.3	<0.73
Ethylbenzene	1.4	<1.0	2.0 J	1.8	<0.26
Ethyl Acetate	2.3	1.8 J	5.8	4.7	<0.36
4-Ethyltoluene	1.0	<1.9	<1.9	<0.47	<0.47
Heptane	223	<1.5	<1.5	0.40 J	<0.38
Hexachlorobutadiene	<0.66	<2.7	<2.7	<0.66	<0.66
Hexane	1.7	<1.6	2.0 J	2.2	<0.39
2-Hexanone	<0.61	<2.4	<2.4	<0.61	<0.61
Isopropyl alcohol	11	1.9 J	3.2	1.8	<0.34
Methyl ethyl ketone	2.4	<1.3	2.7	1.9	<0.32
Methyl Isobutyl Ketone	3.5	<1.2	1.6 J	<0.30	<0.30
Methylmethacrylate	<0.29	<1.1	<1.1	<0.29	<0.29
Propylene	<0.24	<0.98	<0.98	1.5	<0.24
Styrene	2.8	<2.0	<2.0	<0.51	<0.51

Table 5
Summary of Vapor Analytical Data
2022 In-Situ Chemical Oxidation (ISCO) Activities
Former Norton/Nashua Facility
Watervliet, New York

Sample ID: Date Sampled:	Indoor Air 6/8/2022	DB-VMP-1 6/8/2022	DB-VMP-3 6/8/2022	Outdoor Ambient 6/8/2022	Trip Blank 6/8/2022
1,2,4-Trimethylbenzene	4.1	<1.7	<1.7	<0.43	<0.43
1,3,5-Trimethylbenzene	1.2	<1.6	<1.6	<0.39	<0.39
2,2,4-Trimethylpentane	2.2	<1.8	6.1	<0.44	<0.44
Tertiary Butyl Alcohol	23	<1.1	1.2 J	2.3	<0.28
Tetrahydrofuran	<0.27	<1.1	<1.1	<0.27	<0.27
Toluene	170	5.7	1.9 J	5.7	<0.21
Trichlorofluoromethane	2.1	2.3 J	3.3 J	2.4	<0.20
Vinyl Acetate	2.0	<1.6	<1.6	<0.39	<0.39
m,p-Xylene	3.9	<2.4	8.7	7.8	<0.61
o-Xylene	1.7	<1.3	2.8 J	4.3	<0.33
Xylenes (total)	5.6	<1.3	11	13	<0.33
Total VOC TICs	219.3 J	11 J	269 J	1.3 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 ($\mu\text{g}/\text{m}^3$) except total volatile organic compound (VOC) tentatively identified compounds (TICs), which are presented in parts per billion by volume (ppbv).
3. J = estimated concentration, compound detected below the quantitation limit;
ND = not detected (laboratory detection limit); VMP = vapor monitoring point.
4. All results reflect validated data.

Table 6
Tentative Schedule
Former Norton/Nashua Tape Facility
Watervliet, New York

