

Long Island Rail Road

Bayside Substation

QUEENS, NEW YORK

Final Engineering Report

NYSDEC Site Number: 241220

Prepared for:

METROPOLITAN TRANSPORTATION AUTHORITY

LONG ISLAND RAIL ROAD

Jamaica Station

Jamaica, New York 11435-4380

Prepared by:

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SEPTEMBER 2024

CERTIFICATIONS

I, Claire Hunt, am currently a registered professional engineer licensed by the State of New York. I certify that the New York State Department of Environmental Conservation (NYSDEC)-approved Remedial Action Work Plan (RAWP) for the Long Island Rail Road (LIRR) Bayside Substation (the Site) was implemented, and that all construction activities were completed in substantial conformance with the NYSDEC-approved RAWP. The work was witnessed by representatives of the LIRR.

I certify that the data submitted to the Department with this Final Engineering Report demonstrates that the remediation requirements set forth in the RAWP and in all applicable statutes and regulations have been or will be achieved.

I certify that all use restrictions, Institutional Controls, Engineering Controls, and/or any operation and maintenance requirements applicable to the Site are contained in a deed restriction, which is appended to this Final Engineering Report. In addition, all affected local governments, as defined in ECL 71-3603, have been notified that such deed restriction has been recorded.

I certify that a Site Management Plan has been submitted in support of the Institutional Controls, and that such plan has been approved by the NYSDEC.

I certify that all documents generated in support of this report have been submitted in accordance with the DER's electronic submission protocols and have been accepted by the Department.

I certify that all data generated in support of this report have been submitted in accordance with the Department's electronic data deliverable and have been accepted by the Department.

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, Claire Hunt, of AECOM, am certifying as Owner's Designated Site Representative for the Site.

Claire Hunt

9/25/2024

NYS Professional Engineer # 094202

Date



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LIST OF ACRONYMS

Acronym	Definition
AC	Alternating Current
BSG	Below Surface Grade
CAMP	Community Air Monitoring Program
CFR	Code of Federal Regulation
CQAP	Construction Quality Assurance Plan
EC	Engineering Controls
EV	Electron Volt
FT	Foot or Feet
HASP	Health And Safety Plan
HAZWOPER	Hazardous Waste Operations and Emergency Response
IC	Institutional Controls
IRM	Interim Remedial Measure
LIRR	Long Island Rail Road
mcg/m ³	Micrograms per cubic meter
mg/kg	Milligrams per Kilogram
MVA	Mercury Vapor Analyzer
NYCRR	New York Codes Rules and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OSHA	Occupational Safety and Health Administration
OU	Operable Unit
PID	Photo Ionization Detector
PM-10	Particulate Matter 10 microns
PPM	Parts per Million
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
RAO	Remedial Action Objectives
RAWP	Remedial Action Work Plan
SCOs	Soil Cleanup Objectives
SCG	Standards, Criteria, and Guidelines
SEQRA	State Environmental Quality Review Act
S/MMP	Soil/Materials Management Plan
SOP	Site Operations Plans
SVIG	Soil Vapor Intrusion Guidance
SWPPP	Storm Water Pollution Prevention Program
TAGM	Technical and Administrative Guidance Memorandum

Acronym	Definition
TCLP	Toxicity Characteristic Leaching Procedure
USEPA	United States Environmental Protection Agency
VCA	Voluntary Cleanup Agreement
VCP	Voluntary Cleanup Program
VOC	Volatile Organic Compounds
yd3	Cubic Yards

FINAL ENGINEERING REPORT

1.0 BACKGROUND AND SITE DESCRIPTION

The Long Island Railroad (LIRR) entered into a Voluntary Cleanup Agreement (VCA) with the New York State Department of Environmental Conservation (NYSDEC) in November 2004, and subsequently an Order on Consent in July 2018, to investigate and remediate an approximately 0.25-acre property located in Bayside, Queens, New York. The property was remediated to industrial use, and will be used as an electrical substation.

The Site is located at the foot of 216th Street in the County of Queens, New York and is identified as a portion of the LIRR. The Site is situated on an approximately 0.25-acre area bounded by 41st Avenue and residential properties to the north, the LIRR tracks to the south, residential properties to the east, and a commercial property to the west (see Figure 1). A survey of the Site is shown in Appendix A.

An electronic copy of this FER with all supporting documentation is included as Appendix B.

2.0 SUMMARY OF SITE REMEDY

2.1 Remedial Action Objectives

Based on the results of the site assessments, the following Remedial Action Objectives (RAOs) were identified for this Site.

2.1.1 Soil RAOs

RAOs are for the protection of human health and the environment. Remedial goals are established based on standards, criteria, and guidelines (SCGs) to protect human health and the environment. SCGs for the Site listed in the Remedial Action Work Plan (RAWP) include New York Code, Rules and Regulations Title 6 (6 NYCRR) Part 375 Environmental Remediation Programs Soil Cleanup Objectives (SCOs) for Industrial Use and for Residential Use, which have been used to define areas requiring remediation at the Bayside Substation. Industrial use SCOs will be used for the majority of the substation with the exception of a small area where mercury concentrations were detected

north of the substation fence. Since this area north of the fence poses a potential exposure risk to off-site receptors, the Residential SCO will be used for the area north of the substation fence. The purpose of these RAOs will be to protect human health and the environment as follows:

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

RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.
- Prevent impacts to biota due to ingestion/direct contact with contaminated soil that would cause toxicity or bioaccumulation through the terrestrial food chain.

2.2 Description of Selected Remedy

The Site was remediated in accordance with the remedy selected by the NYSDEC in the RAWP dated May 24, 2011.

The factors considered during the selection of the remedy are those listed in 6NYCRR 375-1.8. The following are the components of the selected remedy:

1. Excavation of soil exceeding the unrestricted residential SCO for the small area outside the existing fence and industrial SCOs for the three areas inside the existing fence. The SCOs are listed in Table 1. Soil was excavated to a depth of 1 foot below surface grade (ft bgs) at the area north of the substation building (Area #1); to a depth of 2 ft bgs at the area west of the substation building (Area #2), and a depth of 4 ft bgs at the area east of the substation building (Area #3). All sediment was also removed from the Area #4 structure (see Section 4.8 Deviations from the Remedial Action Work Plan).
2. Execution and recording of a Deed Restriction to restrict land use and prevent future exposure to any contamination remaining at the Site.

3. Development and implementation of a Site Management Plan for long term management of remaining contamination as required by the Deed Restriction, which includes plans for: (1) Institutional Controls, and (2) reporting.
4. Periodic certification of the institutional controls listed above.

3.0 INTERIM REMEDIAL MEASURES, OPERABLE UNITS AND REMEDIAL CONTRACTS

The information and certifications made in the May 24, 2011 Delineation Phase II Site Assessment Remedial Action Work Plan were relied upon to prepare this report and certify that the remediation requirements for the Site have been met.

3.1 Interim Remedial Measures

To reduce the potential of mercury exposure, the LIRR conducted an Interim Remedial Measure (IRM) at Area #2 adjacent to the western side of the substation in April 2000. The IRM included removing 6 inches of impacted soil and replacing it with a layer of polyethylene sheeting covered with crushed stone. Analysis of three post-excavation soil samples collected from 6 inches below surface grade detected mercury at concentrations ranging from 8.0 milligrams per kilogram (mg/kg) to 68.4 mg/kg. The IRM was temporary as the soil at this area was removed during the Remedial Action documented in this report.

3.2 Operable Units

An Operable Unit (OU) is a portion of a Site that can be addressed by a distinct investigative and remedial approach. The Bayside Substation has a single OU identified as OU-1: Mercury and Arsenic impacted soil. OU-1 consists of four areas as follows:

- Area 1: Mercury impacted soil north of the substation building
- Area 2: Mercury impacted soil located west of the substation building
- Area 3: Arsenic impacted soil located east of the substation building within the transformer yard
- Area 4: Dry well located west of the substation building at the end of 216th Street.

These locations are depicted on Figure 2.

3.3 Remedial Contracts

AARCO was retained to complete the remedial action as described in the RAWP.

4.0 DESCRIPTION OF REMEDIAL ACTIONS PERFORMED

Remedial activities completed at the Site were conducted in accordance with the NYSDEC-approved RAWP for the LIRR Bayside Substation Site (May 2011). All deviations from the RAWP are noted below.

4.1 Governing Documents

4.1.1 Site Specific Health & Safety Plan (HASP)

All remedial work performed under this Remedial Action was in full compliance with governmental requirements, including Site and worker safety requirements mandated by Federal OSHA.

The Health and Safety Plan (HASP) was complied with for all remedial and invasive work performed at the Site.

4.1.2 Quality Assurance Project Plan (QAPP)

Section 4.0 of the RAWP approved by the NYSDEC specifies the requirements of the Construction Quality Assurance/Quality Control Plan (CQA/QCP). The CQA/QCP describes the specific policies, objectives, organization, functional activities, and quality assurance/ quality control activities designed to achieve the project data quality objectives.

4.1.3 Construction Quality Assurance Plan (CQAP)

The Construction Quality Assurance Plan(s) (CQAPs) managed performance of the Remedial Action tasks through designed and documented QA/QC methodologies applied in the field and in the lab. The CQAP provided a detailed description of the observation and testing activities that were used to monitor construction quality and confirm that remedial construction was in conformance with the remediation objectives and specifications.

4.1.4 Soil/Materials Management Plan (S/MMP)

To limit migration of impacted soil during the remediation, AARCO used a vacuum truck and hand tools to excavate soil from the impacted areas. To prevent migration of impacted soil at the Site, soil excavated from each area was placed on a properly prepared stockpile. The stockpile was constructed of polyethylene sheeting

surrounded by a silt fence. At the end of each working day the stockpile was covered with plastic sheeting. Periodically the soil was loaded onto trucks for transport to a disposal facility. Prior to loading soil, plastic sheeting was spread at the loading area to collect any loose soil generated during the loading process. After loading, soil on the plastic sheeting was returned to the stockpile area.

4.1.5 Storm-Water Pollution Prevention Plan (SWPPP)

The erosion and sediment controls for all remedial construction were performed in conformance with requirements presented in the New York State Guidelines for Urban Erosion and Sediment Control and the Site-specific Storm Water Pollution Prevention Plan included in the contractor's September 2019 Site Specific Work Plan.

4.1.6 Community Air Monitoring Plan (CAMP)

Community air monitoring consisted of setting up a minimum of three monitoring locations including an upwind location, a downwind location, and a location within the work zone. In addition to the planned locations, Preferred Environmental Services setup three perimeter locations and collected breathing zone samples from two high-risk workers.

Air monitoring was conducted for Volatile Organic Compounds (VOCs), mercury vapors, and dust particles. Instruments included a photoionization detector (PID) with a 10.6 electron volt (EV) bulb, a Jerome Mercury Vapor Meter, and a dust monitor. The monitoring equipment was capable of calculating 15-minute average concentrations. Monitoring equipment was set up at the beginning of each workday and ran continuously until work ceased. Data from each instrument was logged continuously. CAMP results are provided in Appendix C.

Data was compared to action levels for each parameter as follows:

- VOC Monitoring - Downwind VOC limits were 5 parts per million (ppm) for a 15-minute average. If VOC concentrations ranged from 5 ppm to 25 ppm, work must be halted until VOC emission sources could be identified and corrective action taken. Work may resume provided that VOCs 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor, whichever is less (but no less than 20 feet) is below 5

ppm for a 15-minute average. Work activities must cease if VOCs at the perimeter of the work area exceed 25 ppm.

- Mercury Monitoring – Mercury vapors must be monitored at the downwind perimeter of the work area on a continuous basis during construction. If total mercury vapor levels exceed 0.01 mg/m^3 above background, work activities must be halted and techniques must be employed to reduce the downwind mercury vapor level. If any mercury vapors are identified 200 feet downwind from the work area or half the distance to the nearest residential or commercial property, whichever is less, all work activities must be halted. If efforts to abate the emission source are unsuccessful and mercury vapor is detected for more than 30 minutes within 20 feet of the perimeter of the nearest residential or commercial structure, then all emergency response contacts will be notified, the local police authorities shall immediately be contacted by the safety manager and advised of the situation, and frequent air monitoring shall be conducted at 30 minute intervals within the 20 foot zone. If two successive readings below action levels are measured, air monitoring may be halted or modified by the safety manager.
- Particulate Monitoring – Particulate monitoring equipment must be capable of measuring particulates less than 10 micrometers in diameter (PM-10) and integrating readings over a 15-minute period. Equipment must have an audible alarm that sounds if the action level is exceeded. The action level for PM-10 is 100 micrograms per cubic meter (mcg/m^3) greater than background. Dust suppression techniques must be employed. Work can continue during suppression provided downwind readings are below 150 mcg/m^3 above the upwind readings and no visible dust is migrating from the work area. If downwind readings are 150 mcg/m^3 above the upwind readings work must cease until dust suppression measures and other controls reduce PM-10 concentrations to 150 mcg/m^3 or below.

4.1.7 Contractors Site Operations Plans (SOPs)

The Remediation Engineer reviewed all plans and submittals for this remedial project (i.e., those listed above plus contractor and subcontractor submittals) and confirmed that they were in compliance with the RAWP. All remedial documents were submitted to NYSDEC and NYSDOH in a timely manner and prior to the start of work.

4.1.8 Community Participation Plan

The Citizen Participation Plan (CPP) provides details on the citizen participation activities that will occur at several milestones during the remediation. A fact sheet was published online by NYSDEC in August 2020, prior to the start of the remedial action in compliance with the final May 2020 CPP for the Site. A fact sheet will be distributed once NYSDEC certifies the cleanup requirements are achieved and if NYSDEC reclassifies or delists the Site from the Registry of Contaminated Sites. The project contacts, locations of reports and information, and Site contacts are provided in the CPP.

4.2 Remedial Program Elements

4.2.1 Contractors and Consultants

The following consultants and contractors participated in the Remedial Action at the Bayside Substation.

- AARCO conducted all remediation activities.
- Soil Mechanics conducted geotechnical compaction testing.
- Preferred Environmental Services provided Site health and safety oversight, perimeter air monitoring, and post-excavation soil sampling.
- LIRR Department of Program Management Resident Engineer provided daily remediation oversight.
- Claire Hunt, PE, is the certifying Engineer of Record responsible for inspection of the work.

4.2.2 Site Preparation

Prior to mobilization AARCO obtained all necessary permits and approvals and contacted New York 811 to request a utility mark-out at the substation. The following substantive technical requirements and regulations were followed as minimum performance specifications for this Remedial Action:

- 6 NYCRR Part 364 – Waste Transporter Permits
- 6 NYCRR Part 370 – Hazardous Waste Management Systems
- 6 NYCRR Part 375 – Environmental Remediation Programs
 - o Part 375 Industrial SCOs
 - o Part 375 Residential SCOs
- NYSDEC CP-51 – Soil Cleanup Guidance
- 6 NYCRR Part 376 Land Disposal Restrictions
- 29 Code of Federal Regulations (CFR) Part 1910.120 – Hazardous Waste Operations and Emergency Response (HAZWOPER) Standard
- 29 CFR Part 1926 – Safety and Health Regulations for Construction
- Technical and Administrative Guidance Memorandum (TAGM) 4031 – Fugitive Dust Suppression and Particulate Monitoring Program at Inactive Hazardous Waste Sites
- NYSDOH Generic CAMP

As per Section 1266, paragraph 11 of the Public Authorities Law, the LIRR is exempt from the requirements of the State Environmental Quality Review Act (SEQRA).

[Documentation of agency approval required by the RAWP is included in Appendix D for imported fill.](#)

AARCO mobilized to the Site on October 5, 2020. Excavation areas were marked out with spray paint, a temporary fence was erected around Area #1, and a stockpile area was prepared by spreading plastic sheeting at the proposed stockpile location inside Area #2 and installing a silt fence around it. [A NYSDEC-approved project sign was erected at the project entrance and remained in place during all phases of the Remedial Action.](#)

4.2.3 General Site Controls

With the exception of the area immediately north of the substation building, the Site is secured by a chain link fence. The area immediately north of the substation building is covered by a two-inch layer of gravel underlain by a layer of polyethylene sheeting. The Site may only be accessed in the presence of authorized LIRR personnel.

Records maintained on Site include daily reports, toolbox safety meeting sign-in sheets, and a copy of the Site HASP.

Erosion and sediment controls consist of polyethylene sheeting beneath the stockpile, a silt fence built around the perimeter of the soil stockpile, and polyethylene sheeting covering the soil stockpile. Plastic sheeting was also placed beneath the area where trucks were loaded with soil.

Excavated material was temporarily stockpiled on-site in areas approved by LIRR. Stockpiled soil was placed on polyethylene sheeting with a minimum thickness of 25 mm (10 mils). Stockpiles were constructed to isolate stored contaminated material from the environment. The maximum stockpile height was 10 feet. Diversion measures were employed, to prevent storm water run-on and run-off. Stockpiles were covered at all times.

All vehicles and equipment used were decontaminated to the satisfaction of the LIRR prior to leaving the Site.

Soil screening results were collected using a Jerome Mercury Vapor Monitor.

4.2.4 Nuisance Controls

The following controls were used at the Site. Trucks were loaded on a sheet of 6-mil thick polyethylene sheeting to prevent potential migration of impacted soil during loading. Trucks did not enter the remediation area; therefore, no truck wash was used prior to Site egress. As per the RAWP, based on dust monitoring using a digital dust monitor, implementation of dust controls was not necessary. Based on the results of a mercury vapor soil screening conducted during the Delineation Phase II Site Assessment, “mercury vapor is not a concern at this site.” Additionally, the contaminants of concern at the Site (i.e., mercury and arsenic) do not emit odors; therefore, odor control procedures were not established. There was no record of complaints during the project. If complaints had been received, they would have been made directly to the LIRR and referred to the AECOM project manager.

4.2.5 CAMP Results

CAMP monitoring reported no exceedances for October 6, 7, 14, 15, 2020; November 6, 9, 10, 11, 16, 17, 18, 19, 20, 23 and 24, 2020; and December 1, 2, 3, 2020. Air monitoring was not conducted on October 13, 16, 19, 20, 21, 27, 2020; and November 12, 30, 2020 due to rain. Air monitoring was not conducted on November 5 and 13, 2020, and December 4, 2020 because no intrusive work was performed. Due to data logging problems with the photoionization detector approximately 2 hours of VOC data was not recorded on December 1 and 2, 2020. [Copies of all field data sheets relating to the CAMP are provided in electronic format with the daily reports in Appendix C.](#)

4.2.6 Reporting

Preferred Environmental Services prepared and maintained daily records during the remedial activities at the Site. AARCO and Preferred Environmental Services conducted daily tailgate/toolbox meetings to review the scope of work, planned activities, and health and safety protocols. Each member of the field team signed a daily form acknowledging attendance of the meeting.

Preferred Environmental Services prepared daily status reports documenting Site conditions, the weather, daily work activities, and air monitoring results. Specific topics addressed included the location of air monitoring stations, personnel air monitoring, stockpile construction and deconstruction, compaction testing results, and endpoint soil sampling locations.

All daily reports are included in electronic format in Appendix C.

The construction photos required by the RAWP are included in electronic format in Appendix C.

4.3 Contaminated Materials Removal

A list of SCOs for the contaminants of concern for this project is provided in Table 1. The SCOs for this Site include NYCRR Part 375 Residential Use SCO for mercury of 0.81 mg/kg and arsenic of 16 mg/kg and the Industrial SCO for mercury of 5.7 mg/kg and arsenic of 16 mg/kg. Residential SCOs apply to the portion of Area #1 that is outside of the fenced area. Industrial SCOs apply within the fenced area.

Remedial performance criteria were based on the removal of soil to depths specified in the RAWP as follows:

- Area #1 – 1.0 ft bgs
- Area #2 – 2.0 ft bgs
- Area #3 – 4.0 ft bgs
- Area #4 – 2.0 ft below the base of the dry well. Note this was changed as the base of the dry well was determined to be solid concrete. (See Section 4.8 – Deviations from the Remedial Action Work Plan).

AARCO removed 214.64 tons of mercury and arsenic impacted soil from Areas #1 through Area #4 at the Bayside Substation. [A figure of the location of original sources and areas where excavations were performed is shown in Figure 2.](#)

4.3.1 Arsenic and Mercury Soil Removal

From October 2020 through December 2020, AARCO removed 214.64 tons of arsenic and mercury contaminated soil from Area #1 through Area #4. As stated above the soil removal locations are depicted in Figure 2. A map showing cut and fill contours is provided as Figure 3. A summary of the soil removal activities is provided below.

AARCO began excavating impacted soil by hand to a depth of 1.0 ft bgs at Area #1 on October 6, 2020 while Preferred Environmental Services collected a waste classification soil sample from Area #4. Preferred Environmental Services used a Jerome Mercury Vapor Monitor to field screen the excavation for mercury vapors and a MiniRae 3000 to field screen the excavation for VOCs. No detections were reported.

On October 7, 2020, Preferred Environmental Services collected four endpoint samples (BS-EP-03-B(1'), BS-EP-05-B(1'), BS-EP-06-B(1'), and BS-EP-07-B(1')) from Area #1. On October 13, 2020 excavation at Area #1 was completed and endpoint sample BS-EP-04-B(1') was collected. Sample locations are depicted on Figure 2. A summary of analytical results is provided in Table 2 and on Figure 4. Soil was temporarily staged at the stockpile previously setup at Area #2. On October 14, 2020, a single truck load of soil from Area #1 was transported offsite for disposal at Clean Earth of Carteret. A 6-inch layer of 3/4-inch stone was placed as top cover at Area #1.

AARCO used a vacuum truck to excavate impacted soil to a depth of 2.0 ft bgs at Area #2 on October 14, 2020. Preferred Environmental used a Jerome Mercury Vapor Monitor to field screen the excavation for mercury vapors and a MiniRae 3000 to field screen the excavation for VOCs. No detections were reported. Endpoint samples BS-EP-01-B(2') and BS-EP-02-B(2') were collected on October 15, 2020. On October 20, 2020, the endpoint sample locations from Area #1 and Area #2 were surveyed prior to backfilling. On October 20, 2020, AARCO backfilled both Area #1 and Area #2 with clean sand. Backfill was installed in 6 to 8-inch lifts and compacted with a vibratory plate compactor. Results of compaction testing conducted by Soil Mechanics found that

the backfill passed 95% compaction. A 6-inch layer of ¾-inch stone was placed as top cover at Area #2.

On November 5, 2020, the LIRR installed ground for the transformers within Area #3 while AARCO installed plywood to protect the transformers prior to excavating in the area. On November 6, 2020, AARCO used an air knife, hand tools and a vacuum truck to excavate impacted soil to a depth 4.0 ft bgs at the southwestern corner of Area #3. On November 11, 2020, AARCO backfilled the previously excavated southwestern corner of Area #3 with 10-inch lifts of sand. Soil was compacted with a vibratory plate compactor to 95% compaction as verified by testing conducted by Soil Mechanics. On November 13, 2020, AARCO uncovered a conduit inside of Area #3. AARCO installed supports to protect the conduit and continued excavating the remaining portion of Area #3. Endpoint samples were collected on November 9, 2020 (BS-EP-08-B(4'), nondetect), November 18, 2020 (BS-EP-09-B(4'), 2.84 mg/kg arsenic), November 10, 2020 (BS-EP-10-B(4'), nondetect), and November 23, 2020 (BS-EP-11-BC(4'), nondetect). After the excavation was completed at Area #3, AARCO conducted final backfilling and compaction at Area #3 on December 1, 2020. On December 2, 2020, AARCO removed approximately 6-inches of sediment from the bottom of the Area #4 solid concrete base; plugged the storm drainpipe to the structure with concrete; decommissioned the stockpile; loaded two truckloads of soil generated from Area #3 and Area #4; and transported the soil to Clean Earth for disposal. A 6-inch layer of ¾ inch stone was placed as top cover at Area #3.

On December 4, 2021, three samples were collected from below the substation building slab for mercury analysis. The mercury results were below the Industrial SCO of 5.7 mg/kg at BSBEP-1 (0.158 mg/kg), BSBEP-2 (0.104 mg/kg), and BSBEP-3 (3.39 mg/kg). A summary of analytical results is provided in Table 2 and on Figure 4.

[A map of estimated cut and fill thicknesses for remedial activities at the Site are included in Figure 3.](#)

4.3.2 Disposal Details

During the Remedial Action, a total of 214.64 tons of soil were removed from the Bayside Substation and transported to Clean Earth of Carteret, New Jersey (Clean Earth)

for disposal. A total of eight (8) loads of soil were transported from the Bayside Substation to Clean Earth for disposal on October 14, 2020, October 16, 2020, November 12, 2020, November 20, 2020, and December 2, 2020. The soil was transported by Munoz Trucking, Corp., Waste Transporter Permit No. NJ-777 (Appendix E).

Two waste characterization soil samples were collected using composite sampling techniques. Analysis of the waste characterization samples revealed that the impacted soil was nonhazardous. [A summary of the samples collected to characterize the waste, and associated analytical results are summarized on Table 3.](#)

[The acceptance letter and commitment letter from the disposal facility owner is attached in Appendix E.](#)

[Manifests and bills of lading are included in electronic format in Appendix E.](#)

4.3.3 On-Site Soil Reuse

There was no onsite reuse of soil excavated at the Site.

4.4 Remedial Performance/Documentation Sampling

Preferred Environmental Services used grab sampling techniques to collect endpoint soil samples at the Site. Endpoint samples (BS-EP-03-B(1'), BS-EP-05-B(1'), BS-EP-06-B(1'), and BS-EP-07-B(1')) were collected from Area #1 on October 7, 2020. Endpoint sample BS-EP-04-B(1') was collected on October 13, 2020. Quality control samples including duplicates and matrix spike/matrix spike duplicate samples were collected during remedial activities at the facility on October 7, 2020.

On October 15, 2020, endpoint samples BS-EP-01-B(2') and BS-EP-02-B(2') were collected from Area #2. The samples were analyzed for mercury.

Endpoint samples were collected from Area #3 on November 9, 2020 (BS-EP-08-B(4')), November 10, 2020 (BS-EP-10-B(4')), November 18, 2020 (BS-EP-09-B(4')), and November 23, 2020 (BS-EP-11-BC(4')). The samples were analyzed for arsenic.

On December 4, 2020, AARCO cored through the concrete floor of the substation building and collected soil samples BSBEP-1, BSBEP-2, and BSBEP-3. The samples were analyzed for mercury.

[A table and figure summarizing all endpoint sampling is included in Table 2 and Figure 2, respectively.](#) Based on a review of available endpoint samples, there were no exceedances of the applicable Residential Use and Industrial Use SCOs.

The laboratory data reports are provided electronically in Appendix F.

4.5 Imported Backfill

AARCO imported 154.49 tons of clean fill from 110 Sand Company and 95.9 tons of ¾-inch stone from Tilcon New York Inc. and placed it in each excavation at Area #1, Area #2, and Area #3. The backfill was placed in 6 to 10-inch thick lifts and compacted with a vibratory plate compactor to 95% compaction. Analytical results provided for the fill material demonstrated that the backfill material was non-hazardous and concentrations were reported below the Allowable Levels for Imported Fill or Soil Commercial or Industrial and Residential. After a review of the analytical results the backfill was approved for use by the LIRR and the NYSDEC case manager (email from Charles Post, dated January 30, 2020 in Appendix D.

A table summarizing chemical analytical results for backfill, in comparison to allowable levels, is provided in Table 4. A figure showing the Site locations where backfill was used at the Site is shown in Figure 2.

Imported material documentation is provided in Appendix D.

4.6 Contamination Remaining at the Site

Mercury and arsenic concentrations in soils remaining exceed the Unrestricted SCOs. However, it should be noted that no concentrations exceed the applicable Industrial SCOs of 5.7 mg/kg for mercury and 16 mg/kg for arsenic as these sampling locations are on LIRR property within a fenced area. Table 5 and Figure 5 summarize the results of all soil samples remaining at the Site after completion of the Remedial Action that exceed the Track 1 (unrestricted) SCOs. Figure 6 summarizes the results of all soil samples remaining at the Site after completion of the remedial action that meet the SCOs for unrestricted use of the Site.

Since contaminated soil remains beneath the Site after completion of the Remedial Action, Institutional Controls are required to protect human health and the environment. This Institutional Controls (ICs) is described in the following sections. Long-term management of this IC and residual contamination will be performed under the Site Management Plan (SMP) approved by the NYSDEC.

4.7 Institutional Controls

The Site remedy requires that a deed restriction be placed on the property to (1) implement, maintain and monitor the Engineering Controls; (2) prevent future exposure

to remaining contamination by controlling disturbances of the subsurface contamination, and (3) limit the use and development of the Site to industrial uses only.

The deed restriction for the Site was executed by the Department on October 12, 2022, and filed with the Queens County Clerk on April 24, 2024. The County Recording Identifier number for this filing is 2024041000795001. A copy of the deed restriction and proof of filing is provided in Appendix G.

4.8 Deviations from the Remedial Action Work Plan

The RAWP stated that soil from the dry well (Area #4) would be removed to a depth of 2.0 ft below the base of the dry well to an approximate depth of 6 feet below ground surface. However, based on field inspection performed under a confined space entry permit, the bottom of the structure was determined to be solid concrete. Therefore, this structure is not considered a dry well. As indicated in Section 4.3.1, AARCO removed all sediment (approximately a 6-inch layer) to the solid concrete base of the structure for off-site disposal to Clean Earth.

Tables

Table 1
Soil Cleanup Objectives (SCOs)
LIRR Bayside Substation, Queens, New York

Analyte	Soil Cleanup Objective (mg/kg)	
	Industrial	Residential
Arsenic	16	16
Mercury	5.7	0.81

Notes:

Soil Cleanup Objectives as published in
6 6NYCRR Part 375-6.8.

mg/kg - milligrams per kilogram

Table 2
Endpoint Sampling Results
LIRR Bayside Substation, Queens, New York

Sample ID	NYSDEC Part 375 Industrial Use Soil Cleanup Objectives	NYSDEC Part 375 Residential Use Soil Cleanup Objectives	BS-EP-01-B(2')	BS-EP-02-B(2')	BS-EP-03-B(1')	BS-EP-04-B(1')	BS-EP-05-B(1')	BS-EP-06-B(1')	BS-EP-07-B(1')
Remedial Area			Area #2	Area #2	Area #1	Area #1	Area #1	Area #1	Area #1
Sample Location			BSEP-1	BSEP-2	BSEP-3	BSEP-4	BSEP-5	BSEP-6	BSEP-7
Lab ID			20J0753-01	20J0753-02	20J0374-01	20J0602-01	20J0374-03	20J0374-04	20J0374-05
Date			10/15/2020	10/15/2020	10/7/2020	10/13/2020	10/7/2020	10/7/2020	10/7/2020
Mercury (mg/kg)	5.7	0.81	ND	ND	0.194 (0.200)	0.1	0.148	0.14	0.217

Sample ID	NYSDEC Part 375 Industrial Use Soil Cleanup Objectives	NYSDEC Part 375 Residential Use Soil Cleanup Objectives	BS-EP-08-B(4)	BS-EP-09-B(4')	BS-EP-10-B(4 FT)	BS-EP-11-BC(4 FT)
Remedial Area			Area #3	Area #3	Area #3	Area #3
Sample Location			BSEP-8	BSEP-9	BSEP-10	BSEP-11
Lab ID			20K0395-01	20K0836-01	20K0449-01	20K1016-01
Date			11/9/2020	11/18/2020	11/10/2020	11/23/2020
Arsenic (mg/kg)	16	16	ND	2.84	ND	ND

Sample ID	NYSDEC Part 375 Industrial Use Soil Cleanup Objectives	NYSDEC Part 375 Residential Use Soil Cleanup Objectives	BSBEP-1	BSBEP-2	BSBEP-3
Remedial Area			Beneath Substation Building Footprint		
Sample Location			BSEP-1	BSEP-2	BSEP-3
Lab ID			20L0283-01	20L0283-03	20L0283-03
Date			12/4/2020	12/4/2020	12/4/2020
Mercury (mg/kg)	5.7	0.81	0.158	0.104	3.39

(0.200) - duplicate result
mg/kg - milligrams per kilogram
3.39 - concentration exceeds the Residential Use Soil Cleanup Objective (SCO); however, this concentration does not exceed the applicable Industrial SCO of 5.7 mg/kg, as this sample location is on LIRR property within a fenced area.
ND - Not Detected

Table 3
Waste Characterization Sample Results
LIRR Bayside Substation, Queens, New York

Sample ID York ID Sampling Date Client Matrix	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Industrial	Maximum Concentration Toxicity Characteristic	BS-CS-1 19J0828-07 10/16/2019 12:30:00 PM Soil	BS-CS-1-VOC grab #7 (0-0.5') 19J0828-08 10/16/2019 12:30:00 PM Soil
Compound			Result	Result
Volatile Organics, 8260 - Comprehensive	mg/Kg			mg/Kg
Dilution Factor				1
1,1,1,2-Tetrachloroethane	~	~	NT	0.00310
1,1,1-Trichloroethane	1000	~	NT	0.00310
1,1,2,2-Tetrachloroethane	~	~	NT	0.00310
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	~	~	NT	0.00310
1,1,2-Trichloroethane	~	~	NT	0.00310
1,1-Dichloroethane	480	~	NT	0.00310
1,1-Dichloroethylene	1000	~	NT	0.00310
1,2,3-Trichlorobenzene	~	~	NT	0.00310
1,2,3-Trichloropropane	~	~	NT	0.00310
1,2,4-Trichlorobenzene	~	~	NT	0.00310
1,2,4-Trimethylbenzene	380	~	NT	0.00310
1,2-Dibromo-3-chloropropane	~	~	NT	0.00310
1,2-Dibromoethane	~	~	NT	0.00310
1,2-Dichlorobenzene	1000	~	NT	0.00310
1,2-Dichloroethane	60	~	NT	0.00310
1,2-Dichloropropane	~	~	NT	0.00310
1,3,5-Trimethylbenzene	380	~	NT	0.00310
1,3-Dichlorobenzene	560	~	NT	0.00310
1,4-Dichlorobenzene	250	~	NT	0.00310
1,4-Dioxane	250	~	NT	0.0620
2-Butanone	1000	~	NT	0.00310
2-Hexanone	~	~	NT	0.00310
4-Methyl-2-pentanone	~	~	NT	0.00310
Acetone	1000	~	NT	0.00620
Acrolein	~	~	NT	0.00620
Acrylonitrile	~	~	NT	0.00310
Benzene	89	~	NT	0.00310
Bromochloromethane	~	~	NT	0.00310
Bromodichloromethane	~	~	NT	0.00310
Bromoform	~	~	NT	0.00310
Bromomethane	~	~	NT	0.00310
Carbon disulfide	~	~	NT	0.00310
Carbon tetrachloride	44	~	NT	0.00310
Chlorobenzene	1000	~	NT	0.00310
Chloroethane	~	~	NT	0.00310
Chloroform	700	~	NT	0.00310
Chloromethane	~	~	NT	0.00310
cis-1,2-Dichloroethylene	1000	~	NT	0.00310
cis-1,3-Dichloropropylene	~	~	NT	0.00310
Cyclohexane	~	~	NT	0.00310
Dibromochloromethane	~	~	NT	0.00310
Dibromomethane	~	~	NT	0.00310
Dichlorodifluoromethane	~	~	NT	0.00310
Ethyl Benzene	780	~	NT	0.00310
Hexachlorobutadiene	~	~	NT	0.00310
Isopropylbenzene	~	~	NT	0.00310
Methyl acetate	~	~	NT	0.00310
Methyl tert-butyl ether (MTBE)	1000	~	NT	0.00310
Methylcyclohexane	~	~	NT	0.00310
Methylene chloride	1000	~	NT	0.00620
n-Butylbenzene	1000	~	NT	0.00310
n-Propylbenzene	1000	~	NT	0.00310
o-Xylene	~	~	NT	0.00310
p- & m- Xylenes	~	~	NT	0.00620
p-Isopropyltoluene	~	~	NT	0.00310
sec-Butylbenzene	1000	~	NT	0.00310
Styrene	~	~	NT	0.00310
tert-Butyl alcohol (TBA)	~	~	NT	0.00310
tert-Butylbenzene	1000	~	NT	0.00310
Tetrachloroethylene	300	~	NT	0.00310
Toluene	1000	~	NT	0.00310
trans-1,2-Dichloroethylene	1000	~	NT	0.00310
trans-1,3-Dichloropropylene	~	~	NT	0.00310
trans-1,4-dichloro-2-butene	~	~	NT	0.00310
Trichloroethylene	400	~	NT	0.00310
Trichlorofluoromethane	~	~	NT	0.00310
Vinyl Chloride	27	~	NT	0.00310
Xylenes, Total	1000	~	NT	0.00930
Volatile Organics, TCLP RCRA List	mg/Kg		mg/L	
Dilution Factor			10	
1,1-Dichloroethylene	1000	~	0.0250	U
1,2-Dichloroethane	60	~	0.0250	U
1,4-Dichlorobenzene	250	~	0.0250	U
2-Butanone	1000	~	0.0250	U
Benzene	89	~	0.0250	U
Carbon tetrachloride	44	~	0.0250	U
Chlorobenzene	1000	~	0.0250	U
Chloroform	700	~	0.0250	U
Tetrachloroethylene	300	~	0.0250	U
Trichloroethylene	400	~	0.0250	U
Vinyl Chloride	27	~	0.0250	U

Table 3
Waste Characterization Sample Results
LIRR Bayside Substation, Queens, New York

Sample ID York ID Sampling Date Client Matrix	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Industrial	Maximum Concentration Toxicity Characteristic	BS-CS-1 19J0828-07 10/16/2019 12:30:00 PM Soil	BS-CS-1-VOC grab #7 (0-0.5') 19J0828-08 10/16/2019 12:30:00 PM Soil
Compound			Result	Result
Volatile Organics, Tentatively Identified Cmpds.				mg/kg
Dilution Factor				1
Tentatively Identified Compounds		~	NT	0
Semi-Volatiles, 8270 - Comprehensive	mg/Kg		mg/Kg	
Dilution Factor			2	
1,1-Biphenyl	~	~	0.0476	U
1,2,4,5-Tetrachlorobenzene	~	~	0.0951	U
1,2,4-Trichlorobenzene	~	~	0.0476	U
1,2-Dichlorobenzene	1000	~	0.0476	U
1,2-Diphenylhydrazine (as Azobenzene)	~	~	0.0476	U
1,3-Dichlorobenzene	560	~	0.0476	U
1,4-Dichlorobenzene	250	~	0.0476	U
2,3,4,6-Tetrachlorophenol	~	~	0.0951	U
2,4,5-Trichlorophenol	~	~	0.0476	U
2,4,6-Trichlorophenol	~	~	0.0476	U
2,4-Dichlorophenol	~	~	0.0476	U
2,4-Dimethylphenol	~	~	0.0476	U
2,4-Dinitrophenol	~	~	0.0951	U
2,4-Dinitrotoluene	~	~	0.0476	U
2,6-Dinitrotoluene	~	~	0.0476	U
2-Chloronaphthalene	~	~	0.0476	U
2-Chlorophenol	~	~	0.0476	U
2-Methylnaphthalene	~	~	0.0540	JD
2-Methylphenol	1000	~	0.0476	U
2-Nitroaniline	~	~	0.0951	U
2-Nitrophenol	~	~	0.0476	U
3- & 4-Methylphenols	~	~	0.0476	U
3,3-Dichlorobenzidine	~	~	0.0476	U
3-Nitroaniline	~	~	0.0951	U
4,6-Dinitro-2-methylphenol	~	~	0.0951	U
4-Bromophenyl phenyl ether	~	~	0.0476	U
4-Chloro-3-methylphenol	~	~	0.0476	U
4-Chloroaniline	~	~	0.0476	U
4-Chlorophenyl phenyl ether	~	~	0.0476	U
4-Nitroaniline	~	~	0.0951	U
4-Nitrophenol	~	~	0.0951	U
Acenaphthene	1000	~	0.125	D
Acenaphthylene	1000	~	0.0476	U
Acetophenone	~	~	0.0476	U
Aniline	~	~	0.190	U
Anthracene	1000	~	0.223	D
Atrazine	~	~	0.0476	U
Benzaldehyde	~	~	0.0476	U
Benzidine	~	~	0.190	U
Benzo(a)anthracene	11	~	0.690	D
Benzo(a)pyrene	1.1	~	0.653	D
Benzo(b)fluoranthene	11	~	0.593	D
Benzo(g,h,i)perylene	1000	~	0.374	D
Benzo(k)fluoranthene	110	~	0.538	D
Benzoic acid	~	~	0.0476	U
Benzyl alcohol	~	~	0.0476	U
Benzyl butyl phthalate	~	~	0.0476	U
Bis(2-chloroethoxy)methane	~	~	0.0476	U
Bis(2-chloroethyl)ether	~	~	0.0476	U
Bis(2-chloroisopropyl)ether	~	~	0.0476	U
Bis(2-ethylhexyl)phthalate	~	~	0.0476	U
Caprolactam	~	~	0.0951	U
Carbazole	~	~	0.0798	JD
Chrysene	110	~	0.631	D
Dibenzo(a,h)anthracene	1.1	~	0.135	D
Dibenzofuran	1000	~	0.0476	U
Diethyl phthalate	~	~	0.0476	U
Dimethyl phthalate	~	~	0.0476	U
Di-n-butyl phthalate	~	~	0.0476	U
Di-n-octyl phthalate	~	~	0.0476	U
Fluoranthene	1000	~	1.330	D
Fluorene	1000	~	0.0882	JD
Hexachlorobenzene	12	~	0.0476	U
Hexachlorobutadiene	~	~	0.0476	U
Hexachlorocyclopentadiene	~	~	0.0476	U
Hexachloroethane	~	~	0.0476	U
Indeno(1,2,3-cd)pyrene	11	~	0.437	D
Isophorone	~	~	0.0476	U
Naphthalene	1000	~	0.0476	U
Nitrobenzene	~	~	0.0476	U
N-Nitrosodimethylamine	~	~	0.0476	U
N-nitroso-di-n-propylamine	~	~	0.0476	U
N-Nitrosodiphenylamine	~	~	0.0476	U
Pentachlorophenol	55	~	0.0476	U
Phenanthrene	1000	~	0.830	D
Phenol	1000	~	0.0476	U
Pyrene	1000	~	1.090	D

Table 3
Waste Characterization Sample Results
LIRR Bayside Substation, Queens, New York

Sample ID York ID Sampling Date Client Matrix	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Industrial	Maximum Concentration Toxicity Characteristic	BS-CS-1 19J0828-07 10/16/2019 12:30:00 PM Soil	BS-CS-1-VOC grab #7 (0-0.5') 19J0828-08 10/16/2019 12:30:00 PM Soil
Compound			Result	Result
Semi-Volatiles, TCLP RCRA Target List	mg/Kg		mg/L	
Dilution Factor			1	
1,4-Dichlorobenzene	250	~	0.00645	U NT
2,4,5-Trichlorophenol	~	~	0.00722	U NT
2,4,6-Trichlorophenol	~	~	0.00654	U NT
2,4-Dinitrotoluene	~	~	0.00473	U NT
2-Methylphenol	1000	~	0.00171	U NT
3- & 4-Methylphenols	~	~	0.00743	U NT
Cresols, total	~	~	0.00740	U NT
Hexachlorobenzene	12	~	0.00591	U NT
Hexachlorobutadiene	~	~	0.00662	U NT
Hexachloroethane	~	~	0.00726	U NT
Nitrobenzene	~	~	0.00393	U NT
Pentachlorophenol	55	~	0.00753	U NT
Pyridine	~	~	0.00637	U NT
Semi-Volatiles, Tentatively Identified Cmpds.			mg/kg	
Dilution Factor			2	
Tentatively Identified Compounds	~	~	0	U NT
Total Petroleum Hydrocarbons-DRO (C10-C28)			mg/kg	
Dilution Factor			1	
Total Petroleum Hydrocarbons-DRO	~	~	28.500	NT
Pesticides, 8081 target list	mg/Kg		mg/Kg	
Dilution Factor			5	
4,4'-DDD	180	~	0.00189	U NT
4,4'-DDE	120	~	0.00189	U NT
4,4'-DDT	94	~	0.00189	U NT
Aldrin	1.4	~	0.00189	U NT
alpha-BHC	6.8	~	0.00189	U NT
alpha-Chlordane	47	~	0.00189	U NT
beta-BHC	14	~	0.00189	U NT
Chlordane, total	~	~	0.0379	U NT
delta-BHC	1000	~	0.00189	U NT
Dieldrin	2.8	~	0.00189	U NT
Endosulfan I	920	~	0.00189	U NT
Endosulfan II	920	~	0.00189	U NT
Endosulfan sulfate	920	~	0.00189	U NT
Endrin	410	~	0.00189	U NT
Endrin aldehyde	~	~	0.00189	U NT
Endrin ketone	~	~	0.00189	U NT
gamma-BHC (Lindane)	23	~	0.00189	U NT
gamma-Chlordane	~	~	0.00189	U NT
Heptachlor	29	~	0.00189	U NT
Heptachlor epoxide	~	~	0.00189	U NT
Methoxychlor	~	~	0.00947	U NT
Toxaphene	~	~	0.0958	U NT
Beryllium by EPA 6010	mg/Kg		mg/Kg	
Dilution Factor			1	
Beryllium	2700	~	0.0579	U NT
Copper by EPA 6010	mg/Kg		mg/Kg	
Dilution Factor			1	
Copper	10000	~	65.7	NT
Copper, TCLP by EPA 6010	mg/Kg		mg/L	
Dilution Factor			1	
Copper	10000	~	0.500	U NT
Metals, RCRA	mg/Kg		mg/Kg	
Dilution Factor			1	
Arsenic	16	~	23.7	NT
Barium	10000	~	53.400	NT
Cadmium	60	~	0.348	U NT
Chromium	~	~	15.100	NT
Lead	3900	~	39.500	NT
Selenium	6800	~	2.900	U NT
Silver	6800	~	0.579	U NT
Metals, TCLP RCRA		mg/L	mg/L	
Dilution Factor			1	
Arsenic	~	5	0.375	U NT
Barium	~	100	0.625	U NT
Cadmium	~	1	0.0750	U NT
Chromium	~	5	0.125	U NT
Lead	~	5	0.125	U NT
Selenium	~	1	0.625	U NT
Silver	~	5	0.125	U NT
Nickel by EPA 6010	mg/Kg		mg/Kg	
Dilution Factor			1	
Nickel	10000	~	13.500	NT
Nickel, TCLP by EPA 6010			mg/L	
Dilution Factor			1	
Nickel	~	~	0.250	U NT
Vanadium by EPA 6010			mg/kg	
Dilution Factor			1	
Vanadium	~	~	21.100	NT

Table 3
Waste Characterization Sample Results
LIRR Bayside Substation, Queens, New York

Sample ID York ID Sampling Date Client Matrix	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Industrial	Maximum Concentration Toxicity Characteristic	BS-CS-1 19J0828-07 10/16/2019 12:30:00 PM Soil	BS-CS-1-VOC grab #7 (0-0.5') 19J0828-08 10/16/2019 12:30:00 PM Soil
Compound			Result	Result
Zinc by EPA 6010	mg/Kg		mg/Kg	
Dilution Factor			1	
Zinc	10000	~	81.400	NT
Zinc, TCLP by EPA 6010			mg/L	
Dilution Factor			1	
Zinc	~	~	0.625	U NT
Mercury by 7473	mg/Kg		mg/Kg	
Dilution Factor			1	
Mercury	5.7	~	1.34	NT
Mercury TCLP by 7473	mg/L		mg/L	
Dilution Factor			1	
Mercury	0.2	0.200	0.00020	U NT
Chromium, Hexavalent	mg/Kg		mg/Kg	
Dilution Factor			1	
Chromium, Hexavalent	800	~	0.579	U NT
Corrosivity by SM 4500/EPA 9045D			pH units	
pH	~	<=2 or >=12.5	1	
			9.770	NT
Cyanide, Total	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	
Cyanide, total	10000	250	0.579	U NT
Ignitability			-	
Dilution Factor			1	
Ignitability	~	Ignit.	Non-Ignit.	NT
ORP (Oxidation-Reduction Potential)(Ag/AgCl)			mV	
Dilution Factor			1	
ORP (Oxidation-Reduction Potential) (Ag/AgCl)	~	~	350	NT
pH			pH units	
Dilution Factor			1	
pH	~	<=2 or >=12.5	7.110	NT
Reactivity-Cyanide			mg/kg	
Dilution Factor			1	
Reactivity - Cyanide	~	250	0.250	U NT
Reactivity-Sulfide			mg/kg	
Dilution Factor			1	
Reactivity - Sulfide	~	500	16	NT
Herbicides, NJDEP/TCL/Part 375 List	mg/Kg		mg/Kg	
Dilution Factor			1	
2,4,5-T	~	~	0.0231	U NT
2,4,5-TP (Silvex)	1000	~	0.0231	U NT
2,4-D	~	~	0.0231	U NT
Polychlorinated Biphenyls (PCB)	mg/Kg		mg/Kg	
Dilution Factor			1	
Aroclor 1016	~	~	0.0191	U NT
Aroclor 1221	~	~	0.0191	U NT
Aroclor 1232	~	~	0.0191	U NT
Aroclor 1242	~	~	0.0191	U NT
Aroclor 1248	~	~	0.0191	U NT
Aroclor 1254	~	~	0.0191	U NT
Aroclor 1260	~	~	0.0191	U NT
Total PCBs	25	~	0.0191	U NT

NOTES:

Regulatory Exceedences are highlighted.