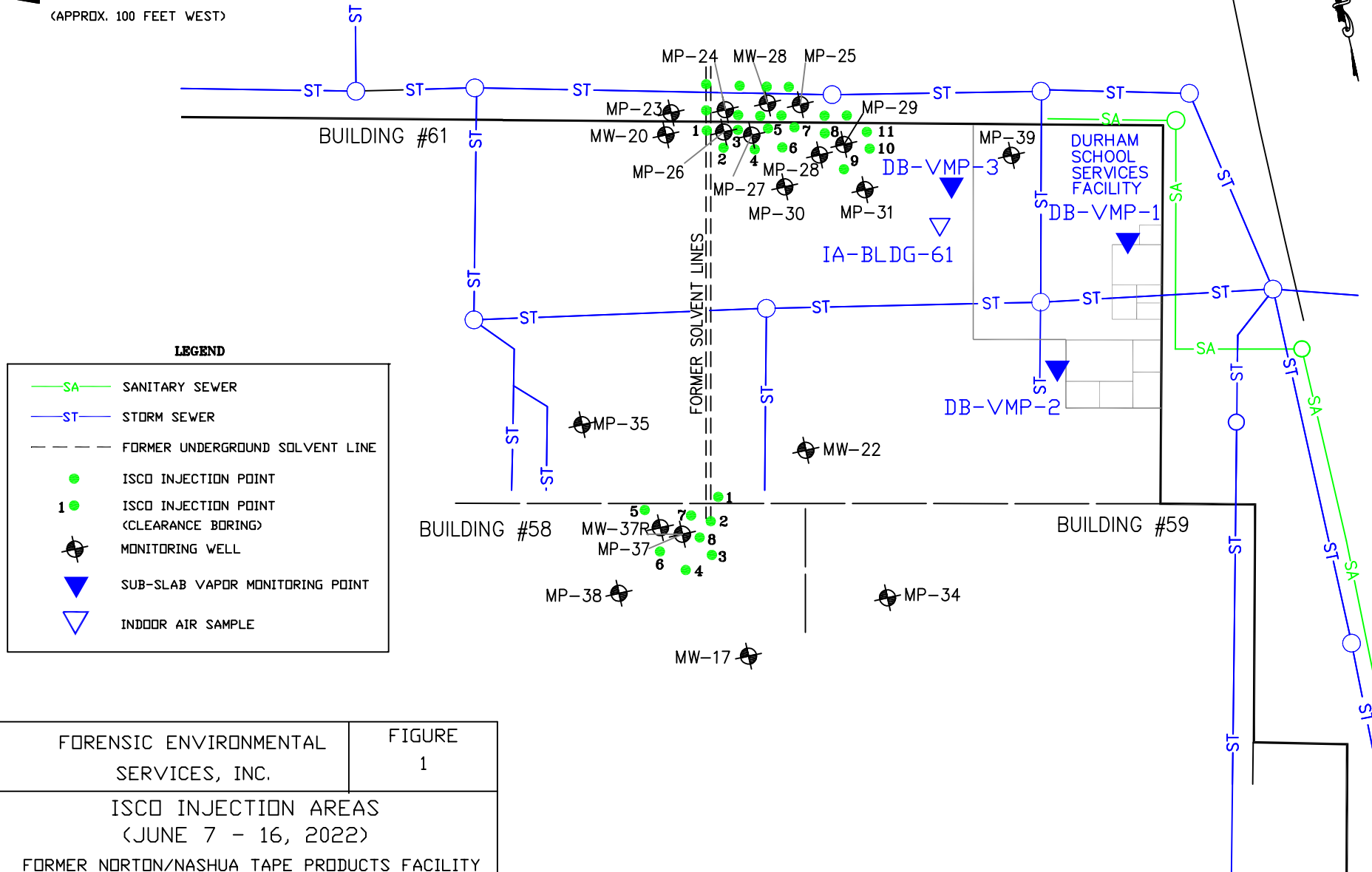
Activity	1Q2022			2Q2022			3Q2022			4Q2022		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bio-Supplementation/Well Dosing Events												
On-Site (Semi-Annual) Groundwater Sampling Events												
Installation of Pre-In-Situ Chemical Oxidation (ISCO) Injection Points												
ISCO Activities (including Vapor Intrusion Sampling)												
Post-ISCO Groundwater Sampling Events												
Off-Site (Annual) Groundwater Sampling Event												
Annual Engineering Control (Cap) Inspection*												
Enhanced Fluid Recovery (EFR) Events												
Reporting												

* = Cap/site-wide inspections may also be conducted during routine monitoring/site visits to ensure that engineering Controls are performing as designed.

FIGURES

OUTDOOR AMBIENT

(APPROX. 100 FEET WEST)



LEGEND

- SA SANITARY SEWER
- ST STORM SEWER
- - - FORMER UNDERGROUND SOLVENT LINE
- ISCO INJECTION POINT
- 1 ● ISCO INJECTION POINT (CLEARANCE BORING)
- ⊗ MONITORING WELL
- ▼ SUB-SLAB VAPOR MONITORING POINT
- ▽ INDOOR AIR SAMPLE

FORENSIC ENVIRONMENTAL SERVICES, INC.	FIGURE 1
ISCO INJECTION AREAS (JUNE 7 - 16, 2022)	
FORMER NORTON/NASHUA TAPE PRODUCTS FACILITY WATERVLIET, NEW YORK	
<p>SCALE IN FEET</p>	<p>DRAWN BY:</p> <hr/> <p>APPROVED BY:</p>

ATTACHMENT 1

**NYSDOH INDOOR AIR QUALITY QUESTIONNAIRE
AND BUILDING INVENTORY**



Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: Former Norton/Nashua Site Code: 401062 Operable Unit: _____
Building Code: _____ Building Name: Stone Management Warehouse
Address: 2600 7th Avenue Apt/Suite No: _____
City: Watervliet State: NY Zip: 12189 County: Albany

Contact Information

Preparer's Name: Bryan J. Machella Phone No: 6105943940
Preparer's Affiliation: Forensic Environmental Services, Inc. Company Code: _____
Purpose of Investigation: ISCO-related vapor sampling Date of Inspection: 6/8/2022
Contact Name: Brian Helf Affiliation: OWNER
Phone No: 5182722136 Alt. Phone No: _____ Email: bhelf@stone-mgt.com
Number of Occupants (total): 15-20 Number of Children: _____
 Occupant Interviewed? Owner Occupied? Owner Interviewed?
Owner Name (if different): _____ Owner Phone: _____
Owner Mailing Address: 2622 7th Avenue, Watervliet, NY 12189

Building Details

Bldg Type (Res/Com/Ind/Mixed): COMMERCIAL/MIXED Bldg Size (S/M/L): LARGE
If Commercial or Industrial Facility, Select Operations: WAREHOUSE If Residential Select Structure Type: _____
Number of Floors: 1 Approx. Year Construction: 1960 Building Insulated? Attached Garage?
Describe Overall Building 'Tightness' and Airflows (e.g., results of smoke tests):
Not air tight

Foundation Description

Foundation Type: NO BASEMENT/SLAB Foundation Depth (bgs): _____ Unit: FEET
Foundation Floor Material: POURED CONCRETE Foundation Floor Thickness: 8 Unit: INCHES
Foundation Wall Material: CONCRETE BLOCK Foundation Wall Thickness: 8
 Floor penetrations? Describe Floor Penetrations: Existing monitoring wells; temp. injection points
 Wall penetrations? Describe Wall Penetrations: Doors/garage (bay) doors
Basement is: _____ Basement is: _____ Sumps/Drains? Water In Sump?: _____
Describe Foundation Condition (cracks, seepage, etc.): Minor cracks (no penetrations except as noted above)
 Radon Mitigation System Installed? VOC Mitigation System Installed? Mitigation System On?

Heating/Cooling/Ventilation Systems

Heating System: FORCED AIR Heat Fuel Type: GAS Central A/C Present?

Vented Appliances

Water Heater Fuel Type: _____ Clothes Dryer Fuel Type: _____
Water Htr Vent Location: _____ Dryer Vent Location: _____



Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

PRODUCT INVENTORY

Building Name: Stone Management Warehouse Bldg Code: _____ Date: May 28, 2020

Bldg Address: 2600 7th Avenue Apt/Suite No: _____

Bldg City/State/Zip: Watervliet NY, 12189

Make and Model of PID: PPBRae Date of Calibration: May 28, 2020

Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
Bldg #61	Beam K30	NA	Intact	None	323 (ppb)	<input type="checkbox"/>
Bldg #61	Beam J30	NA	Intact	None	455	<input type="checkbox"/>
Bldg #61	Beam G30	NA	Intact	None	476	<input type="checkbox"/>
Bldg #61	Beam H30	NA	Intact	None	439	<input type="checkbox"/>
Bldg #61	Beam F30	NA	Intact	None	438	<input type="checkbox"/>
Bldg #61	Beam F28 (IA-BLDG-61)	NA	Intact	None	419	<input type="checkbox"/>
Bldg #61	Beam G28	NA	Intact	None	481	<input type="checkbox"/>
Bldg #61	Beam H28	NA	Intact	None	383	<input type="checkbox"/>
Bldg #61	Beam I28	NA	Intact	None	406	<input type="checkbox"/>
Bldg #61	Beam J28	NA	Intact	None	352	<input type="checkbox"/>
Bldg #61	DB-SVP-2 Area	NA	Intact	None	607	<input type="checkbox"/>
Bldg #61	Beam d28	NA	Intact	None	600	<input type="checkbox"/>
Bldg #61	Beam E28	NA	Intact	None	624	<input type="checkbox"/>
Bldg #61	Beam F28	NA	Intact	None	566	<input type="checkbox"/>
Bldg #61	Beam G28	NA	Intact	None	481	<input type="checkbox"/>
Bldg #61	Wall between #58 and #61	NA	Intact	None	510 - 669	<input type="checkbox"/>