Table 4
Analytical Results and Associated Limits for Imported Material
LIRR Bayside Substation, Queens, New York

Sample ID York ID Sampling Date Client Matrix	Allowable Levels for Imported Fill or Soil Residential	Allowable Levels for Imported Fill or Soil Commercial or Industrial	WC-1 g1 19K0921-01 11/21/2019 11:15:00 AM Soil	WC-1 g2 19K0921-02 11/21/2019 11:25:00 AM Soil	WC-1 g3 19K0921-03 11/21/2019 11:35:00 AM Soil
Compound	mg/Kg	mg/Kg	Result	Result	Result
Volatile Organics, NYSDEC Part 375 List					
Dilution Factor			1	1	1
1,1,1-Trichloroethane	0.68	0.68	0.00280	0.00310	0.00250
1,1-Dichloroethane	0.27	0.27	0.00280	0.00310	0.00250
1,1-Dichloroethylene	0.33	0.33	0.00280	0.00310	0.00250
1,2,4-Trimethylbenzene	3.6	3.6	0.00280	0.00310	0.00250
1,2-Dichlorobenzene	1.1	1.1	0.00280	0.00310	0.00250
1,2-Dichloroethane	0.02	0.02	0.00280	0.00310	0.00250
1,3,5-Trimethylbenzene	8.4	8.4	0.00280	0.00310	0.00250
1,3-Dichlorobenzene	2.4	2.4	0.00280	0.00310	0.00250
1,4-Dichlorobenzene	1.8	1.8	0.00280	0.00310	0.00250
1,4-Dioxane	0.1	0.1	0.0570	0.0620	0.0510
2-Butanone	0.12	0.12	0.00280	0.00310	0.00250
Acetone	0.05	0.05	0.0460	0.00620	0.0120
Benzene	0.06	0.06	0.00280	0.00310	0.00250
Carbon tetrachloride	0.76	0.76	0.00280	0.00310	0.00250
Chlorobenzene	1.1	1.1	0.00280	0.00310	0.00250
Chloroform	0.37	0.37	0.00280	0.00310	0.00250
cis-1,2-Dichloroethylene	0.25	0.25	0.00280	0.00310	0.00250
Ethyl Benzene	1	1	0.00280	0.00310	0.00250
Methyl tert-butyl ether (MTBE)	0.93	0.93	0.00280	0.00310	0.00250
Methylene chloride	0.05	0.05	0.00570	0.00620	0.00510
Naphthalene	12	12	0.00280	0.00310	0.00250
n-Butylbenzene	12	12	0.00280	0.00310	0.00250
n-Propylbenzene	3.9	3.9	0.00280	0.00310	0.00250
o-Xylene	~	~	0.00280	0.00310	0.00250
p- & m- Xylenes	~	~	0.00570	0.00620	0.00510
sec-Butylbenzene	11	11	0.00280	0.00310	0.00250
tert-Butylbenzene	5.9	5.9	0.00280	0.00310	0.00250
Tetrachloroethylene	1.3	1.3	0.00280	0.00310	0.00250
Toluene	0.7	0.7	0.00280	0.00310	0.00250
trans-1,2-Dichloroethylene	0.19	0.19	0.00280	0.00310	0.00250
Trichloroethylene	0.47	0.47	0.00280	0.00310	0.00250
Vinyl Chloride	0.02	0.02	0.00280	0.00310	0.00250
Xylenes, Total	0.26	1.6	0.00850	0.00930	0.00760
Semi-Volatiles, NYSDEC Part 375 List					
Dilution Factor					
2-Methylphenol	0.33	0.33	NT	NT	NT
3- & 4-Methylphenols	~	~	NT	NT	NT
Acenaphthene	98	98	NT	NT	NT
Acenaphthylene	100	107	NT	NT	NT
Anthracene	100	500	NT	NT	NT
Benzo(a)anthracene	1	1	NT	NT	NT
Benzo(a)pyrene	1	1	NT	NT	NT
Benzo(b)fluoranthene	1	1.7	NT	NT	NT
Benzo(g,h,i)perylene	100	500	NT	NT	NT
Benzo(k)fluoranthene	1	1.7	NT	NT	NT
Chrysene	1	1	NT	NT	NT
Dibenzo(a,h)anthracene	0.33	0.56	NT	NT	NT
Dibenzofuran	~	~	NT	NT	NT
Fluoranthene	100	500	NT	NT	NT
Fluorene	100	386	NT	NT	NT
Hexachlorobenzene	~	~	NT	NT	NT
Indeno(1,2,3-cd)pyrene	0.5	5.6	NT	NT	NT
Naphthalene	~	~	NT	NT	NT
Pentachlorophenol	0.8	0.8	NT	NT	NT
Phenanthrene	100	500	NT	NT	NT
Phenol	0.33	0.33	NT	NT	NT
Pyrene	100	500	NT	NT	NT
Pesticides, NYSDEC Part 375 Target List					
Dilution Factor					
4,4'-DDD	2.6	14	NT	NT	NT
4,4'-DDE	1.8	17	NT	NT	NT
4,4'-DDT	1.7	47	NT	NT	NT
Aldrin	0.019	0.19	NT	NT	NT
alpha-BHC	0.02	0.02	NT	NT	NT
alpha-Chlordane	0.91	2.9	NT	NT	NT
beta-BHC	0.072	0.09	NT	NT	NT
delta-BHC	0.25	0.25	NT	NT	NT
Dieldrin	0.039	0.1	NT	NT	NT
Endosulfan I	4.8	102	NT	NT	NT
Endosulfan II	4.8	102	NT	NT	NT
Endosulfan sulfate	4.8	200	NT	NT	NT
Endrin	0.06	0.06	NT	NT	NT
gamma-BHC (Lindane)	0.1	0.1	NT	NT	NT
Heptachlor	0.38	0.38	NT	NT	NT
Metals, Target Analyte					
Dilution Factor					
Aluminum	~	~	NT	NT	NT
Antimony	~	~	NT	NT	NT
Arsenic	16	16	NT	NT	NT
Barium	350	400	NT	NT	NT
Beryllium	14	47	NT	NT	NT

Table 4
Analytical Results and Associated Limits for Imported Material
LIRR Bayside Substation, Queens, New York

Sample ID York ID Sampling Date Client Matrix	Allowable Levels for Imported Fill or Soil Residential	Allowable Levels for Imported Fill or Soil Commercial or Industrial	WC-1 g1 19K0921-01 11/21/2019 11:15:00 AM Soil	WC-1 g2 19K0921-02 11/21/2019 11:25:00 AM Soil	WC-1 g3 19K0921-03 11/21/2019 11:35:00 AM Soil
Compound			Result Q	Result Q	Result Q
Cadmium	2.5	7.5	NT	NT	NT
Calcium	~	~	NT	NT	NT
Chromium	19	19	NT	NT	NT
Cobalt	~	~	NT	NT	NT
Copper	270	270	NT	NT	NT
Iron	~	~	NT	NT	NT
Lead	400	450	NT	NT	NT
Magnesium	~	~	NT	NT	NT
Manganese	2000	2000	NT	NT	NT
Nickel	130	130	NT	NT	NT
Potassium	~	~	NT	NT	NT
Selenium	4	4	NT	NT	NT
Silver	8.3	8.3	NT	NT	NT
Sodium	~	~	NT	NT	NT
Thallium	~	~	NT	NT	NT
Vanadium	~	~	NT	NT	NT
Zinc	2200	2480	NT	NT	NT
Mercury by 7473 Dilution Factor	mg/Kg	mg/Kg			
Mercury	0.730	0.73	NT	NT	NT
Chromium, Hexavalent Dilution Factor	mg/Kg				
Chromium, Hexavalent	19	19	NT	NT	NT
Cyanide, Total Dilution Factor	mg/Kg				
Cyanide, total	27	27	NT	NT	NT
Total Solids Dilution Factor			% 1	% 1	% 1
% Solids	~	~	97.400	95.300	98.400
Herbicides, NYSDEC Part 375 Target List Dilution Factor	mg/Kg				
2,4,5-TP (Silvex)	3.8	3.8	NT	NT	NT
Polychlorinated Biphenyls (PCB) Dilution Factor	mg/Kg	mg/Kg			
Aroclor 1016	~	~	NT	NT	NT
Aroclor 1221	~	~	NT	NT	NT
Aroclor 1232	~	~	NT	NT	NT
Aroclor 1242	~	~	NT	NT	NT
Aroclor 1248	~	~	NT	NT	NT
Aroclor 1254	~	~	NT	NT	NT
Aroclor 1260	~	~	NT	NT	NT
Total PCBs	1.000	1	NT	NT	NT

NOTES:

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Table 4
Analytical Results and Associated Limits for Imported Material
LIRR Bayside Substation, Queens, New York

Sample ID York ID Sampling Date Client Matrix	Allowable Levels for Imported Fill or Soil Residential	Allowable Levels for Imported Fill or Soil Commercial or Industrial	WC-1 Comp 19K0921-04 11/21/2019 11:36:00 AM Soil	WC-2 g1 19K0921-05 11/21/2019 12:00:00 PM Soil	WC-2 g2 19K0921-06 11/21/2019 12:05:00 PM Soil
Compound			Result	Result	Result
Volatile Organics, NYSDEC Part 375 List	mg/Kg	mg/Kg		mg/Kg	mg/Kg
Dilution Factor				1	1
1,1,1-Trichloroethane	0.68	0.68	NT	0.00240	0.00230
1,1-Dichloroethane	0.27	0.27	NT	0.00240	0.00230
1,1-Dichloroethylene	0.33	0.33	NT	0.00240	0.00230
1,2,4-Trimethylbenzene	3.6	3.6	NT	0.00240	0.00230
1,2-Dichlorobenzene	1.1	1.1	NT	0.00240	0.00230
1,2-Dichloroethane	0.02	0.02	NT	0.00240	0.00230
1,3,5-Trimethylbenzene	8.4	8.4	NT	0.00240	0.00230
1,3-Dichlorobenzene	2.4	2.4	NT	0.00240	0.00230
1,4-Dichlorobenzene	1.8	1.8	NT	0.00240	0.00230
1,4-Dioxane	0.1	0.1	NT	0.0470	0.0460
2-Butanone	0.12	0.12	NT	0.00240	0.00230
Acetone	0.05	0.05	NT	0.00470	0.00460
Benzene	0.06	0.06	NT	0.00240	0.00230
Carbon tetrachloride	0.76	0.76	NT	0.00240	0.00230
Chlorobenzene	1.1	1.1	NT	0.00240	0.00230
Chloroform	0.37	0.37	NT	0.00240	0.00230
cis-1,2-Dichloroethylene	0.25	0.25	NT	0.00240	0.00230
Ethyl Benzene	1	1	NT	0.00240	0.00230
Methyl tert-butyl ether (MTBE)	0.93	0.93	NT	0.00240	0.00230
Methylene chloride	0.05	0.05	NT	0.00470	0.00460
Naphthalene	12	12	NT	0.00240	0.00230
n-Butylbenzene	12	12	NT	0.00240	0.00230
n-Propylbenzene	3.9	3.9	NT	0.00240	0.00230
o-Xylene	~	~	NT	0.00240	0.00230
p- & m- Xylenes	~	~	NT	0.00470	0.00460
sec-Butylbenzene	11	11	NT	0.00240	0.00230
tert-Butylbenzene	5.9	5.9	NT	0.00240	0.00230
Tetrachloroethylene	1.3	1.3	NT	0.00240	0.00230
Toluene	0.7	0.7	NT	0.00240	0.00230
trans-1,2-Dichloroethylene	0.19	0.19	NT	0.00240	0.00230
Trichloroethylene	0.47	0.47	NT	0.00240	0.00230
Vinyl Chloride	0.02	0.02	NT	0.00240	0.00230
Xylenes, Total	0.26	1.6	NT	0.00710	0.00690
Semi-Volatiles, NYSDEC Part 375 List	mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			2		
2-Methylphenol	0.33	0.33	0.0428	NT	NT
3- & 4-Methylphenols	~	~	0.0428	NT	NT
Acenaphthene	98	98	0.0428	NT	NT
Acenaphthylene	100	107	0.0428	NT	NT
Anthracene	100	500	0.0428	NT	NT
Benzo(a)anthracene	1	1	0.0428	NT	NT
Benzo(a)pyrene	1	1	0.0428	NT	NT
Benzo(b)fluoranthene	1	1.7	0.0428	NT	NT
Benzo(g,h,i)perylene	100	500	0.0428	NT	NT
Benzo(k)fluoranthene	1	1.7	0.0428	NT	NT
Chrysene	1	1	0.0428	NT	NT
Dibenzo(a,h)anthracene	0.33	0.56	0.0428	NT	NT
Dibenzofuran	~	~	0.0428	NT	NT
Fluoranthene	100	500	0.0428	NT	NT
Fluorene	100	386	0.0428	NT	NT
Hexachlorobenzene	~	~	0.0428	NT	NT
Indeno(1,2,3-cd)pyrene	0.5	5.6	0.0428	NT	NT
Naphthalene	~	~	0.0428	NT	NT
Pentachlorophenol	0.8	0.8	0.0428	NT	NT
Phenanthrene	100	500	0.0428	NT	NT
Phenol	0.33	0.33	0.0428	NT	NT
Pyrene	100	500	0.0428	NT	NT
Pesticides, NYSDEC Part 375 Target List	mg/Kg		mg/Kg		
Dilution Factor			5		
4,4'-DDD	2.6	14	0.00160	NT	NT
4,4'-DDE	1.8	17	0.00160	NT	NT
4,4'-DDT	1.7	47	0.00160	NT	NT
Aldrin	0.019	0.19	0.00160	NT	NT
alpha-BHC	0.02	0.02	0.00160	NT	NT
alpha-Chlordane	0.91	2.9	0.00160	NT	NT
beta-BHC	0.072	0.09	0.00160	NT	NT
delta-BHC	0.25	0.25	0.00160	NT	NT
Dieldrin	0.039	0.1	0.00160	NT	NT
Endosulfan I	4.8	102	0.00160	NT	NT
Endosulfan II	4.8	102	0.00160	NT	NT
Endosulfan sulfate	4.8	200	0.00160	NT	NT
Endrin	0.06	0.06	0.00160	NT	NT
gamma-BHC (Lindane)	0.1	0.1	0.00160	NT	NT
Heptachlor	0.38	0.38	0.00160	NT	NT
Metals, Target Analyte	mg/Kg		mg/Kg		
Dilution Factor			1		
Aluminum	~	~	1,650	NT	NT
Antimony	~	~	2,580	NT	NT
Arsenic	16	16	1,550	NT	NT
Barium	350	400	8,980	NT	NT
Beryllium	14	47	0.0520	NT	NT

Table 4
Analytical Results and Associated Limits for Imported Material
LIRR Bayside Substation, Queens, New York

Sample ID York ID Sampling Date Client Matrix	Allowable Levels for Imported Fill or Soil Residential	Allowable Levels for Imported Fill or Soil Commercial or Industrial	WC-1 Comp 19K0921-04 11/21/2019 11:36:00 AM Soil	WC-2 g1 19K0921-05 11/21/2019 12:00:00 PM Soil	WC-2 g2 19K0921-06 11/21/2019 12:05:00 PM Soil
Compound			Result	Result	Result
Cadmium	2.5	7.5	0.309	NT	NT
Calcium	~	~	231	NT	NT
Chromium	19	19	3.680	NT	NT
Cobalt	~	~	1.850	NT	NT
Copper	270	270	4.230	NT	NT
Iron	~	~	4,670	NT	NT
Lead	400	450	2.900	NT	NT
Magnesium	~	~	591	NT	NT
Manganese	2000	2000	69.900	NT	NT
Nickel	130	130	6.870	NT	NT
Potassium	~	~	416	NT	NT
Selenium	4	4	2.580	NT	NT
Silver	8.3	8.3	0.516	NT	NT
Sodium	~	~	51.600	NT	NT
Thallium	~	~	5.350	NT	NT
Vanadium	~	~	4.320	NT	NT
Zinc	2200	2480	6.350	NT	NT
Mercury by 7473 Dilution Factor	mg/Kg	mg/Kg	mg/Kg		
Mercury	0.730	0.73	0.0309	NT	NT
Chromium, Hexavalent Dilution Factor	mg/Kg		mg/Kg		
Chromium, Hexavalent	19	19	0.516	NT	NT
Cyanide, Total Dilution Factor	mg/Kg		mg/Kg		
Cyanide, total	27	27	0.516	NT	NT
Total Solids			%	%	%
Dilution Factor			1	1	1
% Solids	~	~	97	98.300	97.800
Herbicides, NYSDEC Part 375 Target List Dilution Factor	mg/Kg		mg/Kg		
2,4,5-TP (Silvex)	3.8	3.8	0.0205	NT	NT
Polychlorinated Biphenyls (PCB) Dilution Factor	mg/Kg	mg/Kg	mg/Kg		
Aroclor 1016	~	~	0.0167	NT	NT
Aroclor 1221	~	~	0.0167	NT	NT
Aroclor 1232	~	~	0.0167	NT	NT
Aroclor 1242	~	~	0.0167	NT	NT
Aroclor 1248	~	~	0.0167	NT	NT
Aroclor 1254	~	~	0.0167	NT	NT
Aroclor 1260	~	~	0.0167	NT	NT
Total PCBs	1.000	1	0.0167	NT	NT

NOTES:

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Table 4
Analytical Results and Associated Limits for Imported Material
LIRR Bayside Substation, Queens, New York

Sample ID York ID Sampling Date Client Matrix	Allowable Levels for Imported Fill or Soil Residential	Allowable Levels for Imported Fill or Soil Commercial or Industrial	WC-2 g3 19K0921-07 11/21/2019 12:13:00 PM Soil	WC-2 Comp 19K0921-08 11/21/2019 12:15:00 PM Soil
Compound			Result	Result
Volatile Organics, NYSDEC Part 375 List	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	
1,1,1-Trichloroethane	0.68	0.68	0.00230	U
1,1-Dichloroethane	0.27	0.27	0.00230	U
1,1-Dichloroethylene	0.33	0.33	0.00230	U
1,2,4-Trimethylbenzene	3.6	3.6	0.00230	U
1,2-Dichlorobenzene	1.1	1.1	0.00230	U
1,2-Dichloroethane	0.02	0.02	0.00230	U
1,3,5-Trimethylbenzene	8.4	8.4	0.00230	U
1,3-Dichlorobenzene	2.4	2.4	0.00230	U
1,4-Dichlorobenzene	1.8	1.8	0.00230	U
1,4-Dioxane	0.1	0.1	0.0460	U
2-Butanone	0.12	0.12	0.00230	U
Acetone	0.05	0.05	0.00460	U
Benzene	0.06	0.06	0.00230	U
Carbon tetrachloride	0.76	0.76	0.00230	U
Chlorobenzene	1.1	1.1	0.00230	U
Chloroform	0.37	0.37	0.00230	U
cis-1,2-Dichloroethylene	0.25	0.25	0.00230	U
Ethyl Benzene	1	1	0.00230	U
Methyl tert-butyl ether (MTBE)	0.93	0.93	0.00230	U
Methylene chloride	0.05	0.05	0.00460	U
Naphthalene	12	12	0.00230	U
n-Butylbenzene	12	12	0.00230	U
n-Propylbenzene	3.9	3.9	0.00230	U
o-Xylene	~	~	0.00230	U
p- & m- Xylenes	~	~	0.00460	U
sec-Butylbenzene	11	11	0.00230	U
tert-Butylbenzene	5.9	5.9	0.00230	U
Tetrachloroethylene	1.3	1.3	0.00230	U
Toluene	0.7	0.7	0.00230	U
trans-1,2-Dichloroethylene	0.19	0.19	0.00230	U
Trichloroethylene	0.47	0.47	0.00230	U
Vinyl Chloride	0.02	0.02	0.00230	U
Xylenes, Total	0.26	1.6	0.00700	U
Semi-Volatiles, NYSDEC Part 375 List	mg/Kg	mg/Kg		mg/Kg
Dilution Factor				2
2-Methylphenol	0.33	0.33	NT	0.0426
3- & 4-Methylphenols	~	~	NT	0.0426
Acenaphthene	98	98	NT	0.0426
Acenaphthylene	100	107	NT	0.0426
Anthracene	100	500	NT	0.0426
Benzo(a)anthracene	1	1	NT	0.0426
Benzo(a)pyrene	1	1	NT	0.0426
Benzo(b)fluoranthene	1	1.7	NT	0.0426
Benzo(g,h,i)perylene	100	500	NT	0.0426
Benzo(k)fluoranthene	1	1.7	NT	0.0426
Chrysene	1	1	NT	0.0426
Dibenzo(a,h)anthracene	0.33	0.56	NT	0.0426
Dibenzofuran	~	~	NT	0.0426
Fluoranthene	100	500	NT	0.0426
Fluorene	100	386	NT	0.0426
Hexachlorobenzene	~	~	NT	0.0426
Indeno(1,2,3-cd)pyrene	0.5	5.6	NT	0.0426
Naphthalene	~	~	NT	0.0426
Pentachlorophenol	0.8	0.8	NT	0.0426
Phenanthrene	100	500	NT	0.0426
Phenol	0.33	0.33	NT	0.0426
Pyrene	100	500	NT	0.0426
Pesticides, NYSDEC Part 375 Target List	mg/Kg			mg/Kg
Dilution Factor				5
4,4'-DDD	2.6	14	NT	0.00164
4,4'-DDE	1.8	17	NT	0.00164
4,4'-DDT	1.7	47	NT	0.00164
Aldrin	0.019	0.19	NT	0.00164
alpha-BHC	0.02	0.02	NT	0.00164
alpha-Chlordane	0.91	2.9	NT	0.00164
beta-BHC	0.072	0.09	NT	0.00164
delta-BHC	0.25	0.25	NT	0.00164
Dieldrin	0.039	0.1	NT	0.00164
Endosulfan I	4.8	102	NT	0.00164
Endosulfan II	4.8	102	NT	0.00164
Endosulfan sulfate	4.8	200	NT	0.00164
Endrin	0.06	0.06	NT	0.00164
gamma-BHC (Lindane)	0.1	0.1	NT	0.00164
Heptachlor	0.38	0.38	NT	0.00164
Metals, Target Analyte	mg/Kg			mg/Kg
Dilution Factor				1
Aluminum	~	~	NT	1,420
Antimony	~	~	NT	2,560
Arsenic	16	16	NT	1,530
Barium	350	400	NT	9,320
Beryllium	14	47	NT	0.0510

Table 4
Analytical Results and Associated Limits for Imported Material
LIRR Bayside Substation, Queens, New York

Sample ID York ID Sampling Date Client Matrix	Allowable Levels for Imported Fill or Soil Residential	Allowable Levels for Imported Fill or Soil Commercial or Industrial	WC-2 g3 19K0921-07 11/21/2019 12:13:00 PM Soil	WC-2 Comp 19K0921-08 11/21/2019 12:15:00 PM Soil
Compound			Result	Q
Cadmium	2.5	7.5	NT	0.307
Calcium	~	~	NT	165
Chromium	19	19	NT	4.090
Cobalt	~	~	NT	2.400
Copper	270	270	NT	4.300
Iron	~	~	NT	4,610
Lead	400	450	NT	4.070
Magnesium	~	~	NT	530
Manganese	2000	2000	NT	163
Nickel	130	130	NT	9.600
Potassium	~	~	NT	207
Selenium	4	4	NT	2.560
Silver	8.3	8.3	NT	0.512
Sodium	~	~	NT	51.200
Thallium	~	~	NT	6.150
Vanadium	~	~	NT	4.380
Zinc	2200	2480	NT	6.180
Mercury by 7473	mg/Kg	mg/Kg		mg/Kg
Dilution Factor				1
Mercury	0.730	0.73	NT	0.0307
Chromium, Hexavalent	mg/Kg			mg/Kg
Dilution Factor				1
Chromium, Hexavalent	19	19	NT	0.512
Cyanide, Total	mg/Kg			mg/Kg
Dilution Factor				1
Cyanide, total	27	27	NT	0.512
Total Solids			%	%
Dilution Factor			1	1
% Solids	~	~	97.400	97.700
Herbicides, NYSDEC Part 375 Target List	mg/Kg			mg/Kg
Dilution Factor				1
2,4,5-TP (Silvex)	3.8	3.8	NT	0.0204
Polychlorinated Biphenyls (PCB)	mg/Kg	mg/Kg		mg/Kg
Dilution Factor				1
Aroclor 1016	~	~	NT	0.0169
Aroclor 1221	~	~	NT	0.0169
Aroclor 1232	~	~	NT	0.0169
Aroclor 1242	~	~	NT	0.0169
Aroclor 1248	~	~	NT	0.0169
Aroclor 1254	~	~	NT	0.0169
Aroclor 1260	~	~	NT	0.0169
Total PCBs	1.000	1	NT	0.0169

NOTES:

Any Regulatory Exceedences are color coded by Regulation

Table 5
Soils Exceeding Unrestricted SCOs After the Remedial Action
LIRR Bayside Substation, Queens, New York

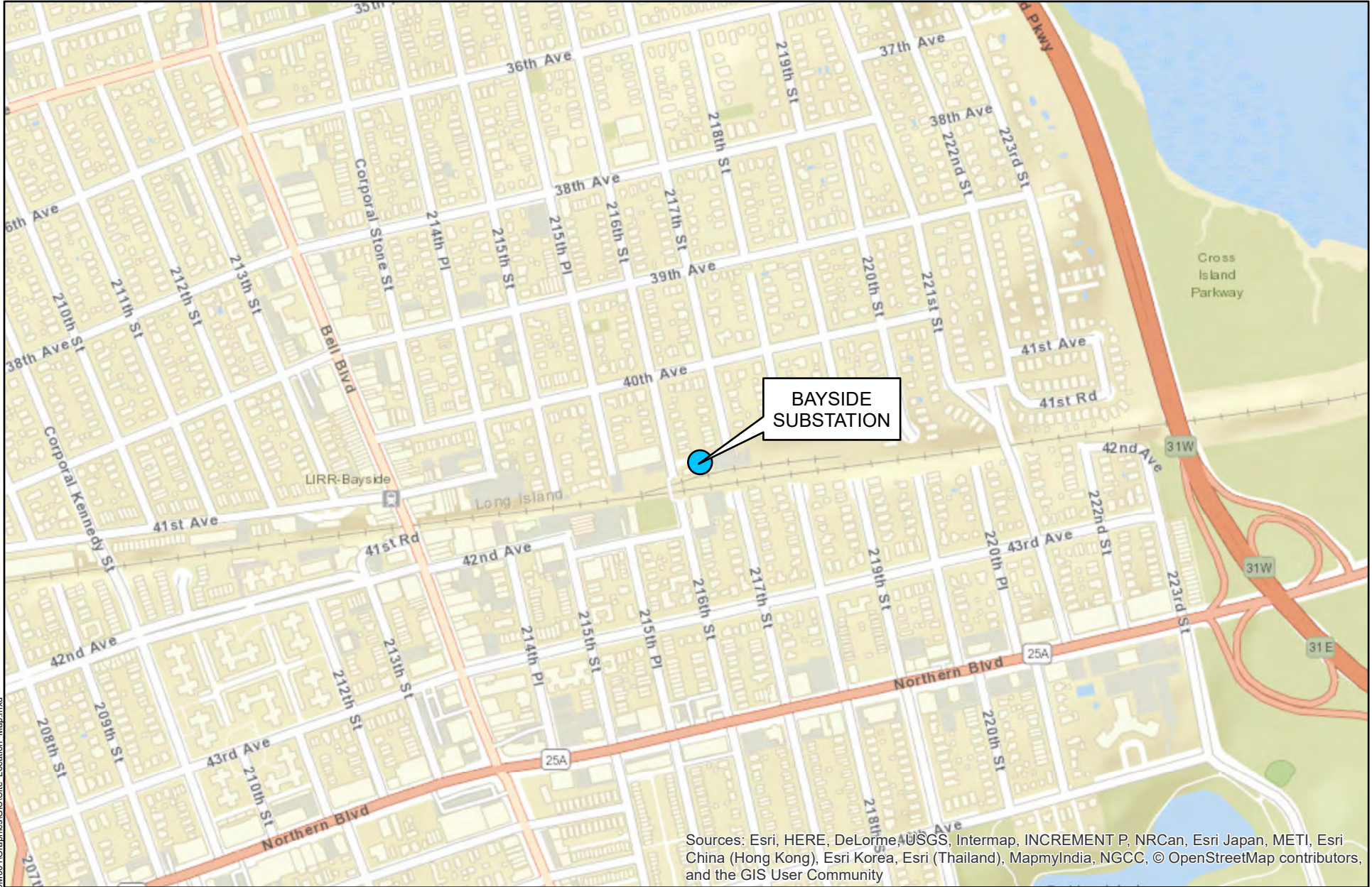
Sample ID	NYSDEC Part 375 Industrial Use Soil Cleanup Objectives	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	Sample Location	Sample Depth	Soil
Sample Location					Concentration
Lab ID					mg/kg
Date					
Arsenic	16	13	BSSS-18	Surface	15.7
Mercury	5.7	0.18	BSBEP-3	Surface below slab	3.39
Mercury	5.7	0.18	BSEP-03	1ft	0.194
Mercury	5.7	0.18	BSEP-03	1ft	0.2
Mercury	5.7	0.18	BSEP-07	1ft	0.217
Mercury	5.7	0.18	BSSB-06	2-4ft	0.603
Mercury	5.7	0.18	BSSB-09	2-4ft	4.8
Mercury	5.7	0.18	BSSB-11	2-4ft	1.4
Mercury	5.7	0.18	BSSB-12	2-4ft	0.947
Mercury	5.7	0.18	BSSB-13	2-4ft	0.38
Mercury	5.7	0.18	BSSB-14	2-4ft	0.234
Mercury	5.7	0.18	BSSB-15	2-4ft	0.261
Mercury	5.7	0.18	BSSB-16	2-4ft	0.315
Mercury	5.7	0.18	BSSB-29	2-4ft	0.192
Mercury	5.7	0.18	BSSB-37	1-2ft	1.2
Mercury	5.7	0.18	BSSB-38	1-2ft	0.22
Mercury	5.7	0.18	BSSB-39	1-2ft	0.19
Mercury	5.7	0.18	BSSB-43	1-2ft	0.23
Mercury	5.7	0.18	BSSB-49	1-2ft	0.23
Mercury	5.7	0.18	BSSS-12	Surface	0.644
Mercury	5.7	0.18	BSSS-13	Surface	1.6
Mercury	5.7	0.18	BSSS-14	Surface	0.541
Mercury	5.7	0.18	BSSS-24	Surface	0.888
Mercury	5.7	0.18	BSSS-26	Surface	0.229
Mercury	5.7	0.18	BSSS-27	Surface	0.894
Mercury	5.7	0.18	BSSS-28	Surface	0.314

mg/kg - milligrams per kilogram

3.39

-concentration exceeds the Residential Use Soil Cleanup Objective (SCO); however, this concentration does not exceed the applicable Industrial SCO of 5.7 mg/kg, as this sample location is on LIRR property within a fenced area.

Figures



Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community



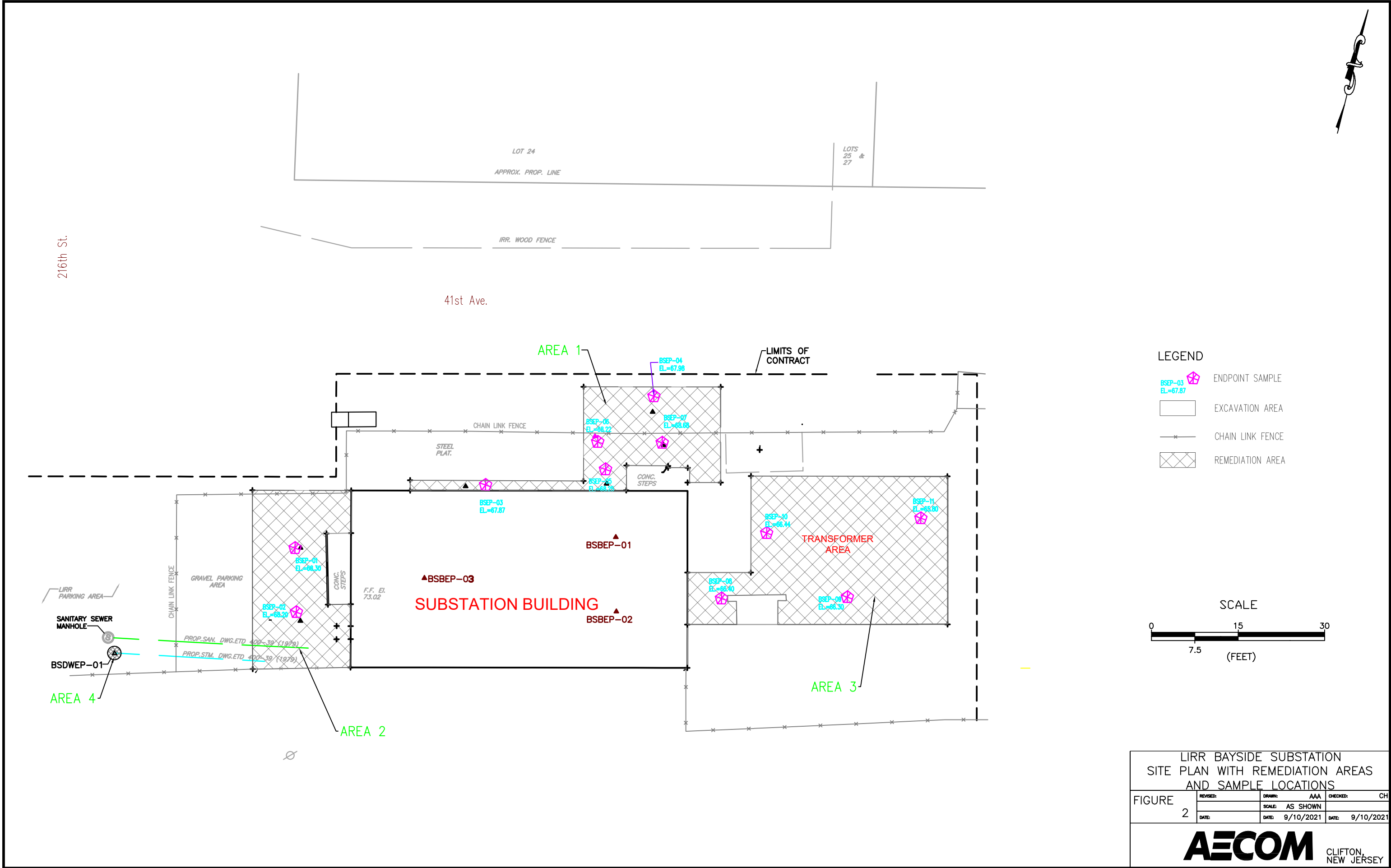
1 inch = 600 feet

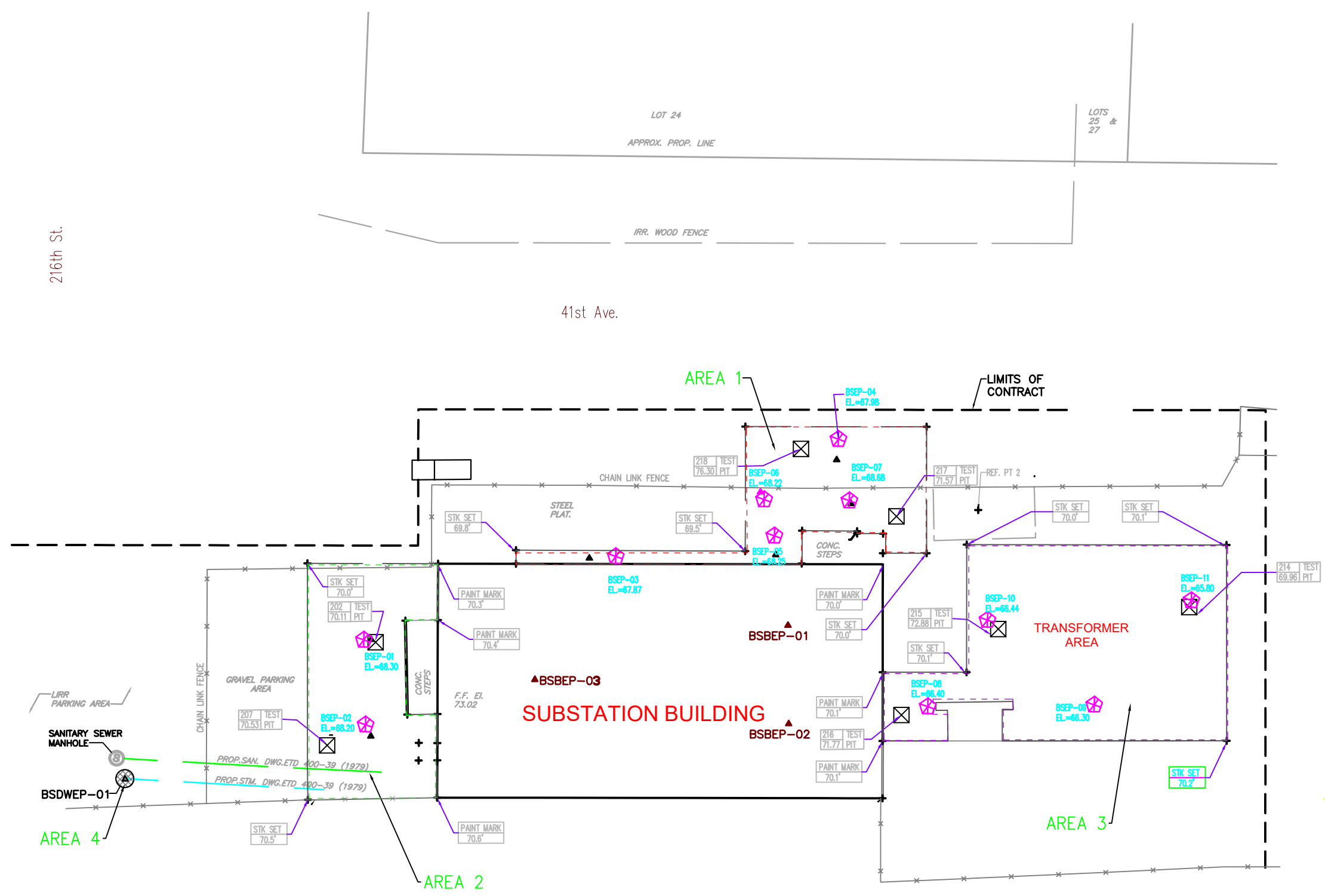


10 Park Place, Bldg 1A, Suite 504
Butler, NJ 07405

FIGURE 1
LIRR BAYSIDE SUBSTATION
SITE LOCATION MAP

Revised	Drawn	Checked	Approved	Date
	LS	AAA	TCB	5/5/2021



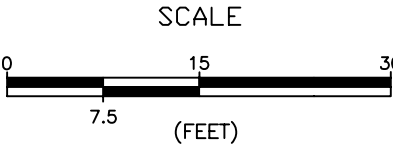


Area	Endpoint	Endpoint Elevation	Reference Elevation	Reference	Elevation Difference	Planned Depth
Area 1	BSEP-03	67.87	69.5	STK 12	1.63	1
Area 1	BSEP-04	67.98	69.5	STK 12	1.52	1
Area 1	BSEP-05	68.25	69.5	STK 12	1.25	1
Area 1	BSEP-06	68.22	69.5	STK 12	1.28	1
Area 1	BSEP-07	68.68	70	STK 3	1.32	1
Area 2	BSEP-01	68.3	70.3	STK 13	2	2
Area 2	BSEP-02	68.2	70.53	Test Pit 207	2.33	2
Area 3	BSEP-08	66.4	71.77	Test Pit 216	5.37	4
Area 3	BSEP-09	66.3	71.77	Test Pit 216	5.47	4
Area 3	BSEP-10	66.44	72.88	Test Pit 215	6.44	4
Area 3	BSEP-11	65.8	69.96	Test Pit 214	4.16	4

Test Pit 217 elevation of 71.57 and Test Pit 218 elevation of 76.3 are inconsistent with the surrounding and not used to verify the excavation depths. Elevations are from the 11/1/2019 survey prepared by Paul J. Petretti, PE, LS.

The nominal depths specified in the RAWP for each remediation area is confirmed by the surveyed elevations listed above. Detailed contours were not prepared due to the limited elevation survey data.

- LEGEND
- BSEP-03 EL=67.87 ENDPOINT SAMPLE
 - 2.0 FT CONTOUR (AREA 2)
 - 1.0 FT CONTOUR (AREA 1)
 - 4.0 FT CONTOUR (AREA 3)
 - CHAIN LINK FENCE

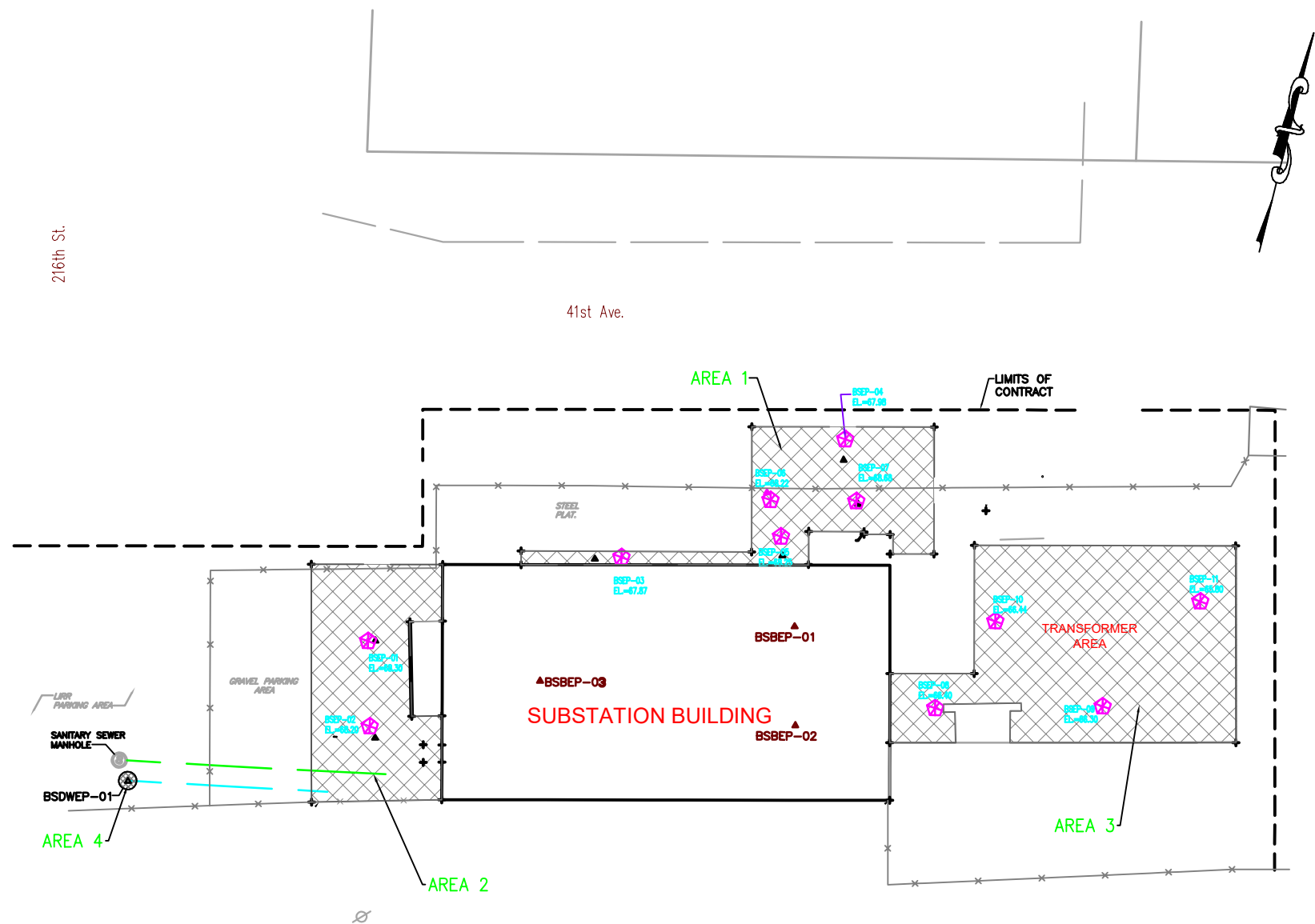


LIRR BAYSIDE SUBSTATION
SITE PLAN WITH CUT AND FILL
CONTOURS

FIGURE 3

REVISED:	DRAWN: AAA	CHECKED: CH
SCALE: AS SHOWN	DATE: 9/10/2021	DATE: 9/10/2021

AECOM CLIFTON, NEW JERSEY



Sample ID			BS-EP-03-B(1')	BS-EP-04-B(1')	BS-EP-05-B(1')	BS-EP-06-B(1')	BS-EP-07-B(1')
Remedial Area			Area #1	Area #1	Area #1	Area #1	Area #1
Sample Location			BSEP-3	BSEP-4	BSEP-5	BSEP-6	BSEP-7
Lab ID			20J0374-01	20J0602-01	20J0374-03	20J0374-04	20J0374-05
Date			10/7/2020	10/13/2020	10/7/2020	10/7/2020	10/7/2020
Mercury (mg/kg)	5.7	0.81	0.194 (0.200)	0.1	0.148	0.14	0.217

Sample ID			BS-EP-01-B(2')	BS-EP-02-B(2')			
Remedial Area			Area #2	Area #2			
Sample Location			BSEP-1	BSEP-2			
Lab ID			20J0753-01	20J0753-02			
Date			10/15/2020	10/15/2020			
Mercury (mg/kg)	5.7	0.81	ND	ND			

Sample ID			BS-EP-08-B(4)	BS-EP-09-B(4')	BS-EP-10-B(4 FT)	BS-EP-11-B(4 FT)
Remedial Area			Area #3	Area #3	Area #3	Area #3
Sample Location			BSEP-8	BSEP-9	BSEP-10	BSEP-11
Lab ID			20K0395-01	20K0836-01	20K0449-01	20K1016-01
Date			11/9/2020	11/18/2020	11/10/2020	11/23/2020
Arsenic (mg/kg)	16	16	ND	2.84	ND	ND

Sample ID			BSBEP-1	BSBEP-2	BSBEP-3
Remedial Area			Beneath Substation Building Footprint		
Sample Location			BSBEP-1	BSBEP-2	BSBEP-3
Lab ID			20L0283-01	20L0283-03	20L0283-03
Date			12/4/2020	12/4/2020	12/4/2020
Mercury (mg/kg)	5.7	0.81	0.158	0.104	3.39

(0.200) - duplicate result
mg/kg - milligrams per kilogram

3.39 - concentration exceeds the Residential Use Soil Cleanup Objective (SCO); however, this concentration does not exceed the applicable Industrial SCO of 5.7 mg/kg, as this sample location is on LIRR property within a fenced area.

ND - Not Detected

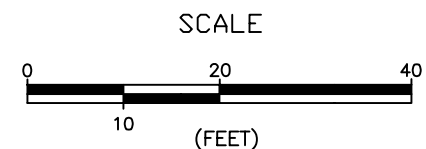
LEGEND

BS-EP-03
EL.=67.87

ENDPOINT SAMPLE

CHAIN LINK FENCE

REMEDATION AREA



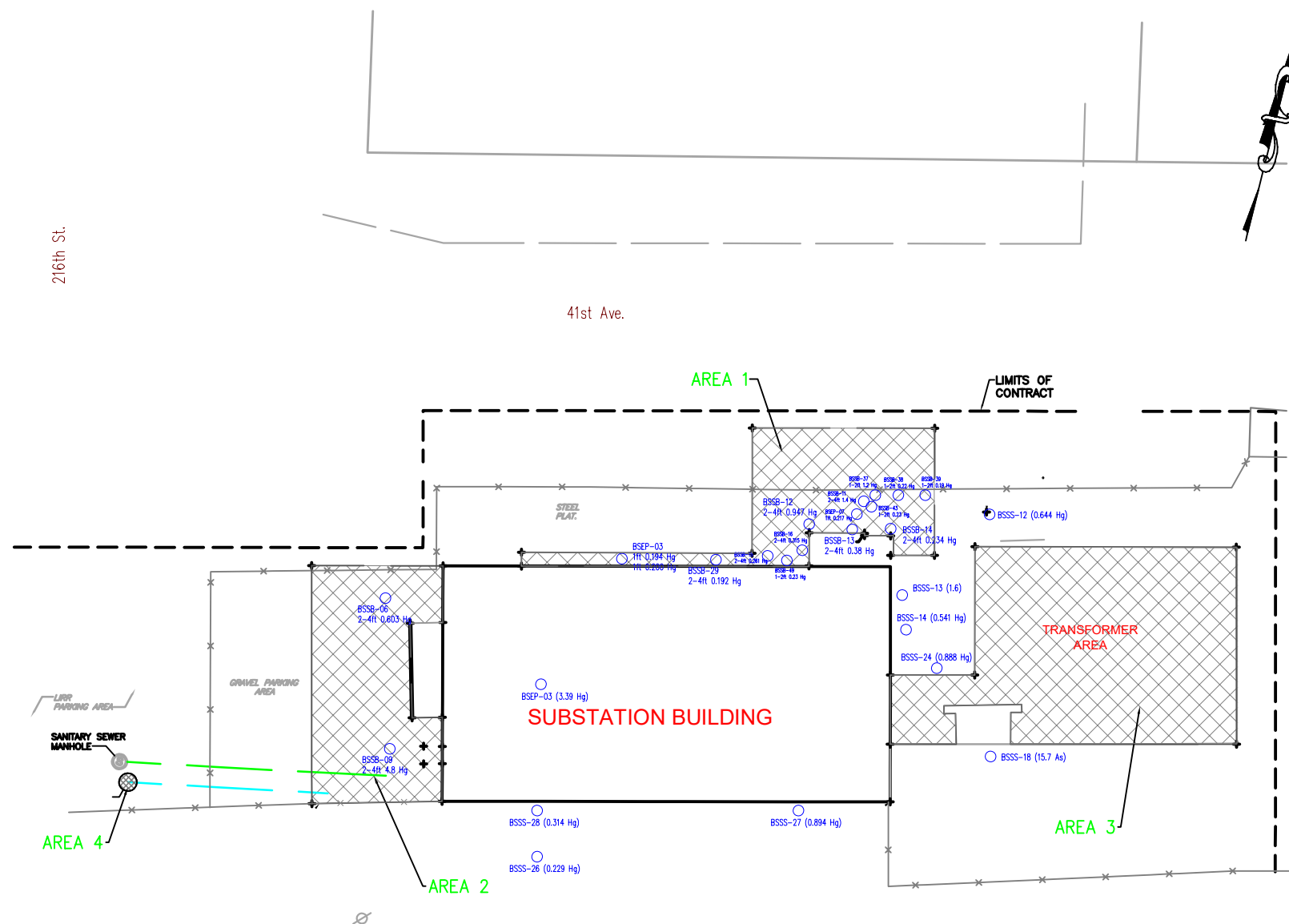
LIRR BAYSIDE SUBSTATION
SITE PLAN WITH ENDPOINT SAMPLE
LOCATIONS AND ANALYTICAL RESULTS

FIGURE 4	REVISED:	DRAWN: AAA	CHECKED: CH
	DATE: 12/23/2021	SCALE: AS SHOWN	DATE: 12/23/2021

AECOM

CLIFTON
NEW JERSEY

THE SITE CHARACTERIZATION SAMPLE LOCATIONS AND DATA REMAINING ARE FROM DVIRKA AND BARTILUCCI'S FIGURE 3-1 CONTAMINANT CONCENTRATION MAP AND FIGURE 3-2 ADDITIONAL DELINEATION MERCURY CONCENTRATION MAP FOR BAYSIDE SUBSTATION (V00386-2) PROVIDED IN TECHNICAL SPECIFICATIONS FOR CONTRACT 6302 DATED 6/15/2018. SAMPLE LOCATIONS SHOWN ARE APPROXIMATE..



LEGEND

- SOIL SAMPLE LOCATION
- ONLY SAMPLES THAT WERE NOT REMOVED BY THE EXCAVATION ARE SHOWN.
- EXCEEDING UNRESTRICTED SCOs (0.19) IS THE SURFACE SOIL CONCENTRATION
- MERCURY CONCENTRATION (Hg)
- UNRESTRICTED SCO 0.18 mg/kg
- ARSENIC CONCENTRATION (As)
- UNRESTRICTED SCO 13 mg/kg
- CONCENTRATIONS ARE IN mg/kg.

CHAIN LINK FENCE

REMEDIAION AREA

NOTE: ALTHOUGH THE MERCURY AND ARSENIC CONCENTRATIONS SHOWN DO EXCEED THE UNRESTRICTED SCOs, THEY DO NOT EXCEED THE APPLICABLE INDUSTRIAL SCOs FOR THE SITE.

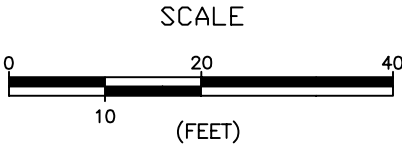


FIGURE 5

REVISED:

DATE:

DRAWN: AAA

SCALE: AS SHOWN

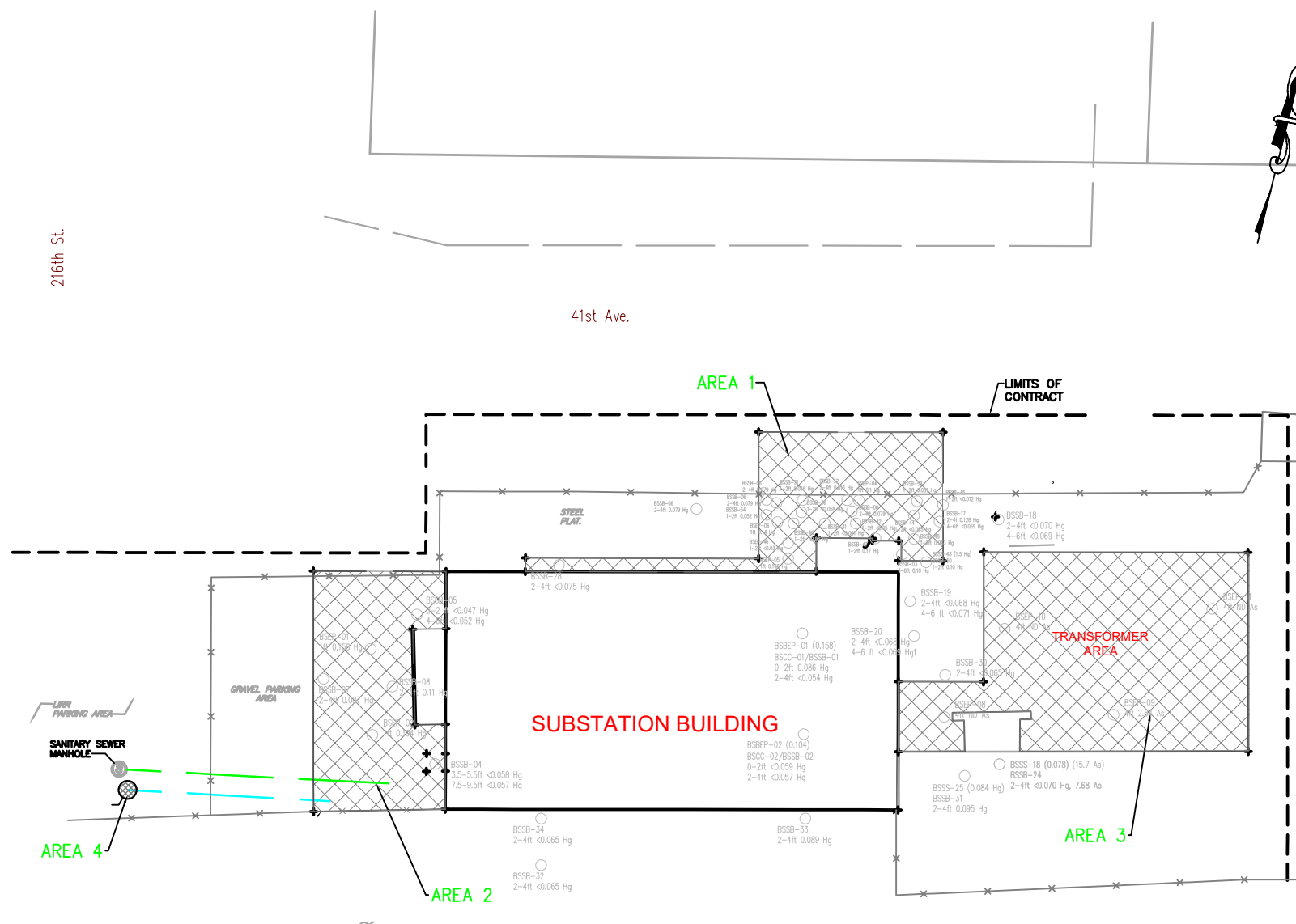
DATE: 12/23/2021

CHECKED: CH

DATE: 12/23/2021

AECOM

CLIFTON
NEW JERSEY

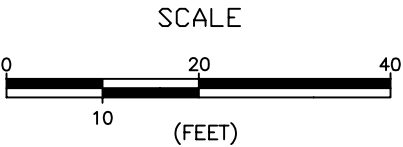


The site characterization sample locations and data remaining are from Dvirka and Bartilucci's Figure 3-1 Contaminant Concentration Map and Figure 3-2 Additional Delineation Mercury Concentration Map for Bayside Substation (V00386-2) provided in Technical Specifications for Contract 6302 dated 6/15/2018. Sample locations shown are approximate.

LEGEND

○ Soil Sample Location
Only samples that were not removed by the excavation are shown.
Compliant with Unrestricted SCOs
(0.14) is surface soil concentration
Mercury concentration (Hg)
Unrestricted SCO 0.18 mg/kg
Arsenic concentration (As)
Unrestricted SCO 13 mg/kg
Concentrations are in mg/kg.

—x— CHAIN LINK FENCE
▨ REMEDIATION AREA



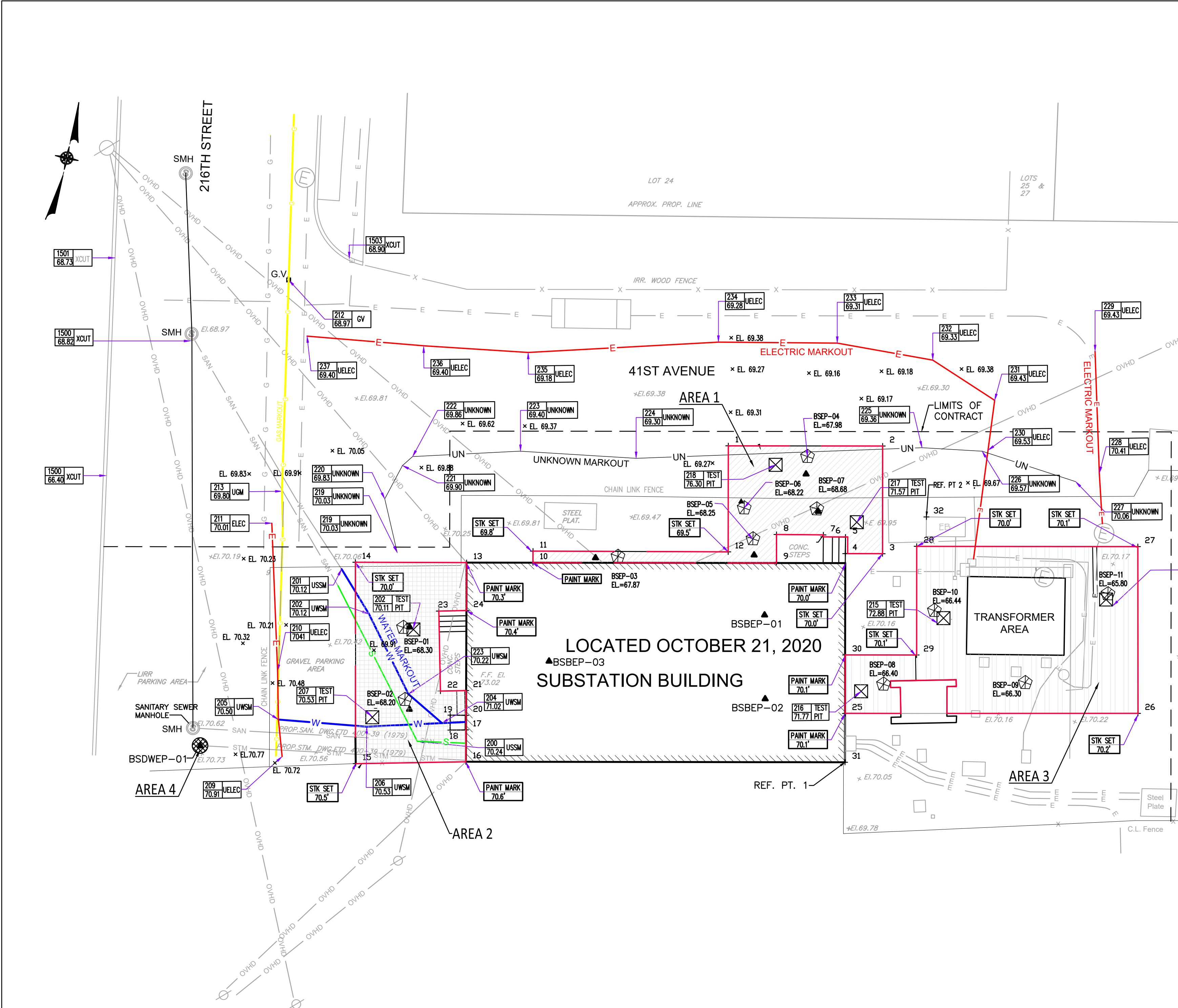
LIRR BAYSIDE SUBSTATION
SOIL RESULTS REMAINING
COMPLIANT WITH UNRESTRICTED SCOs

FIGURE 6	REVISED:	DRAWN: AAA	CHECKED: CH
		SCALE: AS SHOWN	
	DATE: 9/10/2021	DATE: 9/10/2021	DATE: 9/10/2021

AECOM
CLIFTON
NEW JERSEY

APPENDIX A

As-built Survey



SUMMARY OF SURVEY POINTS

nt	Northing	Easting	Description
1	217689.204	1048990.021	AREA 1
2	217689.915	1049013.043	AREA 1
3	217678.855	1049017.027	AREA 1
4	217677.483	1049011.477	AREA 1
5	217679.955	1049010.889	AREA 1
6	217679.163	1049007.582	AREA 1
7	217679.455	1049007.512	AREA 1
8	217677.779	1049000.510	AREA 1
9	217673.597	1049001.511	AREA 1
0	217664.518	1048965.230	AREA 1
1	217666.244	1048964.802	AREA 1
2	217673.386	1048993.938	AREA 1
3	217662.061	1048955.330	AREA 2
4	217657.980	1048938.735	AREA 2
5	217627.958	1048946.272	AREA 2
6	217632.330	1048962.630	AREA 2
7	217637.095	1048961.460	AREA 2
8	217636.464	1048959.097	AREA 2
9	217638.700	1048958.562	AREA 2
0	217639.267	1048960.926	AREA 2
1	217642.956	1048960.013	AREA 2
2	217641.926	1048956.198	AREA 2
3	217653.800	1048952.990	AREA 2
4	217654.906	1048957.085	AREA 2
5	217653.634	1049017.361	AREA 3
6	217654.642	1049061.064	AREA 3
7	217689.408	1049054.849	AREA 3
8	217681.227	1049021.853	AREA 3
9	217665.013	1049025.872	AREA 3
0	217662.370	1049015.217	AREA 3
1	217646.354	1049019.186	REF. PT. 1
2	217685.969	1049022.208	REF. PT. 2

UTILITY LEGEND

- W WATER MAIN
- E SITE LIGHT
- CD COMMUNICATION / DATA
- E ELECTRIC
- S STEAM
- G GAS
- FO FIBER OPTIC
- E_{4160V} HIGH VOLTAGE
- D STORM
- S SANITARY SEWER

ELEVATIONS AS PER PAUL J. PETRETTI P.E., LS. TAKEN ON NOVEMBER 1, 2019

X-CUT
35.2'

STK SET
33.5'

PAINT MARK
70.0'

BSEP-04
EL.=67.98

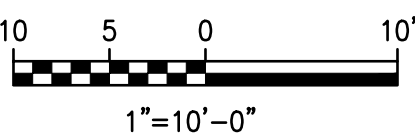
PT. No.
ELEV.