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Product Inventory Complete? Yes No Were there any elevated PID readings taken on site? No Yes Products with COC?



Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: Former Norton/Nashua Site Code: 401062 Operable Unit: _____

Building Code: _____ Building Name: Stone Management Warehouse

Address: 2600 7th Avenue Apt/Suite No: _____

City: Watervliet State: NY Zip: 12189 County: Albany

Factors Affecting Indoor Air Quality

Frequency Basement/Lowest Level is Occupied?: FULL TIME Floor Material: CEMENT

Inhabited? HVAC System On? Bathroom Exhaust Fan? Kitchen Exhaust Fan?

Alternate Heat Source: _____ Is there smoking in the building?

Air Fresheners? Description/Location of Air Freshener: _____

Cleaning Products Used Recently?: Description of Cleaning Products: _____

Cosmetic Products Used Recently?: Description of Cosmetic Products: _____

New Carpet or Furniture? Location of New Carpet/Furniture: _____

Recent Dry Cleaning? Location of Recently Dry Cleaned Fabrics: _____

Recent Painting/Staining? Location of New Painting: _____

Solvent or Chemical Odors? Describe Odors (if any): _____

Do Any Occupants Use Solvents At Work? If So, List Solvents Used: _____

Recent Pesticide/Rodenticide? Description of Last Use: _____

Describe Any Household Activities (chemical use,/storage, unvented appliances, hobbies, etc.) That May Affect Indoor Air Quality:

Propane-powered forklifts in operation Monday through Friday from approximately 7:00 am to 4:00 pm

Any Prior Testing For Radon? If So, When?: _____

Any Prior Testing For VOCs? If So, When?: Annually

Sampling Conditions

Weather Conditions: SUNNY Outdoor Temperature: 70 - 80 °F

Current Building Use: WAREHOUSE Barometric Pressure: 29.86 - 29.92 in(hg)

Product Inventory Complete? Yes Building Questionnaire Completed?



Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Building Code: _____ Address: 2600 7th Avenue Watervliet, NY 12189

Sampling Information

Sampler Name(s): Bryan J. Machella Sampler Company Code: Consultant
 Sample Collection Date: 6/8/2022 Date Samples Sent To Lab: 6/13/2022
 Sample Chain of Custody Number: JD46622 Outdoor Air Sample Location ID: Outdoor Amb.

SUMMA Canister Information

Sample ID:	<u>DB-VMP-1</u>	<u>DB-VMP-3</u>	<u>Indoor Air</u>	<u>Outdoor Amb.</u>	<u>Trip Blank</u>
Location Code:	<u>Bldg #61</u>	<u>Bldg #61</u>	<u>Bldg #61</u>	<u>NW Area</u>	
Location Type:	<u>SUBSLAB</u>	<u>SUBSLAB</u>	<u>FIRST FLOOR</u>	<u>OUTDOOR</u>	
Canister ID:	<u>1621</u>	<u>A1303</u>	<u>A742</u>	<u>A1620</u>	<u>M262</u>
Regulator ID:	<u>FC637</u>	<u>FC184</u>	<u>FC536</u>	<u>F8509</u>	
Matrix:	<u>Subslab Soil Vapor</u>	<u>Subslab Soil</u>	<u>Indoor Air</u>	<u>Ambient Outd</u>	
Sampling Method:	<u>SUMMA AIR SAMPLI</u>	<u>SUMMA AIR SA</u>	<u>SUMMA AIR SA</u>	<u>SUMMA AIR SA</u>	<u>SUMMA AIR SA</u>

Sampling Area Info

Slab Thickness (inches):	<u>8</u>	<u>8</u>			
Sub-Slab Material:	<u>DIRT</u>	<u>DIRT</u>			
Sub-Slab Moisture:	<u>DRY</u>	<u>DRY</u>			
Seal Type:					
Seal Adequate?:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Sample Times and Vacuum Readings

Sample Start Date/Time:	<u>06/08/2022 07:23</u>	<u>06/08/2022 07</u>	<u>06/08/2022 07</u>	<u>06/28/2022 09</u>	
Vacuum Gauge Start:	<u>30</u>	<u>29.5</u>	<u>29.5</u>	<u>30</u>	
Sample End Date/Time:	<u>06/08/2020 15:28</u>	<u>06/08/2022 15</u>	<u>06/08/2022 15</u>	<u>06/08/2022 17</u>	
Vacuum Gauge End:	<u>4</u>	<u>3</u>	<u>4</u>	<u>4</u>	
Sample Duration (hrs):	<u>8</u>	<u>8</u>	<u>8</u>	<u>8</u>	<u>8</u>
Vacuum Gauge Unit:	<u>in (hg)</u>	<u>in (hg)</u>	<u>in (hg)</u>	<u>in (hg)</u>	<u>in (hg)</u>

Sample QA/QC Readings

Vapor Port Purge:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Purge PID Reading:	<u>1856</u>	<u>500</u>			
Purge PID Unit:	<u>ppb</u>	<u>ppb</u>			
Tracer Test Pass:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Sample start and end times should be entered using the following format: MM/DD/YYYY HH:MM



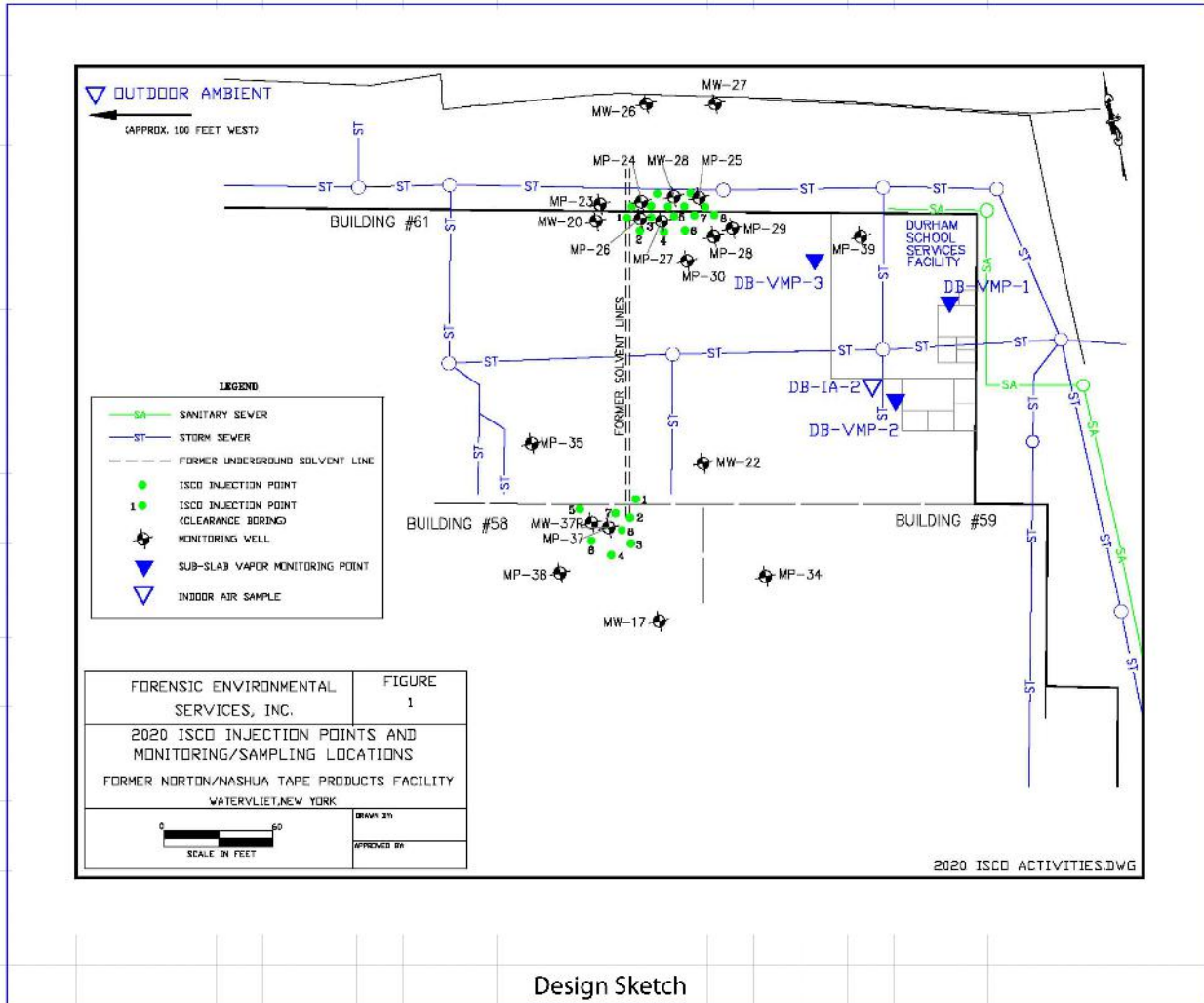
Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