REMARK

LIMIT OF EXCAVATED
CONTAMINATED
SOIL AREA



N. Y. S. P. E. No. 49371



SYMBOLS AND ABBREVIATIONS

- TEST PIT
- SANITARY MANHOLE
- ELECTRIC MANHOLE
- DRAINAGE MANHOLE
- UTILITY POLE
- CHAIN LINK FENCE
- BURIED ELECTRIC LINE
- BURIED WATER LINE
- TELEPHONE LINE
- BURIED GAS LINE
- OVERHEAD LINE
- UNKNOWN UNDERGROUND UTILITY
- PROPOSED ENDPOINT SAMPLE LOCATION

LEGEND

- AREA TO BE EXCAVATED TO 1-FOOT BELOW GROUND SURFACE (AREA 1)
- AREA TO BE EXCAVATED TO 2 FEET BELOW GROUND SURFACE (AREA 2)
- AREA TO BE EXCAVATED TO 4 FEET BELOW GROUND SURFACE (AREA 3)
- DRYWELL TO BE EXCAVATED TO 2 FEET BELOW BOTTOM (AREA 4)
- TEST PIT

SUMMARY OF ENDPOINT SAMPLES				
AREA NO.	SQUARE FOOTAGE	NO. OF ENDPOINT SAMPLES	ENDPOINT SAMPLE ID	ENDPOINT SAMPLE ANALYSIS
AREA 1	405	5	BSEP-03 THROUGH BSEP-07	MERCURY
AREA 2	462	2	BSEP-01 AND BSEP-02	MERCURY
AREA 3	899.3	4	BSEP-08 THROUGH BSEP-11	ARSENIC
AREA 4	NA	1	BSDWEP-01	UIC PARAMETERS
BUILDING FOOTPRINT	NA	3	BSBEP-01 THROUGH BSEP-03	MERCURY

SCOPE OF WORK:

THIS SCOPE OF WORK IS A GENERAL OVERVIEW OF THE PHASING OF THE CONSTRUCTION. IT DOES NOT RELIEVE THE CONTRACTOR FROM PROVIDING A DETAILED CONSTRUCTION SCHEDULE TO THE RAILROAD FOR APPROVAL, AS REQUIRED BY THE TECHNICAL SPECIFICATIONS. IT ALSO DOES NOT RELIEVE THE CONTRACTOR OF PERFORMING ALL THE WORK AS SHOWN ON THE PLANS AND INCLUDED IN THE TECHNICAL SPECIFICATIONS.

- CONTRACTOR SHALL ATTEND A MANDATORY PRE-BID WALK THROUGH TO VISUALLY CONFIRM THE EXISTING SITE CONDITIONS WITH REGARD TO SITE AND REMEDIAL AREA ACCESS, POTENTIAL DECONTAMINATION AND TRACKING PAD LOCATIONS, SHEETING AND SHORING REQUIREMENTS, UTILITY LOCATIONS, FENCE LOCATIONS, ETC.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMITS, LICENSES, TRAINING ETC. AND PAY ALL ASSOCIATED FEES NECESSARY TO COMPLETE THE WORK.
- THE CONTRACTOR SHALL UTILIZE THE PROVIDED SURVEY COORDINATES TO LOCATE EXCAVATION LIMITS PRIOR TO PERFORMING THE WORK. THE HORIZONTAL COORDINATE SYSTEM SHOWN ON THIS DRAWING IS ARBITRARY. TWO REFERENCE POINTS ARE SHOWN SO THE CONTRACTOR CAN ESTABLISH THE COORDINATE SYSTEM IN THE FIELD.
- CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE AND EQUIPMENT DECONTAMINATION AREA PRIOR TO PERFORMING ANY EXCAVATION WORK AT THE SITE, AS DIRECTED BY THE RAILROAD (SEE DETAILS ON DWG. 3). CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND PROPER UPKEEP OF ALL ITEMS FOR THE DURATION OF THE WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING UTILITY POLES, STORMWATER DRAINAGE STRUCTURES, GUY WIRES, CHAIN LINK FENCES, RESIDENTIAL FENCING AND UTILITIES LOCATED NEAR AND WITHIN THE LIMITS OF EXCAVATION.
- CLEAR, REMOVE AND DISPOSE OFF-SITE ALL DEBRIS, BRUSH, VEGETATION AND MISCELLANEOUS ITEMS, AS NECESSARY, WITHIN THE LIMITS OF EXCAVATION.
- EXCAVATE CONTAMINATED SOIL TO THE DEPTHS INDICATED IN THE LEGEND AND DISPOSE OFF-SITE IN ACCORDANCE WITH CONTRACTOR'S APPROVED WORK PLAN AND AS DIRECTED BY THE RAILROAD. CONTRACTOR SHALL BE PERMITTED TO TEMPORARILY STORE EXCAVATED MATERIALS ON-SITE IN A PREDETERMINED SOIL STAGING AREA, AS APPROVED BY THE RAILROAD.
- SAWCUT ASPHALT AND CONCRETE, REMOVE AND DISPOSE OFF-SITE, AS NECESSARY, WITHIN THE LIMITS OF EXCAVATIONS, AS APPROVED BY THE RAILROAD.
- ERECT TEMPORARY FENCING AROUND EXCAVATION AREAS TO PROTECT EXCAVATION AREAS THROUGHOUT THE DURATION OF THE CONSTRUCTION, IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL INSTALL SHEETING AND BRACING IN EXCAVATION AREAS ON OR IN CLOSE PROXIMITY TO THE SUBSTATION BUILDING IN AREAS TO BE EXCAVATED TO 4 FEET BELOW GRADE OR DEEPER AND IN ANY OTHER EXCAVATION AREA, AS DETERMINED BY THE CONTRACTOR AND AS APPROVED BY THE RAILROAD.
- CONTRACTOR SHALL COLLECT ENDPOINT SAMPLES FROM THE BASE OF THE EXCAVATION AREAS, AS DIRECTED BY THE RAILROAD AND IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS. ENDPOINT SOIL SAMPLES BSEP-01 THROUGH BSEP-07 COLLECTED FROM EXCAVATION AREAS 1 AND 2 NORTH AND WEST OF THE SUBSTATION BUILDING SHALL BE ANALYZED FOR MERCURY BY NYSDEC ASP METHOD 7471A. ENDPOINT SOIL SAMPLES BSEP-08 THROUGH BSEP-11 COLLECTED FROM EXCAVATION AREA 3 TO THE EAST OF THE SUBSTATION BUILDING SHALL BE ANALYZED FOR ARSENIC BY NYSDEC ASP METHOD 7087A. NUMBER OF SAMPLES TO BE COLLECTED PER AREA ARE SUMMARIZED IN THE SUMMARY OF SAMPLES TABLE, AS SHOWN ON THIS DRAWING. LIRR WILL COMPARE ALL MERCURY ENDPOINT SAMPLE RESULTS TO THE NYSDEC PART 375 INDUSTRIAL USE SCOS FOR SAMPLES COLLECTED FROM FENCED PORTIONS OF THE SUBSTATION PROPERTY AND TO THE RESIDENTIAL SCOS FOR SAMPLES COLLECTED FROM UNFENCED PORTIONS OF THE SUBSTATION PROPERTY.
- UPON FINAL APPROVAL OF ENDPOINT SAMPLE RESULTS BY THE RAILROAD, BACKFILL EXCAVATION AREAS WITH GENERAL FILL MEETING THE REQUIREMENTS OF THE RESIDENTIAL USE SCOS, AT A MINIMUM, BACKFILL SHALL BE INSTALLED TO 6 INCHES BELOW GRADE. THE REMAINING 6 INCHES WILL BE BACKFILLED WITH BALLAST CONFORMING TO THE REQUIREMENTS PROVIDED IN THE TECHNICAL SPECIFICATIONS.
- THE CONTRACTOR SHALL REPLACE IN-KIND ALL AREAS OF CONCRETE SIDEWALKS, DRIVEWAY, DRIVEWAY CURBS, ASPHALT ROADWAYS, ANY FENCING DAMAGED OR REMOVED FOR OFF-SITE DISPOSAL DURING COMPLETION OF THE REMEDIAL EXCAVATIONS PER THE TECHNICAL SPECIFICATIONS.
- UPON COMPLETION OF WORK, CONTRACTOR SHALL PROVIDE DETAILED SURVEY DRAWINGS THAT CLEARLY DEFINE THE DEPTHS AND LIMITS OF EACH COMPLETED EXCAVATION AREA, ALONG WITH CORRESPONDING ENDPOINT SAMPLE LOCATIONS.
- ADDITIONAL DETAILS ARE PROVIDED BELOW BY SPECIFIC REMEDIAL AREA.

AREA 4 - DRY WELL LOCATED WEST OF SUBSTATION BUILDING (APPROXIMATELY 4 FEET DEEP, 12 FEET IN DIAMETER)

CONTRACTOR SHALL NOTIFY THE RAILROAD A MINIMUM OF FIVE (5) DAYS PRIOR TO PERFORMANCE OF WORK REQUIRED IN AREA 4. CONTRACTOR SHALL USE LIMITS OF THE DRY WELL TO BE REMOVED AS AN APPROXIMATION OF THE AREA TO BE DISTURBED AS PART OF THE WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND OFF-SITE DISPOSAL OF THE DRY WELL TOP CONCRETE SUPPORT RING, ASSOCIATED DRAINAGE PIPING WITHIN THE AREA OF EXCAVATION AND ANY CONTAMINATED SOIL TO A DEPTH OF 2-FEET BELOW ITS BOTTOM AT A MINIMUM, OR AS DEEP AS IS SAFELY POSSIBLE, AND TO AN APPROXIMATE WIDTH OF 12 FEET IN DIAMETER, AS DIRECTED BY THE RAILROAD, AND SHEETED AND SHORED, AS NECESSARY.

- EXCAVATE AND REMOVE SOIL COVERING DRY WELL, AS NECESSARY, TO EXPOSE THE TOP OF THE DRY WELL. REMOVE THE DOME, TOP SLAB AND/OR "STACK" OF THE DRY WELL, INCLUDING THE MANHOLE RIM AND COVER, IF PRESENT, AND THE TOP CONCRETE SUPPORT RING.
- EXCAVATE, REMOVE AND DISPOSE OFF-SITE DRY WELL CONTENTS FROM GRADE TO 2-FEET BELOW ITS BOTTOM AT A MINIMUM AND ANY SURROUNDING SOIL THAT IS VISUALLY STAINED OR EXHIBITING ELEVATED PID READINGS, AS DIRECTED BY THE RAILROAD.
- EXCAVATE, REMOVE AND DISPOSE OFF-SITE DRY WELL DRAINAGE PIPE LOCATED WITHIN THE DRY WELL EXCAVATION, AND ANY SURROUNDING SOIL THAT IS VISUALLY STAINED OR EXHIBITING ELEVATED PID READINGS, AND PLUG ANY REMAINING PIPES EXTENDING TO THE DRY WELL EXCAVATION AREA WITH A CONCRETE CAP, AS DIRECTED BY THE RAILROAD.
- CONTRACTOR SHALL COLLECT ONE (1) ENDPOINT SAMPLE FROM THE BOTTOM OF THE EXCAVATION AS DIRECTED BY THE RAILROAD AND IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS. THE SAMPLE SHALL BE ANALYZED FOR UIC PARAMETERS CONSISTING OF RCA METALS BY NYSDEC ASP METHOD 8010, TOTAL PETROLEUM HYDROCARBONS BY NYSDEC ASP METHOD 418, TOTAL VOLATILE ORGANIC COMPOUNDS BY NYSDEC ASP METHOD 8260, TOTAL POLYCHLORINATED BI-PHENYLS BY NYSDEC ASP METHOD 8252 AND TOTAL SEMI-VOLATILE ORGANIC COMPOUNDS BY NYSDEC ASP METHOD 8270. LIRR WILL COMPARE ENDPOINT SAMPLE RESULTS TO THE NYSDEC PART 375 PROTECTION OF GROUNDWATER SCOS.
- BACKFILL EXCAVATION AREA WITH GENERAL FILL TO 6 INCHES BELOW GRADE, CONFORMING TO THE REQUIREMENTS PROVIDED IN THE TECHNICAL SPECIFICATIONS. THE REMAINING 6 INCHES SHALL BE RESTORED WITH BALLAST.

SUBSTATION BUILDING FOOTPRINT

CONTRACTOR SHALL BE RESPONSIBLE FOR SAW-CUTTING OR CORING THROUGH THE SUBSTATION BUILDING CONCRETE FLOOR SLAB TO COLLECT SOIL SAMPLES (BSBEP-01 THROUGH BSEP-03) FROM IMMEDIATELY BENEATH THE FLOOR SLAB BOTTOM. THE SAMPLES SHALL BE ANALYZED FOR MERCURY BY NYSDEC METHOD 7471A. THE RAILROAD WILL COMPARE THE END POINT SAMPLE RESULTS TO THE NYSDEC PART 375 INDUSTRIAL USE SCOS.

NOTES:

- THE DEPTH TO GROUNDWATER AT THE SITE AT THE TIME OF THE DELINEATION PHASE II INVESTIGATION COMPLETED IN SEPTEMBER 2005 WAS MEASURED AT APPROXIMATELY 75 FEET BELOW GROUND SURFACE.
- THE LOCATIONS OF ALL UTILITIES SHOWN ARE BASED ON AVAILABLE RAILROAD INFORMATION AND FIELD MEASUREMENTS AND ARE NOT GUARANTEED TO BE COMPLETE OR ACCURATE. THE CONTRACTOR SHALL OBTAIN UTILITY MARKOUTS IN ACCORDANCE WITH ALL LOCAL AND STATE REQUIREMENTS, AS WELL AS THE REQUIREMENTS PROVIDED IN THE TECHNICAL SPECIFICATIONS. WHERE WORK UNDER THIS CONTRACT IS TO BE PERFORMED, THE CONTRACTOR SHALL NOTIFY THE RAILROAD. ALL UTILITY COMPANIES AND APPLICABLE AGENCIES AND REQUEST A MARKOUT OF THEIR LINES AND PROPERTIES IN THE FIELD IN THE AREAS OF THE PROPOSED WORK. IN ADDITION, THE CONTRACTOR SHALL PROVIDE THE SERVICES OF AN INDEPENDENT UTILITY MARKOUT SERVICE SUBCONTRACTOR QUALIFIED TO IDENTIFY AND MARKOUT ALL UTILITIES IN THE VICINITY OF THE WORK USING THE APPROPRIATE EQUIPMENT AND METHODS AVAILABLE PRIOR TO CONSTRUCTION. LASTLY, PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL ACCURATELY LOCATE EXISTING UTILITIES BY HAND DIGGING METHODS WHERE EXISTING UNDERGROUND UTILITIES ARE KNOWN TO EXIST IN THE VICINITY OF THE WORK AND WITHIN THE AREAS OF THE PROPOSED EXCAVATIONS. ALL ABOVE AND BELOW GRADE UTILITIES SHALL BE PROTECTED.
- ON-SITE ACCESS FOR COMPLETION OF REMEDIAL ACTIVITIES WILL BE PROVIDED BY LIRR DURING THE HOURS OF 9 A.M. AND 3 P.M. IN THE EVENT THAT THE SUBSTATION NEEDS TO BE DE-ENERGIZED FOR ANY PORTION OF THE CONTRACTORS WORK, WORKING HOURS WILL BE RESTRICTED TO 10 A.M. AND 2 P.M. TO ALLOW FOR THE RAILROAD TO DE-ENERGIZE THE SUBSTATION FACILITY FOR THAT OVER DAY. PREPARATION ACTIVITIES OUTSIDE THE LIMITS OF THE SITE MAY BE COMPLETED PRIOR TO THESE TIME PERIODS.
- ALL INDICATED EXCAVATION DEPTHS SHALL BE COMPLETED BY THE CONTRACTOR FROM THE TOP OF THE SOIL SURFACE AT THE SITE, BELOW ANY INSTALLED BALLAST AND RCA MATERIAL. BALLAST AND RCA MATERIAL IN THESE AREAS SHALL BE STOCKPILED BY THE CONTRACTOR FOR REINSTALLATION FOLLOWING COMPLETION OF REMEDIAL ACTIVITIES.
- UTILITIES ASSOCIATED WITH THE EXISTING SUBSTATION BUILDING WILL NOT BE DISCONNECTED AND WILL BE ACTIVE DURING PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL BE REQUIRED TO COORDINATE THEIR EFFORTS WITH THE RAILROAD PRIOR TO COMMENCEMENT OF THE WORK.
- THE TRANSFORMER YARD SHALL BE ACCESSED THROUGH THE NORTHWESTERN TRANSFORMER YARD FENCE WITHIN REMEDIAL AREA 1, WHICH THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, AS NECESSARY, AND REINSTALLING AS PART OF THE REMEDIAL ACTIVITIES. CONTRACTOR SHALL ALSO REMOVE A PORTION OF THE CHAIN-LINK FENCING EXISTING TO THE NORTH OF REMEDIAL AREA 2 FOR ACCESS TO THE AREA, AS NECESSARY, AND REINSTALL THE FENCING FOLLOWING COMPLETION OF REMEDIAL EXCAVATION ACTIVITIES IN THIS AREA. APPROPRIATE SECURITY FENCING SHALL BE INSTALLED BY THE CONTRACTOR IN THESE AREAS DURING THE REMEDIAL ACTIVITIES.
- EXCAVATIONS SHALL BE MADE TO THE HORIZONTAL AND VERTICAL LIMITS AS SHOWN HEREIN, OR AS DIRECTED BY THE RAILROAD, AND TO SUCH WIDTHS AS SHALL PROVIDE SUITABLE ROOM FOR ALL REQUIRED BRACING, SHORING AND SUPPORTING STRUCTURES. HORIZONTAL LIMITS OF EXCAVATIONS REPRESENT THE LIMITS OF THE REQUIRED EXCAVATION AT THE BOTTOM OF THE EXCAVATION AREAS.
- CONTRACTOR SHALL COLLECT AND ANALYZE WASTE CHARACTERIZATION SAMPLES PRIOR TO CONDUCTING ANY EXCAVATION WORK. WASTE CHARACTERIZATION ANALYSES SHALL CONFORM TO THE REQUIREMENTS OF THE APPROVED DISPOSAL FACILITY AND THE CONTRACTOR'S APPROVED SAMPLING PLAN. ALL SAMPLING SHALL BE CONDUCTED WITH THE RAILROAD PRESENT. EXCAVATED SOIL MAY BE STOCKPILED ON THE SUBSTATION PROPERTY, AS DIRECTED BY THE LIRR.
- EXCAVATIONS SHALL BE OPEN EXCAVATIONS, SHEETED AND BRACED WHERE NECESSARY TO PREVENT POSSIBLE INJURY TO PERSONNEL AND STRUCTURES. THE CONTRACTOR SHALL SHEET AND BRACE EXCAVATIONS WHERE SLOPING IS NOT POSSIBLE EITHER BECAUSE OF SPACE RESTRICTIONS OR STABILITY. ALL SHEETING, WHALERS, SHORING AND/OR BRACING SHALL BE DESIGNED, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF NEW YORK. THE RAILROAD WILL NOT REIMBURSE THE CONTRACTOR FOR REMOVAL, HANDLING, DISPOSAL AND BACKFILL OF ANY OVER-EXCAVATED MATERIALS.
- THE CONTRACTOR SHALL SUBMIT A SHORING PLAN TO THE RAILROAD FOR AREAS WHERE SHORING WILL BE UTILIZED DURING REMEDIATION ACTIVITIES, IF NEEDED.
- THE CONTRACTOR SHALL IMPLEMENT AN AIR MONITORING PROGRAM (AMP) THROUGHOUT THE PERFORMANCE OF THE WORK IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS PROVIDED IN THE TECHNICAL SPECIFICATIONS. THE PURPOSE OF THE AMP IS TO ENSURE THE PROPER LEVEL OF PERSONNEL PROTECTIVE EQUIPMENT IS USED TO DOCUMENT THAT THE LEVEL OF WORKER PROTECTION IS ADEQUATE, TO ASSESS THE MIGRATION OF CONTAMINANTS TO OFF-SITE RECEPTORS AS A RESULT OF THE WORK AND TO ENSURE THAT DUST CONTROL METHODS ARE SUFFICIENT.
- THE CONTRACTOR SHALL EXECUTE THE WORK TO PREVENT DAMAGE OR INJURY TO EXISTING SITE STRUCTURES, UTILITIES AND SITE FEATURES. ANY DAMAGE RESULTING FROM THE PERFORMANCE OF THE WORK SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE RAILROAD.
- CONSTRUCTION AREA AND ACCESS ROADS ALONG CONSTRUCTION AREAS SHALL BE KEPT FREE OF DEBRIS WHEN CONSTRUCTION ACTIVITIES ARE NOT OCCURRING.
- CONTRACTOR SHALL MAINTAIN ACCESS TO THE SUBSTATION BUILDING AND TRANSFORMER YARD FOR LIRR EMPLOYEES AT ALL TIMES THROUGHOUT THE DURATION OF WORK.
- CONTRACTOR SHALL EXCAVATE THE BOTTOM-MOST 6 INCHES OF EACH EXCAVATION AREA WITH A FLAT-EDGED EXCAVATION BUCKET, IN ORDER TO ENSURE A SMOOTH SURFACE TO FACILITATE THE COLLECTION OF REPRESENTATIVE ENDPOINT SAMPLES.
- THE CONTRACTOR SHALL SURVEY THE EXISTING SURFACES PRIOR TO EXCAVATION, FINAL SURFACES AND LIMITS OF THE EXCAVATION AREAS PRIOR TO FILLING, ENDPOINT SAMPLE LOCATIONS AND THE FINAL SURFACES OF GENERAL FILL FOR "AS-BUILT" CONDITIONS, CONFORMING TO THE REQUIREMENTS PROVIDED IN THE TECHNICAL SPECIFICATIONS.
- CONTRACTOR SHALL MAINTAIN ADEQUATE TEMPORARY HIGH-SECURITY FENCING TO ENSURE THE SECURITY OF THE ACTIVE TRANSFORMER YARD. IN ADDITION, ALL CHAIN-LINK FENCING AND GATES TO BE TEMPORARILY REMOVED OR REINSTALLED BY THE CONTRACTOR SHALL BE GROUND BY THE RAILROAD, AS APPROPRIATE.
- CONTRACTOR SHALL BE AWARE THAT CONCRETE FOOTINGS EXIST BELOW GRADE SURROUNDING THE SUBSTATION BUILDING, TYPICALLY EXTENDING APPROXIMATELY 6 TO 18 INCHES OUTWARD FROM THE SUBSTATION BUILDING. DETAILS ARE PROVIDED AS AN ATTACHMENT TO THE TECHNICAL SPECIFICATIONS. AS SUCH, ANY SHEETING AND SHORING PLANS FOR EXCAVATION AREAS TO BE COMPLETED ADJACENT TO THE SUBSTATION BUILDING MUST ACCOUNT FOR THESE STRUCTURES AND MUST BE SUBMITTED TO THE RAILROAD FOR REVIEW AND APPROVAL PRIOR TO THE INITIATION OF WORK. THE CONTRACTOR SHALL PROTECT THESE FOOTINGS. IN ADDITION, NOTE THAT SOILS EXISTING DIRECTLY BELOW THE FOOTINGS MAY REMAIN IN-PLACE.
- THE CONTRACTOR IS CAUTIONED THAT AN UNKNOWN QUANTITY OF SLUDGE, LIQUID AND CAUSCIOUS MATERIAL MAY EXIST WITHIN BELOW GRADE STRUCTURES, UIC STRUCTURES AND ANY ASSOCIATED PIPING LOCATED WITHIN THE VARIOUS EXCAVATION AREAS, WHICH MAY BE INFLUENCED BY PRECIPITATION TRENDS AT AND IMMEDIATELY PRECEDING THE INITIATION OF REMEDIAL ACTIVITIES. ALL SUCH MATERIALS, IF ANY, MUST BE PROPERLY CHARACTERIZED, PRIOR TO THEIR PROPER OFF-SITE DISPOSAL. ALL COSTS ASSOCIATED WITH CHARACTERIZATION, REMOVAL, HANDLING AND OFF-SITE TRANSPORTATION AND DISPOSAL OF SUCH SHALL BE INCLUDED IN CONTRACTOR'S BID.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL REQUIRED ROADWAY AND SIDEWALK CLOSURE PERMITS FOR THE DURATION OF THE REMEDIAL ACTIVITIES.
- THE EXISTING SUBSTATION BUILDING IS EQUIPPED WITH WATER SERVICE FOR USE BY THE CONTRACTOR, AS NECESSARY.

MAP SOURCE: 03-06-17 SURVEY PREPARED BY MUNICIPAL LAND SURVEY P.C. AND D&B'S FIELD OBSERVATIONS

NO.	DATE	REVISION	INT.
1	11.1.19	ELEVATIONS TAKEN ON NOVEMBER 1, 2019	PJP
2	10.23.20	ELEVATIONS TAKEN ON OCTOBER 21, 2020	PJP
3	12.07.20	ELEVATIONS TAKEN ON DECEMBER 7, 2020	PJP
4	02.08.21	ADDRESSED COMMENTS FROM JEFF MAKOWSKI AS PER EMAIL SENT ON 02/05/21	PJP
5	02.11.21	ADDRESSED COMMENTS FROM JEFF MAKOWSKI AS PER EMAIL SENT 02/10/21	PJP

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.	
PROJECT ENGINEER:	DRAWN BY:
ST	KA
DESIGNED BY:	CHECKED BY:
EH	ST

METROPOLITAN TRANSPORTATION AUTHORITY LONG ISLAND RAIL ROAD

QUEENS COUNTY

NEW YORK

GROUP D SUBSTATION REMEDIATION

BAYSIDE SUBSTATION REMEDICATION PLAN

PROJECT NO.	2801-15	DRAWING NO.
DATE:	JUNE 2018	1
SCALE:	AS NOTED	

APPENDIX B

Digital Copy of the FER (CD)

APPENDIX C

Daily Reports Including CAMP Data Sheets and Air Monitoring Data

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50		50-70	X	70-85		>85	

Project No.:		Winds From SW ~10-15mph	Date:	10/6/20
Project Name:	LIRR Group D Substation Remediation-Bayside Site-V00388-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Aarco mobilized to the site to begin to remove ballast from within area #3. Aarco/Preferred conducted a toolbox talk before any work was commenced. Received notification from LIRR substation office that Aarco will not be allowed to enter area #3 due to the energized equipment overhead. LIRR will mobilize in the next few days to de-energize the substation for the duration of the remedial work. Aarco then began to excavate area #1. Aarco excavated area #1 by hand to a depth of approximately one (1) foot bgs. Aarco stockpiled all excavated soils on plastic within area #2. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site were sampled for documentation sampling. Preferred also collected a waste classification sample from within the drywell located within area #4.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/ m ³)	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/m ³)
UP Wind	0.1	0.020	0.00	0.1	0.051	0.00
Down Wind	0.1	0.042	0.00	0.2	0.065	0.00
Work Zone	0.1	0.028	0.00	0.1	0.108	0.00

Exceedances (Since Last Report): None

Problems Encountered: Higher than normal dust readings from construction work across the street.

Planned Activities for the Next Day/ Week:

- Continue excavations of Area #1, collecting endpoint samples from area #1.



Excavating soils from area #1.



Stockpile area for all soils excavated from Area #1.

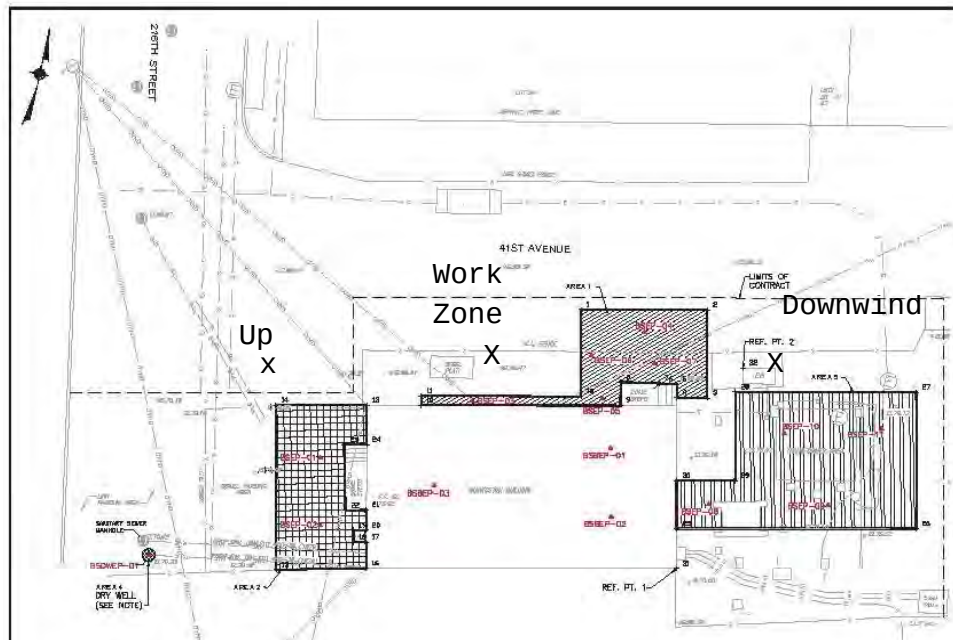


View of downwind monitoring station.



Field screening soils from drywell waste class sampling.

Monitoring Locations



LIRR Group D Substations

Bayside Substation

Upwind

October 6, 2020

Elapsed Time [s]	. OCs (PPM)	Mercury [mg/m]	Mass [mg/m3]
10:11:00 AM	0.0	0.0	
10:12:00 AM	0.1	0.0	
10:13:00 AM	0.1	0.0	0.028
10:14:00 AM	0.1	0.0	0.031
10:15:00 AM	0.1	0.0	0.029
10:16:00 AM	0.1	0.0	0.038
10:17:00 AM	0.1	0.0	0.029
10:18:00 AM	0.1	0.0	0.027
10:19:00 AM	0.1	0.0	0.029
10:20:00 AM	0.1	0.0	0.028
10:21:00 AM	0.1	0.0	0.024
10:22:00 AM	0.1	0.0	0.021
10:23:00 AM	0.1	0.0	0.020
10:24:00 AM	0.1	0.0	0.020
10:25:00 AM	0.1	0.0	0.021
10:26:00 AM	0.1	0.0	0.021
10:27:00 AM	0.1	0.0	0.021
10:28:00 AM	0.1	0.0	0.022
10:29:00 AM	0.1	0.0	0.022
10:30:00 AM	0.1	0.0	0.022
10:31:00 AM	0.1	0.0	0.022
10:32:00 AM	0.1	0.0	0.019
10:33:00 AM	0.1	0.0	0.019
10:34:00 AM	0.1	0.0	0.020
10:35:00 AM	0.1	0.0	0.018
10:36:00 AM	0.1	0.0	0.018
10:37:00 AM	0.1	0.0	0.019
10:38:00 AM	0.1	0.0	0.020
10:39:00 AM	0.1	0.0	0.020
10:40:00 AM	0.1	0.0	0.023
10:41:00 AM	0.1	0.0	0.020
10:42:00 AM	0.1	0.0	0.017
10:43:00 AM	0.1	0.0	0.027
10:44:00 AM	0.1	0.0	0.019
10:45:00 AM	0.1	0.0	0.016
10:46:00 AM	0.1	0.0	0.017
10:47:00 AM	0.1	0.0	0.024
10:48:00 AM	0.1	0.0	0.023
10:49:00 AM	0.1	0.0	0.016
10:50:00 AM	0.1	0.0	0.020
10:51:00 AM	0.1	0.0	0.017
10:52:00 AM	0.1	0.0	0.046
10:53:00 AM	0.1	0.0	0.017
10:54:00 AM	0.1	0.0	0.015
10:55:00 AM	0.1	0.0	0.015
10:56:00 AM	0.1	0.0	0.015
10:57:00 AM	0.1	0.0	0.015
10:58:00 AM	0.1	0.0	0.014
10:59:00 AM	0.1	0.0	0.015
11:00:00 AM	0.1	0.0	0.016

LIRR Group D Substations

Bayside Substation

Upwind

October 6, 2020

Elapsed Time [s]	VOCs (PPM)	Mercury [mg/m]	Mass [mg/m3]
11:01:00 AM	0.1	0.0	0.024
11:02:00 AM	0.1	0.0	0.017
11:03:00 AM	0.1	0.0	0.018
11:04:00 AM	0.1	0.0	0.019
11:05:00 AM	0.1	0.0	0.016
11:06:00 AM	0.1	0.0	0.016
11:07:00 AM	0.1	0.0	0.020
11:08:00 AM	0.1	0.0	0.016
11:09:00 AM	0.1	0.0	0.016
11:10:00 AM	0.1	0.0	0.015
11:11:00 AM	0.1	0.0	0.015
11:12:00 AM	0.1	0.0	0.016
11:13:00 AM	0.1	0.0	0.016
11:14:00 AM	0.1	0.0	0.017
11:15:00 AM	0.1	0.0	0.017
11:16:00 AM	0.1	0.0	0.015
11:17:00 AM	0.1	0.0	0.016
11:18:00 AM	0.1	0.0	0.017
11:19:00 AM	0.1	0.0	0.016
11:20:00 AM	0.1	0.0	0.021
11:21:00 AM	0.1	0.0	0.017
11:22:00 AM	0.1	0.0	0.018
11:23:00 AM	0.1	0.0	0.015
11:24:00 AM	0.1	0.0	0.014
11:25:00 AM	0.1	0.0	0.014
11:26:00 AM	0.1	0.0	0.016
11:27:00 AM	0.1	0.0	0.019
11:28:00 AM	0.1	0.0	0.017
11:29:00 AM	0.1	0.0	0.016
11:30:00 AM	0.1	0.0	0.017
11:31:00 AM	0.1	0.0	0.021
11:32:00 AM	0.1	0.0	0.017
11:33:00 AM	0.1	0.0	0.017
11:34:00 AM	0.1	0.0	0.016
11:35:00 AM	0.1	0.0	0.016
11:36:00 AM	0.1	0.0	0.018
11:37:00 AM	0.1	0.0	0.020
11:38:00 AM	0.1	0.0	0.016
11:39:00 AM	0.1	0.0	0.016
11:40:00 AM	0.1	0.0	0.017
11:41:00 AM	0.1	0.0	0.019
11:42:00 AM	0.1	0.0	0.015
11:43:00 AM	0.1	0.0	0.015
11:44:00 AM	0.1	0.0	0.014
11:45:00 AM	0.1	0.0	0.014
11:46:00 AM	0.1	0.0	0.014
11:47:00 AM	0.1	0.0	0.014
11:48:00 AM	0.1	0.0	0.014
11:49:00 AM	0.1	0.0	0.014
11:50:00 AM	0.1	0.0	0.014
11:51:00 AM	0.1	0.0	0.014

LIRR Group D Substations

Bayside Substation

Upwind

October 6, 2020

Elapsed Time [s]	VOCs (PPM)	Mercury [mg/m]	Mass [mg/m3]
11:52:00 AM	0.1	0.0	0.014
11:53:00 AM	0.1	0.0	0.014
11:54:00 AM	0.1	0.0	0.014
11:55:00 AM	0.1	0.0	0.013
11:56:00 AM	0.1	0.0	0.014
11:57:00 AM	0.1	0.0	0.013
11:58:00 AM	0.2	0.0	0.014
11:59:00 AM	0.1	0.0	0.013
12:00:00 PM	0.1	0.0	0.013
12:01:00 PM	0.1	0.0	0.013
12:02:00 PM	0.1	0.0	0.014
12:03:00 PM	0.1	0.0	0.013
12:04:00 PM	0.1	0.0	0.027
12:05:00 PM	0.1	0.0	0.020
12:06:00 PM	0.1	0.0	0.013
12:07:00 PM	0.1	0.0	0.013
12:08:00 PM	0.1	0.0	0.012
12:09:00 PM	0.1	0.0	0.013
12:10:00 PM	0.1	0.0	0.013
12:11:00 PM	0.1	0.0	0.017
12:12:00 PM	0.1	0.0	0.013
12:13:00 PM	0.1	0.0	0.014
12:14:00 PM	0.1	0.0	0.015
12:15:00 PM	0.1	0.0	0.015
12:16:00 PM	0.2	0.0	0.016
12:17:00 PM	0.1	0.0	0.017
12:18:00 PM	0.2	0.0	0.031
12:19:00 PM	0.1	0.0	0.015
12:20:00 PM	0.1	0.0	0.016
12:21:00 PM	0.1	0.0	0.015
12:22:00 PM	0.1	0.0	0.015
12:23:00 PM	0.1	0.0	0.018
12:24:00 PM	0.1	0.0	0.018
12:25:00 PM	0.1	0.0	0.039
12:26:00 PM	0.1	0.0	0.022
12:27:00 PM	0.1	0.0	0.043
12:28:00 PM	0.2	0.0	0.311
12:29:00 PM	0.2	0.0	0.027
12:30:00 PM	0.1	0.0	0.045
12:31:00 PM	0.1	0.0	0.032
12:32:00 PM	0.1	0.0	0.024
12:33:00 PM	0.2	0.0	0.033
12:34:00 PM	0.1	0.0	0.030
12:35:00 PM	0.1	0.0	0.030
12:36:00 PM	0.1	0.0	0.027
12:37:00 PM	0.2	0.0	0.026
12:38:00 PM	0.1	0.0	0.041
12:39:00 PM	0.1	0.0	0.026
12:40:00 PM	0.2	0.0	0.041
12:41:00 PM	0.1	0.0	0.020
12:42:00 PM	0.1	0.0	0.025

LIRR Group D Substations

Bayside Substation

Upwind

October 6, 2020

Elapsed Time [s]	VOCs (PPM)	Mercury [mg/m]	Mass [mg/m3]
12:43:00 PM	0.1	0.0	0.019
12:44:00 PM	0.1	0.0	0.018
12:45:00 PM	0.1	0.0	0.022
12:46:00 PM	0.1	0.0	0.025
12:47:00 PM	0.1	0.0	0.025
12:48:00 PM	0.1	0.0	0.021
12:49:00 PM	0.1	0.0	0.019
12:50:00 PM	0.1	0.0	0.018
12:51:00 PM	0.1	0.0	0.019
12:52:00 PM	0.2	0.0	0.021
12:53:00 PM	0.1	0.0	0.022
12:54:00 PM	0.1	0.0	0.020
12:55:00 PM	0.1	0.0	0.020
12:56:00 PM	0.1	0.0	0.022
12:57:00 PM	0.1	0.0	0.022
12:58:00 PM	0.1	0.0	0.032
12:59:00 PM	0.1	0.0	0.024
1:00:00 PM	0.1	0.0	0.023
1:01:00 PM	0.1	0.0	0.019
1:02:00 PM	0.1	0.0	0.017
1:03:00 PM	0.1	0.0	0.018
1:04:00 PM	0.1	0.0	0.018
1:05:00 PM	0.1	0.0	0.018
1:06:00 PM	0.1	0.0	0.019
1:07:00 PM	0.1	0.0	0.020
1:08:00 PM	0.1	0.0	0.021
1:09:00 PM	0.1	0.0	0.020
1:10:00 PM	0.1	0.0	0.018
1:11:00 PM	0.1	0.0	0.017
1:12:00 PM	0.1	0.0	0.017
1:13:00 PM	0.1	0.0	0.018
1:14:00 PM	0.1	0.0	0.018
1:15:00 PM	0.1	0.0	0.019
1:16:00 PM	0.1	0.0	0.017
1:17:00 PM	0.1	0.0	0.018
1:18:00 PM	0.1	0.0	0.021
1:19:00 PM	0.1	0.0	0.019
1:20:00 PM	0.1	0.0	0.019
1:21:00 PM	0.1	0.0	0.019
1:22:00 PM	0.1	0.0	0.018
1:23:00 PM	0.1	0.0	0.019
1:24:00 PM	0.1	0.0	0.019
1:25:00 PM	0.1	0.0	0.018
1:26:00 PM	0.1	0.0	0.018
1:27:00 PM	0.1	0.0	0.035
1:28:00 PM	0.1	0.0	0.019
1:29:00 PM	0.1	0.0	0.020
1:30:00 PM	0.1	0.0	0.016
1:31:00 PM	0.1	0.0	0.017
1:32:00 PM	0.1	0.0	0.017
1:33:00 PM	0.1	0.0	0.017

LIRR Group D Substations

Bayside Substation

Upwind

October 6, 2020

Elapsed Time [s]	VOCs (PPM)	Mercury [mg/m]	Mass [mg/m3]
1:34:00 PM	0.1	0.0	0.024
1:35:00 PM	0.1	0.0	0.018
1:36:00 PM	0.1	0.0	0.017
1:37:00 PM	0.1	0.0	0.017
1:38:00 PM	0.1	0.0	0.018
1:39:00 PM	0.1	0.0	0.021
1:40:00 PM	0.1	0.0	0.020
1:41:00 PM	0.1	0.0	0.019
1:42:00 PM	0.1	0.0	0.018
1:43:00 PM	0.1	0.0	0.021
1:44:00 PM	0.1	0.0	0.023
1:45:00 PM	0.1	0.0	0.025
1:46:00 PM	0.1	0.0	0.027
1:47:00 PM	0.1	0.0	0.018
1:48:00 PM	0.1	0.0	0.017
1:49:00 PM	0.1	0.0	0.020
1:50:00 PM	0.1	0.0	0.017
1:51:00 PM	0.1	0.0	0.017
1:52:00 PM	0.1	0.0	0.017
1:53:00 PM	0.1	0.0	0.033
1:54:00 PM	0.1	0.0	0.019
1:55:00 PM	0.1	0.0	0.016
1:56:00 PM	0.1	0.0	0.016
1:57:00 PM	0.1	0.0	0.051
1:58:00 PM	0.1	0.0	0.016
1:59:00 PM	0.1	0.0	0.016
2:00:00 PM	0.1	0.0	0.016
2:01:00 PM	0.1	0.0	0.016
2:02:00 PM	0.1	0.0	0.015
2:03:00 PM	0.1	0.0	0.015
2:04:00 PM	0.1	0.0	0.015
2:05:00 PM	0.1	0.0	0.015
2:06:00 PM	0.1	0.0	0.017
2:07:00 PM	0.1	0.0	0.017
2:08:00 PM	0.1	0.0	0.018
2:09:00 PM	0.1	0.0	0.017
2:10:00 PM	0.1	0.0	0.016
2:11:00 PM	0.1	0.0	0.019
2:12:00 PM	0.1	0.0	0.018
2:13:00 PM	0.1	0.0	0.015
2:14:00 PM	0.1	0.0	0.016
2:15:00 PM	0.1	0.0	0.015
2:16:00 PM	0.1	0.0	0.015
2:17:00 PM	0.1	0.0	0.015
2:18:00 PM	0.1	0.0	0.017
2:19:00 PM	0.1	0.0	0.017
2:20:00 PM	0.1	0.0	0.017
2:21:00 PM	0.1	0.0	0.016
2:22:00 PM	0.1	0.0	0.016
2:23:00 PM	0.1	0.0	0.016
2:24:00 PM	0.1	0.0	0.017

LIRR Group D Substations
Bayside Substation
Upwind
October 6, 2020

[illegible]

LIRR Group D Substations

Bayside Substation

Work Zone

October 6, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:23:00 AM	0.0	0.014	0.00
10:24:00 AM	0.0	0.014	0.00
10:25:00 AM	0.0	0.014	0.00
10:26:00 AM	0.0	0.013	0.00
10:27:00 AM	0.0	0.013	0.00
10:28:00 AM	0.0	0.014	0.00
10:29:00 AM	0.0	0.013	0.00
10:30:00 AM	0.0	0.017	0.00
10:31:00 AM	0.0	0.017	0.00
10:32:00 AM	0.0	0.017	0.00
10:33:00 AM	0.0	0.017	0.00
10:34:00 AM	0.0	0.017	0.00
10:35:00 AM	0.0	0.018	0.00
10:36:00 AM	0.0	0.018	0.00
10:37:00 AM	0.0	0.018	0.00
10:38:00 AM	0.0	0.016	0.00
10:39:00 AM	0.0	0.016	0.00
10:40:00 AM	0.0	0.018	0.00
10:41:00 AM	0.0	0.023	0.00
10:42:00 AM	0.0	0.016	0.00
10:43:00 AM	0.0	0.015	0.00
10:44:00 AM	0.0	0.017	0.00
10:45:00 AM	0.0	0.021	0.00
10:46:00 AM	0.0	0.015	0.00
10:47:00 AM	0.0	0.015	0.00
10:48:00 AM	0.0	0.015	0.00
10:49:00 AM	0.0	0.015	0.00
10:50:00 AM	0.0	0.015	0.00
10:51:00 AM	0.0	0.015	0.00
10:52:00 AM	0.0	0.015	0.00
10:53:00 AM	0.0	0.017	0.00
10:54:00 AM	0.0	0.014	0.00
10:55:00 AM	0.0	0.014	0.00
10:56:00 AM	0.0	0.017	0.00
10:57:00 AM	0.0	0.017	0.00
10:58:00 AM	0.0	0.017	0.00
10:59:00 AM	0.0	0.017	0.00
11:00:00 AM	0.0	0.018	0.00
11:01:00 AM	0.0	0.019	0.00
11:02:00 AM	0.0	0.017	0.00
11:03:00 AM	0.0	0.022	0.00
11:04:00 AM	0.0	0.026	0.00
11:05:00 AM	0.0	0.019	0.00
11:06:00 AM	0.0	0.018	0.00
11:07:00 AM	0.0	0.023	0.00
11:08:00 AM	0.0	0.019	0.00
11:09:00 AM	0.0	0.018	0.00
11:10:00 AM	0.0	0.017	0.00
11:11:00 AM	0.0	0.018	0.00
11:12:00 AM	0.0	0.018	0.00

LIRR Group D Substations

Bayside Substation

Work Zone

October 6, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:13:00 AM	0.0	0.017	0.00
11:14:00 AM	0.0	0.017	0.00
11:15:00 AM	0.0	0.017	0.00
11:16:00 AM	0.0	0.017	0.00
11:17:00 AM	0.0	0.018	0.00
11:18:00 AM	0.1	0.018	0.00
11:19:00 AM	0.1	0.018	0.00
11:20:00 AM	0.1	0.016	0.00
11:21:00 AM	0.1	0.016	0.00
11:22:00 AM	0.1	0.018	0.00
11:23:00 AM	0.1	0.023	0.00
11:24:00 AM	0.1	0.016	0.00
11:25:00 AM	0.1	0.015	0.00
11:26:00 AM	0.1	0.017	0.00
11:27:00 AM	0.1	0.021	0.00
11:28:00 AM	0.1	0.019	0.00
11:29:00 AM	0.1	0.018	0.00
11:30:00 AM	0.1	0.020	0.00
11:31:00 AM	0.1	0.024	0.00
11:32:00 AM	0.1	0.021	0.00
11:33:00 AM	0.1	0.019	0.00
11:34:00 AM	0.1	0.018	0.00
11:35:00 AM	0.1	0.018	0.00
11:36:00 AM	0.1	0.019	0.00
11:37:00 AM	0.1	0.019	0.00
11:38:00 AM	0.1	0.021	0.00
11:39:00 AM	0.1	0.019	0.00
11:40:00 AM	0.1	0.018	0.00
11:41:00 AM	0.1	0.019	0.00
11:42:00 AM	0.1	0.017	0.00
11:43:00 AM	0.1	0.017	0.00
11:44:00 AM	0.1	0.016	0.00
11:45:00 AM	0.1	0.016	0.00
11:46:00 AM	0.1	0.015	0.00
11:47:00 AM	0.1	0.015	0.00
11:48:00 AM	0.1	0.015	0.00
11:49:00 AM	0.1	0.015	0.00
11:50:00 AM	0.1	0.015	0.00
11:51:00 AM	0.1	0.015	0.00
11:52:00 AM	0.1	0.015	0.00
11:53:00 AM	0.1	0.017	0.00
11:54:00 AM	0.1	0.014	0.00
11:55:00 AM	0.1	0.014	0.00
11:56:00 AM	0.1	0.014	0.00
11:57:00 AM	0.1	0.014	0.00
11:58:00 AM	0.1	0.014	0.00
11:59:00 AM	0.1	0.014	0.00
12:00:00 PM	0.1	0.013	0.00
12:01:00 PM	0.1	0.013	0.00
12:02:00 PM	0.1	0.014	0.00
12:03:00 PM	0.1	0.013	0.00

LIRR Group D Substations

Bayside Substation

Work Zone

October 6, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:04:00 PM	0.1	0.017	0.00
12:05:00 PM	0.1	0.028	0.00
12:06:00 PM	0.1	0.015	0.00
12:07:00 PM	0.1	0.014	0.00
12:08:00 PM	0.1	0.014	0.00
12:09:00 PM	0.1	0.014	0.00
12:10:00 PM	0.1	0.014	0.00
12:11:00 PM	0.1	0.014	0.00
12:12:00 PM	0.2	0.015	0.00
12:13:00 PM	0.2	0.015	0.00
12:14:00 PM	0.1	0.016	0.00
12:15:00 PM	0.1	0.016	0.00
12:16:00 PM	0.1	0.017	0.00
12:17:00 PM	0.1	0.017	0.00
12:18:00 PM	0.1	0.017	0.00
12:19:00 PM	0.1	0.016	0.00
12:20:00 PM	0.1	0.016	0.00
12:21:00 PM	0.1	0.016	0.00
12:22:00 PM	0.1	0.016	0.00
12:23:00 PM	0.1	0.018	0.00
12:24:00 PM	0.1	0.018	0.00
12:25:00 PM	0.1	0.026	0.00
12:26:00 PM	0.1	0.027	0.00
12:27:00 PM	0.1	0.024	0.00
12:28:00 PM	0.2	0.089	0.00
12:29:00 PM	0.2	0.030	0.00
12:30:00 PM	0.1	0.034	0.00
12:31:00 PM	0.1	0.042	0.00
12:32:00 PM	0.1	0.029	0.00
12:33:00 PM	0.2	0.056	0.00
12:34:00 PM	0.2	0.043	0.00
12:35:00 PM	0.2	0.041	0.00
12:36:00 PM	0.2	0.030	0.00
12:37:00 PM	0.2	0.025	0.00
12:38:00 PM	0.2	0.041	0.00
12:39:00 PM	0.2	0.030	0.00
12:40:00 PM	0.2	0.023	0.00
12:41:00 PM	0.2	0.022	0.00
12:42:00 PM	0.2	0.023	0.00
12:43:00 PM	0.2	0.020	0.00
12:44:00 PM	0.2	0.027	0.00
12:45:00 PM	0.2	0.028	0.00
12:46:00 PM	0.2	0.026	0.00
12:47:00 PM	0.2	0.024	0.00
12:48:00 PM	0.2	0.021	0.00
12:49:00 PM	0.2	0.020	0.00
12:50:00 PM	0.2	0.019	0.00
12:51:00 PM	0.2	0.019	0.00
12:52:00 PM	0.2	0.021	0.00
12:53:00 PM	0.2	0.022	0.00
12:54:00 PM	0.2	0.025	0.00

LIRR Group D Substations

Bayside Substation

Work Zone

October 6, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:55:00 PM	0.2	0.024	0.00
12:56:00 PM	0.2	0.022	0.00
12:57:00 PM	0.2	0.024	0.00
12:58:00 PM	0.2	0.023	0.00
12:59:00 PM	0.2	0.025	0.00
1:00:00 PM	0.2	0.024	0.00
1:01:00 PM	0.1	0.020	0.00
1:02:00 PM	0.2	0.018	0.00
1:03:00 PM	0.2	0.020	0.00
1:04:00 PM	0.1	0.019	0.00
1:05:00 PM	0.2	0.018	0.00
1:06:00 PM	0.2	0.021	0.00
1:07:00 PM	0.2	0.022	0.00
1:08:00 PM	0.1	0.021	0.00
1:09:00 PM	0.2	0.021	0.00
1:10:00 PM	0.2	0.021	0.00
1:11:00 PM	0.1	0.020	0.00
1:12:00 PM	0.1	0.018	0.00
1:13:00 PM	0.1	0.019	0.00
1:14:00 PM	0.2	0.019	0.00
1:15:00 PM	0.2	0.019	0.00
1:16:00 PM	0.2	0.023	0.00
1:17:00 PM	0.2	0.021	0.00
1:18:00 PM	0.2	0.023	0.00
1:19:00 PM	0.2	0.021	0.00
1:20:00 PM	0.1	0.020	0.00
1:21:00 PM	0.1	0.021	0.00
1:22:00 PM	0.2	0.021	0.00
1:23:00 PM	0.2	0.022	0.00
1:24:00 PM	0.2	0.020	0.00
1:25:00 PM	0.2	0.020	0.00
1:26:00 PM	0.2	0.020	0.00
1:27:00 PM	0.2	0.022	0.00
1:28:00 PM	0.2	0.020	0.00
1:29:00 PM	0.2	0.020	0.00
1:30:00 PM	0.2	0.018	0.00
1:31:00 PM	0.2	0.019	0.00
1:32:00 PM	0.2	0.018	0.00
1:33:00 PM	0.2	0.019	0.00
1:34:00 PM	0.2	0.020	0.00
1:35:00 PM	0.2	0.020	0.00
1:36:00 PM	0.2	0.018	0.00
1:37:00 PM	0.2	0.018	0.00
1:38:00 PM	0.2	0.018	0.00
1:39:00 PM	0.2	0.018	0.00
1:40:00 PM	0.2	0.017	0.00
1:41:00 PM	0.2	0.020	0.00
1:42:00 PM	0.2	0.020	0.00
1:43:00 PM	0.2	0.020	0.00
1:44:00 PM	0.2	0.020	0.00
1:45:00 PM	0.2	0.019	0.00

LIRR Group D Substations

Bayside Substation

Work Zone

October 6, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:46:00 PM	0.2	0.023	0.00
1:47:00 PM	0.2	0.019	0.00
1:48:00 PM	0.2	0.019	0.00
1:49:00 PM	0.2	0.019	0.00
1:50:00 PM	0.2	0.018	0.00
1:51:00 PM	0.2	0.018	0.00
1:52:00 PM	0.2	0.017	0.00
1:53:00 PM	0.2	0.023	0.00
1:54:00 PM	0.2	0.019	0.00
1:55:00 PM	0.1	0.016	0.00
1:56:00 PM	0.1	0.016	0.00
1:57:00 PM	0.1	0.018	0.00
1:58:00 PM	0.1	0.016	0.00
1:59:00 PM	0.2	0.016	0.00
2:00:00 PM	0.2	0.016	0.00
2:01:00 PM	0.2	0.016	0.00
2:02:00 PM	0.2	0.017	0.00
2:03:00 PM	0.2	0.017	0.00
2:04:00 PM	0.2	0.017	0.00
2:05:00 PM	0.2	0.017	0.00
2:06:00 PM	0.2	0.020	0.00
2:07:00 PM	0.2	0.019	0.00
2:08:00 PM	0.2	0.020	0.00
2:09:00 PM	0.2	0.017	0.00
2:10:00 PM	0.2	0.020	0.00
2:11:00 PM	0.2	0.020	0.00
2:12:00 PM	0.2	0.020	0.00
2:13:00 PM	0.2	0.018	0.00
2:14:00 PM	0.2	0.018	0.00
2:15:00 PM	0.2	0.018	0.00
2:16:00 PM	0.2	0.018	0.00
2:17:00 PM	0.2	0.017	0.00
2:18:00 PM	0.2	0.020	0.00
2:19:00 PM	0.2	0.020	0.00
2:20:00 PM	0.1	0.020	0.00
2:21:00 PM	0.2	0.020	0.00
2:22:00 PM	0.2	0.019	0.00
2:23:00 PM	0.2	0.023	0.00
2:24:00 PM	0.2	0.019	0.00
2:25:00 PM	0.1	0.019	0.00
2:26:00 PM	0.1	0.019	0.00
2:27:00 PM	0.1	0.018	0.00
2:28:00 PM	0.1	0.018	0.00
2:29:00 PM	0.1	0.017	0.00
2:30:00 PM	0.1	0.023	0.00
2:31:00 PM	0.2	0.019	0.00
2:32:00 PM	0.1	0.016	0.00
2:33:00 PM	0.2		0.00
2:34:00 PM	0.1		0.00
2:35:00 PM	0.1		0.00

LIRR Group D Substations

Bayside Substation

Downwind

October 6, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:10:00 AM	0.1		
10:11:00 AM	0.1	0.070	
10:12:00 AM	0.1	0.068	
10:13:00 AM	0.1	0.067	
10:14:00 AM	0.1	0.070	
10:15:00 AM	0.1	0.068	
10:16:00 AM	0.1	0.062	
10:17:00 AM	0.1	0.063	
10:18:00 AM	0.1	0.066	
10:19:00 AM	0.1	0.063	
10:20:00 AM	1.7	0.062	
10:21:00 AM	0.4	0.056	
10:22:00 AM	0.2	0.053	
10:23:00 AM	0.1	0.049	
10:24:00 AM	0.1	0.051	
10:25:00 AM	0.1	0.051	
10:26:00 AM	0.1	0.047	
10:27:00 AM	0.1	0.061	
10:28:00 AM	0.1	0.057	
10:29:00 AM	0.1	0.059	0.00
10:30:00 AM	0.1	0.057	0.00
10:31:00 AM	0.1	0.060	0.00
10:32:00 AM	0.1	0.049	0.00
10:33:00 AM	0.1	0.049	0.00
10:34:00 AM	0.1	0.053	0.00
10:35:00 AM	0.1	0.055	0.00
10:36:00 AM	0.1	0.079	0.00
10:37:00 AM	0.1	0.057	0.00
10:38:00 AM	0.1	0.054	0.00
10:39:00 AM	0.1	0.056	0.00
10:40:00 AM	0.1	0.062	0.00
10:41:00 AM	0.1	0.054	0.00
10:42:00 AM	0.1	0.040	0.00
10:43:00 AM	0.1	0.039	0.00
10:44:00 AM	0.1	0.044	0.00
10:45:00 AM	0.1	0.043	0.00
10:46:00 AM	0.1	0.063	0.00
10:47:00 AM	0.1	0.067	0.00
10:48:00 AM	0.2	0.052	0.00
10:49:00 AM	0.1	0.042	0.00
10:50:00 AM	0.2	0.044	0.00
10:51:00 AM	0.1	0.037	0.00
10:52:00 AM	0.1	0.035	0.00
10:53:00 AM	0.1	0.045	0.00
10:54:00 AM	0.2	0.041	0.00
10:55:00 AM	0.1	0.039	0.00
10:56:00 AM	0.1	0.034	0.00
10:57:00 AM	0.1	0.034	0.00
10:58:00 AM	0.1	0.034	0.00
10:59:00 AM	0.3	0.037	0.00

LIRR Group D Substations

Bayside Substation

Downwind

October 6, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:00:00 AM	0.1	0.037	0.00
11:01:00 AM	0.1	0.039	0.00
11:02:00 AM	0.1	0.035	0.00
11:03:00 AM	0.1	0.039	0.00
11:04:00 AM	0.1	0.046	0.00
11:05:00 AM	0.1	0.038	0.00
11:06:00 AM	0.1	0.035	0.00
11:07:00 AM	0.1	0.035	0.00
11:08:00 AM	0.1	0.036	0.00
11:09:00 AM	0.1	0.036	0.00
11:10:00 AM	0.1	0.036	0.00
11:11:00 AM	0.1	0.036	0.00
11:12:00 AM	0.1	0.035	0.00
11:13:00 AM	0.1	0.034	0.00
11:14:00 AM	0.1	0.037	0.00
11:15:00 AM	0.1	0.037	0.00
11:16:00 AM	0.1	0.034	0.00
11:17:00 AM	0.1	0.036	0.00
11:18:00 AM	0.1	0.035	0.00
11:19:00 AM	0.1	0.036	0.00
11:20:00 AM	0.1	0.030	0.00
11:21:00 AM	0.1	0.031	0.00
11:22:00 AM	0.1	0.033	0.00
11:23:00 AM	0.1	0.032	0.00
11:24:00 AM	0.1	0.030	0.00
11:25:00 AM	0.1	0.029	0.00
11:26:00 AM	0.1	0.037	0.00
11:27:00 AM	0.1	0.043	0.00
11:28:00 AM	0.1	0.039	0.00
11:29:00 AM	0.1	0.036	0.00
11:30:00 AM	0.1	0.039	0.00
11:31:00 AM	0.1	0.043	0.00
11:32:00 AM	0.1	0.041	0.00
11:33:00 AM	0.1	0.036	0.00
11:34:00 AM	0.1	0.034	0.00
11:35:00 AM	0.1	0.037	0.00
11:36:00 AM	0.1	0.038	0.00
11:37:00 AM	0.1	0.035	0.00
11:38:00 AM	0.1	0.036	0.00
11:39:00 AM	0.2	0.039	0.00
11:40:00 AM	0.2	0.035	0.00
11:41:00 AM	0.2	0.036	0.00
11:42:00 AM	0.1	0.034	0.00
11:43:00 AM	0.1	0.033	0.00
11:44:00 AM	0.1	0.033	0.00
11:45:00 AM	0.1	0.032	0.00
11:46:00 AM	0.1	0.031	0.00
11:47:00 AM	0.1	0.031	0.00
11:48:00 AM	0.1	0.033	0.00
11:49:00 AM	0.1	0.032	0.00
11:50:00 AM	0.1	0.030	0.00

LIRR Group D Substations

Bayside Substation

Downwind

October 6, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:51:00 AM	0.1	0.030	0.00
11:52:00 AM	0.1	0.030	0.00
11:53:00 AM	0.1	0.030	0.00
11:54:00 AM	0.1	0.029	0.00
11:55:00 AM	0.1	0.028	0.00
11:56:00 AM	0.1	0.029	0.00
11:57:00 AM	0.1	0.030	0.00
11:58:00 AM	0.1	0.028	0.00
11:59:00 AM	0.1	0.028	0.00
12:00:00 PM	0.1	0.028	0.00
12:01:00 PM	0.1	0.027	0.00
12:02:00 PM	0.1	0.028	0.00
12:03:00 PM	0.1	0.025	0.00
12:04:00 PM	0.1	0.029	0.00
12:05:00 PM	0.1	0.034	0.00
12:06:00 PM	0.2	0.028	0.00
12:07:00 PM	0.2	0.027	0.00
12:08:00 PM	0.1	0.027	0.00
12:09:00 PM	0.1	0.028	0.00
12:10:00 PM	0.1	0.028	0.00
12:11:00 PM	0.1	0.028	0.00
12:12:00 PM	0.2	0.029	0.00
12:13:00 PM	0.2	0.030	0.00
12:14:00 PM	0.1	0.031	0.00
12:15:00 PM	0.2	0.032	0.00
12:16:00 PM	0.2	0.034	0.00
12:17:00 PM	0.2	0.035	0.00
12:18:00 PM	0.2	0.033	0.00
12:19:00 PM	0.2	0.032	0.00
12:20:00 PM	0.2	0.032	0.00
12:21:00 PM	0.2	0.035	0.00
12:22:00 PM	0.2	0.033	0.00
12:23:00 PM	0.2	0.039	0.00
12:24:00 PM	0.2	0.037	0.00
12:25:00 PM	0.2	0.053	0.00
12:26:00 PM	0.2	0.060	0.00
12:27:00 PM	0.2	0.050	0.00
12:28:00 PM	0.1	0.118	0.00
12:29:00 PM	0.1	0.058	0.00
12:30:00 PM	0.2	0.061	0.00
12:31:00 PM	0.2	0.062	0.00
12:32:00 PM	0.1	0.055	0.00
12:33:00 PM	0.2	0.069	0.00
12:34:00 PM	0.2	0.084	0.00
12:35:00 PM	0.2	0.071	0.00
12:36:00 PM	0.2	0.064	0.00
12:37:00 PM	0.2	0.051	0.00
12:38:00 PM	0.2	0.058	0.00
12:39:00 PM	0.2	0.060	0.00
12:40:00 PM	0.1	0.047	0.00
12:41:00 PM	0.2	0.042	0.00

LIRR Group D Substations

Bayside Substation

Downwind

October 6, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:42:00 PM	0.2	0.045	0.00
12:43:00 PM	0.2	0.042	0.00
12:44:00 PM	0.2	0.050	0.00
12:45:00 PM	0.2	0.055	0.00
12:46:00 PM	0.2	0.047	0.00
12:47:00 PM	0.2	0.048	0.00
12:48:00 PM	0.2	0.043	0.00
12:49:00 PM	0.2	0.042	0.00
12:50:00 PM	0.1	0.042	0.00
12:51:00 PM	0.1	0.043	0.00
12:52:00 PM	0.2	0.043	0.00
12:53:00 PM	0.2	0.044	0.00
12:54:00 PM	0.2	0.056	0.00
12:55:00 PM	0.2	0.048	0.00
12:56:00 PM	0.2	0.045	0.00
12:57:00 PM	0.2	0.049	0.00
12:58:00 PM	0.2	0.045	0.00
12:59:00 PM	0.2	0.051	0.00
1:00:00 PM	0.2	0.043	0.00
1:01:00 PM	0.2	0.042	0.00
1:02:00 PM	0.2	0.038	0.00
1:03:00 PM	0.2	0.039	0.00
1:04:00 PM	0.2	0.038	0.00
1:05:00 PM	0.2	0.037	0.00
1:06:00 PM	0.2	0.042	0.00
1:07:00 PM	0.2	0.045	0.00
1:08:00 PM	0.2	0.044	0.00
1:09:00 PM	0.2	0.042	0.00
1:10:00 PM	0.2	0.040	0.00
1:11:00 PM	0.2	0.039	0.00
1:12:00 PM	0.2	0.037	0.00
1:13:00 PM	0.2	0.040	0.00
1:14:00 PM	0.2	0.039	0.00
1:15:00 PM	0.2	0.039	0.00
1:16:00 PM	0.2	0.038	0.00
1:17:00 PM	0.2	0.039	0.00
1:18:00 PM	0.2	0.042	0.00
1:19:00 PM	0.2	0.041	0.00
1:20:00 PM	0.2	0.040	0.00
1:21:00 PM	0.2	0.041	0.00
1:22:00 PM	0.2	0.041	0.00
1:23:00 PM	0.2	0.042	0.00
1:24:00 PM	0.2	0.043	0.00
1:25:00 PM	0.2	0.039	0.00
1:26:00 PM	0.2	0.039	0.00
1:27:00 PM	0.2	0.041	0.00
1:28:00 PM	0.2	0.039	0.00
1:29:00 PM	0.2	0.039	0.00
1:30:00 PM	0.2	0.036	0.00
1:31:00 PM	0.2	0.037	0.00
1:32:00 PM	0.2	0.036	0.00

LIRR Group D Substations

Bayside Substation

Downwind

October 6, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:33:00 PM	0.2	0.039	0.00
1:34:00 PM	0.2	0.040	0.00
1:35:00 PM	0.2	0.040	0.00
1:36:00 PM	0.2	0.038	0.00
1:37:00 PM	0.2	0.038	0.00
1:38:00 PM	0.2	0.036	0.00
1:39:00 PM	0.2	0.037	0.00
1:40:00 PM	0.2	0.036	0.00
1:41:00 PM	0.2	0.038	0.00
1:42:00 PM	0.2	0.039	0.00
1:43:00 PM	0.2	0.038	0.00
1:44:00 PM	0.2	0.038	0.00
1:45:00 PM	0.2	0.037	0.00
1:46:00 PM	0.2	0.044	0.00
1:47:00 PM	0.2	0.039	0.00
1:48:00 PM	0.2	0.038	0.00
1:49:00 PM	0.2	0.038	0.00
1:50:00 PM	0.2	0.039	0.00
1:51:00 PM	0.2	0.037	0.00
1:52:00 PM	0.2	0.036	0.00
1:53:00 PM	0.1	0.038	0.00
1:54:00 PM	0.1	0.038	0.00
1:55:00 PM	0.1	0.034	0.00
1:56:00 PM	0.1	0.032	0.00
1:57:00 PM	0.2	0.034	0.00
1:58:00 PM	0.2	0.036	0.00
1:59:00 PM	0.2	0.035	0.00
2:00:00 PM	0.2	0.032	0.00
2:01:00 PM	0.2	0.037	0.00
2:02:00 PM	0.2	0.037	0.00
2:03:00 PM	0.2	0.035	0.00
2:04:00 PM	0.1	0.034	0.00
2:05:00 PM	0.2	0.035	0.00
2:06:00 PM	0.2	0.040	0.00
2:07:00 PM	0.1	0.042	0.00
2:08:00 PM	0.1	0.040	0.00
2:09:00 PM	0.1	0.037	0.00
2:10:00 PM	0.1	0.044	0.00
2:11:00 PM	0.2	0.040	0.00
2:12:00 PM	0.1	0.042	0.00
2:13:00 PM	0.1	0.035	0.00
2:14:00 PM	0.1	0.037	0.00
2:15:00 PM	0.1	0.036	0.00
2:16:00 PM	0.1	0.034	0.00
2:17:00 PM	0.1	0.035	0.00
2:18:00 PM	0.1	0.034	0.00
2:19:00 PM	0.1	0.038	0.00
2:20:00 PM	0.1	0.035	0.00
2:21:00 PM	0.1	0.036	0.00
2:22:00 PM	0.2	0.034	0.00
2:23:00 PM	0.2	0.036	0.00

LIRR Group D Substations
Bayside Substation
Downwind
October 6, 2020

[illegible]

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast	X	Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50		50-70	X	70-85		>85	

Project No.:		Winds From WSW ~15-25mph	Date:	10/7/20
Project Name:	LIRR Group D Substation Remediation-Bayside Site-V00388-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. Aarco continued to excavate area #1 by hand to a depth of approximately one (1) foot bgs. Aarco stockpiled all excavated soils on plastic within area #2. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site were sampled for documentation sampling, these samples will be submitted as our weekly documentation sampling. Preferred collected endpoint samples BS-EP-03, 05, 06 and 07 from within area #1. All samples were transported to the laboratory for 24 hour rushed analysis.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/ m ³)	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/m ³)
UP Wind	0.2	0.025	0.000	0.7	0.032	0.000
Down Wind	0.1	0.047	0.000	0.2	0.060	0.000
Work Zone	0.1	0.025	0.000	0.2	0.035	0.000

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- We will mobilized back to the site on Tuesday October 13, to continue to excavate area #1.



Continuing to excavate soils from area #1.



Stockpile area for all soils excavated from Area #1.

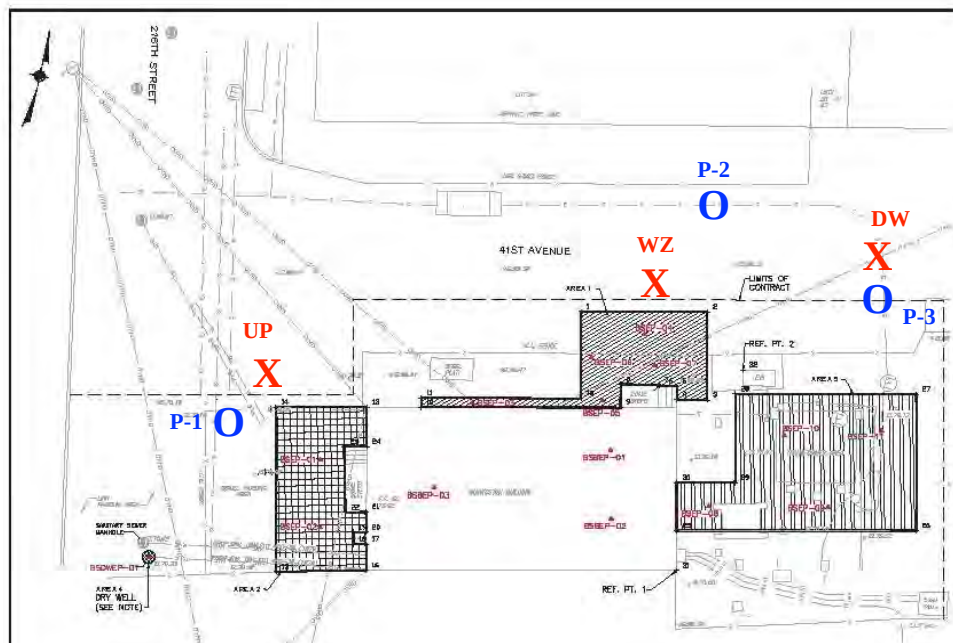


Collecting endpoint sample from within area #1.



Field screening endpoint samples for mercury.

Monitoring Locations



LIRR Group D Substations

Bayside Substation

Upwind

October 7, 2020

Elapsed Time [s]	VOCs (PPM)	Mercury [mg/m]	Mass [mg/m3]
10:26:00 AM	0.7		0.048
10:27:00 AM	0.7		0.031
10:28:00 AM	0.7	0.0	0.025
10:29:00 AM	0.7	0.0	0.025
10:30:00 AM	0.7	0.0	0.025
10:31:00 AM	0.7	0.0	0.027
10:32:00 AM	0.6	0.0	0.025
10:33:00 AM	0.7	0.0	0.024
10:34:00 AM	0.7	0.0	0.024
10:35:00 AM	0.7	0.0	0.030
10:36:00 AM	0.7	0.0	0.027
10:37:00 AM	0.7	0.0	0.024
10:38:00 AM	0.7	0.0	0.026
10:39:00 AM	0.7	0.0	0.025
10:40:00 AM	0.8	0.0	0.024
10:41:00 AM	0.7	0.0	0.025
10:42:00 AM	0.7	0.0	0.027
10:43:00 AM	0.7	0.0	0.044
10:44:00 AM	0.7	0.0	0.027
10:45:00 AM	0.7	0.0	0.026
10:46:00 AM		0.0	0.024
10:47:00 AM		0.0	0.024
10:48:00 AM	0.0	0.0	0.023
10:49:00 AM	0.1	0.0	0.023
10:50:00 AM	0.0	0.0	0.024
10:51:00 AM	0.0	0.0	0.027
10:52:00 AM	0.1	0.0	0.029
10:53:00 AM	0.0	0.0	0.047
10:54:00 AM	0.0	0.0	0.052
10:55:00 AM	0.0	0.0	0.044
10:56:00 AM	0.0	0.1	0.029
10:57:00 AM	0.0	0.0	0.025
10:58:00 AM	0.0	0.0	0.026
10:59:00 AM	0.0	0.0	0.029
11:00:00 AM	0.0	0.0	0.024
11:01:00 AM	0.0	0.0	0.026
11:02:00 AM	0.0	0.0	0.029
11:03:00 AM	0.0	0.0	0.029
11:04:00 AM	0.0	0.0	0.036
11:05:00 AM	0.0	0.0	0.026
11:06:00 AM	0.0	0.0	0.023
11:07:00 AM	0.0	0.0	0.023
11:08:00 AM	0.0	0.0	0.023
11:09:00 AM	0.0	0.0	0.023
11:10:00 AM	0.0	0.0	0.023
11:11:00 AM	0.0	0.0	0.029
11:12:00 AM	0.0	0.0	0.025
11:13:00 AM	0.0	0.0	0.023
11:14:00 AM	0.0	0.0	0.028
11:15:00 AM	0.1	0.0	0.027
11:16:00 AM	0.1	0.0	0.026
11:17:00 AM	0.1	0.0	0.026

LIRR Group D Substations

Bayside Substation

Upwind

October 7, 2020

Elapsed Time [s]	VOCs (PPM)	Mercury [mg/m]	Mass [mg/m3]
11:18:00 AM	0.2	0.0	0.027
11:19:00 AM	0.1	0.0	0.030
11:20:00 AM	0.1	0.0	0.030
11:21:00 AM	0.1	0.0	0.026
11:22:00 AM	0.0	0.0	0.024
11:23:00 AM	0.0	0.0	0.025
11:24:00 AM	0.0	0.0	0.026
11:25:00 AM	0.0	0.0	0.026
11:26:00 AM	0.1	0.0	0.023
11:27:00 AM	0.1	0.0	0.030
11:28:00 AM	0.1	0.0	0.031
11:29:00 AM	0.1	0.0	0.024
11:30:00 AM	0.1	0.0	0.023
11:31:00 AM	0.1	0.0	0.023
11:32:00 AM	0.1	0.0	0.021
11:33:00 AM	0.1	0.0	0.021
11:34:00 AM	0.1	0.0	0.021
11:35:00 AM	0.1	0.0	0.024
11:36:00 AM	0.1	0.0	0.026
11:37:00 AM	0.1	0.0	0.030
11:38:00 AM	0.1	0.0	0.026
11:39:00 AM	0.2	0.0	0.028
11:40:00 AM	0.1	0.0	0.025
11:41:00 AM	0.1	0.0	0.023
11:42:00 AM	0.1	0.0	0.029
11:43:00 AM	0.1	0.0	0.024
11:44:00 AM	0.1	0.0	0.022
11:45:00 AM	0.1	0.0	0.026
11:46:00 AM	0.1	0.0	0.022
11:47:00 AM	0.1	0.0	0.022
11:48:00 AM	0.1	0.0	0.021
11:49:00 AM	0.1	0.0	0.022
11:50:00 AM	0.1	0.0	0.021
11:51:00 AM	0.1	0.0	0.024
11:52:00 AM	0.1	0.0	0.021
11:53:00 AM	0.1	0.0	0.021
11:54:00 AM	0.1	0.0	0.022
11:55:00 AM	0.1	0.0	0.022
11:56:00 AM	0.1	0.0	0.029
11:57:00 AM	0.1	0.0	0.025
11:58:00 AM	0.1	0.0	0.022
11:59:00 AM	0.1	0.0	0.021
12:00:00 PM	0.1	0.0	0.023
12:01:00 PM	0.0	0.0	0.031
12:02:00 PM	0.1	0.0	0.025
12:03:00 PM	0.1	0.0	0.028
12:04:00 PM	0.2	0.0	0.024
12:05:00 PM	0.1	0.0	0.024
12:06:00 PM	0.1	0.0	0.021
12:07:00 PM	0.2	0.0	0.021
12:08:00 PM	0.2	0.0	0.023
12:09:00 PM	0.2	0.0	0.021
12:10:00 PM	0.1	0.0	0.022

LIRR Group D Substations

Bayside Substation

Upwind

October 7, 2020

Elapsed Time [s]	VOCs (PPM)	Mercury [mg/m]	Mass [mg/m3]
12:11:00 PM	0.2	0.0	0.024
12:12:00 PM	0.1	0.0	0.022
12:13:00 PM	0.1	0.0	0.021
12:14:00 PM	0.1	0.0	0.023
12:15:00 PM	0.1	0.0	0.023
12:16:00 PM	0.2	0.0	0.023
12:17:00 PM	0.1	0.0	0.022
12:18:00 PM	0.2	0.0	0.021
12:19:00 PM	0.2	0.0	0.021
12:20:00 PM	0.1	0.0	0.020
12:21:00 PM	0.2	0.0	0.021
12:22:00 PM	0.2	0.0	0.021
12:23:00 PM	0.1	0.0	0.026
12:24:00 PM	0.2	0.0	0.023
12:25:00 PM	0.1	0.0	0.028
12:26:00 PM	0.2	0.0	0.022
12:27:00 PM	0.2	0.0	0.023
12:28:00 PM	0.2	0.0	0.023
12:29:00 PM	0.2	0.0	0.023
12:30:00 PM	0.2	0.0	0.022
12:31:00 PM	0.2	0.0	0.022
12:32:00 PM	0.2	0.0	0.022
12:33:00 PM	0.2	0.0	0.022
12:34:00 PM	0.2	0.0	0.021
12:35:00 PM	0.2	0.0	0.022
12:36:00 PM	0.2	0.0	0.023
12:37:00 PM	0.2	0.0	0.029
12:38:00 PM	0.1	0.0	0.023
12:39:00 PM	0.2	0.0	0.024
12:40:00 PM	0.2	0.0	0.027
12:41:00 PM	0.2	0.0	0.022
12:42:00 PM	0.2	0.0	0.023
12:43:00 PM	0.2	0.0	0.024
12:44:00 PM	0.2	0.0	0.024
12:45:00 PM	0.2	0.0	0.024
12:46:00 PM	0.2	0.0	0.026
12:47:00 PM	0.3	0.0	0.024
12:48:00 PM	0.2	0.0	0.023
12:49:00 PM	0.2	0.0	0.023
12:50:00 PM	0.2	0.0	0.023
12:51:00 PM	0.2	0.0	0.024
12:52:00 PM	0.2	0.0	0.023
12:53:00 PM	0.2	0.0	0.022
12:54:00 PM	0.2	0.0	0.023
12:55:00 PM	0.2	0.0	0.023
12:56:00 PM	0.2	0.0	0.023
12:57:00 PM	0.2	0.0	0.028
12:58:00 PM	0.2	0.0	0.039
12:59:00 PM	0.2	0.0	0.024
1:00:00 PM	0.2	0.0	0.024
1:01:00 PM	0.2	0.0	0.022
1:02:00 PM	0.2	0.0	0.022
1:03:00 PM	0.2	0.0	0.027

October 7, 2020

[illegible]

LIRR Group D Substations

Bayside Substation

Work Zone

October 7, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:25:00 AM	0.1		0.00
10:26:00 AM	0.1	0.106	0.00
10:27:00 AM	0.1	0.029	0.00
10:28:00 AM	0.1	0.027	0.00
10:29:00 AM	0.1	0.028	0.00
10:30:00 AM	0.1	0.052	0.00
10:31:00 AM	0.1	0.027	0.00
10:32:00 AM	0.1	0.028	0.00
10:33:00 AM	0.1	0.026	0.00
10:34:00 AM	0.1	0.027	0.00
10:35:00 AM	0.1	0.031	0.00
10:36:00 AM	0.1	0.026	0.00
10:37:00 AM	0.1	0.026	0.00
10:38:00 AM	0.1	0.029	0.00
10:39:00 AM	0.1	0.033	0.00
10:40:00 AM	0.1	0.026	0.00
10:41:00 AM	0.1	0.024	0.00
10:42:00 AM	0.1	0.025	0.00
10:43:00 AM	0.1	0.025	0.00
10:44:00 AM	0.1	0.028	0.00
10:45:00 AM	0.1	0.040	0.00
10:46:00 AM	0.1	0.033	0.00
10:47:00 AM	0.1	0.027	0.00
10:48:00 AM	0.1	0.026	0.00
10:49:00 AM	0.1	0.024	0.00
10:50:00 AM	0.1	0.024	0.00
10:51:00 AM	0.1	0.023	0.00
10:52:00 AM	0.1	0.024	0.00
10:53:00 AM	0.1	0.029	0.00
10:54:00 AM	0.1	0.032	0.00
10:55:00 AM	0.1	0.028	0.00
10:56:00 AM	0.1	0.037	0.00
10:57:00 AM	0.2	0.039	0.00
10:58:00 AM	0.1	0.034	0.00
10:59:00 AM	0.1	0.027	0.00
11:00:00 AM	0.1	0.026	0.00
11:01:00 AM	0.1	0.025	0.00
11:02:00 AM	0.1	0.024	0.00
11:03:00 AM	0.1	0.024	0.00
11:04:00 AM	0.1	0.027	0.00
11:05:00 AM	0.1	0.028	0.00
11:06:00 AM	0.1	0.025	0.00
11:07:00 AM	0.1	0.026	0.00
11:08:00 AM	0.1	0.023	0.00
11:09:00 AM	0.1	0.023	0.00
11:10:00 AM	0.1	0.026	0.00
11:11:00 AM	0.1	0.025	0.00
11:12:00 AM	0.1	0.024	0.00
11:13:00 AM	0.1	0.027	0.00
11:14:00 AM	0.1	0.027	0.00

LIRR Group D Substations

Bayside Substation

Work Zone

October 7, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:15:00 AM	0.1	0.023	0.00
11:16:00 AM	0.1	0.027	0.00
11:17:00 AM	0.1	0.027	0.00
11:18:00 AM	0.1	0.026	0.00
11:19:00 AM	0.1	0.026	0.00
11:20:00 AM	0.1	0.029	0.00
11:21:00 AM	0.1	0.029	0.00
11:22:00 AM	0.1	0.029	0.00
11:23:00 AM	0.1	0.026	0.00
11:24:00 AM	0.1	0.024	0.00
11:25:00 AM	0.1	0.025	0.00
11:26:00 AM	0.1	0.024	0.00
11:27:00 AM	0.1	0.024	0.00
11:28:00 AM	0.1	0.023	0.00
11:29:00 AM	0.1	0.028	0.00
11:30:00 AM	0.2	0.030	0.00
11:31:00 AM	0.1	0.023	0.00
11:32:00 AM	0.2	0.024	0.00
11:33:00 AM	0.2	0.022	0.00
11:34:00 AM	0.1	0.021	0.00
11:35:00 AM	0.2	0.021	0.00
11:36:00 AM	0.1	0.020	0.00
11:37:00 AM	0.2	0.021	0.00
11:38:00 AM	0.2	0.025	0.00
11:39:00 AM	0.1	0.029	0.00
11:40:00 AM	0.1	0.024	0.00
11:41:00 AM	0.1	0.027	0.00
11:42:00 AM	0.2	0.026	0.00
11:43:00 AM	0.1	0.023	0.00
11:44:00 AM	0.2	0.026	0.00
11:45:00 AM	0.1	0.023	0.00
11:46:00 AM	0.2	0.022	0.00
11:47:00 AM	0.2	0.021	0.00
11:48:00 AM	0.2	0.022	0.00
11:49:00 AM	0.1	0.022	0.00
11:50:00 AM	0.1	0.022	0.00
11:51:00 AM	0.2	0.021	0.00
11:52:00 AM	0.2	0.021	0.00
11:53:00 AM	0.2	0.023	0.00
11:54:00 AM	0.2	0.022	0.00
11:55:00 AM	0.2	0.021	0.00
11:56:00 AM	0.1	0.022	0.00
11:57:00 AM	0.1	0.021	0.00
11:58:00 AM	0.2	0.025	0.00
11:59:00 AM	0.2	0.023	0.00
12:00:00 PM	0.2	0.020	0.00
12:01:00 PM	0.1	0.021	0.00
12:02:00 PM	0.2	0.022	0.00
12:03:00 PM	0.4	0.025	0.00
12:04:00 PM	0.2	0.023	0.00
12:05:00 PM	0.1	0.024	0.00

LIRR Group D Substations

Bayside Substation

Work Zone

October 7, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:06:00 PM	0.1	0.026	0.00
12:07:00 PM	0.1	0.022	0.00
12:08:00 PM	0.2	0.021	0.00
12:09:00 PM	0.1	0.024	0.00
12:10:00 PM	0.1	0.025	0.00
12:11:00 PM	0.1	0.023	0.00
12:12:00 PM	0.1	0.022	0.00
12:13:00 PM	0.2	0.022	0.00
12:14:00 PM	0.2	0.021	0.00
12:15:00 PM	0.1	0.020	0.00
12:16:00 PM	0.1	0.022	0.00
12:17:00 PM	0.2	0.022	0.00
12:18:00 PM	0.2	0.022	0.00
12:19:00 PM	0.2	0.021	0.00
12:20:00 PM	0.2	0.021	0.00
12:21:00 PM	0.2	0.020	0.00
12:22:00 PM	0.2	0.020	0.00
12:23:00 PM	0.2	0.020	0.00
12:24:00 PM	0.1	0.020	0.00
12:25:00 PM	0.2	0.020	0.00
12:26:00 PM	0.2	0.021	0.00
12:27:00 PM	0.2	0.021	0.00
12:28:00 PM	0.2	0.021	0.00
12:29:00 PM	0.2	0.022	0.00
12:30:00 PM	0.2	0.024	0.00
12:31:00 PM	0.2	0.022	0.00
12:32:00 PM	0.2	0.021	0.00
12:33:00 PM	0.2	0.021	0.00
12:34:00 PM	0.2	0.022	0.00
12:35:00 PM	0.2	0.021	0.00
12:36:00 PM	0.2	0.022	0.00
12:37:00 PM	0.2	0.021	0.00
12:38:00 PM	0.2	0.026	0.00
12:39:00 PM	0.2	0.026	0.00
12:40:00 PM	0.2	0.024	0.00
12:41:00 PM	0.2	0.022	0.00
12:42:00 PM	0.2	0.023	0.00
12:43:00 PM	0.2	0.022	0.00
12:44:00 PM	0.2	0.022	0.00
12:45:00 PM	0.2	0.023	0.00
12:46:00 PM	0.1	0.025	0.00
12:47:00 PM	0.2	0.024	0.00
12:48:00 PM	0.2	0.023	0.00
12:49:00 PM	0.2	0.022	0.00
12:50:00 PM	0.2	0.021	0.00
12:51:00 PM	0.2	0.021	0.00
12:52:00 PM	0.2	0.022	0.00
12:53:00 PM	0.2	0.022	0.00
12:54:00 PM	0.2	0.022	0.00
12:55:00 PM	0.2	0.022	0.00
12:56:00 PM	0.2	0.022	0.00

October 7, 2020

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LIRR Group D Substations

Bayside Substation

Downwind

October 7, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:28:00 AM	0.1		0.000
10:29:00 AM	0.1		0.000
10:30:00 AM	0.1	0.061	0.000
10:31:00 AM	0.1	0.051	0.000
10:32:00 AM	0.1	0.052	0.000
10:33:00 AM	0.1	0.050	0.000
10:34:00 AM	0.2	0.046	0.000
10:35:00 AM	0.1	0.045	0.000
10:36:00 AM	0.1	0.059	0.000
10:37:00 AM	0.1	0.046	0.000
10:38:00 AM	0.1	0.040	0.000
10:39:00 AM	0.1	0.041	0.000
10:40:00 AM	0.1	0.048	0.000
10:41:00 AM	0.1	0.043	0.000
10:42:00 AM	0.1	0.039	0.000
10:43:00 AM	0.1	0.043	0.000
10:44:00 AM	0.1	0.058	0.000
10:45:00 AM	0.1	0.088	0.000
10:46:00 AM	0.1	0.063	0.000
10:47:00 AM	0.1	0.054	0.00
10:48:00 AM	0.1	0.049	0.00
10:49:00 AM	0.1	0.047	0.00
10:50:00 AM	0.1	0.043	0.00
10:51:00 AM	0.1	0.044	0.00
10:52:00 AM	0.1	0.041	0.00
10:53:00 AM	0.1	0.040	0.00
10:54:00 AM	0.1	0.051	0.00
10:55:00 AM	0.1	0.052	0.00
10:56:00 AM	0.1	0.060	0.00
10:57:00 AM	0.1	0.073	0.00
10:58:00 AM	0.1	0.071	0.00
10:59:00 AM	0.1	0.050	0.00
11:00:00 AM	0.1	0.055	0.00
11:01:00 AM	0.1	0.050	0.00
11:02:00 AM	0.1	0.054	0.00
11:03:00 AM	0.1	0.056	0.00
11:04:00 AM	0.1	0.067	0.00
11:05:00 AM	0.1	0.075	0.00
11:06:00 AM	0.1	0.059	0.00
11:07:00 AM	0.1	0.058	0.00
11:08:00 AM	0.1	0.054	0.00
11:09:00 AM	0.1	0.052	0.00
11:10:00 AM	0.1	0.049	0.00
11:11:00 AM	0.1	0.048	0.00
11:12:00 AM	0.1	0.047	0.00
11:13:00 AM	0.1	0.046	0.00
11:14:00 AM	0.1	0.053	0.00
11:15:00 AM	0.1	0.045	0.00
11:16:00 AM	0.1	0.039	0.00
11:17:00 AM	0.1	0.044	0.00

LIRR Group D Substations

Bayside Substation

Downwind

October 7, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:18:00 AM	0.1	0.062	0.00
11:19:00 AM	0.1	0.054	0.00
11:20:00 AM	0.1	0.062	0.00
11:21:00 AM	0.1	0.060	0.00
11:22:00 AM	0.1	0.045	0.00
11:23:00 AM	0.1	0.039	0.00
11:24:00 AM	0.1	0.041	0.00
11:25:00 AM	0.1	0.044	0.00
11:26:00 AM	0.1	0.039	0.00
11:27:00 AM	0.1	0.044	0.00
11:28:00 AM	0.1	0.039	0.00
11:29:00 AM	0.1	0.049	0.00
11:30:00 AM	0.1	0.073	0.00
11:31:00 AM	0.1	0.052	0.00
11:32:00 AM	0.1	0.047	0.00
11:33:00 AM	0.1	0.053	0.00
11:34:00 AM	0.1	0.045	0.00
11:35:00 AM	0.1	0.044	0.00
11:36:00 AM	0.1	0.040	0.00
11:37:00 AM	0.1	0.043	0.00
11:38:00 AM	0.1	0.043	0.00
11:39:00 AM	0.1	0.065	0.00
11:40:00 AM	0.1	0.055	0.00
11:41:00 AM	0.1	0.045	0.00
11:42:00 AM	0.1	0.040	0.00
11:43:00 AM	0.1	0.043	0.00
11:44:00 AM	0.1	0.044	0.00
11:45:00 AM	0.1	0.051	0.00
11:46:00 AM	0.1	0.052	0.00
11:47:00 AM	0.1	0.044	0.00
11:48:00 AM	0.1	0.042	0.00
11:49:00 AM	0.1	0.034	0.00
11:50:00 AM	0.1	0.042	0.00
11:51:00 AM	0.1	0.042	0.00
11:52:00 AM	0.1	0.039	0.00
11:53:00 AM	0.1	0.052	0.00
11:54:00 AM	0.1	0.058	0.00
11:55:00 AM	0.1	0.043	0.00
11:56:00 AM	0.1	0.052	0.00
11:57:00 AM	0.1	0.039	0.00
11:58:00 AM	0.1	0.042	0.00
11:59:00 AM	0.1	0.046	0.00
12:00:00 PM	0.1	0.041	0.00
12:01:00 PM	0.1	0.033	0.00
12:02:00 PM	0.1	0.044	0.00
12:03:00 PM	0.2	0.048	0.00
12:04:00 PM	0.1	0.046	0.00
12:05:00 PM	0.1	0.039	0.00
12:06:00 PM	0.1	0.037	0.00
12:07:00 PM	0.1	0.044	0.00
12:08:00 PM	0.1	0.042	0.00

LIRR Group D Substations

Bayside Substation

Downwind

October 7, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:09:00 PM	0.1	0.037	0.00
12:10:00 PM	0.1	0.041	0.00
12:11:00 PM	0.1	0.035	0.00
12:12:00 PM	0.1	0.036	0.00
12:13:00 PM	0.1	0.040	0.00
12:14:00 PM	0.1	0.042	0.00
12:15:00 PM	0.2	0.040	0.00
12:16:00 PM	0.1	0.042	0.00
12:17:00 PM	0.2	0.040	0.00
12:18:00 PM	0.1	0.036	0.00
12:19:00 PM	0.1	0.036	0.00
12:20:00 PM	0.1	0.039	0.00
12:21:00 PM	0.2	0.038	0.00
12:22:00 PM	0.2	0.042	0.00
12:23:00 PM	0.2	0.041	0.00
12:24:00 PM	0.2	0.039	0.00
12:25:00 PM	0.2	0.037	0.00
12:26:00 PM	0.2	0.034	0.00
12:27:00 PM	0.2	0.034	0.00
12:28:00 PM	0.2	0.037	0.00
12:29:00 PM	0.2	0.044	0.00
12:30:00 PM	0.2	0.038	0.00
12:31:00 PM	0.2	0.039	0.00
12:32:00 PM	0.2	0.036	0.00
12:33:00 PM	0.2	0.037	0.00
12:34:00 PM	0.2	0.034	0.00
12:35:00 PM	0.2	0.035	0.00
12:36:00 PM	0.2	0.036	0.00
12:37:00 PM	0.2	0.040	0.00
12:38:00 PM	0.2	0.042	0.00
12:39:00 PM	0.2	0.039	0.00
12:40:00 PM	0.2	0.038	0.00
12:41:00 PM	0.2	0.038	0.00
12:42:00 PM	0.1	0.048	0.00
12:43:00 PM	0.1	0.040	0.00
12:44:00 PM	0.1	0.035	0.00
12:45:00 PM	0.1	0.035	0.00
12:46:00 PM	0.1	0.055	0.00
12:47:00 PM	0.2	0.055	0.00
12:48:00 PM	0.1	0.048	0.00
12:49:00 PM	0.1	0.043	0.00
12:50:00 PM	0.1	0.041	0.00
12:51:00 PM	0.1	0.039	0.00
12:52:00 PM	0.1	0.038	0.00
12:53:00 PM	0.1	0.034	0.00
12:54:00 PM	0.1	0.038	0.00
12:55:00 PM	0.1	0.040	0.00
12:56:00 PM	0.1	0.044	0.00
12:57:00 PM	0.1	0.047	0.00
12:58:00 PM	0.1	0.048	0.00
12:59:00 PM	0.1	0.051	0.00

October 7, 2020

[illegible]

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain	X	Overcast		Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50		50-70	X	70-85		>85	

Project No.:		Winds From N ~10-15mph	Date:	10/13/20
Project Name:	LIRR Group D Substation Remediation-Bayside Site-V00388-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. Aarco continued to excavate area #1 by hand to a depth of approximately one (1) foot bgs. Aarco stockpiled all excavated soils on plastic within area #2. Preferred did not conduct CAMP monitoring or documentation monitoring due to rainfall occurring though out the day. Preferred field screened the excavation for total volatile organic compounds, mercury. Preferred collected endpoint samples BS-EP-04-B(1') from within area #1. All samples were transported to the laboratory for 24 hour rushed analysis.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/ m ³)	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/m ³)
UP Wind	No Camp Due to Rain					
Down Wind						
Work Zone						

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- We will be loading out soils and starting on excavation area #2.



Continuing to excavate soils from area #1.



Screening soils for mercury during excavation of area #1

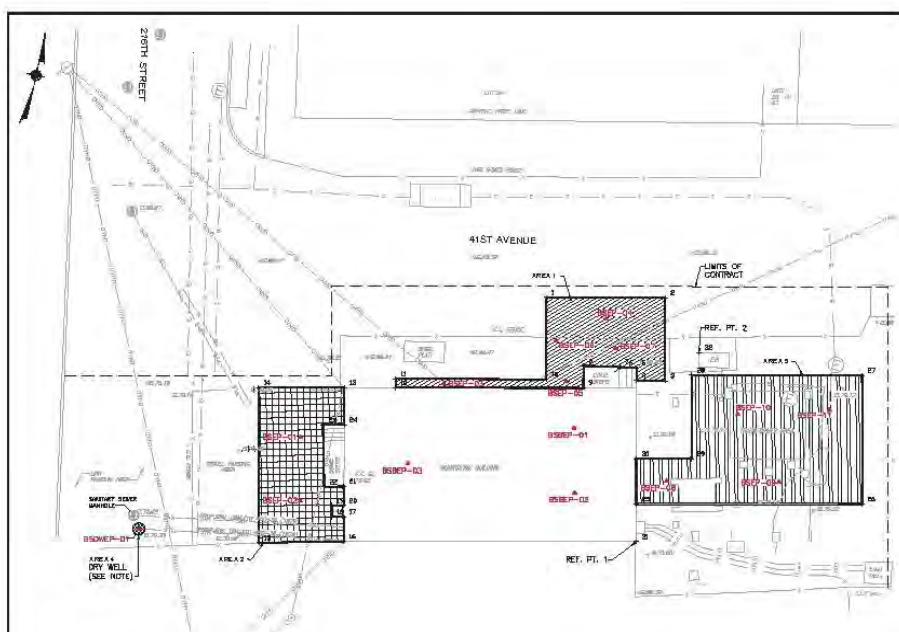


Sampling BS-EP-04-B(1') with in area #1.



Securing the stockpile at the end of the day.

Monitoring Locations



DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	X
TEMP.	< 32		32-50		50-70	X	70-85		>85	

Project No.:		Winds From W ~10 mph	Date:	10/14/20
Project Name:	LIRR Group D Substation Remediation-Bayside Site-V00388-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. Aarco loaded soils excavated from area #1 for transport to Clean Earth Carteret (CEC) for disposal. One (1) load was send for disposal at CEC. Aarco then began excavation within the southeastern corner of area #2 via soil guzzler truck to approximately two (2) feet bgs. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site and two high risk workers were sampled for documentation sampling. During excavation work one of the high risk worker sampling cassettes was sucked into the soil guzzler. As a result only one high risk worker documentation sample will be submitted. VOC monitor for DW station encountered an equipment error and did not record data from start up to 10:44 at which time the error was fixed.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/ m ³)	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/m ³)
UP Wind	0.1	0.015	0.000	0.1	0.020	0.000
Down Wind	0.2	0.020	0.000	0.2	0.036	0.000
Work Zone	0.1	0.022	0.000	0.2	0.056	0.000

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- We will continue with excavation of area #2.



Loading out soils from Area #1.



Starting excavation of area #2.

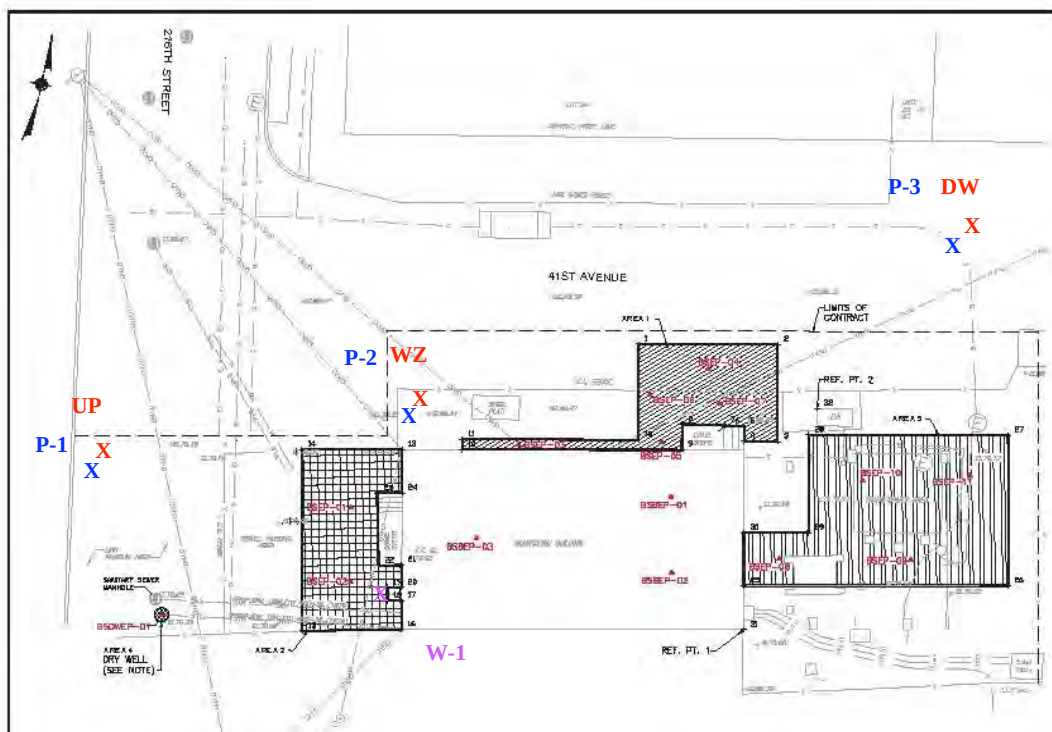


Area #2 excavated via a soil guzzler.



Area #2 excavated at the end of the day.