LOWEST BUILDING LEVEL LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the lowest building level . The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image



Design Sketch

Design Sketch Guidelines and Recommended Symbolology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sketch.
- Identify the locations of the following features on the layout sketch, using the appropriate symbols:

B or F	Boiler or Furnace	o	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	xxxxxxx	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	#####	Areas of broken-up concrete
WS	Wood Stoves	● SS-1	Location & label of sub-slab samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.



Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

FIRST FLOOR BUILDING LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the first floor of the building.
The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image



Design Sketch

Design Sketch Guidelines and Recommended Symbology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sketch.
- Identify the locations of the following features on the layout sketch, using the appropriate symbols:

B or F	Boiler or Furnace	o	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	xxxxxxx	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	#####	Areas of broken-up concrete
WS	Wood Stoves	● SS 1	Location & label of sub-slab samples
W/D	Washer / Dryer	● IA 1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFFT 1	Location and label of any pressure field test holes.



Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

OUTDOOR PLOT LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the outdoor plot of the building as well as the surrounding area. The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image



Design Sketch

Design Sketch Guidelines and Recommended Symbology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sketch.
- Identify the locations of the following features on the layout sketch, using the appropriate symbols:

B or F	Boiler or Furnace	o	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	xxxxxxx	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	#####	Areas of broken-up concrete
WS	Wood Stoves	● SS 1	Location & label of sub-slab samples
W/D	Washer / Dryer	● IA 1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFFT 1	Location and label of any pressure field test holes.

ATTACHMENT 2
PHOTOGRAPHIC LOG

Attachment 2
Photographic Log
In-Situ Chemical Oxidation (ISCO) Vapor Intrusion Sampling Activities (June 8, 2022)

Picture 1: Building #61 warehouse area/forklift path indoor air monitoring area (view looking east)



Picture 2: Building #61 warehouse area/forklift path indoor air monitoring area (view looking west)



Picture 3: Building #61 warehouse area/forklift path indoor air monitoring area (view looking northeast)



Picture 4: Building #61 ISCO injection area/exclusion zone indoor air monitoring area (view looking east)



Picture 5: Building #61 ISCO injection area; north of well MP-37 (view looking south)



Picture 6: Building #58 ISCO injection area//forklift path indoor air monitoring area (view looking south)



Picture 7: Outdoor ISCO area; north of Building #61/outdoor exclusion Zone monitoring area (view looking east)



Picture 8: Building #61 warehouse area/indoor air sampling location (view looking east)



Picture 9: DB-VMP-3 sampling location with tracer gas “flux” chamber



Picture 10: DB-VMP-1 sampling location with tracer gas “flux” chamber