Monitoring Locations



LIRR Group D Substations

Bayside Substation

Upwind

October 14, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
9:24:00 AM	0.0		0.000
9:25:00 AM	0.0	0.024	0.000
9:26:00 AM	0.0	0.013	0.000
9:27:00 AM	0.0	0.013	0.000
9:28:00 AM	0.0	0.013	0.000
9:29:00 AM	0.0	0.013	0.000
9:30:00 AM	0.0	0.013	0.000
9:31:00 AM	0.0	0.013	0.000
9:32:00 AM	0.0	0.013	0.000
9:33:00 AM	0.0	0.013	0.000
9:34:00 AM	0.0	0.014	0.000
9:35:00 AM	0.0	0.016	0.000
9:36:00 AM	0.0	0.013	0.000
9:37:00 AM	0.0	0.012	0.000
9:38:00 AM	0.0	0.012	0.000
9:39:00 AM	0.0	0.012	0.000
9:40:00 AM	0.0	0.011	0.000
9:41:00 AM	0.0	0.011	0.000
9:42:00 AM	0.0	0.011	0.000
9:43:00 AM	0.0	0.011	0.000
9:44:00 AM	0.0	0.012	0.000
9:45:00 AM	0.0	0.012	0.000
9:46:00 AM	0.0	0.012	0.000
9:47:00 AM	0.0	0.012	0.000
9:48:00 AM	0.0	0.012	0.000
9:49:00 AM	0.0	0.012	0.000
9:50:00 AM	0.0	0.011	0.000
9:51:00 AM	0.0	0.012	0.000
9:52:00 AM	0.0	0.012	0.000
9:53:00 AM	0.0	0.011	0.000
9:54:00 AM	0.0	0.012	0.000
9:55:00 AM	0.0	0.012	0.000
9:56:00 AM	0.0	0.012	0.000
9:57:00 AM	0.0	0.012	0.000
9:58:00 AM	0.0	0.012	0.000
9:59:00 AM	0.0	0.012	0.000
10:00:00 AM	0.0	0.012	0.000
10:01:00 AM	0.1	0.012	0.000
10:02:00 AM	0.0	0.013	0.000
10:03:00 AM	0.1	0.013	0.000
10:04:00 AM	0.1	0.013	0.000
10:05:00 AM	0.1	0.013	0.000
10:06:00 AM	0.1	0.013	0.000
10:07:00 AM	0.1	0.013	0.000
10:08:00 AM	0.0	0.013	0.000
10:09:00 AM	0.1	0.014	0.000
10:10:00 AM	0.1	0.014	0.000
10:11:00 AM	0.1	0.015	0.000
10:12:00 AM	0.1	0.014	0.000
10:13:00 AM	0.1	0.014	0.000
10:14:00 AM	0.1	0.014	0.000
10:15:00 AM	0.1	0.013	0.000

LIRR Group D Substations

Bayside Substation

Upwind

October 14, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:16:00 AM	0.1	0.013	0.000
10:17:00 AM	0.1	0.013	0.000
10:18:00 AM	0.1	0.013	0.000
10:19:00 AM	0.1	0.013	0.000
10:20:00 AM	0.1	0.013	0.000
10:21:00 AM	0.1	0.013	0.000
10:22:00 AM	0.1	0.014	0.000
10:23:00 AM	0.1	0.014	0.000
10:24:00 AM	0.1	0.014	0.000
10:25:00 AM	0.1	0.016	0.000
10:26:00 AM	0.1	0.016	0.000
10:27:00 AM	0.1	0.015	0.000
10:28:00 AM	0.1	0.015	0.000
10:29:00 AM	0.1	0.015	0.000
10:30:00 AM	0.1	0.013	0.000
10:31:00 AM	0.1	0.014	0.000
10:32:00 AM	0.1	0.014	0.000
10:33:00 AM	0.1	0.014	0.000
10:34:00 AM	0.1	0.014	0.000
10:35:00 AM	0.1	0.014	0.000
10:36:00 AM	0.1	0.015	0.000
10:37:00 AM	0.1	0.016	0.000
10:38:00 AM	0.1	0.017	0.000
10:39:00 AM	0.1	0.017	0.000
10:40:00 AM	0.1	0.018	0.000
10:41:00 AM	0.1	0.018	0.000
10:42:00 AM	0.1	0.018	0.000
10:43:00 AM	0.1	0.019	0.000
10:44:00 AM	0.1	0.020	0.000
10:45:00 AM	0.1	0.021	0.000
10:46:00 AM	0.1	0.021	0.000
10:47:00 AM	0.1	0.019	0.000
10:48:00 AM	0.1	0.019	0.000
10:49:00 AM	0.1	0.021	0.000
10:50:00 AM	0.1	0.022	0.000
10:51:00 AM	0.1	0.022	0.000
10:52:00 AM	0.1	0.020	0.000
10:53:00 AM	0.1	0.020	0.000
10:54:00 AM	0.1	0.020	0.000
10:55:00 AM	0.1	0.020	0.000
10:56:00 AM	0.1	0.020	0.000
10:57:00 AM	0.1	0.019	0.000
10:58:00 AM	0.1	0.019	0.000
10:59:00 AM	0.1	0.019	0.000
11:00:00 AM	0.1	0.019	0.000
11:01:00 AM	0.1	0.018	0.000
11:02:00 AM	0.1	0.018	0.000
11:03:00 AM	0.1	0.019	0.000
11:04:00 AM	0.1	0.018	0.000
11:05:00 AM	0.1	0.017	0.000
11:06:00 AM	0.1	0.018	0.000
11:07:00 AM	0.1	0.019	0.000
11:08:00 AM	0.1	0.019	0.000

LIRR Group D Substations

Bayside Substation

Upwind

October 14, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:09:00 AM	0.1	0.018	0.000
11:10:00 AM	0.1	0.017	0.000
11:11:00 AM	0.1	0.025	0.000
11:12:00 AM	0.1	0.020	0.000
11:13:00 AM	0.1	0.016	0.000
11:14:00 AM	0.1	0.016	0.000
11:15:00 AM	0.1	0.015	0.000
11:16:00 AM	0.1	0.016	0.000
11:17:00 AM	0.1	0.015	0.000
11:18:00 AM	0.1	0.016	0.000
11:19:00 AM	0.1	0.015	0.000
11:20:00 AM	0.1	0.016	0.000
11:21:00 AM	0.1	0.016	0.000
11:22:00 AM	0.1	0.017	0.000
11:23:00 AM	0.1	0.016	0.000
11:24:00 AM	0.1	0.016	0.000
11:25:00 AM	0.1	0.015	0.000
11:26:00 AM	0.1	0.015	0.000
11:27:00 AM	0.1	0.015	0.000
11:28:00 AM	0.1	0.015	0.000
11:29:00 AM	0.1	0.015	0.000
11:30:00 AM	0.1	0.015	0.000
11:31:00 AM	0.1	0.014	0.000
11:32:00 AM	0.1	0.015	0.000
11:33:00 AM	0.1	0.014	0.000
11:34:00 AM	0.1	0.015	0.000
11:35:00 AM	0.1	0.015	0.000
11:36:00 AM	0.1	0.011	0.000
11:37:00 AM	0.1	0.011	0.000
11:38:00 AM	0.1	0.012	0.000
11:39:00 AM	0.1	0.012	0.000
11:40:00 AM	0.1	0.013	0.000
11:41:00 AM	0.1	0.014	0.000
11:42:00 AM	0.1	0.014	0.000
11:43:00 AM	0.1	0.012	0.000
11:44:00 AM	0.1	0.012	0.000
11:45:00 AM	0.1	0.012	0.000
11:46:00 AM	0.1	0.012	0.000
11:47:00 AM	0.1	0.011	0.000
11:48:00 AM	0.1	0.011	0.000
11:49:00 AM	0.1	0.013	0.000
11:50:00 AM	0.1	0.012	0.000
11:51:00 AM	0.1	0.013	0.000
11:52:00 AM	0.1	0.016	0.000
11:53:00 AM	0.1	0.016	0.000
11:54:00 AM	0.1	0.014	0.000
11:55:00 AM	0.1	0.013	0.000
11:56:00 AM	0.1	0.013	0.000
11:57:00 AM	0.1	0.014	0.000
11:58:00 AM	0.1	0.017	0.000
11:59:00 AM	0.1	0.016	0.000
12:00:00 PM	0.1	0.016	0.000
12:01:00 PM	0.1	0.016	0.000

LIRR Group D Substations

Bayside Substation

Upwind

October 14, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:02:00 PM	0.1	0.015	0.000
12:03:00 PM	0.1	0.016	0.000
12:04:00 PM	0.1	0.017	0.000
12:05:00 PM	0.1	0.016	0.000
12:06:00 PM	0.1	0.016	0.000
12:07:00 PM	0.1	0.016	0.000
12:08:00 PM	0.1	0.017	0.000
12:09:00 PM	0.1	0.017	0.000
12:10:00 PM	0.1	0.018	0.000
12:11:00 PM	0.1	0.017	0.000
12:12:00 PM	0.1	0.017	0.000
12:13:00 PM	0.1	0.017	0.000
12:14:00 PM	0.1	0.017	0.000
12:15:00 PM	0.1	0.016	0.000
12:16:00 PM	0.1	0.016	0.000
12:17:00 PM	0.1	0.015	0.000
12:18:00 PM	0.1	0.016	0.000
12:19:00 PM	0.1	0.015	0.000
12:20:00 PM	0.1	0.015	0.000
12:21:00 PM	0.1	0.015	0.000
12:22:00 PM	0.1	0.014	0.000
12:23:00 PM	0.1	0.013	0.000
12:24:00 PM	0.1	0.014	0.000
12:25:00 PM	0.1	0.014	0.000
12:26:00 PM	0.1	0.014	0.000
12:27:00 PM	0.1	0.014	0.000
12:28:00 PM	0.1	0.014	0.000
12:29:00 PM	0.1	0.014	0.000
12:30:00 PM	0.1	0.014	0.000
12:31:00 PM	0.1	0.015	0.000
12:32:00 PM	0.1	0.014	0.000
12:33:00 PM	0.1	0.013	0.000
12:34:00 PM	0.1	0.013	0.000
12:35:00 PM	0.1	0.013	0.000
12:36:00 PM	0.1	0.012	0.000
12:37:00 PM	0.1	0.012	0.000
12:38:00 PM	0.1	0.012	0.000
12:39:00 PM	0.1	0.013	0.000
12:40:00 PM	0.1	0.012	0.000
12:41:00 PM	0.1	0.013	0.000
12:42:00 PM	0.1	0.013	0.000
12:43:00 PM	0.1	0.012	0.000
12:44:00 PM	0.1	0.013	0.000
12:45:00 PM	0.1	0.013	0.000
12:46:00 PM	0.1	0.013	0.000
12:47:00 PM	0.1	0.013	0.000
12:48:00 PM	0.1	0.012	0.000
12:49:00 PM	0.1	0.015	0.000
12:50:00 PM	0.1	0.021	0.000
12:51:00 PM	0.1	0.013	0.000
12:52:00 PM	0.1	0.012	0.000
12:53:00 PM	0.1	0.012	0.000
12:54:00 PM	0.1	0.012	0.000

LIRR Group D Substations

Bayside Substation

Upwind

October 14, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:55:00 PM	0.1	0.012	0.000
12:56:00 PM	0.1	0.012	0.000
12:57:00 PM	0.1	0.012	0.000
12:58:00 PM	0.1	0.012	0.000
12:59:00 PM	0.1	0.012	0.000
1:00:00 PM	0.1	0.011	0.000
1:01:00 PM	0.1	0.011	0.000
1:02:00 PM	0.1	0.011	0.000
1:03:00 PM	0.1	0.011	0.000
1:04:00 PM	0.1	0.011	0.000
1:05:00 PM	0.1	0.011	0.000
1:06:00 PM	0.1	0.011	0.000
1:07:00 PM	0.1	0.011	0.000
1:08:00 PM	0.1	0.011	0.000
1:09:00 PM	0.1	0.011	0.000
1:10:00 PM	0.2	0.012	0.000
1:11:00 PM	0.1	0.012	0.000
1:12:00 PM	0.1	0.012	0.000
1:13:00 PM	0.1	0.012	0.000
1:14:00 PM	0.1	0.014	0.000
1:15:00 PM	0.1	0.013	0.000
1:16:00 PM	0.1	0.012	0.000
1:17:00 PM	0.1	0.012	0.000
1:18:00 PM	0.1	0.011	0.000
1:19:00 PM	0.1	0.011	0.000
1:20:00 PM	0.1	0.012	0.000
1:21:00 PM	0.1	0.012	0.000
1:22:00 PM	0.1	0.012	0.000
1:23:00 PM	0.1	0.012	0.000
1:24:00 PM	0.1	0.012	0.000
1:25:00 PM	0.1	0.012	0.000
1:26:00 PM	0.1	0.012	0.000
1:27:00 PM	0.1	0.011	0.000
1:28:00 PM	0.1	0.012	0.000
1:29:00 PM	0.1	0.012	0.000
1:30:00 PM	0.1	0.012	0.000
1:31:00 PM	0.1	0.012	0.000
1:32:00 PM	0.1	0.012	0.000
1:33:00 PM	0.1	0.013	0.000
1:34:00 PM	0.1	0.014	0.000
1:35:00 PM	0.1	0.013	0.000
1:36:00 PM	0.1	0.014	0.000
1:37:00 PM	0.1	0.014	0.000
1:38:00 PM	0.1	0.014	0.000
1:39:00 PM	0.1	0.013	0.000
1:40:00 PM	0.1	0.013	0.000
1:41:00 PM	0.1	0.013	0.000
1:42:00 PM	0.1	0.013	0.000
1:43:00 PM	0.1	0.012	0.000
1:44:00 PM	0.2	0.012	0.000
1:45:00 PM	0.1	0.012	0.000
1:46:00 PM	0.1	0.013	0.000
1:47:00 PM	0.2	0.012	0.000

LIRR Group D Substations

Bayside Substation

Upwind

October 14, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:48:00 PM	0.1	0.013	0.000
1:49:00 PM	0.1	0.013	0.000
1:50:00 PM	0.1	0.014	0.000
1:51:00 PM	0.1	0.014	0.000
1:52:00 PM	0.1	0.014	0.000
1:53:00 PM	0.1	0.013	0.000
1:54:00 PM	0.1	0.011	0.000
1:55:00 PM	0.1	0.011	0.000
1:56:00 PM	0.1	0.011	0.000
1:57:00 PM	0.2	0.011	0.000
1:58:00 PM	0.2	0.011	0.000
1:59:00 PM	0.1	0.012	0.000
2:00:00 PM	0.2	0.012	0.000
2:01:00 PM	0.1	0.013	0.000
2:02:00 PM	0.1	0.012	0.000
2:03:00 PM	0.1	0.011	0.000
2:04:00 PM	0.1	0.011	0.000
2:05:00 PM	0.1	0.011	0.000
2:06:00 PM	0.1	0.011	0.000
2:07:00 PM	0.1	0.011	0.000
2:08:00 PM	0.1	0.011	0.000
2:09:00 PM	0.1	0.011	0.000
2:10:00 PM	0.1	0.010	0.000
2:11:00 PM	0.1	0.011	0.000
2:12:00 PM	0.1	0.011	0.000
2:13:00 PM	0.1	0.011	0.000
2:14:00 PM	0.1	0.011	0.000
2:15:00 PM	0.1	0.012	0.000
2:16:00 PM	0.1	0.012	0.000
2:17:00 PM	0.1	0.013	0.000
2:18:00 PM	0.1	0.014	0.000
2:19:00 PM	0.1	0.012	0.000
2:20:00 PM	0.1	0.013	0.000
2:21:00 PM	0.1	0.012	0.000
2:22:00 PM	0.1	0.011	0.000
2:23:00 PM	0.1	0.012	0.000
2:24:00 PM	0.1	0.012	0.000
2:25:00 PM	0.1	0.011	0.000
2:26:00 PM	0.1	0.012	0.000
2:27:00 PM	0.1	0.012	0.000
2:28:00 PM	0.1	0.011	0.000
2:29:00 PM	0.1	0.011	0.000
2:30:00 PM	0.1	0.012	0.000
2:31:00 PM	0.1	0.012	0.000
2:32:00 PM	0.1	0.011	0.000
2:33:00 PM	0.1	0.012	0.000
2:34:00 PM	0.1	0.011	0.000
2:35:00 PM	0.1	0.011	0.000
2:36:00 PM	0.1	0.011	0.000
2:37:00 PM	0.1	0.011	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

October 14, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
9:25:00 AM	0.0		0.00
9:26:00 AM	0.0		0.00
9:27:00 AM	0.0		0.00
9:28:00 AM	0.0		0.00
9:29:00 AM	0.0	0.078	0.00
9:30:00 AM	0.0	0.016	0.00
9:31:00 AM	0.0	0.013	0.00
9:32:00 AM	0.0	0.014	0.00
9:33:00 AM	0.0	0.014	0.00
9:34:00 AM	0.0	0.014	0.00
9:35:00 AM	0.0	0.016	0.00
9:36:00 AM	0.0	0.018	0.00
9:37:00 AM	0.0	0.016	0.00
9:38:00 AM	0.0	0.013	0.00
9:39:00 AM	0.0	0.013	0.00
9:40:00 AM	0.0	0.012	0.00
9:41:00 AM	0.0	0.013	0.00
9:42:00 AM	0.0	0.012	0.00
9:43:00 AM	0.0	0.012	0.00
9:44:00 AM	0.0	0.013	0.00
9:45:00 AM	0.0	0.012	0.00
9:46:00 AM	0.0	0.012	0.00
9:47:00 AM	0.0	0.012	0.00
9:48:00 AM	0.0	0.012	0.00
9:49:00 AM	0.0	0.012	0.00
9:50:00 AM	0.0	0.012	0.00
9:51:00 AM	0.0	0.016	0.00
9:52:00 AM	0.0	0.012	0.00
9:53:00 AM	0.1	0.012	0.00
9:54:00 AM	0.1	0.012	0.00
9:55:00 AM	0.1	0.013	0.00
9:56:00 AM	0.1	0.013	0.00
9:57:00 AM	0.1	0.012	0.00
9:58:00 AM	0.1	0.015	0.00
9:59:00 AM	0.1	0.013	0.00
10:00:00 AM	0.1	0.013	0.00
10:01:00 AM	0.1	0.013	0.00
10:02:00 AM	0.1	0.013	0.00
10:03:00 AM	0.1	0.014	0.00
10:04:00 AM	0.1	0.014	0.00
10:05:00 AM	0.1	0.014	0.00
10:06:00 AM	0.1	0.014	0.00
10:07:00 AM	0.1	0.016	0.00
10:08:00 AM	0.2	0.017	0.00
10:09:00 AM	0.1	0.022	0.00
10:10:00 AM	0.2	0.017	0.00
10:11:00 AM	0.1	0.018	0.00
10:12:00 AM	0.1	0.018	0.00
10:13:00 AM	0.1	0.023	0.00
10:14:00 AM	0.1	0.022	0.00
10:15:00 AM	0.1	0.015	0.00
10:16:00 AM	0.1	0.018	0.00

LIRR Group D Substations

Bayside Substation

Work Zone

October 14, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:17:00 AM	0.1	0.016	0.00
10:18:00 AM	0.2	0.018	0.00
10:19:00 AM	0.1	0.017	0.00
10:20:00 AM	0.1	0.015	0.00
10:21:00 AM	0.1	0.015	0.00
10:22:00 AM	0.2	0.015	0.00
10:23:00 AM	0.1	0.018	0.00
10:24:00 AM	0.1	0.015	0.00
10:25:00 AM	0.1	0.017	0.00
10:26:00 AM	0.1	0.017	0.00
10:27:00 AM	0.1	0.023	0.00
10:28:00 AM	0.1	0.018	0.00
10:29:00 AM	0.1	0.021	0.00
10:30:00 AM	0.1	0.015	0.00
10:31:00 AM	0.1	0.014	0.00
10:32:00 AM	0.1	0.014	0.00
10:33:00 AM	0.1	0.014	0.00
10:34:00 AM	0.1	0.014	0.00
10:35:00 AM	0.1	0.014	0.00
10:36:00 AM	0.1	0.015	0.00
10:37:00 AM	0.1	0.016	0.00
10:38:00 AM	0.1	0.018	0.00
10:39:00 AM	0.1	0.017	0.00
10:40:00 AM	0.1	0.018	0.00
10:41:00 AM	0.1	0.019	0.00
10:42:00 AM	0.2	0.021	0.00
10:43:00 AM	0.1	0.020	0.00
10:44:00 AM	0.1	0.021	0.00
10:45:00 AM	0.1	0.023	0.00
10:46:00 AM	0.1	0.022	0.00
10:47:00 AM	0.1	0.025	0.00
10:48:00 AM	0.1	0.020	0.00
10:49:00 AM	0.1	0.021	0.00
10:50:00 AM	0.1	0.023	0.00
10:51:00 AM	0.1	0.021	0.00
10:52:00 AM	0.1	0.021	0.00
10:53:00 AM	0.1	0.020	0.00
10:54:00 AM	0.1	0.020	0.00
10:55:00 AM	0.1	0.020	0.00
10:56:00 AM	0.1	0.020	0.00
10:57:00 AM	0.1	0.019	0.00
10:58:00 AM	0.1	0.018	0.00
10:59:00 AM	0.1	0.019	0.00
11:00:00 AM	0.1	0.019	0.00
11:01:00 AM	0.1	0.017	0.00
11:02:00 AM	0.1	0.018	0.00
11:03:00 AM	0.1	0.019	0.00
11:04:00 AM	0.1	0.019	0.00
11:05:00 AM	0.1	0.017	0.00
11:06:00 AM	0.1	0.017	0.00
11:07:00 AM	0.1	0.018	0.00
11:08:00 AM	0.1	0.047	0.00
11:09:00 AM	0.1	0.029	0.00

LIRR Group D Substations

Bayside Substation

Work Zone

October 14, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:10:00 AM	0.1	0.044	0.00
11:11:00 AM	0.1	0.045	0.00
11:12:00 AM	0.1	0.025	0.00
11:13:00 AM	0.1	0.017	0.00
11:14:00 AM	0.1	0.015	0.00
11:15:00 AM	0.1	0.014	0.00
11:16:00 AM	0.1	0.138	0.00
11:17:00 AM	0.1	0.041	0.00
11:18:00 AM	0.1	0.035	0.00
11:19:00 AM	0.1	0.114	0.00
11:20:00 AM	0.1	0.056	0.00
11:21:00 AM	0.1	0.137	0.00
11:22:00 AM	0.1	0.112	0.00
11:23:00 AM	0.1	0.026	0.00
11:24:00 AM	0.1	0.020	0.00
11:25:00 AM	0.1	0.017	0.00
11:26:00 AM	0.1	0.016	0.00
11:27:00 AM	0.1	0.014	0.00
11:28:00 AM	0.1	0.014	0.00
11:29:00 AM	0.1	0.015	0.00
11:30:00 AM	0.9	0.014	0.00
11:31:00 AM	0.2	0.023	0.00
11:32:00 AM	0.1	0.015	0.00
11:33:00 AM	0.1	0.014	0.00
11:34:00 AM	0.2	0.026	0.00
11:35:00 AM	0.2	0.016	0.00
11:36:00 AM	0.1	0.012	0.00
11:37:00 AM	0.1	0.010	0.00
11:38:00 AM	0.1	0.013	0.00
11:39:00 AM	0.1	0.014	0.00
11:40:00 AM	0.1	0.022	0.00
11:41:00 AM	0.1	0.020	0.00
11:42:00 AM	0.1	0.013	0.00
11:43:00 AM	0.1	0.011	0.00
11:44:00 AM	0.1	0.012	0.00
11:45:00 AM	0.1	0.011	0.00
11:46:00 AM	0.1	0.011	0.00
11:47:00 AM	0.1	0.010	0.00
11:48:00 AM	0.1	0.011	0.00
11:49:00 AM	0.1	0.010	0.00
11:50:00 AM	0.1	0.013	0.00
11:51:00 AM	0.1	0.014	0.00
11:52:00 AM	0.1	0.017	0.00
11:53:00 AM	0.1	0.017	0.00
11:54:00 AM	0.1	0.015	0.00
11:55:00 AM	0.1	0.014	0.00
11:56:00 AM	0.1	0.013	0.00
11:57:00 AM	0.1	0.149	0.00
11:58:00 AM	0.1	0.084	0.00
11:59:00 AM	0.1	0.022	0.00
12:00:00 PM	0.1	0.019	0.00
12:01:00 PM	0.1	0.018	0.00
12:02:00 PM	0.1	0.015	0.00

LIRR Group D Substations

Bayside Substation

Work Zone

October 14, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:03:00 PM	0.1	0.017	0.00
12:04:00 PM	0.1	0.016	0.00
12:05:00 PM	0.1	0.016	0.00
12:06:00 PM	0.1	0.015	0.00
12:07:00 PM	0.1	0.015	0.00
12:08:00 PM	0.1	0.016	0.00
12:09:00 PM	0.1	0.017	0.00
12:10:00 PM	0.1	0.016	0.00
12:11:00 PM	0.1	0.015	0.00
12:12:00 PM	0.1	0.014	0.00
12:13:00 PM	0.1	0.014	0.00
12:14:00 PM	0.1	0.014	0.00
12:15:00 PM	0.1	0.014	0.00
12:16:00 PM	0.1	0.014	0.00
12:17:00 PM	0.1	0.014	0.00
12:18:00 PM	0.1	0.017	0.00
12:19:00 PM	0.1	0.014	0.00
12:20:00 PM	0.1	0.013	0.00
12:21:00 PM	0.1	0.013	0.00
12:22:00 PM	0.1	0.014	0.00
12:23:00 PM	0.1	0.012	0.00
12:24:00 PM	0.1	0.013	0.00
12:25:00 PM	0.1	0.012	0.00
12:26:00 PM	0.1	0.012	0.00
12:27:00 PM	0.1	0.012	0.00
12:28:00 PM	0.1	0.012	0.00
12:29:00 PM	0.1	0.012	0.00
12:30:00 PM	0.1	0.012	0.00
12:31:00 PM	0.2	0.012	0.00
12:32:00 PM	0.2	0.011	0.00
12:33:00 PM	0.1	0.011	0.00
12:34:00 PM	0.2	0.011	0.00
12:35:00 PM	0.2	0.012	0.00
12:36:00 PM	0.2	0.010	0.00
12:37:00 PM	0.2	0.010	0.00
12:38:00 PM	0.2	0.010	0.00
12:39:00 PM	0.2	0.011	0.00
12:40:00 PM	0.2	0.011	0.00
12:41:00 PM	0.2	0.010	0.00
12:42:00 PM	0.2	0.013	0.00
12:43:00 PM	0.2	0.014	0.00
12:44:00 PM	0.2	0.013	0.00
12:45:00 PM	0.2	0.012	0.00
12:46:00 PM	0.2	0.016	0.00
12:47:00 PM	0.2	0.015	0.00
12:48:00 PM	0.2	0.012	0.00
12:49:00 PM	0.2	0.012	0.00
12:50:00 PM	0.2	0.013	0.00
12:51:00 PM	0.2	0.012	0.00
12:52:00 PM	0.1	0.015	0.00
12:53:00 PM	0.2	0.017	0.00
12:54:00 PM	0.1	0.042	0.00
12:55:00 PM	0.2	0.011	0.00

LIRR Group D Substations

Bayside Substation

Work Zone

October 14, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:56:00 PM	0.2	0.012	0.00
12:57:00 PM	0.1	0.012	0.00
12:58:00 PM	0.1	0.010	0.00
12:59:00 PM	0.1	0.011	0.00
1:00:00 PM	0.2	0.010	0.00
1:01:00 PM	0.1	0.013	0.00
1:02:00 PM	0.1	0.011	0.00
1:03:00 PM	0.1	0.011	0.00
1:04:00 PM	0.1	0.014	0.00
1:05:00 PM	0.1	0.010	0.00
1:06:00 PM	0.1	0.012	0.00
1:07:00 PM	0.1	0.012	0.00
1:08:00 PM	0.1	0.015	0.00
1:09:00 PM	0.1	0.011	0.00
1:10:00 PM	0.1	0.011	0.00
1:11:00 PM	0.1	0.012	0.00
1:12:00 PM	0.1	0.013	0.00
1:13:00 PM	0.1	0.014	0.00
1:14:00 PM	0.1	0.014	0.00
1:15:00 PM	0.1	0.011	0.00
1:16:00 PM	0.1	0.013	0.00
1:17:00 PM	0.1	0.013	0.00
1:18:00 PM	0.1	0.010	0.00
1:19:00 PM	0.1	0.011	0.00
1:20:00 PM	0.1	0.017	0.00
1:21:00 PM	0.1	0.011	0.00
1:22:00 PM	0.1	0.012	0.00
1:23:00 PM	0.1	0.013	0.00
1:24:00 PM	0.1	0.013	0.00
1:25:00 PM	0.1	0.012	0.00
1:26:00 PM	0.1	0.013	0.00
1:27:00 PM	0.1	0.012	0.00
1:28:00 PM	0.1	0.011	0.00
1:29:00 PM	0.1	0.011	0.00
1:30:00 PM	0.1	0.011	0.00
1:31:00 PM	0.1	0.009	0.00
1:32:00 PM	0.1	0.011	0.00
1:33:00 PM	0.1	0.012	0.00
1:34:00 PM	0.1	0.014	0.00
1:35:00 PM	0.1	0.011	0.00
1:36:00 PM	0.1	0.013	0.00
1:37:00 PM	0.1	0.013	0.00
1:38:00 PM	0.1	0.014	0.000
1:39:00 PM	0.1	0.010	0.000
1:40:00 PM	0.1	0.012	0.000
1:41:00 PM	0.1	0.014	0.000
1:42:00 PM	0.1	0.013	0.000
1:43:00 PM	0.1	0.012	0.000
1:44:00 PM	0.1	0.012	0.000
1:45:00 PM	0.1	0.010	0.000
1:46:00 PM	0.1	0.011	0.000
1:47:00 PM	0.1	0.013	0.000
1:48:00 PM	0.1	0.014	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

October 14, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:49:00 PM	0.1	0.013	0.000
1:50:00 PM	0.1	0.014	0.000
1:51:00 PM	0.1	0.015	0.000
1:52:00 PM	0.1	0.015	0.000
1:53:00 PM	0.1	0.014	0.000
1:54:00 PM	0.1	0.010	0.000
1:55:00 PM	0.1	0.013	0.000
1:56:00 PM	0.1	0.011	0.000
1:57:00 PM	0.1	0.011	0.000
1:58:00 PM	0.1	0.011	0.000
1:59:00 PM	0.1	0.020	0.000
2:00:00 PM	0.1	0.016	0.000
2:01:00 PM	0.1	0.014	0.000
2:02:00 PM	0.1	0.080	0.000
2:03:00 PM	0.1	0.017	0.000
2:04:00 PM	0.1	0.011	0.000
2:05:00 PM	0.1	0.046	0.000
2:06:00 PM	0.1	0.013	0.000
2:07:00 PM	0.1	0.010	0.000
2:08:00 PM	0.1	0.015	0.000
2:09:00 PM	0.1	0.011	0.000
2:10:00 PM	0.1	0.012	0.000
2:11:00 PM	0.1	0.014	0.000
2:12:00 PM	0.1	0.013	0.000
2:13:00 PM	0.1	0.011	0.000
2:14:00 PM	0.1	0.013	0.000
2:15:00 PM	0.1	0.013	0.000
2:16:00 PM	0.1	0.010	0.000
2:17:00 PM	0.1	0.012	0.000
2:18:00 PM	0.1	0.013	0.000
2:19:00 PM	0.1	0.011	0.000
2:20:00 PM	0.1	0.012	0.000
2:21:00 PM	0.1	0.012	0.000
2:22:00 PM	0.1	0.011	0.000
2:23:00 PM	0.1	0.011	0.000
2:24:00 PM	0.1	0.013	0.000
2:25:00 PM	0.1	0.010	0.000
2:26:00 PM	0.1	0.012	0.000
2:27:00 PM	0.1	0.011	0.000
2:28:00 PM	0.1	0.010	0.000
2:29:00 PM	0.1	0.010	0.000
2:30:00 PM	0.1	0.010	0.000
2:31:00 PM	0.1	0.011	0.000
2:32:00 PM	0.1	0.010	0.000
2:33:00 PM	0.1	0.011	0.000
2:34:00 PM	0.1	0.009	0.000
2:35:00 PM	0.1	0.010	0.000
2:36:00 PM	0.1	0.008	0.000
2:37:00 PM	0.1	0.010	0.000
2:38:00 PM	0.1	0.009	0.000
2:39:00 PM	0.1	0.012	0.000
2:40:00 PM	0.1	0.008	0.000

LIRR Group D Substations

Bayside Substation

Downwind

October 14, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
9:27:00 AM		0.0	0.000
9:28:00 AM		0.022	0.000
9:29:00 AM		0.020	0.000
9:30:00 AM		0.018	0.000
9:31:00 AM		0.016	0.000
9:32:00 AM		0.016	0.000
9:33:00 AM		0.016	0.000
9:34:00 AM		0.014	0.000
9:35:00 AM		0.015	0.000
9:36:00 AM		0.017	0.000
9:37:00 AM		0.017	0.000
9:38:00 AM		0.017	0.000
9:39:00 AM		0.015	0.000
9:40:00 AM		0.014	0.000
9:41:00 AM		0.013	0.000
9:42:00 AM		0.012	0.000
9:43:00 AM		0.013	0.000
9:44:00 AM		0.013	0.000
9:45:00 AM		0.012	0.000
9:46:00 AM		0.011	0.000
9:47:00 AM		0.011	0.000
9:48:00 AM		0.012	0.000
9:49:00 AM		0.013	0.000
9:50:00 AM		0.014	0.000
9:51:00 AM		0.013	0.000
9:52:00 AM		0.012	0.000
9:53:00 AM		0.012	0.000
9:54:00 AM		0.012	0.000
9:55:00 AM		0.012	0.000
9:56:00 AM		0.012	0.000
9:57:00 AM		0.012	0.000
9:58:00 AM		0.012	0.000
9:59:00 AM		0.011	0.000
10:00:00 AM		0.012	0.000
10:01:00 AM		0.012	0.000
10:02:00 AM		0.012	0.000
10:03:00 AM		0.014	0.000
10:04:00 AM		0.014	0.000
10:05:00 AM		0.014	0.000
10:06:00 AM		0.014	0.000
10:07:00 AM		0.015	0.000
10:08:00 AM		0.016	0.000
10:09:00 AM		0.015	0.000
10:10:00 AM		0.016	0.000
10:11:00 AM		0.017	0.000
10:12:00 AM		0.019	0.000
10:13:00 AM		0.019	0.000
10:14:00 AM		0.018	0.000
10:15:00 AM		0.018	0.000
10:16:00 AM		0.016	0.000
10:17:00 AM		0.016	0.000
10:18:00 AM		0.016	0.000

LIRR Group D Substations

Bayside Substation

Downwind

October 14, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:19:00 AM		0.023	0.000
10:20:00 AM		0.031	0.000
10:21:00 AM		0.021	0.000
10:22:00 AM		0.019	0.000
10:23:00 AM		0.019	0.000
10:24:00 AM		0.019	0.000
10:25:00 AM		0.019	0.000
10:26:00 AM		0.022	0.000
10:27:00 AM		0.021	0.000
10:28:00 AM		0.022	0.000
10:29:00 AM		0.021	0.000
10:30:00 AM		0.021	0.000
10:31:00 AM		0.019	0.000
10:32:00 AM		0.017	0.000
10:33:00 AM		0.018	0.000
10:34:00 AM		0.019	0.000
10:35:00 AM		0.019	0.000
10:36:00 AM		0.021	0.000
10:37:00 AM		0.020	0.000
10:38:00 AM		0.023	0.000
10:39:00 AM		0.022	0.000
10:40:00 AM		0.021	0.000
10:41:00 AM		0.021	0.000
10:42:00 AM		0.023	0.000
10:43:00 AM		0.023	0.000
10:44:00 AM		0.024	0.003
10:45:00 AM		0.025	0.000
10:46:00 AM		0.026	0.000
10:47:00 AM		0.026	0.000
10:48:00 AM		0.025	0.000
10:49:00 AM		0.025	0.000
10:50:00 AM		0.046	0.000
10:51:00 AM	0.2	0.048	0.000
10:52:00 AM	0.2	0.036	0.000
10:53:00 AM	0.2	0.038	0.000
10:54:00 AM	0.2	0.033	0.000
10:55:00 AM	0.2	0.036	0.000
10:56:00 AM	0.2	0.034	0.000
10:57:00 AM	0.2	0.033	0.000
10:58:00 AM	0.2	0.033	0.000
10:59:00 AM	0.2	0.032	0.000
11:00:00 AM	0.2	0.031	0.000
11:01:00 AM	0.2	0.028	0.000
11:02:00 AM	0.2	0.027	0.000
11:03:00 AM	0.2	0.027	0.000
11:04:00 AM	0.2	0.033	0.000
11:05:00 AM	0.2	0.042	0.000
11:06:00 AM	0.2	0.028	0.000
11:07:00 AM	0.2	0.027	0.000
11:08:00 AM	0.2	0.029	0.000
11:09:00 AM	0.2	0.028	0.000
11:10:00 AM	0.2	0.031	0.000
11:11:00 AM	0.2	0.062	0.000

LIRR Group D Substations

Bayside Substation

Downwind

October 14, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:12:00 AM	0.2	0.050	0.000
11:13:00 AM	0.2	0.032	0.000
11:14:00 AM	0.2	0.025	0.000
11:15:00 AM	0.2	0.021	0.000
11:16:00 AM	0.2	0.020	0.000
11:17:00 AM	0.2	0.029	0.000
11:18:00 AM	0.2	0.037	0.000
11:19:00 AM	0.2	0.031	0.000
11:20:00 AM	0.2	0.041	0.000
11:21:00 AM	0.2	0.042	0.000
11:22:00 AM	0.2	0.040	0.000
11:23:00 AM	0.2	0.044	0.000
11:24:00 AM	0.2	0.030	0.000
11:25:00 AM	0.2	0.026	0.000
11:26:00 AM	0.2	0.023	0.000
11:27:00 AM	0.2	0.021	0.000
11:28:00 AM	0.2	0.024	0.000
11:29:00 AM	0.2	0.024	0.000
11:30:00 AM	0.2	0.021	0.000
11:31:00 AM	0.2	0.022	0.000
11:32:00 AM	0.2	0.022	0.000
11:33:00 AM	0.2	0.024	0.000
11:34:00 AM	0.2	0.024	0.000
11:35:00 AM	0.2	0.023	0.000
11:36:00 AM	0.2	0.019	0.000
11:37:00 AM	0.2	0.016	0.000
11:38:00 AM	0.2	0.016	0.000
11:39:00 AM	0.2	0.015	0.000
11:40:00 AM	0.2	0.022	0.000
11:41:00 AM	0.2	0.023	0.000
11:42:00 AM	0.2	0.025	0.000
11:43:00 AM	0.2	0.022	0.000
11:44:00 AM	0.2	0.021	0.000
11:45:00 AM	0.2	0.018	0.000
11:46:00 AM	0.2	0.016	0.000
11:47:00 AM	0.2	0.019	0.000
11:48:00 AM	0.2	0.018	0.000
11:49:00 AM	0.2	0.019	0.000
11:50:00 AM	0.2	0.017	0.000
11:51:00 AM	0.2	0.019	0.000
11:52:00 AM	0.2	0.022	0.000
11:53:00 AM	0.2	0.025	0.000
11:54:00 AM	0.2	0.020	0.000
11:55:00 AM	0.2	0.032	0.000
11:56:00 AM	0.2	0.032	0.000
11:57:00 AM	0.2	0.020	0.000
11:58:00 AM	0.2	0.020	0.000
11:59:00 AM	0.2	0.019	0.000
12:00:00 PM	0.2	0.018	0.000
12:01:00 PM	0.2	0.016	0.000
12:02:00 PM	0.2	0.013	0.000
12:03:00 PM	0.2	0.016	0.000
12:04:00 PM	0.3	0.020	0.000

LIRR Group D Substations

Bayside Substation

Downwind

October 14, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:05:00 PM	0.3	0.019	0.000
12:06:00 PM	0.3	0.018	0.000
12:07:00 PM	0.3	0.018	0.000
12:08:00 PM	0.4	0.020	0.000
12:09:00 PM	0.3	0.021	0.000
12:10:00 PM	0.3	0.022	0.000
12:11:00 PM	0.3	0.021	0.000
12:12:00 PM	0.3	0.019	0.000
12:13:00 PM	0.3	0.017	0.000
12:14:00 PM	0.3	0.020	0.000
12:15:00 PM	0.3	0.021	0.000
12:16:00 PM	0.2	0.018	0.000
12:17:00 PM	0.3	0.018	0.000
12:18:00 PM	0.3	0.021	0.000
12:19:00 PM	0.3	0.020	0.000
12:20:00 PM	0.3	0.020	0.000
12:21:00 PM	0.3	0.017	0.000
12:22:00 PM	0.2	0.018	0.000
12:23:00 PM	0.3	0.017	0.000
12:24:00 PM	0.3	0.018	0.000
12:25:00 PM	0.3	0.019	0.000
12:26:00 PM	0.3	0.018	0.000
12:27:00 PM	0.3	0.017	0.000
12:28:00 PM	0.3	0.016	0.000
12:29:00 PM	0.2	0.015	0.000
12:30:00 PM	0.3	0.016	0.000
12:31:00 PM	0.2	0.016	0.000
12:32:00 PM	0.2	0.015	0.000
12:33:00 PM	0.2	0.015	0.000
12:34:00 PM	0.2	0.017	0.000
12:35:00 PM	0.2	0.017	0.000
12:36:00 PM	0.3	0.017	0.000
12:37:00 PM	0.3	0.017	0.000
12:38:00 PM	0.3	0.016	0.000
12:39:00 PM	0.2	0.016	0.000
12:40:00 PM	0.2	0.015	0.000
12:41:00 PM	0.2	0.016	0.000
12:42:00 PM	0.2	0.014	0.000
12:43:00 PM	0.2	0.014	0.000
12:44:00 PM	0.2	0.014	0.000
12:45:00 PM	0.2	0.030	0.000
12:46:00 PM	0.2	0.031	0.000
12:47:00 PM	0.2	0.023	0.000
12:48:00 PM	0.2	0.019	0.000
12:49:00 PM	0.2	0.017	0.000
12:50:00 PM	0.2	0.017	0.000
12:51:00 PM	0.2	0.015	0.000
12:52:00 PM	0.2	0.014	0.000
12:53:00 PM	0.2	0.015	0.000
12:54:00 PM	0.2	0.015	0.000
12:55:00 PM	0.2	0.014	0.000
12:56:00 PM	0.2	0.012	0.000
12:57:00 PM	0.2	0.012	0.000

LIRR Group D Substations

Bayside Substation

Downwind

October 14, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:58:00 PM	0.2	0.012	0.000
12:59:00 PM	0.2	0.011	0.000
1:00:00 PM	0.2	0.011	0.000
1:01:00 PM	0.2	0.011	0.000
1:02:00 PM	0.2	0.012	0.000
1:03:00 PM	0.2	0.014	0.000
1:04:00 PM	0.3	0.012	0.000
1:05:00 PM	0.2	0.012	0.000
1:06:00 PM	0.3	0.013	0.000
1:07:00 PM	0.3	0.014	0.000
1:08:00 PM	0.2	0.012	0.000
1:09:00 PM	0.3	0.011	0.000
1:10:00 PM	0.3	0.012	0.000
1:11:00 PM	0.2	0.015	0.000
1:12:00 PM	0.3	0.025	0.000
1:13:00 PM	0.2	0.026	0.000
1:14:00 PM	0.3	0.017	0.000
1:15:00 PM	0.3	0.016	0.000
1:16:00 PM	0.3	0.017	0.000
1:17:00 PM	0.2	0.016	0.000
1:18:00 PM	0.3	0.016	0.000
1:19:00 PM	0.3	0.016	0.000
1:20:00 PM	0.3	0.016	0.000
1:21:00 PM	0.3	0.018	0.000
1:22:00 PM	0.3	0.019	0.000
1:23:00 PM	0.3	0.016	0.000
1:24:00 PM	0.3	0.015	0.000
1:25:00 PM	0.3	0.017	0.000
1:26:00 PM	0.3	0.016	0.000
1:27:00 PM	0.3	0.017	0.000
1:28:00 PM	0.3	0.017	0.000
1:29:00 PM	0.3	0.016	0.000
1:30:00 PM	0.3	0.015	0.000
1:31:00 PM	0.3	0.015	0.000
1:32:00 PM	0.3	0.015	0.000
1:33:00 PM	0.3	0.016	0.000
1:34:00 PM	0.3	0.018	0.000
1:35:00 PM	0.3	0.018	0.000
1:36:00 PM	0.3	0.017	0.000
1:37:00 PM	0.3	0.016	0.000
1:38:00 PM	0.3	0.017	0.000
1:39:00 PM	0.3	0.016	0.000
1:40:00 PM	0.3	0.016	0.000
1:41:00 PM	0.3	0.017	0.000
1:42:00 PM	0.3	0.019	0.000
1:43:00 PM	0.3	0.019	0.000
1:44:00 PM	0.3	0.018	0.000
1:45:00 PM	0.3	0.017	0.000
1:46:00 PM	0.3	0.017	0.000
1:47:00 PM	0.3	0.016	0.000
1:48:00 PM	0.3	0.015	0.000
1:49:00 PM	0.3	0.028	0.000
1:50:00 PM	0.3	0.022	0.000

LIRR Group D Substations

Bayside Substation

Downwind

October 14, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:51:00 PM	0.3	0.021	0.000
1:52:00 PM	0.3	0.024	0.000
1:53:00 PM	0.3	0.024	0.000
1:54:00 PM	0.3	0.021	0.000
1:55:00 PM	0.3	0.017	0.000
1:56:00 PM	0.3	0.018	0.000
1:57:00 PM	0.3	0.016	0.000
1:58:00 PM	0.3	0.017	0.000
1:59:00 PM	0.3	0.018	0.000
2:00:00 PM	0.3	0.022	0.000
2:01:00 PM	0.3	0.021	0.000
2:02:00 PM	0.3	0.022	0.000
2:03:00 PM	0.3	0.021	0.000
2:04:00 PM	0.3	0.020	0.000
2:05:00 PM	0.3	0.018	0.000
2:06:00 PM	0.3	0.017	0.000
2:07:00 PM	0.3	0.018	0.000
2:08:00 PM	0.3	0.017	0.000
2:09:00 PM	0.3	0.017	0.000
2:10:00 PM	0.3	0.015	0.000
2:11:00 PM	0.3	0.014	0.000
2:12:00 PM	0.3	0.016	0.000
2:13:00 PM	0.3	0.018	0.000
2:14:00 PM	0.3	0.017	0.000
2:15:00 PM	0.3	0.018	0.000
2:16:00 PM	0.3	0.019	0.000
2:17:00 PM	0.3	0.018	0.000
2:18:00 PM	0.3	0.022	0.000
2:19:00 PM	0.3	0.021	0.000
2:20:00 PM	0.3	0.018	0.000
2:21:00 PM	0.3	0.019	0.000
2:22:00 PM	0.3	0.018	0.000
2:23:00 PM	0.3	0.018	0.000
2:24:00 PM	0.3	0.015	0.000
2:25:00 PM	0.3	0.015	0.000
2:26:00 PM	0.3	0.016	0.000
2:27:00 PM	0.3	0.018	0.000
2:28:00 PM	0.3	0.018	0.000
2:29:00 PM	0.3	0.020	0.000
2:30:00 PM	0.3	0.020	0.000
2:31:00 PM	0.3	0.021	0.000

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	X
TEMP.	< 32		32-50		50-70	X	70-85		>85	

Project No.:		Winds From S ~14 mph	Date:	10/15/20
Project Name:	LIRR Group D Substation Remediation-Bayside Site-V00388-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. Waiting for substations to de-energize bayside substation before they will let us continue excavation. After discussing with substations manager Aarco was allowed to continue excavation within area #2. Aarco constructs a stockpile area proximate to the eastern fencing within area #3 to stockpile soils excavated from area #2. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site were sampled for documentation sampling. Preferred encountered an equipment error with the PID within the downwind and work zone camp station that was rectified by 1045 am that resulted in the loss of PID data for the first 15 minutes of work. Working with pine to rectify this issue. Collected endpoint samples BS-EP-01-B(1') and BS-EP-02-B(1').

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/ m ³)	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/m ³)
UP Wind	0.1	0.013	0.000	0.1	0.018	0.000
Down Wind	0.2	0.024	0.000	0.2	0.042	0.000
Work Zone	0.3	0.014	0.000	0.4	0.020	0.000

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- We will continue with excavation of area #2. Loading out soils stockpiled for transportation to Clean Earth Carteret.



Continue excavating from area #2.



Aarco clearing new stockpile area outside of area #3.

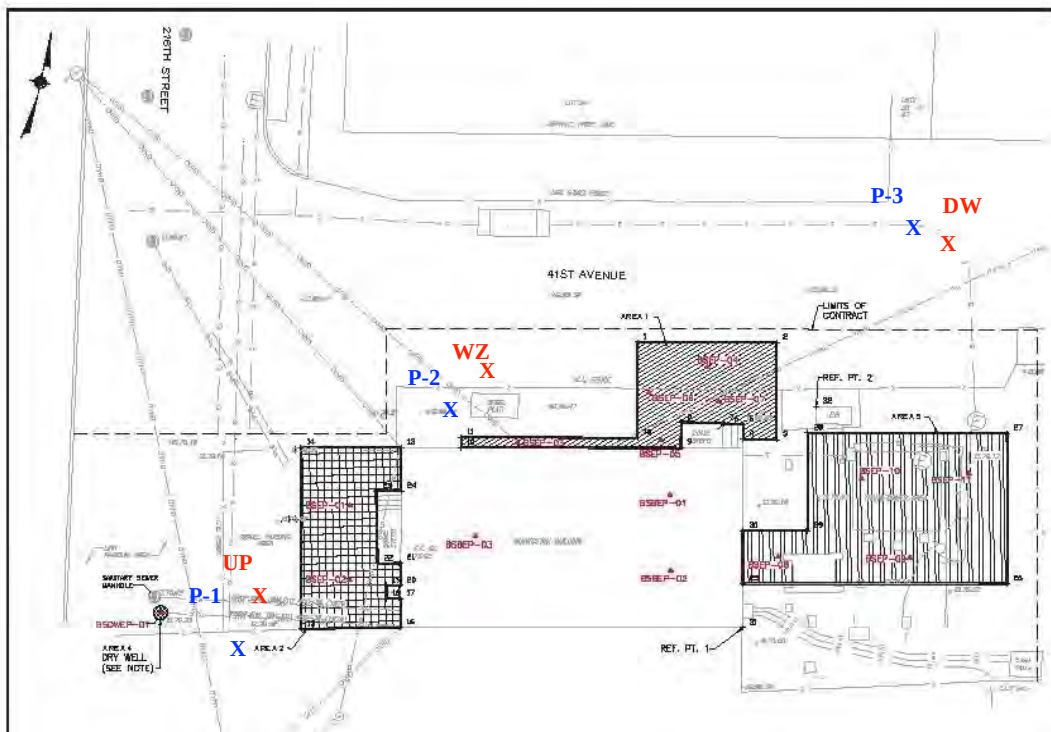


Dumping soils excavated from area #2 within new stockpile area.



View of Upwind station.

Monitoring Locations



LIRR Group D Substations

Bayside Substation

Upwind

October 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
8:58:00 AM	0.0		0.000
8:59:00 AM	0.0	0.021	0.000
9:00:00 AM	0.0	0.015	0.000
9:01:00 AM	0.0	0.017	0.000
9:02:00 AM	0.0	0.015	0.000
9:03:00 AM	0.0	0.015	0.000
9:04:00 AM	0.0	0.017	0.000
9:05:00 AM	0.0	0.017	0.000
9:06:00 AM	0.0	0.018	0.000
9:07:00 AM	0.0	0.016	0.000
9:08:00 AM	0.0	0.015	0.000
9:09:00 AM	0.0	0.017	0.000
9:10:00 AM	0.0	0.015	0.000
9:11:00 AM	0.0	0.014	0.000
9:12:00 AM	0.0	0.013	0.000
9:13:00 AM	0.0	0.013	0.000
9:14:00 AM	0.0	0.014	0.000
9:15:00 AM	0.0	0.013	0.000
9:16:00 AM	0.0	0.013	0.000
9:17:00 AM	0.0	0.013	0.000
9:18:00 AM	0.0	0.013	0.000
9:19:00 AM	0.0	0.013	0.000
9:20:00 AM	0.0	0.013	0.000
9:21:00 AM	0.0	0.013	0.000
9:22:00 AM	0.0	0.013	0.000
9:23:00 AM	0.0	0.013	0.000
9:24:00 AM	0.0	0.014	0.000
9:25:00 AM	0.0	0.013	0.000
9:26:00 AM	0.0	0.013	0.000
9:27:00 AM	0.0	0.013	0.000
9:28:00 AM	0.0	0.013	0.000
9:29:00 AM	0.1	0.013	0.000
9:30:00 AM	0.0	0.014	0.000
9:31:00 AM	0.0	0.014	0.000
9:32:00 AM	0.0	0.012	0.000
9:33:00 AM	0.0	0.013	0.000
9:34:00 AM	0.0	0.012	0.000
9:35:00 AM	0.0	0.012	0.000
9:36:00 AM	0.0	0.013	0.000
9:37:00 AM	0.0	0.012	0.000
9:38:00 AM	0.0	0.012	0.000
9:39:00 AM	0.0	0.013	0.000
9:40:00 AM	0.0	0.013	0.000
9:41:00 AM	0.0	0.016	0.000
9:42:00 AM	0.0	0.017	0.000
9:43:00 AM	0.0	0.018	0.000
9:44:00 AM	0.0	0.025	0.000
9:45:00 AM	0.0	0.027	0.000
9:46:00 AM	0.0	0.028	0.000
9:47:00 AM	0.0	0.022	0.000

LIRR Group D Substations

Bayside Substation

Upwind

October 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
9:48:00 AM	0.0	0.017	0.000
9:49:00 AM	0.0	0.013	0.000
9:50:00 AM	0.0	0.012	0.000
9:51:00 AM	0.0	0.012	0.000
9:52:00 AM	0.0	0.012	0.000
9:53:00 AM	0.0	0.014	0.000
9:54:00 AM	0.0	0.014	0.000
9:55:00 AM	0.0	0.013	0.000
9:56:00 AM	0.1	0.019	0.000
9:57:00 AM	0.1	0.019	0.000
9:58:00 AM	0.1	0.013	0.000
9:59:00 AM	0.1	0.013	0.000
10:00:00 AM	0.1	0.012	0.000
10:01:00 AM	0.1	0.014	0.000
10:02:00 AM	0.1	0.014	0.000
10:03:00 AM	0.1	0.013	0.000
10:04:00 AM	0.1	0.013	0.000
10:05:00 AM	0.1	0.013	0.000
10:06:00 AM	0.1	0.012	0.000
10:07:00 AM	0.1	0.012	0.000
10:08:00 AM	0.1	0.012	0.000
10:09:00 AM	0.1	0.012	0.000
10:10:00 AM	0.1	0.012	0.000
10:11:00 AM	0.1	0.011	0.000
10:12:00 AM	0.1	0.011	0.000
10:13:00 AM	0.1	0.012	0.000
10:14:00 AM	0.1	0.012	0.000
10:15:00 AM	0.1	0.012	0.000
10:16:00 AM	0.1	0.012	0.000
10:17:00 AM	0.1	0.012	0.000
10:18:00 AM	0.1	0.011	0.000
10:19:00 AM	0.1	0.012	0.000
10:20:00 AM	0.1	0.011	0.000
10:21:00 AM	0.1	0.011	0.000
10:22:00 AM	0.1	0.012	0.000
10:23:00 AM	0.1	0.012	0.000
10:24:00 AM	0.1	0.014	0.000
10:25:00 AM	0.1	0.017	0.000
10:26:00 AM	0.1	0.015	0.000
10:27:00 AM	0.1	0.014	0.000
10:28:00 AM	0.1	0.012	0.000
10:29:00 AM	0.1	0.012	0.000
10:30:00 AM	0.1	0.014	0.000
10:31:00 AM	0.1	0.014	0.000
10:32:00 AM	0.1	0.011	0.000
10:33:00 AM	0.1	0.012	0.000
10:34:00 AM	0.1	0.013	0.000
10:35:00 AM	0.1	0.017	0.000
10:36:00 AM	0.1	0.013	0.000
10:37:00 AM	0.1	0.013	0.000
10:38:00 AM	0.1	0.012	0.000

LIRR Group D Substations

Bayside Substation

Upwind

October 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:39:00 AM	0.1	0.012	0.000
10:40:00 AM	0.1	0.012	0.000
10:41:00 AM	0.1	0.012	0.000
10:42:00 AM	0.1	0.011	0.000
10:43:00 AM	0.1	0.013	0.000
10:44:00 AM	0.1	0.014	0.000
10:45:00 AM	0.1	0.013	0.000
10:46:00 AM	0.1	0.015	0.000
10:47:00 AM	0.1	0.012	0.000
10:48:00 AM	0.1	0.013	0.000
10:49:00 AM	0.1	0.012	0.000
10:50:00 AM	0.1	0.012	0.000
10:51:00 AM	0.1	0.012	0.000
10:52:00 AM	0.1	0.012	0.000
10:53:00 AM	0.1	0.013	0.000
10:54:00 AM	0.1	0.014	0.000
10:55:00 AM	0.1	0.013	0.000
10:56:00 AM	0.1	0.012	0.000
10:57:00 AM	0.1	0.012	0.000
10:58:00 AM	0.1	0.014	0.000
10:59:00 AM	0.1	0.012	0.000
11:00:00 AM	0.1	0.012	0.000
11:01:00 AM	0.1	0.013	0.000
11:02:00 AM	0.1	0.020	0.000
11:03:00 AM	0.1	0.017	0.000
11:04:00 AM	0.1	0.014	0.000
11:05:00 AM	0.1	0.013	0.000
11:06:00 AM	0.1	0.012	0.000
11:07:00 AM	0.1	0.012	0.000
11:08:00 AM	0.1	0.013	0.000
11:09:00 AM	0.1	0.013	0.000
11:10:00 AM	0.1	0.013	0.000
11:11:00 AM	0.1	0.013	0.000
11:12:00 AM	0.1	0.012	0.000
11:13:00 AM	0.1	0.012	0.000
11:14:00 AM	0.1	0.012	0.000
11:15:00 AM	0.1	0.013	0.000
11:16:00 AM	0.1	0.013	0.000
11:17:00 AM	0.1	0.013	0.000
11:18:00 AM	0.1	0.013	0.000
11:19:00 AM	0.1	0.012	0.000
11:20:00 AM	0.1	0.013	0.000
11:21:00 AM	0.1	0.013	0.000
11:22:00 AM	0.1	0.013	0.000
11:23:00 AM	0.1	0.012	0.000
11:24:00 AM	0.1	0.012	0.000
11:25:00 AM	0.1	0.012	0.000
11:26:00 AM	0.1	0.012	0.000
11:27:00 AM	0.1	0.012	0.000
11:28:00 AM	0.1	0.013	0.000
11:29:00 AM	0.1	0.012	0.000

LIRR Group D Substations

Bayside Substation

Upwind

October 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:30:00 AM	0.1	0.012	0.000
11:31:00 AM	0.1	0.011	0.000
11:32:00 AM	0.1	0.011	0.000
11:33:00 AM	0.1	0.015	0.000
11:34:00 AM	0.1	0.011	0.000
11:35:00 AM	0.1	0.011	0.000
11:36:00 AM	0.1	0.011	0.000
11:37:00 AM	0.1	0.011	0.000
11:38:00 AM	0.1	0.011	0.000
11:39:00 AM	0.1	0.011	0.000
11:40:00 AM	0.1	0.011	0.000
11:41:00 AM	0.1	0.011	0.000
11:42:00 AM	0.1	0.011	0.000
11:43:00 AM	0.1	0.011	0.000
11:44:00 AM	0.1	0.012	0.000
11:45:00 AM	0.1	0.011	0.000
11:46:00 AM	0.1	0.011	0.000
11:47:00 AM	0.1	0.010	0.000
11:48:00 AM	0.1	0.011	0.000
11:49:00 AM	0.1	0.011	0.000
11:50:00 AM	0.1	0.012	0.000
11:51:00 AM	0.1	0.013	0.000
11:52:00 AM	0.1	0.013	0.000
11:53:00 AM	0.1	0.012	0.000
11:54:00 AM	0.1	0.013	0.000
11:55:00 AM	0.1	0.013	0.000
11:56:00 AM	0.1	0.012	0.000
11:57:00 AM	0.1	0.013	0.000
11:58:00 AM	0.1	0.013	0.000
11:59:00 AM	0.1	0.013	0.000
12:00:00 PM	0.1	0.017	0.000
12:01:00 PM	0.1	0.015	0.000
12:02:00 PM	0.1	0.013	0.000
12:03:00 PM	0.1	0.012	0.000
12:04:00 PM	0.1	0.012	0.000
12:05:00 PM	0.1	0.012	0.000
12:06:00 PM	0.1	0.012	0.000
12:07:00 PM	0.1	0.011	0.000
12:08:00 PM	0.1	0.011	0.000
12:09:00 PM	0.1	0.012	0.000
12:10:00 PM	0.1	0.011	0.000
12:11:00 PM	0.1	0.011	0.000
12:12:00 PM	0.1	0.011	0.000
12:13:00 PM	0.1	0.012	0.000
12:14:00 PM	0.1	0.012	0.000
12:15:00 PM	0.1	0.012	0.000
12:16:00 PM	0.1	0.011	0.000
12:17:00 PM	0.1	0.011	0.000
12:18:00 PM	0.1	0.011	0.000
12:19:00 PM	0.1	0.011	0.000
12:20:00 PM	0.1	0.011	0.000

LIRR Group D Substations

Bayside Substation

Upwind

October 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:21:00 PM	0.1	0.012	0.000
12:22:00 PM	0.1	0.011	0.000
12:23:00 PM	0.1	0.011	0.000
12:24:00 PM	0.1	0.011	0.000
12:25:00 PM	0.1	0.011	0.000
12:26:00 PM	0.1	0.011	0.000
12:27:00 PM	0.1	0.011	0.000
12:28:00 PM	0.1	0.011	0.000
12:29:00 PM	0.1	0.013	0.000
12:30:00 PM	0.1	0.013	0.000
12:31:00 PM	0.1	0.010	0.000
12:32:00 PM	0.1	0.010	0.000
12:33:00 PM	0.1	0.010	0.000
12:34:00 PM	0.1	0.010	0.000
12:35:00 PM	0.1	0.010	0.000
12:36:00 PM	0.1	0.010	0.000
12:37:00 PM	0.1	0.010	0.000
12:38:00 PM	0.1	0.010	0.000
12:39:00 PM	0.1	0.011	0.000
12:40:00 PM	0.1	0.011	0.000
12:41:00 PM	0.1	0.012	0.000
12:42:00 PM	0.1	0.011	0.000
12:43:00 PM	0.1	0.011	0.000
12:44:00 PM	0.1	0.011	0.000
12:45:00 PM	0.1	0.011	0.000
12:46:00 PM	0.1	0.011	0.000
12:47:00 PM	0.1	0.010	0.000
12:48:00 PM	0.1	0.010	0.000
12:49:00 PM	0.1	0.010	0.000
12:50:00 PM	0.1	0.011	0.000
12:51:00 PM	0.1	0.010	0.000
12:52:00 PM	0.1	0.010	0.000
12:53:00 PM	0.1	0.010	0.000
12:54:00 PM	0.1	0.010	0.000
12:55:00 PM	0.1	0.010	0.000
12:56:00 PM	0.1	0.010	0.000
12:57:00 PM	0.1	0.011	0.000
12:58:00 PM	0.1	0.010	0.000
12:59:00 PM	0.1	0.010	0.000
1:00:00 PM	0.1	0.013	0.000
1:01:00 PM	0.1	0.011	0.000
1:02:00 PM	0.1	0.012	0.000
1:03:00 PM	0.1	0.012	0.000
1:04:00 PM	0.1	0.012	0.000
1:05:00 PM	0.1	0.010	0.000
1:06:00 PM	0.1	0.010	0.000
1:07:00 PM	0.1	0.010	0.000
1:08:00 PM	0.1	0.010	0.000
1:09:00 PM	0.1	0.010	0.000
1:10:00 PM	0.1	0.010	0.000
1:11:00 PM	0.1	0.010	0.000

LIRR Group D Substations

Bayside Substation

Upwind

October 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:12:00 PM	0.1	0.012	0.000
1:13:00 PM	0.1	0.011	0.000
1:14:00 PM	0.1	0.012	0.000
1:15:00 PM	0.1	0.010	0.000
1:16:00 PM	0.1	0.010	0.000
1:17:00 PM	0.1	0.011	0.000
1:18:00 PM	0.1	0.011	0.000
1:19:00 PM	0.1	0.012	0.000
1:20:00 PM	0.1	0.012	0.000
1:21:00 PM	0.1	0.011	0.000
1:22:00 PM	0.1	0.011	0.000
1:23:00 PM	0.1	0.011	0.000
1:24:00 PM	0.1	0.013	0.000
1:25:00 PM	0.1	0.011	0.000
1:26:00 PM	0.1	0.011	0.000
1:27:00 PM	0.1	0.010	0.000
1:28:00 PM	0.1	0.011	0.000
1:29:00 PM	0.1	0.011	0.000
1:30:00 PM	0.1	0.012	0.000
1:31:00 PM	0.1	0.013	0.000
1:32:00 PM	0.1	0.011	0.000
1:33:00 PM	0.1	0.011	0.000
1:34:00 PM	0.1	0.012	0.000
1:35:00 PM	0.1	0.010	0.000
1:36:00 PM	0.1	0.010	0.000
1:37:00 PM	0.1	0.011	0.000
1:38:00 PM	0.1	0.010	0.000
1:39:00 PM	0.1	0.010	0.000
1:40:00 PM	0.1	0.010	0.000
1:41:00 PM	0.1	0.010	0.000
1:42:00 PM	0.1	0.010	0.000
1:43:00 PM	0.1	0.011	0.000
1:44:00 PM	0.1	0.010	0.000
1:45:00 PM	0.1	0.010	0.000
1:46:00 PM	0.1	0.011	0.000
1:47:00 PM	0.1	0.010	0.000
1:48:00 PM	0.1	0.010	0.000
1:49:00 PM	0.1	0.011	0.000
1:50:00 PM	0.1	0.014	0.000
1:51:00 PM	0.1	0.016	0.000
1:52:00 PM	0.1	0.013	0.000
1:53:00 PM	0.1	0.011	0.000
1:54:00 PM	0.1	0.010	0.000
1:55:00 PM	0.1	0.010	0.000
1:56:00 PM	0.1	0.011	0.000
1:57:00 PM	0.1	0.011	0.000
1:58:00 PM	0.1	0.010	0.000
1:59:00 PM	0.1	0.010	0.000
2:00:00 PM	0.1	0.011	0.000
2:01:00 PM	0.1	0.013	0.000
2:02:00 PM	0.1	0.011	0.000

LIRR Group D Substations

Bayside Substation

Upwind

October 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
2:03:00 PM	0.1	0.011	0.000
2:04:00 PM	0.1	0.010	0.000
2:05:00 PM	0.1	0.010	0.000
2:06:00 PM	0.1	0.010	0.000
2:07:00 PM	0.1	0.011	0.000
2:08:00 PM	0.1	0.014	0.000
2:09:00 PM	0.1	0.014	0.000
2:10:00 PM	0.1	0.012	0.000
2:11:00 PM	0.1	0.011	0.000
2:12:00 PM	0.093	0.011	0
2:13:00 PM	0.087	0.011	0
2:14:00 PM	0.083	0.013	0
2:15:00 PM	0.086	0.011	0
2:16:00 PM	0.091	0.016	0
2:17:00 PM	0.084	0.011	0
2:18:00 PM	0.091	0.011	0
2:19:00 PM	0.088	0.011	0
2:20:00 PM	0.093	0.011	0
2:21:00 PM	0.092	0.011	0
2:22:00 PM	0.094	0.011	0
2:23:00 PM	0.094	0.011	0
2:24:00 PM	0.099	0.021	0
2:25:00 PM	0.102	0.013	0
2:26:00 PM	0.09	0.012	0
2:27:00 PM	0.094	0.012	0
2:28:00 PM	0.098	0.011	0
2:29:00 PM	0.102	0.017	0
2:30:00 PM	0.101	0.014	0
2:31:00 PM	0.094	0.013	0
2:32:00 PM	0.098	0.011	0
2:33:00 PM	0.092	0.011	0
2:34:00 PM	0.096	0.011	0
2:35:00 PM	0.096	0.01	0
2:36:00 PM	0.099	0.01	0
2:37:00 PM	0.095	0.01	0
2:38:00 PM	0.095	0.01	0
2:39:00 PM	0.095	0.01	0
2:40:00 PM	0.099	0.01	0
2:41:00 PM	0.093	0.01	0
2:42:00 PM	0.101	0.012	0
2:43:00 PM	0.098	0.01	0
2:44:00 PM	0.104	0.01	0
2:45:00 PM	0.105	0.011	0
2:46:00 PM	0.102	0.01	0
2:47:00 PM	0.097	0.01	0
2:48:00 PM	0.11	0.011	0
2:49:00 PM	0.105	0.011	0
2:50:00 PM	0.102	0.01	0
2:51:00 PM	0.106	0.014	0
2:52:00 PM	0.1	0.012	0
2:53:00 PM	0.107	0.011	0

LIRR Group D Substations
Bayside Substation
Upwind
October 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
2:54:00 PM	0.096	0.01	0
2:55:00 PM			

LIRR Group D Substations

Bayside Substation

Work Zone

October 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
9:02:00 AM		0.101	0.00
9:03:00 AM		0.022	0.00
9:04:00 AM		0.018	0.00
9:05:00 AM		0.017	0.00
9:06:00 AM		0.020	0.00
9:07:00 AM		0.017	0.00
9:08:00 AM		0.018	0.00
9:09:00 AM		0.017	0.00
9:10:00 AM		0.016	0.00
9:11:00 AM		0.015	0.00
9:12:00 AM		0.014	0.00
9:13:00 AM		0.014	0.00
9:14:00 AM		0.014	0.00
9:15:00 AM		0.014	0.00
9:16:00 AM		0.014	0.00
9:17:00 AM		0.014	0.00
9:18:00 AM		0.014	0.00
9:19:00 AM		0.014	0.00
9:20:00 AM		0.014	0.00
9:21:00 AM		0.014	0.00
9:22:00 AM		0.013	0.00
9:23:00 AM		0.013	0.00
9:24:00 AM		0.013	0.00
9:25:00 AM		0.013	0.00
9:26:00 AM		0.013	0.00
9:27:00 AM		0.012	0.00
9:28:00 AM		0.012	0.00
9:29:00 AM		0.012	0.00
9:30:00 AM		0.012	0.00
9:31:00 AM		0.012	0.00
9:32:00 AM		0.012	0.00
9:33:00 AM		0.012	0.00
9:34:00 AM		0.012	0.00
9:35:00 AM		0.013	0.00
9:36:00 AM		0.013	0.00
9:37:00 AM		0.013	0.00
9:38:00 AM		0.013	0.00
9:39:00 AM		0.013	0.00
9:40:00 AM		0.014	0.00
9:41:00 AM		0.020	0.00
9:42:00 AM		0.018	0.00
9:43:00 AM		0.018	0.00
9:44:00 AM		0.025	0.00
9:45:00 AM		0.026	0.00
9:46:00 AM		0.030	0.00
9:47:00 AM		0.028	0.00
9:48:00 AM		0.020	0.00
9:49:00 AM		0.013	0.00
9:50:00 AM		0.012	0.00
9:51:00 AM		0.012	0.00

LIRR Group D Substations

Bayside Substation

Work Zone

October 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
9:52:00 AM		0.012	0.00
9:53:00 AM		0.014	0.00
9:54:00 AM		0.014	0.00
9:55:00 AM		0.014	0.00
9:56:00 AM		0.016	0.00
9:57:00 AM		0.018	0.00
9:58:00 AM		0.014	0.00
9:59:00 AM		0.014	0.00
10:00:00 AM		0.014	0.00
10:01:00 AM		0.014	0.00
10:02:00 AM		0.013	0.00
10:03:00 AM		0.013	0.00
10:04:00 AM		0.013	0.00
10:05:00 AM		0.013	0.00
10:06:00 AM		0.012	0.00
10:07:00 AM		0.011	0.00
10:08:00 AM		0.011	0.00
10:09:00 AM		0.011	0.00
10:10:00 AM		0.011	0.00
10:11:00 AM		0.011	0.00
10:12:00 AM		0.011	0.00
10:13:00 AM		0.011	0.00
10:14:00 AM		0.010	0.00
10:15:00 AM		0.011	0.00
10:16:00 AM		0.010	0.00
10:17:00 AM		0.011	0.00
10:18:00 AM		0.010	0.00
10:19:00 AM		0.010	0.00
10:20:00 AM		0.010	0.00
10:21:00 AM		0.010	0.00
10:22:00 AM		0.010	0.00
10:23:00 AM		0.010	0.00
10:24:00 AM		0.011	0.00
10:25:00 AM		0.057	0.00
10:26:00 AM		0.029	0.00
10:27:00 AM		0.017	0.00
10:28:00 AM		0.041	0.00
10:29:00 AM		0.019	0.00
10:30:00 AM		0.014	0.00
10:31:00 AM		0.013	0.00
10:32:00 AM		0.012	0.00
10:33:00 AM		0.012	0.00
10:34:00 AM		0.011	0.00
10:35:00 AM		0.014	0.00
10:36:00 AM		0.023	0.00
10:37:00 AM		0.017	0.00
10:38:00 AM		0.015	0.00
10:39:00 AM		0.017	0.00
10:40:00 AM		0.011	0.00
10:41:00 AM		0.011	0.00
10:42:00 AM		0.012	0.00

LIRR Group D Substations

Bayside Substation

Work Zone

October 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:43:00 AM		0.012	0.00
10:44:00 AM		0.013	0.00
10:45:00 AM		0.013	0.00
10:46:00 AM		0.021	0.00
10:47:00 AM		0.014	0.00
10:48:00 AM	0.4	0.014	0.00
10:49:00 AM	0.4	0.013	0.00
10:50:00 AM	0.4	0.012	0.00
10:51:00 AM	0.4	0.015	0.00
10:52:00 AM	0.4	0.012	0.00
10:53:00 AM	0.4	0.073	0.00
10:54:00 AM	0.4	0.018	0.00
10:55:00 AM	0.4	0.013	0.00
10:56:00 AM	0.4	0.011	0.00
10:57:00 AM	0.4	0.011	0.00
10:58:00 AM	0.4	0.013	0.00
10:59:00 AM	0.4	0.012	0.00
11:00:00 AM	0.4	0.011	0.00
11:01:00 AM	0.4	0.010	0.00
11:02:00 AM	0.4	0.016	0.00
11:03:00 AM	0.4	0.018	0.00
11:04:00 AM	0.5	0.017	0.00
11:05:00 AM	0.4	0.012	0.00
11:06:00 AM	0.4	0.012	0.00
11:07:00 AM	0.4	0.011	0.00
11:08:00 AM	0.4	0.012	0.00
11:09:00 AM	0.4	0.011	0.00
11:10:00 AM	0.4	0.012	0.00
11:11:00 AM	0.3	0.013	0.00
11:12:00 AM	0.4	0.011	0.00
11:13:00 AM	0.4	0.011	0.00
11:14:00 AM	0.4	0.011	0.00
11:15:00 AM	0.3	0.012	0.00
11:16:00 AM	0.4	0.012	0.00
11:17:00 AM	0.3	0.012	0.00
11:18:00 AM	0.4	0.011	0.00
11:19:00 AM	0.3	0.012	0.00
11:20:00 AM	0.3	0.012	0.00
11:21:00 AM	0.3	0.013	0.00
11:22:00 AM	0.3	0.012	0.00
11:23:00 AM	0.3	0.012	0.00
11:24:00 AM	0.3	0.012	0.00
11:25:00 AM	0.3	0.012	0.00
11:26:00 AM	0.3	0.011	0.00
11:27:00 AM	0.3	0.010	0.00
11:28:00 AM	0.3	0.010	0.00
11:29:00 AM	0.3	0.010	0.00
11:30:00 AM	0.3	0.011	0.00
11:31:00 AM	0.3	0.010	0.00
11:32:00 AM	0.3	0.010	0.00
11:33:00 AM	0.3	0.011	0.00

LIRR Group D Substations

Bayside Substation

Work Zone

October 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:34:00 AM	0.3	0.010	0.00
11:35:00 AM	0.3	0.010	0.00
11:36:00 AM	0.3	0.009	0.00
11:37:00 AM	0.3	0.009	0.00
11:38:00 AM	0.3	0.010	0.00
11:39:00 AM	0.3	0.010	0.00
11:40:00 AM	0.3	0.009	0.00
11:41:00 AM	0.3	0.009	0.00
11:42:00 AM	0.3	0.009	0.00
11:43:00 AM	0.3	0.009	0.00
11:44:00 AM	0.3	0.010	0.00
11:45:00 AM	0.3	0.009	0.00
11:46:00 AM	0.3	0.009	0.00
11:47:00 AM	0.3	0.009	0.00
11:48:00 AM	0.3	0.011	0.00
11:49:00 AM	0.3	0.010	0.00
11:50:00 AM	0.3	0.013	0.00
11:51:00 AM	0.3	0.011	0.00
11:52:00 AM	0.3	0.011	0.00
11:53:00 AM	0.3	0.010	0.00
11:54:00 AM	0.3	0.011	0.00
11:55:00 AM	0.3	0.011	0.00
11:56:00 AM	0.3	0.014	0.00
11:57:00 AM	0.3	0.014	0.00
11:58:00 AM	0.3	0.012	0.00
11:59:00 AM	0.3	0.012	0.00
12:00:00 PM	0.3	0.016	0.00
12:01:00 PM	0.3	0.013	0.00
12:02:00 PM	0.3	0.011	0.00
12:03:00 PM	0.3	0.010	0.00
12:04:00 PM	0.3	0.010	0.00
12:05:00 PM	0.3	0.010	0.00
12:06:00 PM	0.3	0.010	0.00
12:07:00 PM	0.3	0.010	0.00
12:08:00 PM	0.3	0.011	0.00
12:09:00 PM	0.3	0.013	0.00
12:10:00 PM	0.3	0.009	0.00
12:11:00 PM	0.3	0.016	0.00
12:12:00 PM	0.3	0.018	0.00
12:13:00 PM	0.3	0.013	0.00
12:14:00 PM	0.3	0.013	0.00
12:15:00 PM	0.3	0.011	0.00
12:16:00 PM	0.3	0.009	0.00
12:17:00 PM	0.3	0.009	0.00
12:18:00 PM	0.3	0.009	0.00
12:19:00 PM	0.3	0.009	0.00
12:20:00 PM	0.3	0.008	0.00
12:21:00 PM	0.3	0.009	0.00
12:22:00 PM	0.3	0.008	0.00
12:23:00 PM	0.3	0.009	0.00
12:24:00 PM	0.3	0.008	0.00

LIRR Group D Substations

Bayside Substation

Work Zone

October 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:25:00 PM	0.3	0.009	0.00
12:26:00 PM	0.3	0.008	0.00
12:27:00 PM	0.3	0.009	0.00
12:28:00 PM	0.3	0.009	0.00
12:29:00 PM	0.3	0.009	0.00
12:30:00 PM	0.3	0.010	0.00
12:31:00 PM	0.3	0.009	0.00
12:32:00 PM	0.3	0.009	0.00
12:33:00 PM	0.3	0.008	0.00
12:34:00 PM	0.3	0.008	0.00
12:35:00 PM	0.3	0.008	0.00
12:36:00 PM	0.3	0.008	0.00
12:37:00 PM	0.3	0.010	0.00
12:38:00 PM	0.3	0.008	0.00
12:39:00 PM	0.3	0.008	0.00
12:40:00 PM	0.3	0.008	0.00
12:41:00 PM	0.3	0.008	0.00
12:42:00 PM	0.3	0.009	0.00
12:43:00 PM	0.3	0.021	0.00
12:44:00 PM	0.3	0.011	0.00
12:45:00 PM	0.3	0.010	0.00
12:46:00 PM	0.3	0.009	0.00
12:47:00 PM	0.3	0.008	0.00
12:48:00 PM	0.3	0.008	0.00
12:49:00 PM	0.3	0.007	0.00
12:50:00 PM	0.3	0.007	0.00
12:51:00 PM	0.3	0.007	0.00
12:52:00 PM	0.3	0.008	0.00
12:53:00 PM	0.3	0.007	0.00
12:54:00 PM	0.3	0.007	0.00
12:55:00 PM	0.3	0.010	0.00
12:56:00 PM	0.3	0.007	0.00
12:57:00 PM	0.3	0.007	0.00
12:58:00 PM	0.3	0.008	0.00
12:59:00 PM	0.3	0.007	0.00
1:00:00 PM	0.3	0.009	0.00
1:01:00 PM	0.3	0.008	0.00
1:02:00 PM	0.3	0.009	0.00
1:03:00 PM	0.3	0.010	0.00
1:04:00 PM	0.3	0.009	0.00
1:05:00 PM	0.3	0.008	0.00
1:06:00 PM	0.3	0.007	0.00
1:07:00 PM	0.3	0.007	0.00
1:08:00 PM	0.3	0.008	0.00
1:09:00 PM	0.3	0.008	0.00
1:10:00 PM	0.3	0.010	0.00
1:11:00 PM	0.3	0.009	0.00
1:12:00 PM	0.3	0.012	0.00
1:13:00 PM	0.3	0.009	0.00
1:14:00 PM	0.3	0.016	0.00
1:15:00 PM	0.3	0.008	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

October 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:16:00 PM	0.3	0.008	0.000
1:17:00 PM	0.3	0.008	0.000
1:18:00 PM	0.3	0.008	0.000
1:19:00 PM	0.3	0.009	0.000
1:20:00 PM	0.3	0.008	0.000
1:21:00 PM	0.3	0.009	0.000
1:22:00 PM	0.3	0.008	0.000
1:23:00 PM	0.3	0.014	0.000
1:24:00 PM	0.3	0.008	0.000
1:25:00 PM	0.3	0.012	0.000
1:26:00 PM	0.3	0.009	0.000
1:27:00 PM	0.3	0.008	0.000
1:28:00 PM	0.3	0.008	0.000
1:29:00 PM	0.3	0.037	0.000
1:30:00 PM	0.3	0.011	0.000
1:31:00 PM	0.3	0.014	0.000
1:32:00 PM	0.3	0.009	0.000
1:33:00 PM	0.3	0.008	0.000
1:34:00 PM	0.3	0.008	0.000
1:35:00 PM	0.3	0.008	0.000
1:36:00 PM	0.3	0.010	0.000
1:37:00 PM	0.3	0.008	0.000
1:38:00 PM	0.3	0.007	0.000
1:39:00 PM	0.3	0.007	0.000
1:40:00 PM	0.3	0.008	0.000
1:41:00 PM	0.3	0.008	0.000
1:42:00 PM	0.3	0.008	0.000
1:43:00 PM	0.3	0.008	0.000
1:44:00 PM	0.3	0.008	0.000
1:45:00 PM	0.3	0.008	0.000
1:46:00 PM	0.3	0.008	0.000
1:47:00 PM	0.3	0.008	0.000
1:48:00 PM	0.3	0.008	0.000
1:49:00 PM	0.3	0.007	0.000
1:50:00 PM	0.3	0.008	0.000
1:51:00 PM	0.3	0.015	0.000
1:52:00 PM	0.3	0.011	0.000
1:53:00 PM	0.3	0.009	0.000
1:54:00 PM	0.3	0.007	0.000
1:55:00 PM	0.3	0.007	0.000
1:56:00 PM	0.3	0.007	0.000
1:57:00 PM	0.3	0.008	0.000
1:58:00 PM	0.3	0.009	0.000
1:59:00 PM	0.3	0.008	0.000
2:00:00 PM	0.3	0.008	0.000
2:01:00 PM	0.3	0.008	0.000
2:02:00 PM	0.3	0.008	0.000
2:03:00 PM	0.3	0.008	0.000
2:04:00 PM	0.3	0.008	0.000
2:05:00 PM	0.3	0.007	0.000
2:06:00 PM	0.3	0.009	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

October 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
2:07:00 PM	0.3	0.021	0.000
2:08:00 PM	0.3	0.011	0.000
2:09:00 PM	0.3	0.017	0.000
2:10:00 PM	0.3	0.010	0.000
2:11:00 PM	0.3	0.008	0.000
2:12:00 PM	0.3	0.008	0.000
2:13:00 PM	0.3	0.007	0.000
2:14:00 PM	0.3	0.008	0.000
2:15:00 PM	0.3	0.009	0.000
2:16:00 PM	0.3	0.008	0.000
2:17:00 PM	0.3	0.008	0.000
2:18:00 PM	0.3	0.0	0.000
2:19:00 PM	0.3	0.0	0.000
2:20:00 PM	0.3	0.0	0.000
2:21:00 PM	0.3	0.0	0.000
2:22:00 PM	0.3	0.0	0.000
2:23:00 PM	0.3	0.0	0.000
2:24:00 PM	0.3	0.0	0.000
2:25:00 PM	0.3	0.0	0.000
2:26:00 PM	0.3	0.0	0.000
2:27:00 PM	0.3	0.0	0.000
2:28:00 PM	0.3	0.0	0.000
2:29:00 PM	0.3	0.0	0.000
2:30:00 PM	0.3	0.0	0.000
2:31:00 PM	0.3	0.0	0.000
2:32:00 PM	0.3	0.0	0.000
2:33:00 PM	0.3	0.0	0.000
2:34:00 PM	0.3	0.0	0.000
2:35:00 PM	0.3	0.0	0.000
2:36:00 PM	0.3	0.0	0.000
2:37:00 PM	0.3	0.0	0.000
2:38:00 PM	0.3	0.0	0.000
2:39:00 PM	0.3	0.0	0.000
2:40:00 PM	0.3	0.0	0.000
2:41:00 PM	0.3	0.0	0.000
2:42:00 PM	0.3	0.0	0.000
2:43:00 PM	0.3	0.0	0.000
2:44:00 PM	0.3	0.0	0.000
2:45:00 PM	0.3	0.0	0.000
2:46:00 PM	0.3	0.0	0.000
2:47:00 PM	0.3	0.0	0.000
2:48:00 PM	0.3	0.0	0.000
2:49:00 PM	0.3	0.0	0.000
2:50:00 PM	0.3	0.0	0.000

LIRR Group D Substations

Bayside Substation

Downwind

October 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
9:00:00 AM	0.0		0.000
9:01:00 AM	0.0		0.000
9:02:00 AM	0.0	0.094	0.000
9:03:00 AM	0.0	0.036	0.000
9:04:00 AM	0.0	0.037	0.000
9:05:00 AM	0.0	0.036	0.000
9:06:00 AM	0.0	0.036	0.000
9:07:00 AM	0.0	0.035	0.000
9:08:00 AM	0.0	0.035	0.000
9:09:00 AM	0.0	0.035	0.000
9:10:00 AM	0.0	0.033	0.000
9:11:00 AM	0.0	0.032	0.000
9:12:00 AM	0.0	0.032	0.000
9:13:00 AM	0.0	0.031	0.000
9:14:00 AM	0.0	0.031	0.000
9:15:00 AM	0.0	0.030	0.000
9:16:00 AM	0.0	0.030	0.000
9:17:00 AM	0.0	0.029	0.000
9:18:00 AM	0.0	0.031	0.000
9:19:00 AM	0.1	0.031	0.000
9:20:00 AM	0.1	0.030	0.000
9:21:00 AM	0.0	0.029	0.000
9:22:00 AM	0.1	0.029	0.000
9:23:00 AM	0.1	0.031	0.000
9:24:00 AM	0.1	0.030	0.000
9:25:00 AM	0.1	0.029	0.000
9:26:00 AM	0.1	0.029	0.000
9:27:00 AM	0.1	0.028	0.000
9:28:00 AM	0.1	0.028	0.000
9:29:00 AM	0.1	0.028	0.000
9:30:00 AM	0.1	0.029	0.000
9:31:00 AM	0.1	0.028	0.000
9:32:00 AM	0.1	0.028	0.000
9:33:00 AM	0.1	0.028	0.000
9:34:00 AM	0.1	0.028	0.000
9:35:00 AM	0.1	0.029	0.000
9:36:00 AM	0.1	0.028	0.000
9:37:00 AM	0.1	0.027	0.000
9:38:00 AM	0.1	0.030	0.000
9:39:00 AM	0.1	0.029	0.000
9:40:00 AM	0.1	0.030	0.000
9:41:00 AM	0.1	0.058	0.000
9:42:00 AM	0.1	0.059	0.000
9:43:00 AM	0.1	0.049	0.000
9:44:00 AM	0.1	0.060	0.000
9:45:00 AM	0.1	0.036	0.000
9:46:00 AM	0.1	0.064	0.000
9:47:00 AM	0.1	0.040	0.000
9:48:00 AM	0.1	0.032	0.000
9:49:00 AM	0.1	0.033	0.000

LIRR Group D Substations

Bayside Substation

Downwind

October 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
9:50:00 AM	0.1	0.034	0.000
9:51:00 AM	0.1	0.030	0.000
9:52:00 AM	0.1	0.028	0.000
9:53:00 AM	0.1	0.029	0.000
9:54:00 AM	0.1	0.033	0.000
9:55:00 AM	0.1	0.039	0.000
9:56:00 AM	0.1	0.040	0.000
9:57:00 AM	0.1	0.045	0.000
9:58:00 AM	0.1	0.034	0.000
9:59:00 AM	0.1	0.032	0.000
10:00:00 AM	0.1	0.031	0.000
10:01:00 AM	0.1	0.032	0.000
10:02:00 AM	0.1	0.028	0.000
10:09:00 AM		0.024	0.000
10:10:00 AM		0.024	0.000
10:11:00 AM		0.024	0.000
10:12:00 AM		0.024	0.000
10:13:00 AM		0.024	0.000
10:14:00 AM		0.024	0.000
10:15:00 AM		0.025	0.000
10:16:00 AM		0.025	0.000
10:17:00 AM		0.025	0.000
10:18:00 AM		0.024	0.000
10:19:00 AM		0.024	0.000
10:20:00 AM		0.024	0.000
10:21:00 AM		0.024	0.000
10:22:00 AM		0.023	0.000
10:23:00 AM		0.024	0.000
10:24:00 AM		0.024	0.000
10:25:00 AM		0.024	0.000
10:26:00 AM		0.025	0.000
10:27:00 AM		0.025	0.000
10:28:00 AM		0.026	0.000
10:29:00 AM		0.024	0.000
10:30:00 AM		0.026	0.000
10:31:00 AM		0.025	0.000
10:32:00 AM		0.024	0.000
10:33:00 AM		0.025	0.000
10:34:00 AM		0.025	0.000
10:35:00 AM		0.025	0.000
10:36:00 AM		0.025	0.000
10:37:00 AM		0.025	0.000
10:38:00 AM		0.024	0.000
10:39:00 AM		0.023	0.000
10:40:00 AM		0.023	0.000
10:41:00 AM		0.023	0.000
10:42:00 AM		0.023	0.000
10:43:00 AM		0.023	0.000
10:44:00 AM		0.025	0.000
10:45:00 AM		0.025	0.000
10:46:00 AM		0.024	0.000

LIRR Group D Substations

Bayside Substation

Downwind

October 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:47:00 AM		0.026	0.000
10:48:00 AM		0.027	0.000
10:49:00 AM		0.024	0.000
10:50:00 AM		0.024	0.000
10:51:00 AM		0.024	0.000
10:52:00 AM		0.024	0.000
10:53:00 AM		0.028	0.000
10:54:00 AM		0.028	0.000
10:55:00 AM		0.024	0.000
10:56:00 AM		0.023	0.000
10:57:00 AM		0.024	0.000
10:58:00 AM		0.024	0.000
10:59:00 AM		0.024	0.000
11:00:00 AM		0.025	0.000
11:01:00 AM		0.024	0.000
11:02:00 AM		0.031	0.000
11:03:00 AM		0.036	0.000
11:04:00 AM		0.027	0.000
11:05:00 AM		0.024	0.000
11:06:00 AM		0.024	0.000
11:10:00 AM	0.0	0.025	0.000
11:11:00 AM	0.0	0.024	0.000
11:12:00 AM	0.0	0.024	0.000
11:13:00 AM	0.0	0.024	0.000
11:14:00 AM	0.0	0.024	0.000
11:15:00 AM	0.0	0.025	0.000
11:16:00 AM	0.0	0.025	0.000
11:17:00 AM		0.025	0.000
11:18:00 AM		0.026	0.000
11:19:00 AM	0.3	0.031	0.000
11:20:00 AM	0.2	0.031	0.000
11:21:00 AM	0.2	0.026	0.000
11:22:00 AM	0.2	0.027	0.000
11:23:00 AM	0.2	0.026	0.000
11:24:00 AM	0.2	0.023	0.000
11:25:00 AM	0.2	0.025	0.000
11:26:00 AM	0.2	0.024	0.000
11:27:00 AM	0.2	0.023	0.000
11:28:00 AM	0.2	0.025	0.000
11:29:00 AM	0.2	0.024	0.000
11:30:00 AM	0.2	0.028	0.000
11:31:00 AM	0.2	0.028	0.000
11:32:00 AM	0.2	0.024	0.000
11:33:00 AM	0.2	0.023	0.000
11:34:00 AM	0.2	0.022	0.000
11:35:00 AM	0.2	0.022	0.000
11:36:00 AM	0.2	0.022	0.000
11:37:00 AM	0.2	0.022	0.000
11:38:00 AM	0.2	0.021	0.000
11:39:00 AM	0.2	0.021	0.000
11:40:00 AM	0.2	0.022	0.000

LIRR Group D Substations

Bayside Substation

Downwind

October 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:41:00 AM	0.2	0.021	0.000
11:42:00 AM	0.2	0.021	0.000
11:43:00 AM	0.2	0.021	0.000
11:44:00 AM	0.2	0.021	0.000
11:45:00 AM	0.2	0.022	0.000
11:46:00 AM	0.2	0.022	0.000
11:47:00 AM	0.2	0.021	0.000
11:48:00 AM	0.2	0.021	0.000
11:49:00 AM	0.2	0.021	0.000
11:50:00 AM	0.2	0.022	0.000
11:51:00 AM	0.2	0.026	0.000
11:52:00 AM	0.2	0.022	0.000
11:53:00 AM	0.2	0.022	0.000
11:54:00 AM	0.2	0.023	0.000
11:55:00 AM	0.2	0.025	0.000
11:56:00 AM	0.2	0.022	0.000
11:57:00 AM	0.2	0.025	0.000
11:58:00 AM	0.2	0.026	0.000
11:59:00 AM	0.2	0.025	0.000
12:00:00 PM	0.2	0.031	0.000
12:01:00 PM	0.2	0.025	0.000
12:02:00 PM	0.2	0.022	0.000
12:03:00 PM	0.2	0.021	0.000
12:04:00 PM	0.2	0.022	0.000
12:05:00 PM	0.2	0.022	0.000
12:06:00 PM	0.2	0.021	0.000
12:07:00 PM	0.2	0.021	0.000
12:08:00 PM	0.2	0.021	0.000
12:09:00 PM	0.2	0.020	0.000
12:10:00 PM	0.2	0.019	0.000
12:11:00 PM	0.2	0.019	0.000
12:12:00 PM	0.2	0.020	0.000
12:13:00 PM	0.2	0.021	0.000
12:14:00 PM	0.2	0.020	0.000
12:15:00 PM	0.2	0.019	0.000
12:16:00 PM	0.2	0.020	0.000
12:17:00 PM	0.2	0.019	0.000
12:18:00 PM	0.2	0.019	0.000
12:19:00 PM	0.2	0.019	0.000
12:20:00 PM	0.2	0.020	0.000
12:21:00 PM	0.2	0.020	0.000
12:22:00 PM	0.2	0.020	0.000
12:23:00 PM	0.2	0.020	0.000
12:24:00 PM	0.2	0.020	0.000
12:25:00 PM	0.2	0.019	0.000
12:26:00 PM	0.2	0.018	0.000
12:27:00 PM	0.2	0.021	0.000
12:28:00 PM	0.2	0.021	0.000
12:29:00 PM	0.2	0.022	0.000
12:30:00 PM	0.2	0.021	0.000
12:31:00 PM	0.2	0.018	0.000

LIRR Group D Substations

Bayside Substation

Downwind

October 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:32:00 PM	0.2	0.019	0.000
12:33:00 PM	0.2	0.018	0.000
12:34:00 PM	0.2	0.019	0.000
12:35:00 PM	0.2	0.018	0.000
12:36:00 PM	0.2	0.024	0.000
12:37:00 PM	0.2	0.018	0.000
12:38:00 PM	0.2	0.018	0.000
12:39:00 PM	0.2	0.019	0.000
12:40:00 PM	0.2	0.018	0.000
12:41:00 PM	0.2	0.019	0.000
12:42:00 PM	0.2	0.018	0.000
12:43:00 PM	0.2	0.018	0.000
12:44:00 PM	0.2	0.019	0.000
12:45:00 PM	0.2	0.019	0.000
12:46:00 PM	0.2	0.019	0.000
12:47:00 PM	0.2	0.019	0.000
12:48:00 PM	0.2	0.018	0.000
12:49:00 PM	0.2	0.018	0.000
12:50:00 PM	0.2	0.018	0.000
12:51:00 PM	0.2	0.018	0.000
12:52:00 PM	0.2	0.018	0.000
12:53:00 PM	0.2	0.018	0.000
12:54:00 PM	0.2	0.018	0.000
12:55:00 PM	0.2	0.018	0.000
12:56:00 PM	0.2	0.018	0.000
12:57:00 PM	0.2	0.018	0.000
12:58:00 PM	0.2	0.018	0.000
12:59:00 PM	0.2	0.018	0.000
1:00:00 PM	0.2	0.018	0.000
1:01:00 PM	0.2	0.018	0.000
1:02:00 PM	0.2	0.018	0.000
1:03:00 PM	0.2	0.021	0.000
1:04:00 PM	0.2	0.020	0.000
1:05:00 PM	0.2	0.018	0.000
1:06:00 PM	0.2	0.018	0.000
1:07:00 PM	0.2	0.019	0.000
1:08:00 PM	0.2	0.019	0.000
1:09:00 PM	0.2	0.019	0.000
1:10:00 PM	0.2	0.018	0.000
1:11:00 PM	0.2	0.018	0.000
1:12:00 PM	0.2	0.018	0.000
1:13:00 PM	0.2	0.018	0.000
1:14:00 PM	0.2	0.019	0.000
1:15:00 PM	0.2	0.021	0.000
1:16:00 PM	0.2	0.018	0.000
1:17:00 PM	0.2	0.018	0.000
1:18:00 PM	0.2	0.022	0.000
1:19:00 PM	0.2	0.019	0.000
1:20:00 PM	0.2	0.020	0.000
1:21:00 PM	0.2	0.019	0.000
1:22:00 PM	0.2	0.018	0.000

LIRR Group D Substations

Bayside Substation

Downwind

October 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:23:00 PM	0.2	0.019	0.000
1:24:00 PM	0.2	0.017	0.000
1:25:00 PM	0.2	0.018	0.000
1:26:00 PM	0.2	0.018	0.000
1:27:00 PM	0.2	0.018	0.000
1:28:00 PM	0.2	0.018	0.000
1:29:00 PM	0.2	0.018	0.000
1:30:00 PM	0.2	0.018	0.000
1:31:00 PM	0.2	0.021	0.000
1:32:00 PM	0.2	0.018	0.000
1:33:00 PM	0.2	0.020	0.000
1:34:00 PM	0.2	0.018	0.000
1:34:59 PM	0.2	0.018	0.000
1:35:59 PM	0.2	0.017	0.000
1:36:59 PM	0.2	0.018	0.000
1:37:59 PM	0.2	0.019	0.000
1:38:59 PM	0.2	0.017	0.000
1:39:59 PM	0.2	0.018	0.000
1:40:59 PM	0.2	0.017	0.000
1:41:59 PM	0.2	0.020	0.000
1:42:59 PM	0.2	0.018	0.000
1:43:59 PM	0.2	0.017	0.000
1:44:59 PM	0.2	0.021	0.000
1:45:59 PM	0.2	0.019	0.000
1:46:59 PM	0.2	0.019	0.000
1:47:59 PM	0.2	0.018	0.000
1:48:59 PM	0.2	0.026	0.000
1:49:59 PM	0.2	0.030	0.000
1:50:59 PM	0.2	0.027	0.000
1:51:59 PM	0.2	0.023	0.000
1:52:59 PM	0.2	0.019	0.000
1:53:59 PM	0.2	0.018	0.000
1:54:59 PM	0.2	0.017	0.000
1:55:59 PM	0.2	0.017	0.000
1:56:59 PM	0.2	0.017	0.000
1:57:59 PM	0.2	0.017	0.000
1:58:59 PM	0.2	0.017	0.000
1:59:59 PM	0.2	0.018	0.000
2:00:59 PM	0.2	0.018	0.000
2:01:59 PM	0.2	0.018	0.000
2:02:59 PM	0.2	0.017	0.000
2:03:59 PM	0.2	0.017	0.000
2:04:59 PM	0.2	0.017	0.000
2:05:59 PM	0.2	0.018	0.000
2:06:59 PM	0.2	0.017	0.000
2:07:59 PM	0.2	0.017	0.000
2:08:59 PM	0.2	0.019	0.000
2:09:59 PM	0.2	0.021	0.000
2:10:59 PM	0.2	0.018	0.000
2:11:59 PM	0.2	0.018	0.000
2:12:59 PM	0.2	0.017	0.000

LIRR Group D Substations

Bayside Substation

Downwind

October 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
2:13:59 PM	0.16	0.017	0
2:14:59 PM	0.164	0.018	0
2:15:59 PM	0.161	0.018	0
2:16:59 PM	0.163	0.018	0
2:17:59 PM	0.171	0.019	0
2:18:59 PM	0.161	0.019	0
2:19:59 PM	0.167	0.017	0
2:20:59 PM	0.166	0.016	0
2:21:59 PM	0.16	0.018	0
2:22:59 PM	0.16	0.02	0
2:23:59 PM	0.159	0.019	0
2:24:59 PM	0.164	0.02	0
2:25:59 PM	0.16	0.02	0
2:26:59 PM	0.162	0.022	0
2:27:59 PM	0.156	0.019	0
2:28:59 PM	0.162	0.019	0
2:29:59 PM	0.162	0.02	0
2:30:59 PM	0.156	0.019	0
2:31:59 PM	0.161	0.019	0
2:32:59 PM	0.159	0.017	0
2:33:59 PM	0.16	0.018	0
2:34:59 PM	0.158	0.017	0
2:35:59 PM	0.165	0.016	0
2:36:59 PM	0.16	0.017	0
2:37:59 PM	0.158	0.016	0
2:38:59 PM	0.154	0.016	0
2:39:59 PM	0.158	0.017	0
2:40:59 PM	0.157	0.016	0
2:41:59 PM	0.154	0.018	0
2:42:59 PM	0.154	0.017	0
2:43:59 PM	0.158	0.017	0
2:44:59 PM	0.152	0.017	0
2:45:59 PM	0.159	0.017	0

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain	X	Overcast		Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50		50-70	X	70-85		>85	

Project No.:		Winds From NW ~10 mph	Date:	10/16/20
Project Name:	LIRR Group D Substation Remediation-Bayside Site-V00388-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. Aarco continued to excavate area #2 utilizing the guzzler truck to a depth of approximately two (2) foot bgs. Aarco stockpiled all excavated soils on plastic within area #3. Preferred did not conduct CAMP monitoring or documentation monitoring due to rainfall occurring though out the day. Aarco sends one load of soil to Clean Earth Carteret for disposal. Preferred field screened the excavation for total volatile organic compounds, mercury.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/ m ³)	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/m ³)
UP Wind	No Camp Due to Rain					
Down Wind						
Work Zone						

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- We will be finish excavating area #2.



Continuing to excavate soils from area #2.



Loading out soils for transport and disposal at Clean Earth.



Dumping soils excavated from area #2 on to stockpile.



Securing the stockpile at the end of the day.

Monitoring Locations

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50		50-70	X	70-85		>85	

Project No.:		Winds From SE ~ 10 mph	Date:	10/19/20
Project Name:	LIRR Group D Substation Remediation-Bayside Site-V00388-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. Aarco continues to excavate area #2 utilizing the guzzler truck. All excavated soils are stockpiled within area #3 and covered at the end of the day. Aarco delivers two loads of sand for backfilling area #1 and #2. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site and two high-risk workers were sampled for documentation sampling. Preferred encountered an equipment error with the PID's within the downwind and work zone camp station that was rectified by 1045 am that resulted in the loss of PID data for the first 45 minutes of work. Working with pine to rectify this issue.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/ m ³)	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/m ³)
UP Wind	0.1	0.021	0.000	0.1	0.030	0.000
Down Wind	0.1	0.012	0.000	0.1	0.012	0.000
Work Zone	0.2	0.011	0.000	0.2	0.016	0.000

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- We will continue with backfilling and compacting area #1 and #2.



Continue excavating from area #2.



Starting to backfill area #1.

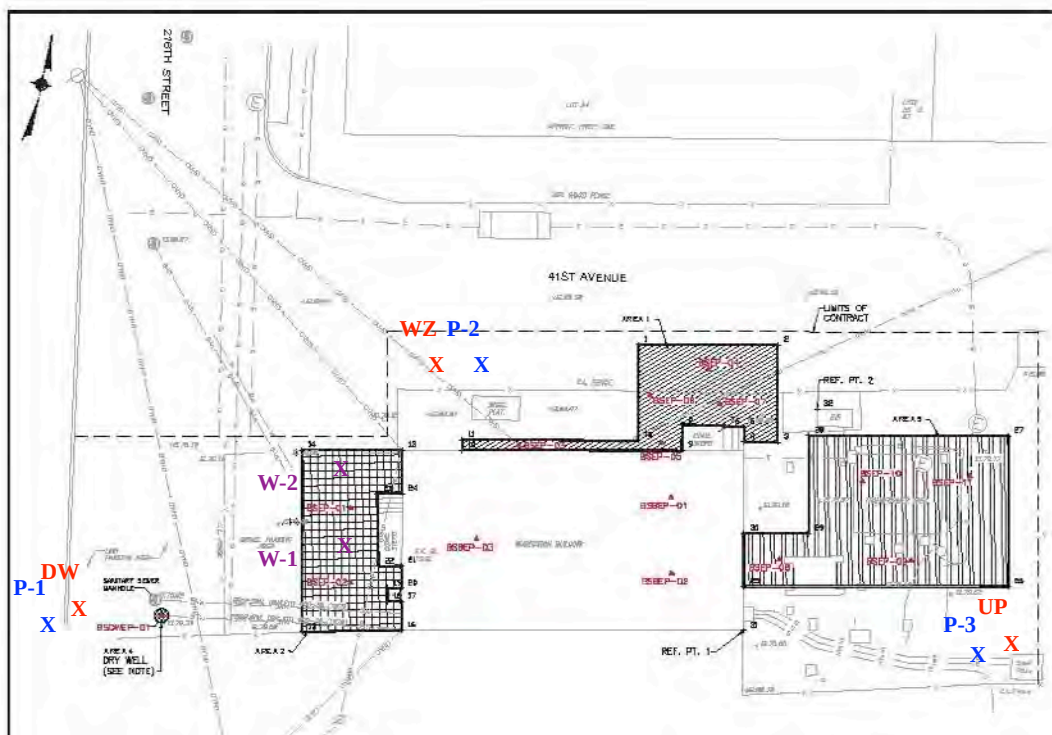


Dumping soils excavated from area #2 within stockpile area.



Backfilling area #2.

Monitoring Locations



LIRR Group D Substations

Bayside Substation

Upwind

October 19, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:22:00 AM		0.0	0.000
10:23:00 AM		0.029	0.000
10:24:00 AM		0.030	0.000
10:25:00 AM		0.031	0.000
10:26:00 AM		0.030	0.000
10:27:00 AM		0.029	0.000
10:28:00 AM		0.030	0.000
10:29:00 AM		0.038	0.000
10:30:00 AM		0.030	0.000
10:31:00 AM		0.031	0.000
10:32:00 AM		0.032	0.000
10:33:00 AM		0.030	0.000
10:34:00 AM		0.029	0.000
10:35:00 AM		0.030	0.000
10:36:00 AM		0.028	0.000
10:37:00 AM		0.028	0.000
10:38:00 AM		0.027	0.000
10:39:00 AM		0.028	0.000
10:40:00 AM		0.027	0.000
10:41:00 AM		0.027	0.000
10:42:00 AM		0.027	0.000
10:43:00 AM		0.030	0.000
10:44:00 AM		0.026	0.000
10:45:00 AM		0.026	0.000
10:46:00 AM		0.026	0.000
10:47:00 AM		0.024	0.000
10:48:00 AM		0.026	0.000
10:49:00 AM		0.027	0.000
10:50:00 AM		0.026	0.000
10:51:00 AM		0.025	0.000
10:52:00 AM		0.025	0.000
10:53:00 AM		0.024	0.000
10:54:00 AM		0.024	0.000
10:55:00 AM		0.025	0.000
10:56:00 AM		0.024	0.000
10:57:00 AM		0.024	0.000
10:58:00 AM		0.024	0.000
10:59:00 AM		0.024	0.000
11:00:00 AM		0.024	0.000
11:01:00 AM		0.023	0.000
11:02:00 AM		0.023	0.000
11:03:00 AM		0.023	0.000
11:04:00 AM		0.021	0.000
11:05:00 AM		0.020	0.000
11:06:00 AM		0.021	0.000
11:07:00 AM		0.021	0.000
11:08:00 AM		0.022	0.000
11:09:00 AM		0.022	0.000
11:10:00 AM		0.021	0.000
11:11:00 AM		0.020	0.000
11:12:00 AM		0.020	0.000
11:13:00 AM		0.019	0.000

LIRR Group D Substations

Bayside Substation

Upwind

October 19, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:14:00 AM		0.019	0.000
11:15:00 AM		0.020	0.000
11:16:00 AM		0.019	0.000
11:17:00 AM		0.020	0.000
11:18:00 AM		0.020	0.000
11:19:00 AM		0.022	0.000
11:20:00 AM		0.021	0.000
11:21:00 AM		0.020	0.000
11:22:00 AM		0.020	0.000
11:23:00 AM		0.019	0.000
11:24:00 AM		0.020	0.000
11:25:00 AM		0.020	0.000
11:26:00 AM		0.019	0.000
11:27:00 AM		0.019	0.000
11:30:00 AM	0.1		0.000
11:31:00 AM	0.1	0.023	0.000
11:32:00 AM	0.1	0.019	0.000
11:33:00 AM	0.1	0.020	0.000
11:34:00 AM	0.1	0.019	0.000
11:35:00 AM	0.1	0.019	0.000
11:36:00 AM	0.1	0.019	0.000
11:37:00 AM	0.1	0.019	0.000
11:38:00 AM	0.1	0.018	0.000
11:39:00 AM	0.1	0.019	0.000
11:40:00 AM	0.1	0.019	0.000
11:41:00 AM	0.1	0.018	0.000
11:42:00 AM	0.1	0.019	0.000
11:43:00 AM	0.1	0.019	0.000
11:44:00 AM	0.1	0.020	0.000
11:45:00 AM	0.1	0.021	0.000
11:46:00 AM	0.1	0.021	0.000
11:47:00 AM	0.1	0.020	0.000
11:48:00 AM	0.1	0.021	0.000
11:49:00 AM	0.1	0.021	0.000
11:50:00 AM	0.1	0.019	0.000
11:51:00 AM	0.1	0.020	0.000
11:52:00 AM	0.1	0.020	0.000
11:53:00 AM	0.1	0.019	0.000
11:54:00 AM	0.1	0.019	0.000
11:55:00 AM	0.1	0.018	0.000
11:56:00 AM	0.1	0.019	0.000
11:57:00 AM	0.1	0.019	0.000
11:58:00 AM	0.1	0.019	0.000
11:59:00 AM	0.1	0.021	0.000
12:00:00 PM	0.1	0.019	0.000
12:01:00 PM	0.1	0.018	0.000
12:02:00 PM	0.1	0.018	0.000
12:03:00 PM	0.1	0.018	0.000
12:04:00 PM	0.1	0.019	0.000
12:05:00 PM	0.1	0.018	0.000
12:06:00 PM	0.1	0.017	0.000
12:07:00 PM	0.1	0.017	0.000
12:08:00 PM	0.1	0.018	0.000

LIRR Group D Substations

Bayside Substation

Upwind

October 19, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:09:00 PM	0.1	0.020	0.000
12:10:00 PM	0.1	0.022	0.000
12:11:00 PM	0.1	0.023	0.000
12:12:00 PM	0.1	0.021	0.000
12:13:00 PM	0.1	0.021	0.000
12:14:00 PM	0.1	0.019	0.000
12:15:00 PM	0.1	0.018	0.000
12:16:00 PM	0.1	0.019	0.000
12:17:00 PM	0.1	0.018	0.000
12:18:00 PM	0.1	0.018	0.000
12:19:00 PM	0.1	0.019	0.000
12:20:00 PM	0.1	0.025	0.000
12:21:00 PM	0.1	0.020	0.000
12:22:00 PM	0.1	0.018	0.000
12:23:00 PM	0.1	0.021	0.000
12:24:00 PM	0.1	0.021	0.000
12:25:00 PM	0.1	0.020	0.000
12:26:00 PM	0.1	0.020	0.000
12:27:00 PM	0.1	0.019	0.000
12:28:00 PM	0.1	0.019	0.000
12:29:00 PM	0.1	0.022	0.000
12:30:00 PM	0.1	0.023	0.000
12:31:00 PM	0.1	0.020	0.000
12:32:00 PM	0.1	0.019	0.000
12:33:00 PM	0.1	0.019	0.000
12:34:00 PM	0.1	0.020	0.000
12:35:00 PM	0.1	0.020	0.000
12:36:00 PM	0.1	0.019	0.000
12:37:00 PM	0.1	0.018	0.000
12:38:00 PM	0.1	0.018	0.000
12:39:00 PM	0.1	0.019	0.000
12:40:00 PM	0.1	0.018	0.000
12:41:00 PM	0.1	0.020	0.000
12:42:00 PM	0.1	0.020	0.000
12:43:00 PM	0.1	0.020	0.000
12:44:00 PM	0.1	0.020	0.000
12:45:00 PM	0.1	0.019	0.000
12:46:00 PM	0.1	0.019	0.000
12:47:00 PM	0.1	0.018	0.000
12:48:00 PM	0.1	0.017	0.000
12:49:00 PM	0.1	0.017	0.000
12:50:00 PM	0.1	0.018	0.000
12:51:00 PM	0.1	0.018	0.000
12:52:00 PM	0.1	0.016	0.000
12:53:00 PM	0.1	0.015	0.000
12:54:00 PM	0.1	0.017	0.000
12:55:00 PM	0.1	0.017	0.000
12:56:00 PM	0.1	0.017	0.000
12:57:00 PM	0.1	0.018	0.000
12:58:00 PM	0.1	0.018	0.000
12:59:00 PM	0.1	0.019	0.000
1:00:00 PM	0.1	0.017	0.000
1:01:00 PM	0.1	0.017	0.000

LIRR Group D Substations

Bayside Substation

Upwind

October 19, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:02:00 PM	0.1	0.016	0.000
1:03:00 PM	0.1	0.017	0.000
1:04:00 PM	0.1	0.018	0.000
1:05:00 PM	0.1	0.018	0.000
1:06:00 PM	0.1	0.017	0.000
1:07:00 PM	0.1	0.019	0.000
1:08:00 PM	0.1	0.021	0.000
1:09:00 PM	0.1	0.019	0.000
1:10:00 PM	0.1	0.019	0.000
1:11:00 PM	0.1	0.020	0.000
1:12:00 PM	0.1	0.017	0.000
1:13:00 PM	0.1	0.017	0.000
1:14:00 PM	0.1	0.017	0.000
1:15:00 PM	0.1	0.017	0.000
1:16:00 PM	0.1	0.017	0.000
1:17:00 PM	0.1	0.016	0.000
1:18:00 PM	0.1	0.016	0.000
1:19:00 PM	0.1	0.020	0.000
1:20:00 PM	0.1	0.019	0.000
1:21:00 PM	0.1	0.017	0.000
1:22:00 PM	0.1	0.017	0.000
1:23:00 PM	0.1	0.018	0.000
1:24:00 PM	0.1	0.018	0.000
1:25:00 PM	0.1	0.017	0.000
1:26:00 PM	0.1	0.017	0.000
1:27:00 PM	0.1	0.017	0.000
1:28:00 PM	0.1	0.020	0.000
1:29:00 PM	0.1	0.020	0.000
1:30:00 PM	0.1	0.018	0.000
1:31:00 PM	0.1	0.020	0.000
1:32:00 PM	0.1	0.018	0.000
1:33:00 PM	0.1	0.019	0.000
1:34:00 PM	0.1	0.017	0.000
1:35:00 PM	0.1	0.017	0.000
1:36:00 PM	0.1	0.016	0.000
1:37:00 PM	0.1	0.016	0.000
1:38:00 PM	0.1	0.019	0.000
1:39:00 PM	0.1	0.019	0.000
1:40:00 PM	0.1	0.019	0.000
1:41:00 PM	0.1	0.019	0.000
1:42:00 PM	0.1	0.019	0.000
1:43:00 PM	0.1	0.020	0.000
1:44:00 PM	0.1	0.018	0.000
1:45:00 PM	0.1	0.017	0.000
1:46:00 PM	0.1	0.017	0.000
1:47:00 PM	0.1	0.018	0.000
1:48:00 PM	0.1	0.022	0.000
1:49:00 PM	0.1	0.022	0.000
1:50:00 PM	0.1	0.024	0.000
1:51:00 PM	0.1	0.024	0.000
1:52:00 PM	0.1	0.023	0.000
1:53:00 PM	0.1	0.017	0.000
1:54:00 PM	0.1	0.016	0.000

LIRR Group D Substations
Bayside Substation
Upwind
October 19, 2020

[illegible]

LIRR Group D Substations

Bayside Substation

Work Zone

October 19, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
9:39:00 AM		0.020	0.000
9:40:00 AM		0.018	0.000
9:41:00 AM		0.018	0.000
9:42:00 AM		0.018	0.000
9:43:00 AM		0.018	0.000
9:44:00 AM		0.018	0.000
9:45:00 AM		0.017	0.000
9:46:00 AM		0.016	0.000
9:47:00 AM		0.016	0.000
9:48:00 AM		0.016	0.000
9:49:00 AM		0.016	0.000
9:50:00 AM		0.015	0.000
9:51:00 AM		0.016	0.000
9:52:00 AM		0.015	0.000
9:53:00 AM		0.016	0.000
9:54:00 AM		0.016	0.000
9:55:00 AM		0.015	0.000
9:56:00 AM		0.014	0.000
9:57:00 AM		0.014	0.000
9:58:00 AM		0.014	0.000
9:59:00 AM		0.014	0.000
10:00:00 AM		0.013	0.000
10:01:00 AM		0.014	0.000
10:02:00 AM		0.014	0.000
10:03:00 AM		0.014	0.000
10:04:00 AM		0.014	0.000
10:05:00 AM		0.013	0.000
10:06:00 AM		0.013	0.000
10:07:00 AM		0.013	0.000
10:08:00 AM		0.012	0.000
10:09:00 AM		0.013	0.000
10:10:00 AM		0.013	0.000
10:11:00 AM		0.012	0.000
10:12:00 AM		0.012	0.000
10:13:00 AM		0.012	0.000
10:14:00 AM		0.012	0.000
10:15:00 AM		0.012	0.000
10:16:00 AM		0.012	0.000
10:17:00 AM		0.012	0.000
10:18:00 AM		0.012	0.000
10:19:00 AM		0.012	0.000
10:20:00 AM		0.012	0.000
10:21:00 AM		0.012	0.000
10:22:00 AM		0.012	0.000
10:23:00 AM		0.011	0.000
10:24:00 AM		0.012	0.000
10:25:00 AM		0.011	0.000
10:26:00 AM		0.012	0.000
10:27:00 AM		0.012	0.000
10:28:00 AM		0.012	0.000
10:29:00 AM		0.012	0.000
10:30:00 AM		0.012	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

October 19, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:31:00 AM		0.012	0.000
10:32:00 AM		0.012	0.000
10:33:00 AM		0.017	0.000
10:34:00 AM		0.022	0.000
10:35:00 AM		0.013	0.000
10:36:00 AM		0.013	0.000
10:37:00 AM		0.012	0.000
10:38:00 AM		0.011	0.000
10:39:00 AM		0.012	0.000
10:40:00 AM		0.013	0.000
10:41:00 AM		0.019	0.000
10:42:00 AM		0.012	0.000
10:43:00 AM		0.011	0.000
10:44:00 AM		0.011	0.000
10:45:00 AM		0.011	0.000
10:46:00 AM		0.011	0.000
10:47:00 AM		0.010	0.000
10:48:00 AM		0.011	0.000
10:49:00 AM		0.010	0.000
10:50:00 AM		0.011	0.000
10:51:00 AM		0.010	0.000
10:52:00 AM		0.011	0.000
10:53:00 AM		0.010	0.000
10:54:00 AM		0.010	0.000
10:55:00 AM		0.010	0.000
10:56:00 AM		0.010	0.000
10:57:00 AM		0.010	0.000
10:58:00 AM		0.010	0.000
10:59:00 AM		0.010	0.000
11:00:00 AM		0.009	0.000
11:01:00 AM		0.010	0.000
11:02:00 AM		0.009	0.000
11:03:00 AM		0.009	0.000
11:04:00 AM		0.009	0.000
11:05:00 AM		0.008	0.000
11:06:00 AM		0.008	0.000
11:07:00 AM		0.009	0.000
11:08:00 AM		0.008	0.000
11:09:00 AM		0.009	0.000
11:10:00 AM		0.008	0.000
11:11:00 AM		0.009	0.000
11:12:00 AM		0.010	0.000
11:13:00 AM		0.008	0.000
11:14:00 AM		0.008	0.000
11:15:00 AM		0.008	0.000
11:16:00 AM		0.008	0.000
11:17:00 AM		0.009	0.000
11:18:00 AM		0.009	0.000
11:19:00 AM		0.009	0.000
11:20:00 AM		0.009	0.000
11:21:00 AM		0.009	0.000
11:22:00 AM		0.009	0.000
11:23:00 AM		0.009	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

October 19, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:24:00 AM		0.008	0.000
11:25:00 AM		0.008	0.000
11:26:00 AM		0.008	0.000
11:27:00 AM		0.009	0.000
11:29:00 AM	0.2		0.000
11:30:00 AM	0.2	0.008	0.000
11:31:00 AM	0.2	0.009	0.000
11:32:00 AM	0.2	0.008	0.000
11:33:00 AM	0.2	0.032	0.000
11:34:00 AM	0.2	0.010	0.000
11:35:00 AM	0.2	0.008	0.000
11:36:00 AM	0.2	0.008	0.000
11:37:00 AM	0.2	0.008	0.000
11:38:00 AM	0.2	0.008	0.000
11:39:00 AM	0.2	0.008	0.000
11:40:00 AM	0.2	0.008	0.000
11:41:00 AM	0.2	0.008	0.000
11:42:00 AM	0.3	0.008	0.000
11:43:00 AM	0.3	0.008	0.000
11:44:00 AM	0.3	0.008	0.000
11:45:00 AM	0.3	0.009	0.000
11:46:00 AM	0.2	0.009	0.000
11:47:00 AM	0.2	0.008	0.000
11:48:00 AM	0.2	0.009	0.000
11:49:00 AM	0.2	0.010	0.000
11:50:00 AM	0.2	0.008	0.000
11:51:00 AM	0.2	0.009	0.000
11:52:00 AM	0.2	0.009	0.000
11:53:00 AM	0.2	0.010	0.000
11:54:00 AM	0.2	0.015	0.000
11:55:00 AM	0.2	0.012	0.000
11:56:00 AM	0.2	0.010	0.000
11:57:00 AM	0.2	0.009	0.000
11:58:00 AM	0.2	0.009	0.000
11:59:00 AM	0.2	0.008	0.000
12:00:00 PM	0.2	0.009	0.000
12:01:00 PM	0.2	0.009	0.000
12:02:00 PM	0.2	0.008	0.000
12:03:00 PM	0.2	0.007	0.000
12:04:00 PM	0.2	0.008	0.000
12:05:00 PM	0.2	0.009	0.000
12:06:00 PM	0.2	0.009	0.000
12:07:00 PM	0.2	0.009	0.000
12:08:00 PM	0.2	0.008	0.000
12:09:00 PM	0.2	0.009	0.000
12:10:00 PM	0.2	0.010	0.000
12:11:00 PM	0.2	0.011	0.000
12:12:00 PM	0.2	0.011	0.000
12:13:00 PM	0.2	0.009	0.000
12:14:00 PM	0.2	0.010	0.000
12:15:00 PM	0.2	0.009	0.000
12:16:00 PM	0.2	0.008	0.000
12:17:00 PM	0.2	0.008	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

October 19, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:18:00 PM	0.2	0.008	0.000
12:19:00 PM	0.2	0.008	0.000
12:20:00 PM	0.2	0.008	0.000
12:21:00 PM	0.2	0.009	0.000
12:22:00 PM	0.2	0.008	0.000
12:23:00 PM	0.2	0.008	0.000
12:24:00 PM	0.2	0.010	0.000
12:25:00 PM	0.2	0.009	0.000
12:26:00 PM	0.2	0.009	0.000
12:27:00 PM	0.2	0.010	0.000
12:28:00 PM	0.2	0.008	0.000
12:29:00 PM	0.2	0.008	0.000
12:30:00 PM	0.2	0.009	0.000
12:31:00 PM	0.2	0.010	0.000
12:32:00 PM	0.2	0.009	0.000
12:33:00 PM	0.2	0.008	0.000
12:34:00 PM	0.2	0.012	0.000
12:35:00 PM	0.2	0.011	0.000
12:36:00 PM	0.2	0.008	0.000
12:37:00 PM	0.2	0.008	0.000
12:38:00 PM	0.2	0.007	0.000
12:39:00 PM	0.2	0.008	0.000
12:40:00 PM	0.2	0.008	0.000
12:41:00 PM	0.2	0.008	0.000
12:42:00 PM	0.2	0.008	0.000
12:43:00 PM	0.2	0.008	0.000
12:44:00 PM	0.2	0.008	0.000
12:45:00 PM	0.2	0.008	0.000
12:46:00 PM	0.2	0.008	0.000
12:47:00 PM	0.2	0.007	0.000
12:48:00 PM	0.2	0.007	0.000
12:49:00 PM	0.2	0.007	0.000
12:50:00 PM	0.2	0.006	0.000
12:51:00 PM	0.2	0.007	0.000
12:52:00 PM	0.2	0.007	0.000
12:53:00 PM	0.2	0.006	0.000
12:54:00 PM	0.2	0.006	0.000
12:55:00 PM	0.2	0.006	0.000
12:56:00 PM	0.2	0.006	0.000
12:57:00 PM	0.2	0.006	0.000
12:58:00 PM	0.2	0.007	0.000
12:59:00 PM	0.2	0.006	0.000
1:00:00 PM	0.2	0.006	0.000
1:01:00 PM	0.2	0.006	0.000
1:02:00 PM	0.2	0.006	0.000
1:03:00 PM	0.2	0.006	0.000
1:04:00 PM	0.2	0.006	0.000
1:05:00 PM	0.2	0.006	0.000
1:06:00 PM	0.2	0.006	0.000
1:07:00 PM	0.2	0.006	0.000
1:08:00 PM	0.2	0.006	0.000
1:09:00 PM	0.2	0.007	0.000
1:10:00 PM	0.2	0.007	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

October 19, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:11:00 PM	0.2	0.007	0.000
1:12:00 PM	0.2	0.006	0.000
1:13:00 PM	0.2	0.006	0.000
1:14:00 PM	0.2	0.006	0.000
1:15:00 PM	0.2	0.006	0.000
1:16:00 PM	0.2	0.006	0.000
1:17:00 PM	0.2	0.006	0.000
1:18:00 PM	0.2	0.006	0.000
1:19:00 PM	0.2	0.007	0.000
1:20:00 PM	0.2	0.008	0.000
1:21:00 PM	0.2	0.006	0.000
1:22:00 PM	0.2	0.007	0.000
1:23:00 PM	0.2	0.009	0.000
1:24:00 PM	0.2	0.011	0.000
1:25:00 PM	0.2	0.009	0.000
1:26:00 PM	0.2	0.009	0.000
1:27:00 PM	0.2	0.011	0.000
1:28:00 PM	0.2	0.009	0.000
1:29:00 PM	0.2	0.008	0.000
1:30:00 PM	0.2	0.008	0.000
1:31:00 PM	0.2	0.010	0.000
1:32:00 PM	0.2	0.010	0.000
1:33:00 PM	0.2	0.010	0.000
1:34:00 PM	0.2	0.012	0.000
1:35:00 PM	0.2	0.012	0.000
1:36:00 PM	0.2	0.037	0.000
1:37:00 PM	0.2	0.011	0.000
1:38:00 PM	0.2	0.007	0.000
1:39:00 PM	0.2	0.007	0.000
1:40:00 PM	0.2	0.008	0.000
1:41:00 PM	0.2	0.007	0.000
1:42:00 PM	0.2	0.009	0.000
1:43:00 PM	0.2	0.012	0.000
1:44:00 PM	0.2	0.014	0.000
1:45:00 PM	0.2	0.009	0.000
1:46:00 PM	0.2	0.007	0.000
1:47:00 PM	0.2	0.007	0.000
1:48:00 PM	0.2	0.007	0.000
1:49:00 PM	0.2	0.008	0.000
1:50:00 PM	0.2	0.008	0.000
1:51:00 PM	0.2	0.008	0.000
1:52:00 PM	0.2	0.007	0.000
1:53:00 PM	0.2	0.007	0.000
1:54:00 PM	0.2	0.006	0.000
1:55:00 PM	0.2	0.006	0.000
1:56:00 PM	0.2	0.007	0.000
1:57:00 PM	0.2	0.007	0.000
1:58:00 PM	0.2	0.007	0.000
1:59:00 PM	0.2	0.007	0.000
2:00:00 PM	0.2	0.007	0.000
2:01:00 PM	0.2	0.007	0.000
2:02:00 PM	0.2	0.007	0.000
2:03:00 PM	0.2	0.006	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

October 19, 2020

[illegible]

LIRR Group D Substations

Bayside Substation

Downwind

October 19, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
9:35:00 AM	0.0	0.0	0.000
9:36:00 AM	0.0	0.018	0.000
9:37:00 AM	0.0	0.018	0.000
9:38:00 AM	0.0	0.018	0.000
9:39:00 AM	0.0	0.020	0.000
9:40:00 AM	0.0	0.021	0.000
9:41:00 AM	0.0	0.020	0.000
9:42:00 AM	0.0	0.018	0.000
9:43:00 AM	0.0	0.018	0.000
9:44:00 AM	0.0	0.018	0.000
9:45:00 AM	0.0	0.018	0.000
9:46:00 AM	0.0	0.017	0.000
9:47:00 AM	0.0	0.017	0.000
9:48:00 AM	0.0	0.017	0.000
9:49:00 AM	0.0	0.017	0.000
9:50:00 AM	0.0	0.016	0.000
9:51:00 AM	0.0	0.016	0.000
9:52:00 AM	0.0	0.016	0.000
9:53:00 AM	0.0	0.016	0.000
9:54:00 AM	0.0	0.016	0.000
9:55:00 AM	0.0	0.017	0.000
9:56:00 AM	0.0	0.016	0.000
9:57:00 AM	0.0	0.015	0.000
9:58:00 AM	0.0	0.015	0.000
9:59:00 AM	0.0	0.015	0.000
10:00:00 AM	0.0	0.015	0.000
10:01:00 AM	0.0	0.015	0.000
10:02:00 AM	0.0	0.015	0.000
10:03:00 AM	0.0	0.015	0.000
10:04:00 AM	0.0	0.015	0.000
10:05:00 AM	0.0	0.015	0.000
10:06:00 AM	0.0	0.015	0.000
10:07:00 AM	0.0	0.015	0.000
10:08:00 AM	0.0	0.015	0.000
10:09:00 AM	0.0	0.015	0.000
10:10:00 AM	0.0	0.015	0.000
10:11:00 AM	0.0	0.015	0.000
10:12:00 AM	0.0	0.015	0.000
10:13:00 AM	0.0	0.014	0.000
10:14:00 AM	0.0	0.015	0.000
10:15:00 AM	0.0	0.014	0.000
10:16:00 AM	0.0	0.014	0.000
10:17:00 AM	0.0	0.014	0.000
10:18:00 AM	0.0	0.014	0.000
10:19:00 AM	0.0	0.014	0.000
10:20:00 AM	0.0	0.014	0.000
10:21:00 AM	0.0	0.014	0.000
10:22:00 AM	0.0	0.013	0.000
10:23:00 AM	0.0	0.014	0.000
10:24:00 AM	0.0	0.014	0.000
10:25:00 AM	0.0	0.014	0.000
10:26:00 AM	0.0	0.014	0.000

LIRR Group D Substations

Bayside Substation

Downwind

October 19, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:27:00 AM	0.0	0.014	0.000
10:28:00 AM	0.0	0.014	0.000
10:29:00 AM	0.0	0.016	0.000
10:30:00 AM	0.0	0.019	0.000
10:31:00 AM	0.0	0.017	0.000
10:32:00 AM	0.0	0.019	0.000
10:33:00 AM	0.0	0.016	0.000
10:34:00 AM	0.0	0.014	0.000
10:35:00 AM	0.0	0.014	0.000
10:36:00 AM	0.0	0.014	0.000
10:37:00 AM	0.0	0.014	0.000
10:38:00 AM	0.0	0.013	0.000
10:39:00 AM	0.0	0.013	0.000
10:40:00 AM	0.0	0.014	0.000
10:41:00 AM	0.0	0.013	0.000
10:42:00 AM	0.0	0.013	0.000
10:43:00 AM	0.0	0.013	0.000
10:44:00 AM	0.0	0.013	0.000
10:45:00 AM	0.0	0.013	0.000
10:46:00 AM	0.0	0.013	0.000
10:47:00 AM	0.0	0.013	0.000
10:48:00 AM	0.0	0.013	0.000
10:49:00 AM	0.0	0.013	0.000
10:50:00 AM	0.0	0.013	0.000
10:51:00 AM	0.0	0.013	0.000
10:52:00 AM	0.0	0.013	0.000
10:53:00 AM	0.0	0.012	0.000
10:54:00 AM	0.0	0.013	0.000
10:55:00 AM	0.0	0.013	0.000
10:56:00 AM	0.1	0.013	0.000
10:57:00 AM	0.1	0.013	0.000
10:58:00 AM	0.0	0.012	0.000
10:59:00 AM	0.1	0.013	0.000
11:00:00 AM	0.0	0.012	0.000
11:01:00 AM	0.0	0.012	0.000
11:02:00 AM	0.1	0.014	0.000
11:03:00 AM	0.0	0.012	0.000
11:04:00 AM	0.1	0.011	0.000
11:05:00 AM	0.1	0.011	0.000
11:06:00 AM	0.1	0.012	0.000
11:07:00 AM	0.1	0.012	0.000
11:08:00 AM	0.1	0.012	0.000
11:09:00 AM	0.1	0.012	0.000
11:10:00 AM	0.1	0.012	0.000
11:11:00 AM	0.1	0.012	0.000
11:12:00 AM	0.1	0.011	0.000
11:13:00 AM	0.1	0.011	0.000
11:14:00 AM	0.1	0.011	0.000
11:15:00 AM	0.1	0.011	0.000
11:16:00 AM	0.1	0.011	0.000
11:17:00 AM	0.1	0.012	0.000
11:18:00 AM	0.1	0.012	0.000
11:19:00 AM	0.1	0.012	0.000

LIRR Group D Substations

Bayside Substation

Downwind

October 19, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:20:00 AM	0.1	0.012	0.000
11:21:00 AM	0.1	0.012	0.000
11:22:00 AM	0.1	0.012	0.000
11:23:00 AM	0.1	0.012	0.000
11:24:00 AM	0.1	0.012	0.000
11:25:00 AM	0.1	0.011	0.000
11:26:00 AM	0.1	0.012	0.000
11:27:00 AM	0.1	0.011	0.000
11:28:00 AM	0.1	0.011	0.000
11:29:00 AM	0.1	0.011	0.000
11:30:00 AM	0.1	0.012	0.000
11:31:00 AM	0.1	0.012	0.000
11:32:00 AM	0.1	0.011	0.000
11:33:00 AM	0.1	0.010	0.000
11:34:00 AM	0.1	0.011	0.000
11:35:00 AM	0.1	0.011	0.000
11:36:00 AM	0.1	0.011	0.000
11:37:00 AM	0.1	0.011	0.000
11:38:00 AM	0.1	0.011	0.000
11:39:00 AM	0.1	0.011	0.000
11:40:00 AM	0.1	0.012	0.000
11:41:00 AM	0.1	0.011	0.000
11:42:00 AM	0.2	0.011	0.000
11:43:00 AM	0.1	0.011	0.000
11:44:00 AM	0.1	0.011	0.000
11:45:00 AM	0.1	0.012	0.000
11:46:00 AM	0.1	0.012	0.000
11:47:00 AM	0.1	0.012	0.000
11:48:00 AM	0.1	0.012	0.000
11:49:00 AM	0.1	0.013	0.000
11:50:00 AM	0.1	0.012	0.000
11:51:00 AM	0.1	0.013	0.000
11:52:00 AM	0.1	0.012	0.000
11:53:00 AM	0.1	0.011	0.000
11:54:00 AM	0.1	0.011	0.000
11:55:00 AM	0.1	0.011	0.000
11:56:00 AM	0.1	0.011	0.000
11:57:00 AM	0.1	0.011	0.000
11:58:00 AM	0.1	0.011	0.000
11:59:00 AM	0.1	0.012	0.000
12:00:00 PM	0.1	0.011	0.000
12:01:00 PM	0.1	0.011	0.000
12:02:00 PM	0.1	0.010	0.000
12:03:00 PM	0.1	0.011	0.000
12:04:00 PM	0.1	0.011	0.000
12:05:00 PM	0.1	0.011	0.000
12:06:00 PM	0.1	0.011	0.000
12:07:00 PM	0.1	0.011	0.000
12:08:00 PM	0.1	0.011	0.000
12:09:00 PM	0.1	0.011	0.000
12:10:00 PM	0.1	0.012	0.000
12:11:00 PM	0.1	0.012	0.000
12:12:00 PM	0.1	0.012	0.000

LIRR Group D Substations

Bayside Substation

Downwind

October 19, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:13:00 PM	0.1	0.012	0.000
12:14:00 PM	0.1	0.012	0.000
12:15:00 PM	0.1	0.012	0.000
12:16:00 PM	0.1	0.011	0.000
12:17:00 PM	0.1	0.011	0.000
12:18:00 PM	0.1	0.011	0.000
12:19:00 PM	0.1	0.011	0.000
12:20:00 PM	0.1	0.013	0.000
12:21:00 PM	0.1	0.012	0.000
12:22:00 PM	0.1	0.011	0.000
12:23:00 PM	0.1	0.011	0.000
12:24:00 PM	0.1	0.012	0.000
12:25:00 PM	0.1	0.012	0.000
12:26:00 PM	0.1	0.011	0.000
12:27:00 PM	0.1	0.011	0.000
12:28:00 PM	0.1	0.011	0.000
12:29:00 PM	0.1	0.015	0.000
12:30:00 PM	0.1	0.013	0.000
12:31:00 PM	0.1	0.012	0.000
12:32:00 PM	0.1	0.011	0.000
12:33:00 PM	0.1	0.011	0.000
12:34:00 PM	0.1	0.011	0.000
12:35:00 PM	0.1	0.011	0.000
12:36:00 PM	0.1	0.011	0.000
12:37:00 PM	0.1	0.011	0.000
12:38:00 PM	0.1	0.011	0.000
12:39:00 PM	0.1	0.011	0.000
12:40:00 PM	0.1	0.012	0.000
12:41:00 PM	0.1	0.011	0.000
12:42:00 PM	0.1	0.012	0.000
12:43:00 PM	0.1	0.012	0.000
12:44:00 PM	0.1	0.011	0.000
12:45:00 PM	0.1	0.012	0.000
12:46:00 PM	0.1	0.011	0.000
12:47:00 PM	0.1	0.011	0.000
12:48:00 PM	0.1	0.011	0.000
12:49:00 PM	0.1	0.010	0.000
12:50:00 PM	0.1	0.012	0.000
12:51:00 PM	0.1	0.010	0.000
12:52:00 PM	0.1	0.010	0.000
12:53:00 PM	0.1	0.010	0.000
12:54:00 PM	0.1	0.009	0.000
12:55:00 PM	0.1	0.009	0.000
12:56:00 PM	0.1	0.010	0.000
12:57:00 PM	0.1	0.010	0.000
12:58:00 PM	0.1	0.010	0.000
12:59:00 PM	0.1	0.011	0.000
1:00:00 PM	0.1	0.010	0.000
1:01:00 PM	0.1	0.010	0.000
1:02:00 PM	0.1	0.010	0.000
1:03:00 PM	0.1	0.010	0.000
1:04:00 PM	0.1	0.010	0.000
1:05:00 PM	0.1	0.010	0.000

LIRR Group D Substations

Bayside Substation

Downwind

October 19, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:06:00 PM	0.1	0.010	0.000
1:07:00 PM	0.1	0.010	0.000
1:08:00 PM	0.1	0.010	0.000
1:09:00 PM	0.1	0.011	0.000
1:10:00 PM	0.1	0.011	0.000
1:11:00 PM	0.1	0.011	0.000
1:12:00 PM	0.1	0.010	0.000
1:13:00 PM	0.1	0.010	0.000
1:14:00 PM	0.1	0.010	0.000
1:15:00 PM	0.1	0.010	0.000
1:16:00 PM	0.1	0.010	0.000
1:17:00 PM	0.1	0.010	0.000
1:18:00 PM	0.1	0.010	0.000
1:19:00 PM	0.1	0.015	0.000
1:20:00 PM	0.1	0.013	0.000
1:21:00 PM	0.1	0.011	0.000
1:22:00 PM	0.1	0.011	0.000
1:23:00 PM	0.1	0.010	0.000
1:24:00 PM	0.1	0.011	0.000
1:25:00 PM	0.1	0.011	0.000
1:26:00 PM	0.1	0.010	0.000
1:27:00 PM	0.1	0.010	0.000
1:28:00 PM	0.1	0.011	0.000
1:29:00 PM	0.1	0.011	0.000
1:30:00 PM	0.1	0.010	0.000
1:31:00 PM	0.1	0.010	0.000
1:32:00 PM	0.1	0.011	0.000
1:33:00 PM	0.1	0.010	0.000
1:34:00 PM	0.1	0.010	0.000
1:35:00 PM	0.1	0.010	0.000
1:36:00 PM	0.1	0.010	0.000
1:37:00 PM	0.1	0.010	0.000
1:38:00 PM	0.1	0.010	0.000
1:39:00 PM	0.1	0.011	0.000
1:40:00 PM	0.1	0.010	0.000
1:41:00 PM	0.1	0.011	0.000
1:42:00 PM	0.1	0.011	0.000
1:43:00 PM	0.1	0.011	0.000
1:44:00 PM	0.1	0.011	0.000
1:45:00 PM	0.1	0.010	0.000
1:46:00 PM	0.1	0.011	0.000
1:47:00 PM	0.1	0.010	0.000
1:48:00 PM	0.1	0.010	0.000
1:49:00 PM	0.1	0.010	0.000
1:50:00 PM	0.1	0.011	0.000
1:51:00 PM	0.1	0.010	0.000
1:52:00 PM	0.1	0.010	0.000
1:53:00 PM	0.1	0.010	0.000
1:54:00 PM	0.1	0.010	0.000
1:55:00 PM	0.1	0.010	0.000
1:56:00 PM	0.1	0.010	0.000
1:57:00 PM	0.1	0.010	0.000
1:58:00 PM	0.1	0.010	0.000

LIRR Group D Substations

Bayside Substation

Downwind

October 19, 2020

[illegible]

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain	X	Overcast		Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50		50-70	X	70-85		>85	

Project No.:		Winds From SSW ~7 mph	Date:	10/20/20
Project Name:	LIRR Group D Substation Remediation-Bayside Site-V00388-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. Aarco continued to backfill area #1 and #2 with sand. Aarco compacting the backfill in six (6) inch to eight (8) inch lifts. Soil mechanics onsite to conduct compaction testing on all areas being backfilled. All backfill passed compaction test. Preferred did not conduct CAMP monitoring or documentation monitoring due to rainfall occurring throughout the day. Preferred field screened the excavation for total volatile organic compounds, mercury.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/ m ³)	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/m ³)
UP Wind	No Camp Due to Rain					
Down Wind						
Work Zone						

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- Surveyors onsite to survey excavation area #1 and #2 as well as endpoint sample locations.



Backfilling area #2.



Compacting area #1.



Soil Mechanics conducting compaction testing.



Compacting Area #2.

Monitoring Locations

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain	X	Overcast		Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50		50-70	X	70-85		>85	

Project No.:		Winds From S ~12 mph	Date:	10/21/20
Project Name:	LIRR Group D Substation Remediation-Bayside Site-V00388-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. Aarco onsite to remove guzzler truck and backhoe. Surveyor's onsite to survey the excavation area #1 and #2. Surveyors marked endpoint sample locations and elevations. Preferred did not conduct CAMP monitoring or documentation monitoring due to rainfall occurring throughout the day.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/ m ³)	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/m ³)
UP Wind	No Camp Due to Rain					
Down Wind						
Work Zone						

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- Aarco will be onsite Monday October 26, 2020 to start excavation on area #3.



Surveying area #1.



Backfilling and compacting endpoint sample markers.



Surveying area #1.



Surveying area #1.

Monitoring Locations

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain	X	Overcast	X	Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50		50-70	X	70-85		>85	

Project No.:		Winds From NW ~10 mph	Date:	10/27/20
Project Name:	LIRR Group D Substation Remediation-Bayside Site-V00388-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. Aarco is backfilling the excavation areas #1 and #2 to grade with ¾ inch blue stone. Two loads of stone were utilized to backfill the excavated areas #1 and #2 from six (6) inches bgs to grade. All stone was compacted utilizing a gas compactor. Preferred did not conduct CAMP monitoring or documentation monitoring due to rainfall in the morning and no intrusive excavation occurring during the day. Con Edison onsite to preform walkthrough in preparation for de-energizing feeder to substation. Inspection of the same indicated that the feeder was offline.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/ m ³)	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/m ³)
UP Wind	No Camp Due to Rain/Non-Intrusive Work					
Down Wind						
Work Zone						

Exceedances (Since Last Report): None

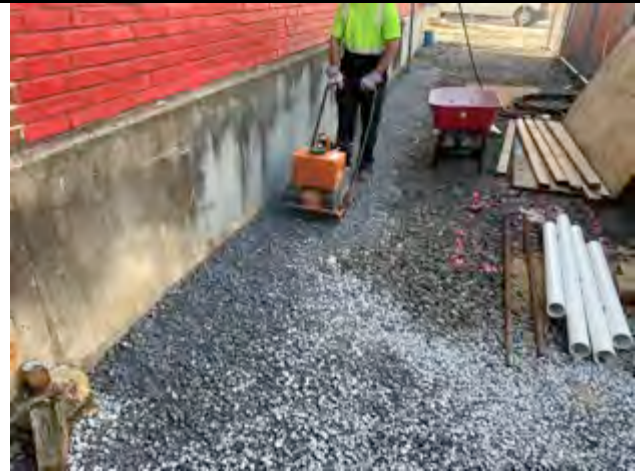
Problems Encountered: None

Planned Activities for the Next Day/ Week:

- Start excavating within area #3.



Backfilling area #1.



Compacting area #1.



Spreading stone in area #2.



Backfill completed in Area #2 .

Monitoring Locations

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50		50-70	X	70-85		>85	

Project No.:		Winds From SW ~8 mph	Date:	11/5/20
Project Name:	LIRR Group D Substation Remediation-Bayside Site-V00388-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. Preferred and Aarco waiting for substations to install grounding for the transformers within area #3 before protective casing can be installed. Aarco installing wooden protection for transformers prior to the start of excavation. Preferred did not conduct CAMP monitoring or documentation monitoring due to no intrusive excavation work occurring during the day.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/ m ³)	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/m ³)
UP Wind	No Camp Due to Non-Intrusive Work					
Down Wind						
Work Zone						

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- Finish installing plywood protections around transformers and begin excavation of area #3.



LIRR Substations grounding wire installed on transformers.



Wrapping junction box in protective material for duration of excavation.

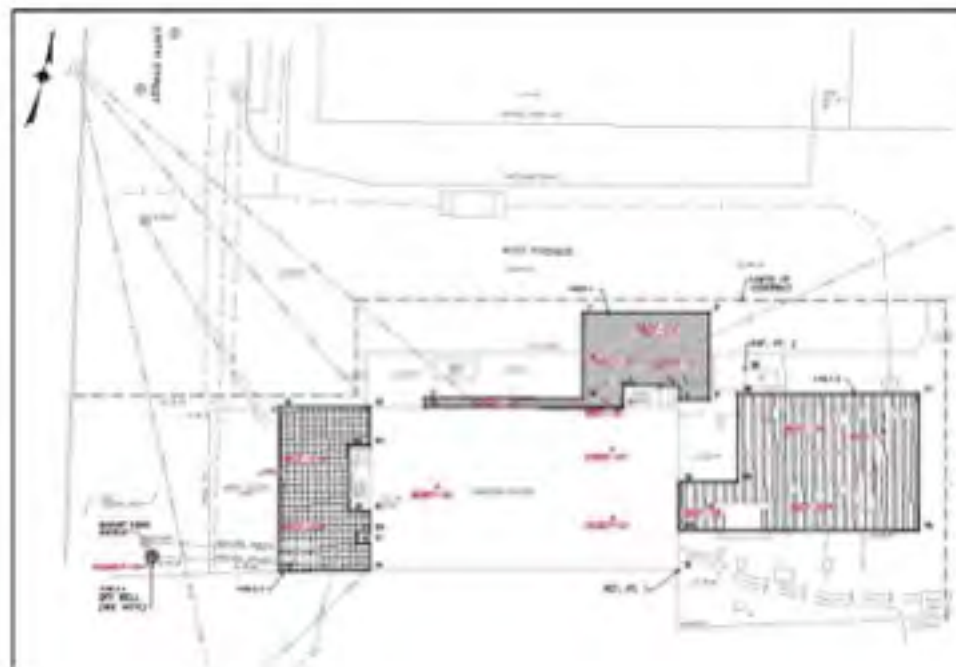


Aarco installing plywood protection around transformer.



Aarco installing plywood protections.

Monitoring Locations



DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50		50-70	X	70-85		>85	

Project No.:		Winds From SW ~ 10 mph	Date:	11/6/20
Project Name:	LIRR Group D Substation Remediation-Bayside Site-V00388-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. Aarco continues to install plywood protections around transformers within area #3. Aarco utilizing soil guzzler truck to begin excavation within the southwestern corner of area #3 to a total depth of four (4) feet bgs. Aarco began utilizing an air knife to loosen soil however excavation work was switched to hand tools due to large amount of dirt thrown up by air knife. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site and two high-risk workers were sampled for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/ m ³)	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/m ³)
UP Wind	0.0	0.031	0.000	0.1	0.051	0.000
Down Wind	0.1	0.063	0.000	0.1	0.119	0.000
Work Zone	0.2	0.042	0.000	0.2	0.107	0.000

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- We will continue excavating area #3.



Protecting transformers.



Utilizing guzzler truck to remove soils from area #3.

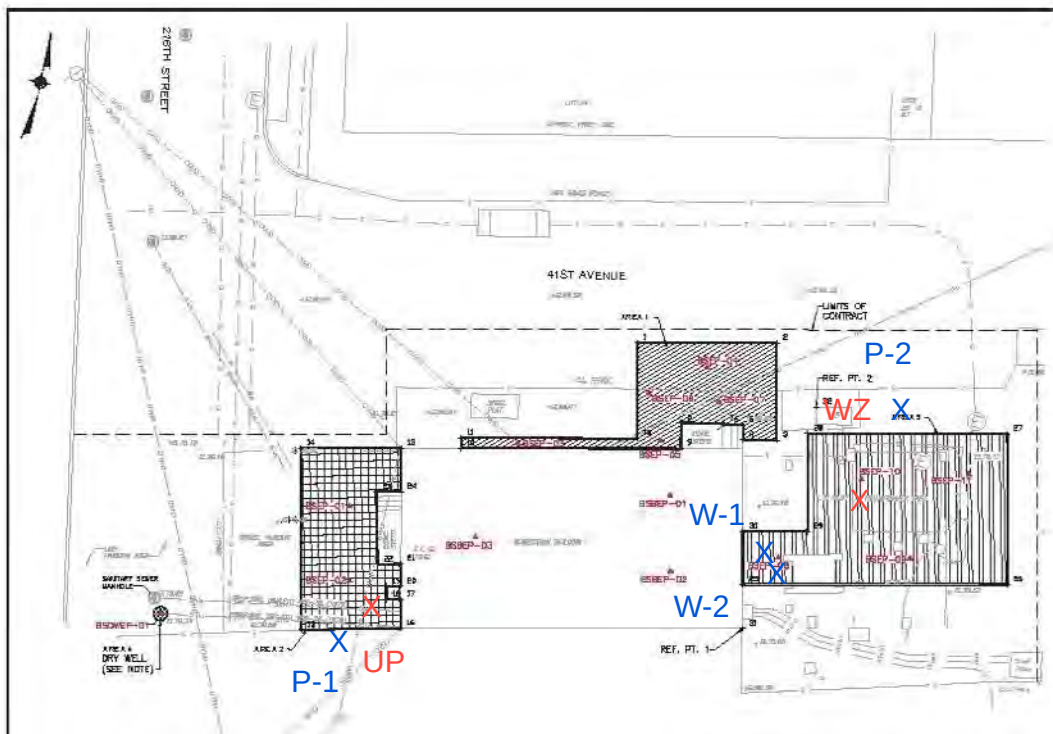


View of work zone monitor.



View of excavation in area #3.

Monitoring Locations



LIRR Group D Substations

Bayside Substation

Upwind

November 6, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:05:00 AM	0.0	0.066	0.000
10:06:00 AM	0.0	0.061	0.000
10:07:00 AM	0.0	0.052	0.000
10:08:00 AM	0.0	0.057	0.000
10:09:00 AM	0.0	0.054	0.000
10:10:00 AM	0.0	0.053	0.000
10:11:00 AM	0.0	0.052	0.000
10:12:00 AM	0.0	0.052	0.000
10:13:00 AM	0.0	0.050	0.000
10:14:00 AM	0.0	0.050	0.000
10:15:00 AM	0.0	0.049	0.000
10:16:00 AM	0.0	0.049	0.000
10:17:00 AM	0.0	0.050	0.000
10:18:00 AM	0.0	0.049	0.000
10:19:00 AM	0.0	0.048	0.000
10:20:00 AM	0.0	0.048	0.000
10:21:00 AM	0.0	0.047	0.000
10:22:00 AM	0.0	0.046	0.000
10:23:00 AM	0.0	0.047	0.000
10:24:00 AM	0.0	0.045	0.000
10:25:00 AM	0.0	0.046	0.000
10:26:00 AM	0.0	0.046	0.000
10:27:00 AM	0.0	0.046	0.000
10:28:00 AM	0.0	0.046	0.000
10:29:00 AM	0.0	0.046	0.000
10:30:00 AM	0.0	0.052	0.000
10:31:00 AM	0.0	0.043	0.000
10:32:00 AM	0.0	0.061	0.000
10:33:00 AM	0.0	0.045	0.000
10:34:00 AM	0.0	0.041	0.000
10:35:00 AM	0.0	0.042	0.000
10:36:00 AM	0.0	0.042	0.000
10:37:00 AM	0.0	0.043	0.000
10:38:00 AM	0.0	0.048	0.000
10:39:00 AM	0.0	0.044	0.000
10:40:00 AM	0.0	0.045	0.000
10:41:00 AM	0.0	0.045	0.000
10:42:00 AM	0.0	0.044	0.000
10:43:00 AM	0.0	0.045	0.000
10:44:00 AM	0.0	0.044	0.000
10:45:00 AM	0.0	0.042	0.000
10:46:00 AM	0.0	0.041	0.000
10:47:00 AM	0.0	0.040	0.000
10:48:00 AM	0.0	0.040	0.000
10:49:00 AM	0.0	0.040	0.000
10:50:00 AM	0.0	0.039	0.000
10:51:00 AM	0.0	0.040	0.000
10:52:00 AM	0.0	0.040	0.000
10:53:00 AM	0.0	0.039	0.000
10:54:00 AM	0.0	0.039	0.000

LIRR Group D Substations
Bayside Substation
Upwind
November 6, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:55:00 AM	0.0	0.037	0.000
10:56:00 AM	0.0	0.037	0.000
10:57:00 AM	0.0	0.037	0.000
10:58:00 AM	0.0	0.036	0.000
10:59:00 AM	0.0	0.034	0.000
11:00:00 AM	0.0	0.035	0.000
11:01:00 AM	0.0	0.034	0.000
11:02:00 AM	0.0	0.034	0.000
11:03:00 AM	0.0	0.035	0.000
11:04:00 AM	0.0	0.034	0.000
11:05:00 AM	0.0	0.033	0.000
11:06:00 AM	0.0	0.032	0.000
11:07:00 AM	0.0	0.032	0.000
11:08:00 AM	0.0	0.034	0.000
11:09:00 AM	0.0	0.036	0.000
11:10:00 AM	0.0	0.031	0.000
11:11:00 AM	0.0	0.030	0.000
11:12:00 AM	0.0	0.029	0.000
11:13:00 AM	0.0	0.029	0.000
11:14:00 AM	0.0	0.029	0.000
11:15:00 AM	0.0	0.028	0.000
11:16:00 AM	0.0	0.029	0.000
11:17:00 AM	0.0	0.029	0.000
11:18:00 AM	0.0	0.040	0.000
11:19:00 AM	0.0	0.028	0.000
11:20:00 AM	0.0	0.027	0.000
11:21:00 AM	0.0	0.024	0.000
11:22:00 AM	0.0	0.023	0.000
11:23:00 AM	0.0	0.022	0.000
11:24:00 AM	0.0	0.022	0.000
11:25:00 AM	0.0	0.022	0.000
11:26:00 AM	0.0	0.022	0.000
11:27:00 AM	0.0	0.022	0.000
11:28:00 AM	0.0	0.021	0.000
11:29:00 AM	0.0	0.021	0.000
11:30:00 AM	0.0	0.021	0.000
11:31:00 AM	0.0	0.023	0.000
11:32:00 AM	0.0	0.022	0.000
11:33:00 AM	0.0	0.021	0.000
11:34:00 AM	0.0	0.021	0.000
11:35:00 AM	0.0	0.021	0.000
11:36:00 AM	0.0	0.021	0.000
11:37:00 AM	0.0	0.021	0.000
11:38:00 AM	0.0	0.021	0.000
11:39:00 AM	0.0	0.021	0.000
11:40:00 AM	0.0	0.021	0.000
11:41:00 AM	0.0	0.021	0.000
11:42:00 AM	0.0	0.021	0.000
11:43:00 AM	0.0	0.021	0.000
11:44:00 AM	0.0	0.022	0.000
11:45:00 AM	0.0	0.022	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 6, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:46:00 AM	0.0	0.022	0.000
11:47:00 AM	0.0	0.023	0.000
11:48:00 AM	0.0	0.023	0.000
11:49:00 AM	0.0	0.023	0.000
11:50:00 AM	0.1	0.022	0.000
11:51:00 AM	0.0	0.023	0.000
11:52:00 AM	0.1	0.022	0.000
11:53:00 AM	0.1	0.022	0.000
11:54:00 AM	0.1	0.023	0.000
11:55:00 AM	0.1	0.023	0.000
11:56:00 AM	0.1	0.023	0.000
11:57:00 AM	0.0	0.023	0.000
11:58:00 AM	0.0	0.022	0.000
11:59:00 AM	0.1	0.022	0.000
12:00:00 PM	0.0	0.021	0.000
12:01:00 PM	0.1	0.022	0.000
12:02:00 PM	0.1	0.022	0.000
12:03:00 PM	0.0	0.022	0.000
12:04:00 PM	0.0	0.022	0.000
12:05:00 PM	0.1	0.022	0.000
12:06:00 PM	0.1	0.022	0.000
12:07:00 PM	0.1	0.022	0.000
12:08:00 PM	0.1	0.022	0.000
12:09:00 PM	0.1	0.021	0.000
12:10:00 PM	0.1	0.022	0.000
12:11:00 PM	0.1	0.022	0.000
12:12:00 PM	0.1	0.023	0.000
12:13:00 PM	0.1	0.023	0.000
12:14:00 PM	0.1	0.023	0.000
12:15:00 PM	0.1	0.024	0.000
12:16:00 PM	0.1	0.025	0.000
12:17:00 PM	0.1	0.025	0.000
12:18:00 PM	0.1	0.024	0.000
12:19:00 PM	0.1	0.024	0.000
12:20:00 PM	0.1	0.024	0.000
12:21:00 PM	0.1	0.023	0.000
12:22:00 PM	0.1	0.022	0.000
12:23:00 PM	0.1	0.023	0.000
12:24:00 PM	0.1	0.024	0.000
12:25:00 PM	0.1	0.026	0.000
12:26:00 PM	0.1	0.026	0.000
12:27:00 PM	0.1	0.025	0.000
12:28:00 PM	0.1	0.024	0.000
12:29:00 PM	0.1	0.023	0.000
12:30:00 PM	0.1	0.022	0.000
12:31:00 PM	0.1	0.023	0.000
12:32:00 PM	0.1	0.024	0.000
12:33:00 PM	0.1	0.024	0.000
12:34:00 PM	0.1	0.023	0.000
12:35:00 PM	0.1	0.025	0.000
12:36:00 PM	0.1	0.024	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 6, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:37:00 PM	0.1	0.024	0.000
12:38:00 PM	0.1	0.023	0.000
12:39:00 PM	0.1	0.022	0.000
12:40:00 PM	0.1	0.022	0.000
12:41:00 PM	0.1	0.022	0.000
12:42:00 PM	0.1	0.022	0.000
12:43:00 PM	0.1	0.022	0.000
12:44:00 PM	0.1	0.022	0.000
12:45:00 PM	0.1	0.022	0.000
12:46:00 PM	0.1	0.022	0.000
12:47:00 PM	0.1	0.022	0.000
12:48:00 PM	0.1	0.023	0.000
12:49:00 PM	0.1	0.023	0.000
12:50:00 PM	0.1	0.023	0.000
12:51:00 PM	0.1	0.024	0.000
12:52:00 PM	0.1	0.024	0.000
12:53:00 PM	0.1	0.025	0.000
12:54:00 PM	0.1	0.025	0.000
12:55:00 PM	0.1	0.024	0.000
12:56:00 PM	0.1	0.025	0.000
12:57:00 PM	0.1	0.026	0.000
12:58:00 PM	0.1	0.026	0.000
12:59:00 PM	0.1	0.026	0.000
1:00:00 PM	0.1	0.026	0.000
1:01:00 PM	0.1	0.026	0.000
1:02:00 PM	0.1	0.025	0.000
1:03:00 PM	0.1	0.025	0.000
1:04:00 PM	0.1	0.025	0.000
1:05:00 PM	0.1	0.024	0.000
1:06:00 PM	0.1	0.024	0.000
1:07:00 PM	0.1	0.023	0.000
1:08:00 PM	0.1	0.023	0.000
1:09:00 PM	0.1	0.023	0.000
1:10:00 PM	0.1	0.023	0.000
1:11:00 PM	0.1	0.024	0.000
1:12:00 PM	0.1	0.023	0.000
1:13:00 PM	0.1	0.023	0.000
1:14:00 PM	0.1	0.023	0.000
1:15:00 PM	0.1	0.022	0.000
1:16:00 PM	0.1	0.024	0.000
1:17:00 PM	0.1	0.023	0.000
1:18:00 PM	0.1	0.023	0.000
1:19:00 PM	0.1	0.023	0.000
1:20:00 PM	0.1	0.023	0.000
1:21:00 PM	0.1	0.023	0.000
1:22:00 PM	0.1	0.023	0.000
1:23:00 PM	0.1	0.022	0.000
1:24:00 PM	0.1	0.024	0.000
1:25:00 PM	0.1	0.024	0.000
1:26:00 PM	0.1	0.025	0.000
1:27:00 PM	0.1	0.024	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 6, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:28:00 PM	0.1	0.024	0.000
1:29:00 PM	0.1	0.023	0.000
1:30:00 PM	0.1	0.022	0.000
1:31:00 PM	0.1	0.022	0.000
1:32:00 PM	0.1	0.022	0.000
1:33:00 PM	0.1	0.022	0.000
1:34:00 PM	0.1	0.022	0.000
1:35:00 PM	0.1	0.023	0.000
1:36:00 PM	0.1	0.023	0.000
1:37:00 PM	0.1	0.023	0.000
1:38:00 PM	0.1	0.022	0.000
1:39:00 PM	0.1	0.022	0.000
1:40:00 PM	0.1	0.022	0.000
1:41:00 PM	0.1	0.024	0.000
1:42:00 PM	0.1	0.024	0.000
1:43:00 PM	0.1	0.026	0.000
1:44:00 PM	0.1	0.025	0.000
1:45:00 PM	0.1	0.024	0.000
1:46:00 PM	0.1	0.024	0.000
1:47:00 PM	0.1	0.023	0.000
1:48:00 PM	0.1	0.024	0.000
1:49:00 PM	0.1	0.024	0.000
1:50:00 PM	0.1	0.024	0.000
1:51:00 PM	0.1	0.026	0.000
1:52:00 PM	0.1	0.026	0.000
1:53:00 PM	0.1	0.024	0.000
1:54:00 PM	0.1	0.025	0.000
1:55:00 PM	0.1	0.028	0.000
1:56:00 PM	0.1	0.031	0.000
1:57:00 PM	0.1	0.024	0.000
1:58:00 PM	0.1	0.023	0.000
1:59:00 PM	0.1	0.023	0.000
2:00:00 PM	0.1	0.025	0.000
2:01:00 PM	0.1	0.025	0.000
2:02:00 PM	0.1	0.023	0.000
2:03:00 PM	0.1	0.024	0.000
2:04:00 PM	0.1	0.023	0.000
2:05:00 PM	0.1	0.023	0.000
2:06:00 PM	0.1	0.022	0.000
2:07:00 PM	0.1	0.022	0.000
2:08:00 PM	0.1	0.022	0.000
2:09:00 PM	0.1	0.023	0.000
2:10:00 PM	0.1	0.022	0.000
2:11:00 PM	0.1	0.021	0.000
2:12:00 PM	0.1	0.025	0.000
2:13:00 PM	0.1	0.024	0.000
2:14:00 PM	0.1	0.022	0.000
2:15:00 PM	0.1	0.022	0.000
2:16:00 PM	0.1	0.023	0.000
2:17:00 PM	0.1	0.024	0.000
2:18:00 PM	0.1	0.026	0.000

November 6, 2020

[illegible]

LIRR Group D Substations

Bayside Substation

Work Zone

November 6, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
9:50:00 AM	0.0	0.658	0.000
9:51:00 AM	0.0	0.055	0.000
9:52:00 AM	0.0	0.052	0.000
9:53:00 AM	0.0	0.052	0.000
9:54:00 AM	0.0	0.052	0.000
9:55:00 AM	0.0	0.059	0.000
9:56:00 AM	0.1	0.067	0.000
9:57:00 AM	0.1	0.055	0.000
9:58:00 AM	0.1	0.053	0.000
9:59:00 AM	0.1	0.052	0.000
10:00:00 AM	0.1	0.051	0.000
10:01:00 AM	0.1	0.049	0.000
10:02:00 AM	0.1	0.048	0.000
10:03:00 AM	0.1	0.048	0.000
10:04:00 AM	0.1	0.049	0.000
10:05:00 AM	0.1	0.051	0.000
10:06:00 AM	0.1	0.052	0.000
10:07:00 AM	0.1	0.052	0.000
10:08:00 AM	0.1	0.052	0.000
10:09:00 AM	0.1	0.050	0.000
10:10:00 AM	0.1	0.049	0.000
10:11:00 AM	0.1	0.049	0.000
10:12:00 AM	0.1	0.049	0.000
10:13:00 AM	0.1	0.048	0.000
10:14:00 AM	0.1	0.048	0.000
10:15:00 AM	0.1	0.047	0.000
10:16:00 AM	0.1	0.048	0.000
10:17:00 AM	0.1	0.048	0.000
10:18:00 AM	0.1	0.047	0.000
10:19:00 AM	0.1	0.046	0.000
10:20:00 AM	0.1	0.047	0.000
10:21:00 AM	0.1	0.047	0.000
10:22:00 AM	0.1	0.047	0.000
10:23:00 AM	0.1	0.044	0.000
10:24:00 AM	0.1	0.045	0.000
10:25:00 AM	0.1	0.083	0.000
10:26:00 AM	0.1	0.047	0.000
10:27:00 AM	0.1	0.412	0.000
10:28:00 AM	0.1	0.117	0.000
10:29:00 AM	0.1	0.069	0.000
10:30:00 AM	0.2	0.064	0.000
10:31:00 AM	0.1	0.083	0.000
10:32:00 AM	0.1	0.051	0.000
10:33:00 AM	0.3	0.058	0.000
10:34:00 AM	0.2	0.189	0.000
10:35:00 AM	0.2	0.072	0.000
10:36:00 AM	0.2	0.199	0.000
10:37:00 AM	0.2	0.122	0.000
10:38:00 AM	0.2	0.051	0.000
10:39:00 AM	0.2	0.051	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 6, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:40:00 AM	0.2	0.049	0.000
10:41:00 AM	0.2	0.047	0.000
10:42:00 AM	0.2	0.045	0.000
10:43:00 AM	0.2	0.044	0.000
10:44:00 AM	0.2	0.044	0.000
10:45:00 AM	0.2	0.042	0.000
10:46:00 AM	0.2	0.042	0.000
10:47:00 AM	0.2	0.040	0.000
10:48:00 AM	0.2	0.039	0.000
10:49:00 AM	0.2	0.039	0.000
10:50:00 AM	0.2	0.038	0.000
10:51:00 AM	0.2	0.038	0.000
10:52:00 AM	0.2	0.037	0.000
10:53:00 AM	0.2	0.036	0.000
10:54:00 AM	0.2	0.036	0.000
10:55:00 AM	0.2	0.035	0.000
10:56:00 AM	0.2	0.035	0.000
10:57:00 AM	0.2	0.035	0.000
10:58:00 AM	0.2	0.063	0.000
10:59:00 AM	0.2	0.111	0.000
11:00:00 AM	0.2	0.044	0.000
11:01:00 AM	0.2	0.036	0.000
11:02:00 AM	0.2	0.035	0.000
11:03:00 AM	0.2	0.033	0.000
11:04:00 AM	0.2	0.093	0.000
11:05:00 AM	0.2	0.071	0.000
11:06:00 AM	0.2	0.047	0.000
11:07:00 AM	0.2	0.102	0.000
11:08:00 AM	0.2	0.106	0.000
11:09:00 AM	0.2	0.054	0.000
11:10:00 AM	0.2	0.046	0.000
11:11:00 AM	0.2	0.038	0.000
11:12:00 AM	0.2	0.035	0.000
11:13:00 AM	0.2	0.032	0.000
11:14:00 AM	0.2	0.032	0.000
11:15:00 AM	0.2	0.035	0.000
11:16:00 AM	0.2	0.040	0.000
11:17:00 AM	0.2	0.033	0.000
11:18:00 AM	0.2	0.042	0.000
11:19:00 AM	0.2	0.059	0.000
11:20:00 AM	0.2	0.055	0.000
11:21:00 AM	0.2	0.049	0.000
11:22:00 AM	0.2	0.049	0.000
11:23:00 AM	0.2	0.040	0.000
11:24:00 AM	0.2	0.025	0.000
11:25:00 AM	0.2	0.027	0.000
11:26:00 AM	0.2	0.031	0.000
11:27:00 AM	0.2	0.026	0.000
11:28:00 AM	0.2	0.025	0.000
11:29:00 AM	0.2	0.021	0.000
11:30:00 AM	0.2	0.023	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 6, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:31:00 AM	0.2	0.021	0.000
11:32:00 AM	0.2	0.022	0.000
11:33:00 AM	0.2	0.020	0.000
11:34:00 AM	0.2	0.020	0.000
11:35:00 AM	0.2	0.019	0.000
11:36:00 AM	0.2	0.019	0.000
11:37:00 AM	0.2	0.019	0.000
11:38:00 AM	0.2	0.020	0.000
11:39:00 AM	0.2	0.019	0.000
11:40:00 AM	0.2	0.021	0.000
11:41:00 AM	0.2	0.020	0.000
11:42:00 AM	0.2	0.020	0.000
11:43:00 AM	0.2	0.019	0.000
11:44:00 AM	0.2	0.020	0.000
11:45:00 AM	0.2	0.020	0.000
11:46:00 AM	0.2	0.020	0.000
11:47:00 AM	0.2	0.021	0.000
11:48:00 AM	0.2	0.022	0.000
11:49:00 AM	0.2	0.020	0.000
11:50:00 AM	0.2	0.021	0.000
11:51:00 AM	0.2	0.021	0.000
11:52:00 AM	0.2	0.021	0.000
11:53:00 AM	0.2	0.020	0.000
11:54:00 AM	0.2	0.020	0.000
11:55:00 AM	0.2	0.021	0.000
11:56:00 AM	0.2	0.021	0.000
11:57:00 AM	0.2	0.021	0.000
11:58:00 AM	0.2	0.019	0.000
11:59:00 AM	0.2	0.019	0.000
12:00:00 PM	0.2	0.020	0.000
12:01:00 PM	0.2	0.020	0.000
12:02:00 PM	0.2	0.020	0.000
12:03:00 PM	0.2	0.019	0.000
12:04:00 PM	0.2	0.019	0.000
12:05:00 PM	0.2	0.020	0.000
12:06:00 PM	0.2	0.020	0.000
12:07:00 PM	0.2	0.019	0.000
12:08:00 PM	0.2	0.019	0.000
12:09:00 PM	0.2	0.020	0.000
12:10:00 PM	0.2	0.020	0.000
12:11:00 PM	0.2	0.019	0.000
12:12:00 PM	0.2	0.020	0.000
12:13:00 PM	0.2	0.020	0.000
12:14:00 PM	0.2	0.020	0.000
12:15:00 PM	0.2	0.021	0.000
12:16:00 PM	0.2	0.022	0.000
12:17:00 PM	0.2	0.022	0.000
12:18:00 PM	0.2	0.021	0.000
12:19:00 PM	0.2	0.021	0.000
12:20:00 PM	0.2	0.021	0.000
12:21:00 PM	0.2	0.020	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 6, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:22:00 PM	0.2	0.020	0.000
12:23:00 PM	0.2	0.022	0.000
12:24:00 PM	0.2	0.023	0.000
12:25:00 PM	0.2	0.024	0.000
12:26:00 PM	0.2	0.024	0.000
12:27:00 PM	0.2	0.023	0.000
12:28:00 PM	0.2	0.022	0.000
12:29:00 PM	0.2	0.020	0.000
12:30:00 PM	0.2	0.020	0.000
12:31:00 PM	0.2	0.020	0.000
12:32:00 PM	0.2	0.021	0.000
12:33:00 PM	0.2	0.021	0.000
12:34:00 PM	0.2	0.022	0.000
12:35:00 PM	0.2	0.023	0.000
12:36:00 PM	0.2	0.023	0.000
12:37:00 PM	0.2	0.021	0.000
12:38:00 PM	0.2	0.021	0.000
12:39:00 PM	0.2	0.020	0.000
12:40:00 PM	0.2	0.020	0.000
12:41:00 PM	0.2	0.020	0.000
12:42:00 PM	0.2	0.020	0.000
12:43:00 PM	0.2	0.023	0.000
12:44:00 PM	0.2	0.021	0.000
12:45:00 PM	0.2	0.019	0.000
12:46:00 PM	0.2	0.020	0.000
12:47:00 PM	0.2	0.020	0.000
12:48:00 PM	0.2	0.022	0.000
12:49:00 PM	0.2	0.023	0.000
12:50:00 PM	0.2	0.021	0.000
12:51:00 PM	0.2	0.022	0.000
12:52:00 PM	0.2	0.022	0.000
12:53:00 PM	0.2	0.022	0.000
12:54:00 PM	0.2	0.022	0.000
12:55:00 PM	0.2	0.023	0.000
12:56:00 PM	0.2	0.023	0.000
12:57:00 PM	0.2	0.023	0.000
12:58:00 PM	0.2	0.023	0.000
12:59:00 PM	0.2	0.023	0.000
1:00:00 PM	0.2	0.023	0.000
1:01:00 PM	0.2	0.024	0.000
1:02:00 PM	0.2	0.023	0.000
1:03:00 PM	0.2	0.023	0.000
1:04:00 PM	0.2	0.022	0.000
1:05:00 PM	0.2	0.023	0.000
1:06:00 PM	0.2	0.022	0.000
1:07:00 PM	0.2	0.022	0.000
1:08:00 PM	0.2	0.021	0.000
1:09:00 PM	0.2	0.021	0.000
1:10:00 PM	0.2	0.021	0.000
1:11:00 PM	0.2	0.022	0.000
1:12:00 PM	0.2	0.021	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 6, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:13:00 PM	0.2	0.022	0.000
1:14:00 PM	0.2	0.021	0.000
1:15:00 PM	0.2	0.021	0.000
1:16:00 PM	0.2	0.023	0.000
1:17:00 PM	0.2	0.022	0.000
1:18:00 PM	0.2	0.021	0.000
1:19:00 PM	0.2	0.021	0.000
1:20:00 PM	0.2	0.021	0.000
1:21:00 PM	0.2	0.020	0.000
1:22:00 PM	0.2	0.020	0.000
1:23:00 PM	0.2	0.024	0.000
1:24:00 PM	0.2	0.033	0.000
1:25:00 PM	0.2	0.024	0.000
1:26:00 PM	0.2	0.023	0.000
1:27:00 PM	0.2	0.022	0.000
1:28:00 PM	0.2	0.021	0.000
1:29:00 PM	0.2	0.027	0.000
1:30:00 PM	0.2	0.020	0.000
1:31:00 PM	0.2	0.027	0.000
1:32:00 PM	0.2	0.024	0.000
1:33:00 PM	0.2	0.022	0.000
1:34:00 PM	0.2	0.021	0.000
1:35:00 PM	0.2	0.023	0.000
1:36:00 PM	0.2	0.024	0.000
1:37:00 PM	0.2	0.026	0.000
1:38:00 PM	0.2	0.046	0.000
1:39:00 PM	0.2	0.046	0.000
1:40:00 PM	0.2	0.025	0.000
1:41:00 PM	0.2	0.021	0.000
1:42:00 PM	0.2	0.021	0.000
1:43:00 PM	0.2	0.021	0.000
1:44:00 PM	0.2	0.029	0.000
1:45:00 PM	0.2	0.022	0.000
1:46:00 PM	0.2	0.021	0.000
1:47:00 PM	0.2	0.021	0.000
1:48:00 PM	0.2	0.021	0.000
1:49:00 PM	0.2	0.021	0.000
1:50:00 PM	0.2	0.022	0.000
1:51:00 PM	0.2	0.022	0.000
1:52:00 PM	0.2	0.022	0.000
1:53:00 PM	0.2	0.022	0.000
1:54:00 PM	0.2	0.022	0.000
1:55:00 PM	0.2	0.021	0.000
1:56:00 PM	0.2	0.021	0.000
1:57:00 PM	0.2	0.021	0.000
1:58:00 PM	0.2	0.020	0.000
1:59:00 PM	0.2	0.020	0.000
2:00:00 PM	0.2	0.020	0.000
2:01:00 PM	0.2	0.020	0.000
2:02:00 PM	0.2	0.020	0.000
2:03:00 PM	0.2	0.021	0.000

November 6, 2020

[illegible]

LIRR Group D Substations

Bayside Substation

Downwind

November 6, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
9:55:00 AM	0.0	0.2	0.000
9:56:00 AM	0.0	0.121	0.000
9:57:00 AM	0.0	0.121	0.000
9:58:00 AM	0.0	0.119	0.000
9:59:00 AM	0.0	0.123	0.000
10:00:00 AM	0.0	0.120	0.000
10:01:00 AM	0.0	0.120	0.000
10:02:00 AM	0.0	0.122	0.000
10:03:00 AM	0.0	0.120	0.000
10:04:00 AM	0.0	0.119	0.000
10:05:00 AM	0.0	0.116	0.000
10:06:00 AM	0.0	0.116	0.000
10:07:00 AM	0.0	0.118	0.000
10:08:00 AM	0.0	0.118	0.000
10:09:00 AM	0.0	0.118	0.000
10:10:00 AM	0.0	0.117	0.000
10:11:00 AM	0.0	0.118	0.000
10:12:00 AM	0.0	0.118	0.000
10:13:00 AM	0.0	0.117	0.000
10:14:00 AM	0.0	0.115	0.000
10:15:00 AM	0.0	0.117	0.000
10:16:00 AM	0.0	0.114	0.000
10:17:00 AM	0.0	0.113	0.000
10:18:00 AM	0.0	0.112	0.000
10:19:00 AM	0.0	0.110	0.000
10:20:00 AM	0.0	0.109	0.000
10:21:00 AM	0.0	0.107	0.000
10:22:00 AM	0.0	0.103	0.000
10:23:00 AM	0.0	0.104	0.000
10:24:00 AM	0.0	0.105	0.000
10:25:00 AM	0.0	0.105	0.000
10:26:00 AM	0.0	0.105	0.000
10:27:00 AM	0.0	0.104	0.000
10:28:00 AM	0.0	0.103	0.000
10:29:00 AM	0.0	0.103	0.000
10:30:00 AM	0.0	0.100	0.000
10:31:00 AM	0.0	0.101	0.000
10:32:00 AM	0.0	0.095	0.000
10:33:00 AM	0.0	0.094	0.000
10:34:00 AM	0.0	0.095	0.000
10:35:00 AM	0.0	0.097	0.000
10:36:00 AM	0.0	0.096	0.000
10:37:00 AM	0.0	0.095	0.000
10:38:00 AM	0.0	0.099	0.000
10:39:00 AM	0.0	0.101	0.000
10:40:00 AM	0.0	0.100	0.000
10:41:00 AM	0.0	0.098	0.000
10:42:00 AM	0.0	0.099	0.000
10:43:00 AM	0.0	0.098	0.000
10:44:00 AM	0.0	0.096	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 6, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:45:00 AM	0.0	0.094	0.000
10:46:00 AM	0.0	0.092	0.000
10:47:00 AM	0.0	0.092	0.000
10:48:00 AM	0.0	0.091	0.000
10:49:00 AM	0.0	0.089	0.000
10:50:00 AM	0.0	0.088	0.000
10:51:00 AM	0.0	0.087	0.000
10:52:00 AM	0.0	0.086	0.000
10:53:00 AM	0.0	0.087	0.000
10:54:00 AM	0.1	0.084	0.000
10:55:00 AM	0.0	0.082	0.000
10:56:00 AM	0.1	0.083	0.000
10:57:00 AM	0.0	0.081	0.000
10:58:00 AM	0.0	0.079	0.000
10:59:00 AM	0.0	0.081	0.000
11:00:00 AM	0.1	0.076	0.000
11:01:00 AM	0.1	0.076	0.000
11:02:00 AM	0.1	0.077	0.000
11:03:00 AM	0.1	0.073	0.000
11:04:00 AM	0.1	0.079	0.000
11:05:00 AM	0.1	0.084	0.000
11:06:00 AM	0.1	0.072	0.000
11:07:00 AM	0.1	0.070	0.000
11:08:00 AM	0.1	0.069	0.000
11:09:00 AM	0.1	0.072	0.000
11:10:00 AM	0.1	0.080	0.000
11:11:00 AM	0.1	0.064	0.000
11:12:00 AM	0.1	0.062	0.000
11:13:00 AM	0.1	0.063	0.000
11:14:00 AM	0.1	0.061	0.000
11:15:00 AM	0.1	0.070	0.000
11:16:00 AM	0.1	0.065	0.000
11:17:00 AM	0.1	0.062	0.000
11:18:00 AM	0.1	0.060	0.000
11:19:00 AM	0.1	0.067	0.000
11:20:00 AM	0.1	0.056	0.000
11:21:00 AM	0.1	0.070	0.000
11:22:00 AM	0.1	0.093	0.000
11:23:00 AM	0.1	0.095	0.000
11:24:00 AM	0.1	0.061	0.000
11:25:00 AM	0.1	0.063	0.000
11:26:00 AM	0.1	0.062	0.000
11:27:00 AM	0.1	0.048	0.000
11:28:00 AM	0.1	0.049	0.000
11:29:00 AM	0.1	0.049	0.000
11:30:00 AM	0.1	0.045	0.000
11:31:00 AM	0.1	0.046	0.000
11:32:00 AM	0.1	0.047	0.000
11:33:00 AM	0.1	0.044	0.000
11:34:00 AM	0.1	0.042	0.000
11:35:00 AM	0.1	0.043	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 6, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:36:00 AM	0.1	0.044	0.000
11:37:00 AM	0.1	0.044	0.000
11:38:00 AM	0.1	0.044	0.000
11:39:00 AM	0.1	0.045	0.000
11:40:00 AM	0.1	0.044	0.000
11:41:00 AM	0.1	0.044	0.000
11:42:00 AM	0.1	0.044	0.000
11:43:00 AM	0.1	0.043	0.000
11:44:00 AM	0.1	0.045	0.000
11:45:00 AM	0.1	0.045	0.000
11:46:00 AM	0.1	0.046	0.000
11:47:00 AM	0.1	0.047	0.000
11:48:00 AM	0.1	0.047	0.000
11:49:00 AM	0.1	0.046	0.000
11:50:00 AM	0.1	0.048	0.000
11:51:00 AM	0.1	0.049	0.000
11:52:00 AM	0.1	0.048	0.000
11:53:00 AM	0.1	0.047	0.000
11:54:00 AM	0.1	0.048	0.000
11:55:00 AM	0.1	0.048	0.000
11:56:00 AM	0.1	0.047	0.000
11:57:00 AM	0.1	0.046	0.000
11:58:00 AM	0.1	0.046	0.000
11:59:00 AM	0.1	0.046	0.000
12:00:00 PM	0.1	0.047	0.000
12:01:00 PM	0.1	0.047	0.000
12:02:00 PM	0.1	0.046	0.000
12:03:00 PM	0.1	0.046	0.000
12:04:00 PM	0.1	0.046	0.000
12:05:00 PM	0.1	0.048	0.000
12:06:00 PM	0.1	0.046	0.000
12:07:00 PM	0.1	0.045	0.000
12:08:00 PM	0.1	0.045	0.000
12:09:00 PM	0.1	0.044	0.000
12:10:00 PM	0.1	0.045	0.000
12:11:00 PM	0.1	0.045	0.000
12:12:00 PM	0.1	0.046	0.000
12:13:00 PM	0.1	0.047	0.000
12:14:00 PM	0.1	0.047	0.000
12:15:00 PM	0.1	0.053	0.000
12:16:00 PM	0.1	0.050	0.000
12:17:00 PM	0.1	0.051	0.000
12:18:00 PM	0.1	0.050	0.000
12:19:00 PM	0.1	0.052	0.000
12:20:00 PM	0.1	0.055	0.000
12:21:00 PM	0.1	0.048	0.000
12:22:00 PM	0.1	0.045	0.000
12:23:00 PM	0.1	0.050	0.000
12:24:00 PM	0.1	0.052	0.000
12:25:00 PM	0.1	0.052	0.000
12:26:00 PM	0.1	0.052	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 6, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:27:00 PM	0.1	0.050	0.000
12:28:00 PM	0.1	0.049	0.000
12:29:00 PM	0.1	0.048	0.000
12:30:00 PM	0.1	0.046	0.000
12:31:00 PM	0.1	0.049	0.000
12:32:00 PM	0.1	0.050	0.000
12:33:00 PM	0.1	0.050	0.000
12:34:00 PM	0.1	0.052	0.000
12:35:00 PM	0.1	0.051	0.000
12:36:00 PM	0.1	0.049	0.000
12:37:00 PM	0.1	0.049	0.000
12:38:00 PM	0.1	0.047	0.000
12:39:00 PM	0.1	0.046	0.000
12:40:00 PM	0.1	0.046	0.000
12:41:00 PM	0.1	0.046	0.000
12:42:00 PM	0.1	0.046	0.000
12:43:00 PM	0.1	0.046	0.000
12:44:00 PM	0.1	0.046	0.000
12:45:00 PM	0.1	0.045	0.000
12:46:00 PM	0.1	0.045	0.000
12:47:00 PM	0.1	0.047	0.000
12:48:00 PM	0.1	0.049	0.000
12:49:00 PM	0.1	0.050	0.000
12:50:00 PM	0.1	0.051	0.000
12:51:00 PM	0.1	0.050	0.000
12:52:00 PM	0.1	0.050	0.000
12:53:00 PM	0.1	0.049	0.000
12:54:00 PM	0.1	0.050	0.000
12:55:00 PM	0.1	0.049	0.000
12:56:00 PM	0.1	0.049	0.000
12:57:00 PM	0.1	0.051	0.000
12:58:00 PM	0.1	0.050	0.000
12:59:00 PM	0.1	0.050	0.000
1:00:00 PM	0.1	0.050	0.000
1:01:00 PM	0.1	0.050	0.000
1:02:00 PM	0.1	0.049	0.000
1:03:00 PM	0.1	0.049	0.000
1:04:00 PM	0.1	0.049	0.000
1:05:00 PM	0.1	0.050	0.000
1:06:00 PM	0.1	0.050	0.000
1:07:00 PM	0.1	0.049	0.000
1:08:00 PM	0.1	0.047	0.000
1:09:00 PM	0.1	0.047	0.000
1:10:00 PM	0.1	0.048	0.000
1:11:00 PM	0.1	0.049	0.000
1:12:00 PM	0.1	0.048	0.000
1:13:00 PM	0.1	0.047	0.000
1:14:00 PM	0.1	0.047	0.000
1:15:00 PM	0.1	0.047	0.000
1:16:00 PM	0.1	0.048	0.000
1:17:00 PM	0.1	0.046	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 6, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:18:00 PM	0.1	0.046	0.000
1:19:00 PM	0.1	0.047	0.000
1:20:00 PM	0.1	0.047	0.000
1:21:00 PM	0.1	0.044	0.000
1:22:00 PM	0.1	0.044	0.000
1:23:00 PM	0.1	0.047	0.000
1:24:00 PM	0.1	0.047	0.000
1:25:00 PM	0.1	0.047	0.000
1:26:00 PM	0.1	0.047	0.000
1:27:00 PM	0.1	0.045	0.000
1:28:00 PM	0.1	0.046	0.000
1:29:00 PM	0.1	0.046	0.000
1:30:00 PM	0.1	0.045	0.000
1:31:00 PM	0.1	0.046	0.000
1:32:00 PM	0.1	0.046	0.000
1:33:00 PM	0.1	0.046	0.000
1:34:00 PM	0.1	0.045	0.000
1:35:00 PM	0.1	0.047	0.000
1:36:00 PM	0.1	0.049	0.000
1:37:00 PM	0.1	0.049	0.000
1:38:00 PM	0.1	0.047	0.000
1:39:00 PM	0.1	0.050	0.000
1:40:00 PM	0.1	0.047	0.000
1:41:00 PM	0.1	0.047	0.000
1:42:00 PM	0.1	0.048	0.000
1:43:00 PM	0.1	0.049	0.000
1:44:00 PM	0.1	0.052	0.000
1:45:00 PM	0.1	0.051	0.000
1:46:00 PM	0.1	0.049	0.000
1:47:00 PM	0.1	0.049	0.000
1:48:00 PM	0.1	0.049	0.000
1:49:00 PM	0.1	0.049	0.000
1:50:00 PM	0.1	0.049	0.000
1:51:00 PM	0.1	0.051	0.000
1:52:00 PM	0.1	0.049	0.000
1:53:00 PM	0.1	0.050	0.000
1:54:00 PM	0.1	0.049	0.000
1:55:00 PM	0.1	0.048	0.000
1:56:00 PM	0.1	0.048	0.000
1:57:00 PM	0.1	0.045	0.000
1:58:00 PM	0.1	0.046	0.000
1:59:00 PM	0.1	0.047	0.000
2:00:00 PM	0.1	0.046	0.000
2:01:00 PM	0.1	0.047	0.000
2:02:00 PM	0.1	0.045	0.000
2:03:00 PM	0.1	0.045	0.000
2:04:00 PM	0.1	0.045	0.000
2:05:00 PM	0.1	0.046	0.000
2:06:00 PM	0.1	0.047	0.000
2:07:00 PM	0.1	0.045	0.000
2:08:00 PM	0.1	0.044	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 6, 2020

[illegible]

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	X
TEMP.	< 32		32-50		50-70	X	70-85		>85	

Project No.:		Winds From SSW ~ 10 mph	Date:	11/9/20
Project Name:	LIRR Group D Substation Remediation-Bayside Site-V00388-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. Aarco continues excavate soils within area #3 to a depth of four (4) feet bgs. Aarco utilizing soil guzzler truck excavation around underground utilities. Aarco utilizing plywood to contain dirt generated during excavation with the air knife. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site were sampled but not submitted for documentation sampling. The downwind particulate monitor was reading erroneous high readings. Preferred attempted to troubleshoot the monitor but the problem could not be fixed. A replacement monitoring will be sent out to the site tomorrow morning. Preferred moved the work zone particulate monitor to the downwind station.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/ m ³)	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/m ³)
UP Wind	0.0	0.090	0.000	0.1	0.151	0.000
Down Wind	0.0	0.084	0.000	0.1	0.268	0.000
Work Zone	0.2	0.137	0.000	0.2	0.156	0.000

Exceedances (Since Last Report): None

Problems Encountered: Particulate monitor within DW monitoring station reading erroneous high dust readings. Placed monitor next to upwind station to confirm high readings. Move WZ monitor to DW enclosure. Pine will replace monitor.

Planned Activities for the Next Day/ Week:

- We will continue excavating area #3.



Dumping soils onto stockpile.



Utilizing guzzler truck and air knife to remove soils from area #3.

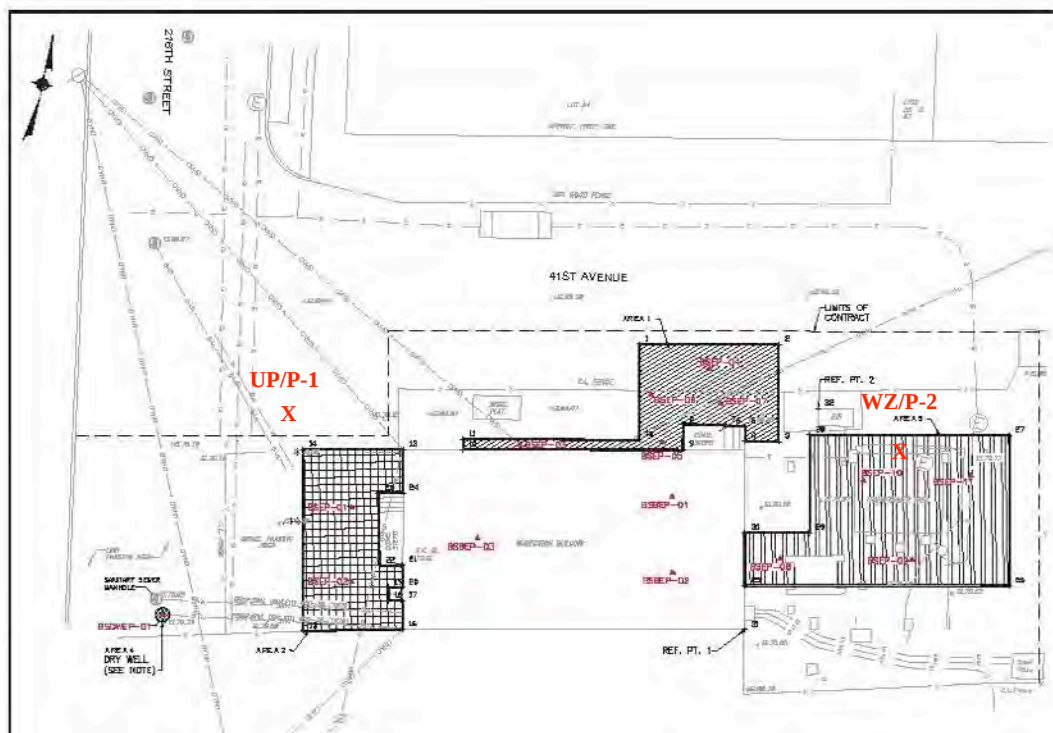


Moving stockpiled soils.



View of endpoint BS-EP-08-B(4')

Monitoring Locations



DW/P-3

X

LIRR Group D Substations

Bayside Substation

Upwind

November 9, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:13:00 AM	0.1		0.000
10:14:00 AM	0.1		0.000
10:15:00 AM	0.1	0.138	0.000
10:16:00 AM	0.1	0.137	0.000
10:17:00 AM	0.1	0.137	0.000
10:18:00 AM	0.1	0.133	0.000
10:19:00 AM	0.1	0.134	0.000
10:20:00 AM	0.1	0.135	0.000
10:21:00 AM	0.1	0.140	0.000
10:22:00 AM	0.1	0.138	0.000
10:23:00 AM	0.1	0.142	0.000
10:24:00 AM	0.1	0.147	0.000
10:25:00 AM	0.1	0.147	0.000
10:26:00 AM	0.1	0.148	0.000
10:27:00 AM	0.1	0.146	0.000
10:28:00 AM	0.1	0.147	0.000
10:29:00 AM	0.1	0.149	0.000
10:30:00 AM	0.1	0.148	0.000
10:31:00 AM	0.1	0.149	0.000
10:32:00 AM	0.1	0.153	0.000
10:33:00 AM	0.1	0.150	0.000
10:34:00 AM	0.1	0.150	0.000
10:35:00 AM	0.1	0.150	0.000
10:36:00 AM	0.1	0.149	0.000
10:37:00 AM	0.1	0.149	0.000
10:38:00 AM	0.1	0.151	0.000
10:39:00 AM	0.1	0.155	0.000
10:40:00 AM	0.1	0.153	0.000
10:41:00 AM	0.1	0.152	0.000
10:42:00 AM	0.1	0.152	0.000
10:43:00 AM	0.1	0.151	0.000
10:44:00 AM	0.1	0.151	0.000
10:45:00 AM	0.1	0.151	0.000
10:46:00 AM	0.1	0.150	0.000
10:47:00 AM	0.1	0.149	0.000
10:48:00 AM	0.1	0.151	0.000
10:49:00 AM	0.1	0.152	0.000
10:50:00 AM	0.1	0.151	0.000
10:51:00 AM	0.1	0.151	0.000
10:52:00 AM	0.1	0.152	0.000
10:53:00 AM	0.1	0.150	0.000
10:54:00 AM	0.1	0.147	0.000
10:55:00 AM	0.1	0.148	0.000
10:56:00 AM	0.1	0.147	0.000
10:57:00 AM	0.1	0.148	0.000
10:58:00 AM	0.1	0.147	0.000
10:59:00 AM	0.1	0.145	0.000
11:00:00 AM	0.1	0.140	0.000
11:01:00 AM	0.1	0.137	0.000
11:02:00 AM	0.1	0.133	0.000
11:03:00 AM	0.1	0.125	0.000
11:04:00 AM	0.1	0.123	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 9, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:05:00 AM	0.1	0.119	0.000
11:06:00 AM	0.1	0.112	0.000
11:07:00 AM	0.1	0.112	0.000
11:08:00 AM	0.1	0.113	0.000
11:09:00 AM	0.1	0.111	0.000
11:10:00 AM	0.1	0.110	0.000
11:11:00 AM	0.1	0.110	0.000
11:12:00 AM	0.1	0.110	0.000
11:13:00 AM	0.1	0.106	0.000
11:14:00 AM	0.1	0.101	0.000
11:15:00 AM	0.1	0.100	0.000
11:16:00 AM	0.1	0.099	0.000
11:17:00 AM	0.1	0.106	0.000
11:18:00 AM	0.1	0.103	0.000
11:19:00 AM	0.1	0.095	0.000
11:20:00 AM	0.1	0.093	0.000
11:21:00 AM	0.1	0.093	0.000
11:22:00 AM	0.1	0.093	0.000
11:23:00 AM	0.1	0.098	0.000
11:24:00 AM	0.1	0.099	0.001
11:25:00 AM	0.1	0.097	0.000
11:26:00 AM	0.1	0.101	0.000
11:27:00 AM	0.1	0.099	0.000
11:28:00 AM	0.1	0.092	0.000
11:29:00 AM	0.1	0.095	0.000
11:30:00 AM	0.1	0.097	0.000
11:31:00 AM	0.1	0.095	0.000
11:32:00 AM	0.1	0.095	0.000
11:33:00 AM	0.1	0.096	0.000
11:34:00 AM	0.1	0.094	0.000
11:35:00 AM	0.1	0.093	0.000
11:36:00 AM	0.0	0.089	0.000
11:37:00 AM	0.1	0.093	0.000
11:38:00 AM	0.1	0.100	0.000
11:39:00 AM	0.1	0.101	0.000
11:40:00 AM	0.1	0.105	0.000
11:41:00 AM	0.0	0.096	0.000
11:42:00 AM	0.0	0.095	0.000
11:43:00 AM	0.1	0.090	0.000
11:44:00 AM	0.0	0.088	0.000
11:45:00 AM	0.0	0.084	0.000
11:46:00 AM	0.1	0.083	0.000
11:47:00 AM	0.1	0.085	0.000
11:48:00 AM	0.1	0.086	0.000
11:49:00 AM	0.1	0.082	0.000
11:50:00 AM	0.1	0.080	0.000
11:51:00 AM	0.0	0.079	0.000
11:52:00 AM	0.0	0.069	0.000
11:53:00 AM	0.1	0.067	0.000
11:54:00 AM	0.0	0.066	0.000
11:55:00 AM	0.1	0.066	0.000
11:56:00 AM	0.1	0.068	0.000
11:57:00 AM	0.1	0.063	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 9, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:58:00 AM	0.0	0.058	0.000
11:59:00 AM	0.0	0.058	0.000
12:00:00 PM	0.0	0.051	0.000
12:01:00 PM	0.0	0.050	0.000
12:02:00 PM	0.0	0.050	0.000
12:03:00 PM	0.0	0.051	0.000
12:04:00 PM	0.0	0.047	0.000
12:05:00 PM	0.0	0.047	0.000
12:06:00 PM	0.0	0.046	0.000
12:07:00 PM	0.0	0.044	0.000
12:08:00 PM	0.0	0.044	0.000
12:09:00 PM	0.0	0.044	0.000
12:10:00 PM	0.0	0.043	0.000
12:11:00 PM	0.0	0.041	0.000
12:12:00 PM	0.0	0.039	0.000
12:13:00 PM	0.0	0.039	0.000
12:14:00 PM	0.0	0.039	0.000
12:15:00 PM	0.0	0.037	0.000
12:16:00 PM	0.0	0.037	0.000
12:17:00 PM	0.0	0.037	0.000
12:18:00 PM	0.0	0.038	0.000
12:19:00 PM	0.0	0.038	0.000
12:20:00 PM	0.0	0.038	0.000
12:21:00 PM	0.0	0.037	0.000
12:22:00 PM	0.0	0.038	0.000
12:23:00 PM	0.0	0.038	0.000
12:24:00 PM	0.0	0.037	0.000
12:25:00 PM	0.0	0.036	0.000
12:26:00 PM	0.0	0.035	0.000
12:27:00 PM	0.0	0.036	0.000
12:28:00 PM	0.0	0.036	0.000
12:29:00 PM	0.0	0.038	0.000
12:30:00 PM	0.0	0.037	0.000
12:31:00 PM	0.0	0.037	0.000
12:32:00 PM	0.0	0.038	0.000
12:33:00 PM	0.0	0.039	0.000
12:34:00 PM	0.0	0.038	0.000
12:35:00 PM	0.0	0.039	0.000
12:36:00 PM	0.0	0.041	0.000
12:37:00 PM	0.0	0.042	0.000
12:38:00 PM	0.0	0.042	0.000
12:39:00 PM	0.0	0.042	0.000
12:40:00 PM	0.0	0.041	0.000
12:41:00 PM	0.0	0.044	0.000
12:42:00 PM	0.0	0.045	0.000
12:43:00 PM	0.0	0.047	0.000
12:44:00 PM	0.0	0.048	0.000
12:45:00 PM	0.0	0.048	0.000
12:46:00 PM	0.0	0.047	0.000
12:47:00 PM	0.0	0.045	0.000
12:48:00 PM	0.0	0.046	0.000
12:49:00 PM	0.0	0.045	0.000
12:50:00 PM	0.0	0.040	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 9, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:51:00 PM	0.0	0.041	0.000
12:52:00 PM	0.0	0.042	0.000
12:53:00 PM	0.0	0.041	0.000
12:54:00 PM	0.0	0.042	0.000
12:55:00 PM	0.0	0.044	0.000
12:56:00 PM	0.0	0.048	0.000
12:57:00 PM	0.0	0.051	0.000
12:58:00 PM	0.0	0.051	0.000
12:59:00 PM	0.0	0.047	0.000
1:00:00 PM	0.0	0.048	0.000
1:01:00 PM	0.0	0.048	0.000
1:02:00 PM	0.0	0.048	0.000
1:03:00 PM	0.0	0.047	0.000
1:04:00 PM	0.0	0.043	0.000
1:05:00 PM	0.0	0.041	0.000
1:06:00 PM	0.0	0.040	0.000
1:07:00 PM	0.0	0.038	0.000
1:08:00 PM	0.0	0.038	0.000
1:09:00 PM	0.0	0.042	0.000
1:10:00 PM	0.0	0.045	0.000
1:11:00 PM	0.0	0.044	0.000
1:12:00 PM	0.0	0.044	0.000
1:13:00 PM	0.0	0.044	0.000
1:14:00 PM	0.0	0.045	0.000
1:15:00 PM	0.0	0.045	0.000
1:16:00 PM	0.0	0.045	0.000
1:17:00 PM	0.0	0.046	0.000
1:18:00 PM	0.0	0.045	0.000
1:19:00 PM	0.0	0.044	0.000
1:20:00 PM	0.0	0.044	0.000
1:21:00 PM	0.0	0.044	0.000
1:22:00 PM	0.0	0.044	0.000
1:23:00 PM	0.0	0.043	0.000
1:24:00 PM	0.0	0.038	0.000
1:25:00 PM	0.0	0.037	0.000
1:26:00 PM	0.0	0.038	0.000
1:27:00 PM	0.0	0.039	0.000
1:28:00 PM	0.0	0.038	0.000
1:29:00 PM	0.0	0.038	0.000
1:30:00 PM	0.0	0.038	0.000
1:31:00 PM	0.0	0.037	0.000
1:32:00 PM	0.0	0.037	0.000
1:33:00 PM	0.0	0.036	0.000
1:34:00 PM	0.0	0.036	0.000
1:35:00 PM	0.0	0.037	0.000
1:36:00 PM	0.0	0.037	0.000
1:37:00 PM	0.0	0.035	0.000
1:38:00 PM	0.0	0.035	0.000
1:39:00 PM	0.0	0.034	0.000
1:40:00 PM	0.0	0.034	0.000
1:41:00 PM	0.0	0.034	0.000
1:42:00 PM	0.0	0.033	0.000
1:43:00 PM	0.0	0.034	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 9, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:44:00 PM	0.0	0.034	0.000
1:45:00 PM	0.0	0.032	0.000
1:46:00 PM	0.0	0.032	0.000
1:47:00 PM	0.0	0.031	0.000
1:48:00 PM	0.0	0.030	0.000
1:49:00 PM	0.0	0.031	0.000
1:50:00 PM	0.0	0.030	0.000
1:51:00 PM	0.0	0.029	0.000
1:52:00 PM	0.0	0.029	0.000
1:53:00 PM	0.0	0.029	0.000
1:54:00 PM	0.0	0.030	0.000
1:55:00 PM	0.0	0.030	0.000
1:56:00 PM	0.0	0.030	0.000
1:57:00 PM	0.0	0.032	0.000
1:58:00 PM	0.0	0.031	0.000
1:59:00 PM	0.0	0.031	0.000
2:00:00 PM	0.0	0.030	0.000
2:01:00 PM	0.0	0.030	0.000
2:02:00 PM	0.0	0.030	0.000
2:03:00 PM	0.0	0.029	0.000
2:04:00 PM	0.0	0.028	0.000
2:05:00 PM	0.0	0.028	0.000
2:06:00 PM	0.0	0.028	0.000
2:07:00 PM	0.0	0.028	0.000
2:08:00 PM	0.0	0.031	0.000
2:09:00 PM	0.0	0.029	0.000
2:10:00 PM	0.0	0.029	0.000
2:11:00 PM	0.0	0.029	0.000
2:12:00 PM	0.0	0.029	0.000
2:13:00 PM	0.0	0.029	0.000
2:14:00 PM	0.0	0.029	0.000
2:15:00 PM	0.0	0.031	0.000
2:16:00 PM	0.0	0.031	0.000
2:17:00 PM	0.0	0.031	0.000
2:18:00 PM	0.0	0.030	0.000
2:19:00 PM	0.0	0.030	0.000
2:20:00 PM	0.0	0.030	0.000
2:21:00 PM	0.0	0.032	0.000
2:22:00 PM	0.0	0.031	0.000
2:23:00 PM	0.0	0.031	0.000
2:24:00 PM	0.0	0.033	0.000
2:25:00 PM	0.0	0.031	0.000
2:26:00 PM	0.0	0.031	0.000
2:27:00 PM	0.0	0.032	0.000
2:28:00 PM	0.0	0.033	0.000
2:29:00 PM	0.0	0.034	0.000
2:30:00 PM	0.0	0.035	0.000
2:31:00 PM	0.0	0.037	0.000
2:32:00 PM	0.0	0.036	0.000
2:33:00 PM	0.0	0.036	0.000
2:34:00 PM	0.0	0.036	0.000
2:35:00 PM	0.0	0.036	0.000
2:36:00 PM	0.0	0.035	0.000

November 9, 2020

[illegible]

LIRR Group D Substations

Bayside Substation

Work Zone

November 9, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:08:00 AM	0.1	0.247	0.000
10:09:00 AM	0.1	0.159	0.000
10:10:00 AM	0.1	0.140	0.000
10:11:00 AM	0.1	0.128	0.000
10:12:00 AM	0.1	0.138	0.000
10:13:00 AM	0.2	0.141	0.000
10:14:00 AM	0.2	0.134	0.000
10:15:00 AM	0.2	0.132	0.000
10:16:00 AM	0.2	0.130	0.000
10:17:00 AM	0.2	0.126	0.000
10:18:00 AM	0.2	0.125	0.000
10:19:00 AM	0.2	0.125	0.000
10:20:00 AM	0.2	0.123	0.000
10:21:00 AM	0.1	0.126	0.000
10:22:00 AM	0.1	0.141	0.000
10:23:00 AM	0.1	0.141	0.000
10:24:00 AM	0.1	0.148	0.000
10:25:00 AM	0.1	0.149	0.000
10:26:00 AM	0.1	0.147	0.000
10:27:00 AM	0.1	0.152	0.000
10:28:00 AM	0.1	0.154	0.000
10:29:00 AM	0.1	0.154	0.000
10:30:00 AM	0.1	0.152	0.000
10:31:00 AM	0.1	0.152	0.000
10:32:00 AM	0.1	0.152	0.000
10:33:00 AM	0.1	0.155	0.000
10:34:00 AM	0.1	0.152	0.000
10:35:00 AM	0.1	0.155	0.000
10:36:00 AM	0.1	0.153	0.000
10:37:00 AM	0.1	0.152	0.000
10:38:00 AM	0.2	0.152	0.000
10:39:00 AM	0.2	0.152	0.000
10:40:00 AM	0.2	0.152	0.000
10:41:00 AM	0.2	0.149	0.000
10:42:00 AM	0.2	0.151	0.000
10:43:00 AM	0.2	0.151	0.000
10:44:00 AM	0.2	0.151	0.000
10:45:00 AM	0.2	0.151	0.000
10:46:00 AM	0.2	0.150	0.000
10:47:00 AM	0.2	0.151	0.000
10:48:00 AM	0.2	0.151	0.000
10:49:00 AM	0.2	0.152	0.000
10:50:00 AM	0.2	0.152	0.000
10:51:00 AM	0.2	0.152	0.000
10:52:00 AM	0.2	0.152	0.000
10:53:00 AM	0.2	0.150	0.000
10:54:00 AM	0.2	0.145	0.000
10:55:00 AM	0.2	0.146	0.000
10:56:00 AM	0.2	0.165	0.000
10:57:00 AM	0.2	0.171	0.000
10:58:00 AM	0.2	0.175	0.000
10:59:00 AM	0.2	0.165	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 9, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:00:00 AM	0.2	0.159	0.000
11:01:00 AM	0.2	0.153	0.000
11:02:00 AM	0.2	0.150	0.000
11:03:00 AM	0.2	0.140	0.000
11:04:00 AM	0.2	0.129	0.000
11:05:00 AM	0.2	0.124	0.000
11:06:00 AM	0.2	0.118	0.000
11:07:00 AM	0.2	0.111	0.000
11:08:00 AM	0.2	0.111	0.000
11:09:00 AM	0.2	0.108	0.000
11:10:00 AM	0.2	0.107	0.000
11:11:00 AM	0.2	0.105	0.000
11:12:00 AM	0.2	0.105	0.000
11:13:00 AM	0.2	0.105	0.000
11:14:00 AM	0.2	0.100	0.000
11:15:00 AM	0.2	0.097	0.000
11:16:00 AM	0.2	0.094	0.000
11:17:00 AM	0.2	0.096	0.000
11:18:00 AM	0.2	0.100	0.000
11:19:00 AM	0.2	0.091	0.000
11:20:00 AM	0.2	0.096	0.000
11:21:00 AM	0.2	0.103	0.000
11:22:00 AM	0.2	0.098	0.000
11:23:00 AM	0.2	0.102	0.000
11:24:00 AM	0.2	0.116	0.000
11:25:00 AM	0.2	0.104	0.000
11:26:00 AM	0.2	0.102	0.000
11:27:00 AM	0.2	0.101	0.000
11:28:00 AM	0.2	0.093	0.000
11:29:00 AM	0.2	0.233	0.000
11:30:00 AM	0.3	0.283	0.000
11:31:00 AM	0.2	0.145	0.000
11:32:00 AM	0.2	0.102	0.000
11:33:00 AM	0.3	0.128	0.000
11:34:00 AM	0.2	0.236	0.000
11:35:00 AM	0.2	0.123	0.000
11:36:00 AM	0.2	0.121	0.000
11:37:00 AM	0.2	0.118	0.000
11:38:00 AM	0.2	0.127	0.000
11:39:00 AM	0.3	0.130	0.000
11:40:00 AM	0.2	0.153	0.000
11:41:00 AM	0.2	0.106	0.000
11:42:00 AM	0.2		0.000
11:43:00 AM	0.2		0.000
11:44:00 AM	0.2		0.000
11:45:00 AM	0.2		0.000
11:46:00 AM	0.2		0.000
11:47:00 AM	0.2		0.000
11:48:00 AM	0.2		0.000
11:49:00 AM	0.2		0.000
11:50:00 AM	0.2		0.000
11:51:00 AM	0.2		0.000
11:52:00 AM	0.2		0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 9, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:53:00 AM	0.2		0.000
11:54:00 AM	0.2		0.000
11:55:00 AM	0.2		0.000
11:56:00 AM	0.2		0.000
11:57:00 AM	0.2		0.000
11:58:00 AM	0.2		0.000
11:59:00 AM	0.2		0.000
12:00:00 PM	0.2		0.000
12:01:00 PM	0.2		0.000
12:02:00 PM	0.2		0.000
12:03:00 PM	0.2		0.000
12:04:00 PM	0.2		0.000
12:05:00 PM	0.2		0.000
12:06:00 PM	0.2		0.000
12:07:00 PM	0.2		0.000
12:08:00 PM	0.2		0.000
12:09:00 PM	0.2		0.000
12:10:00 PM	0.2		0.000
12:11:00 PM	0.2		0.000
12:12:00 PM	0.2		0.000
12:13:00 PM	0.2		0.000
12:14:00 PM	0.2		0.000
12:15:00 PM	0.2		0.000
12:16:00 PM	0.2		0.000
12:17:00 PM	0.2		0.000
12:18:00 PM	0.2		0.000
12:19:00 PM	0.2		0.000
12:20:00 PM	0.2		0.000
12:21:00 PM	0.2		0.000
12:22:00 PM	0.2		0.000
12:23:00 PM	0.2		0.000
12:24:00 PM	0.2		0.000
12:25:00 PM	0.2		0.000
12:26:00 PM	0.2		0.000
12:27:00 PM	0.2		0.000
12:28:00 PM	0.2		0.000
12:29:00 PM	0.2		0.000
12:30:00 PM	0.2		0.000
12:31:00 PM	0.2		0.000
12:32:00 PM	0.2		0.000
12:33:00 PM	0.2		0.000
12:34:00 PM	0.2		0.000
12:35:00 PM	0.2		0.000
12:36:00 PM	0.2		0.000
12:37:00 PM	0.2		0.000
12:38:00 PM	0.2		0.000
12:39:00 PM	0.2		0.000
12:40:00 PM	0.2		0.000
12:41:00 PM	0.2		0.000
12:42:00 PM	0.2		0.000
12:43:00 PM	0.2		0.000
12:44:00 PM	0.2		0.000
12:45:00 PM	0.2		0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 9, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:46:00 PM	0.2		0.000
12:47:00 PM	0.2		0.000
12:48:00 PM	0.2		0.000
12:49:00 PM	0.2		0.000
12:50:00 PM	0.2		0.000
12:51:00 PM	0.2		0.000
12:52:00 PM	0.2		0.000
12:53:00 PM	0.2		0.000
12:54:00 PM	0.2		0.000
12:55:00 PM	0.2		0.000
12:56:00 PM	0.2		0.000
12:57:00 PM	0.2		0.000
12:58:00 PM	0.2		0.000
12:59:00 PM	0.2		0.000
1:00:00 PM	0.2		0.000
1:01:00 PM	0.2		0.000
1:02:00 PM	0.2		0.000
1:03:00 PM	0.2		0.000
1:04:00 PM	0.2		0.000
1:05:00 PM	0.2		0.000
1:06:00 PM	0.2		0.000
1:07:00 PM	0.2		0.000
1:08:00 PM	0.2		0.000
1:09:00 PM	0.2		0.000
1:10:00 PM	0.2		0.000
1:11:00 PM	0.2		0.000
1:12:00 PM	0.2		0.000
1:13:00 PM	0.2		0.000
1:14:00 PM	0.2		0.000
1:15:00 PM	0.2		0.000
1:16:00 PM	0.2		0.000
1:17:00 PM	0.2		0.000
1:18:00 PM	0.2		0.000
1:19:00 PM	0.2		0.000
1:20:00 PM	0.2		0.000
1:21:00 PM	0.2		0.000
1:22:00 PM	0.2		0.000
1:23:00 PM	0.2		0.000
1:24:00 PM	0.2		0.000
1:25:00 PM	0.2		0.000
1:26:00 PM	0.2		0.000
1:27:00 PM	0.2		0.000
1:28:00 PM	0.2		0.000
1:29:00 PM	0.2		0.000
1:30:00 PM	0.2		0.000
1:31:00 PM	0.2		0.000
1:32:00 PM	0.2		0.000
1:33:00 PM	0.2		0.000
1:34:00 PM	0.2		0.000
1:35:00 PM	0.2		0.000
1:36:00 PM	0.2		0.000
1:37:00 PM	0.2		0.000
1:38:00 PM	0.2		0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 9, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:39:00 PM	0.2		0.000
1:40:00 PM	0.2		0.000
1:41:00 PM	0.2		0.000
1:42:00 PM	0.2		0.000
1:43:00 PM	0.2		0.000
1:44:00 PM	0.2		0.000
1:45:00 PM	0.2		0.000
1:46:00 PM	0.2		0.000
1:47:00 PM	0.2		0.000
1:48:00 PM	0.2		0.000
1:49:00 PM	0.2		0.000
1:50:00 PM	0.2		0.000
1:51:00 PM	0.2		0.000
1:52:00 PM	0.2		0.000
1:53:00 PM	0.2		0.000
1:54:00 PM	0.2		0.000
1:55:00 PM	0.2		0.000
1:56:00 PM	0.2		0.000
1:57:00 PM	0.2		0.000
1:58:00 PM	0.2		0.000
1:59:00 PM	0.2		0.000
2:00:00 PM	0.2		0.000
2:01:00 PM	0.2		0.000
2:02:00 PM	0.2		0.000
2:03:00 PM	0.2		0.000
2:04:00 PM	0.2		0.000
2:05:00 PM	0.2		0.000
2:06:00 PM	0.2		0.000
2:07:00 PM	0.2		0.000
2:08:00 PM	0.2		0.000
2:09:00 PM	0.2		0.000
2:10:00 PM	0.2		0.000
2:11:00 PM	0.2		0.000
2:12:00 PM	0.2		0.000
2:13:00 PM	0.2		0.000
2:14:00 PM	0.2		0.000
2:15:00 PM	0.2		0.000
2:16:00 PM	0.2		0.000
2:17:00 PM	0.1		0.000
2:18:00 PM	0.2		0.000
2:19:00 PM	0.2		0.000
2:20:00 PM	0.2		0.000
2:21:00 PM	0.1		0.000
2:22:00 PM	0.1		0.000
2:23:00 PM	0.1		0.000
2:24:00 PM	0.2		0.000
2:25:00 PM	0.2		0.000
2:26:00 PM	0.2		0.000
2:27:00 PM	0.2		0.000
2:28:00 PM	0.2		0.000
2:29:00 PM	0.2		0.000
2:30:00 PM	0.2		0.000
2:31:00 PM	0.2		0.000

November 9, 2020

[illegible]

LIRR Group D Substations

Bayside Substation

Downwind

November 9, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:03:00 AM	0.0		
11:04:00 AM	0.0	0.374	0.000
11:05:00 AM	0.0	0.325	0.000
11:06:00 AM	0.0	0.305	0.000
11:07:00 AM	0.0	0.290	0.000
11:08:00 AM	0.0	0.285	0.000
11:09:00 AM	0.0	0.277	0.000
11:10:00 AM	0.0	0.273	0.000
11:11:00 AM	0.0	0.267	0.000
11:12:00 AM	0.0	0.270	0.000
11:13:00 AM	0.0	0.267	0.000
11:14:00 AM	0.0	0.252	0.000
11:15:00 AM	0.0	0.244	0.000
11:16:00 AM	0.0	0.243	0.000
11:17:00 AM	0.0	0.247	0.000
11:18:00 AM	0.0	0.243	0.000
11:19:00 AM	0.0	0.239	0.000
11:20:00 AM	0.0	0.227	0.000
11:21:00 AM	0.0	0.223	0.000
11:22:00 AM	0.0	0.222	0.000
11:23:00 AM	0.0	0.233	0.000
11:24:00 AM	0.0	0.253	0.000
11:25:00 AM	0.0	0.245	0.000
11:26:00 AM	0.0	0.250	0.000
11:27:00 AM	0.0	0.247	0.000
11:28:00 AM	0.0	0.228	0.000
11:29:00 AM	0.0	0.228	0.000
11:30:00 AM	0.0	0.248	0.000
11:31:00 AM	0.0	0.321	0.000
11:32:00 AM	0.0	0.254	0.000
11:33:00 AM	0.0	0.254	0.000
11:34:00 AM	0.0	0.242	0.000
11:35:00 AM	0.0	0.249	0.000
11:36:00 AM	0.0	0.290	0.000
11:37:00 AM	0.0	0.247	0.000
11:38:00 AM	0.0	0.228	0.000
11:39:00 AM	0.0	0.228	0.000
11:40:00 AM	0.0	0.248	0.000
11:41:00 AM	0.0	0.321	0.000
11:42:00 AM	0.0	0.117	0.000
11:43:00 AM	0.0	0.117	0.000
11:44:00 AM	0.0	0.095	0.000
11:45:00 AM	0.0	0.092	0.000
11:46:00 AM	0.0	0.092	0.000
11:47:00 AM	0.0	0.094	0.000
11:48:00 AM	0.0	0.095	0.000
11:49:00 AM	0.0	0.095	0.000
11:50:00 AM	0.0	0.092	0.000
11:51:00 AM	0.0	0.089	0.000
11:52:00 AM	0.0	0.083	0.000
11:53:00 AM	0.0	0.081	0.000
11:54:00 AM	0.0	0.074	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 9, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:55:00 AM	0.0	0.068	0.000
11:56:00 AM	0.0	0.065	0.000
11:57:00 AM	0.0	0.082	0.000
11:58:00 AM	0.0	0.074	0.000
11:59:00 AM	0.0	0.064	0.000
12:00:00 PM	0.0	0.055	0.000
12:01:00 PM	0.0	0.052	0.000
12:02:00 PM	0.0	0.054	0.000
12:03:00 PM	0.0	0.058	0.000
12:04:00 PM	0.0	0.052	0.000
12:05:00 PM	0.0	0.055	0.000
12:06:00 PM	0.0	0.058	0.000
12:07:00 PM	0.0	0.050	0.000
12:08:00 PM	0.0	0.055	0.000
12:09:00 PM	0.0	0.058	0.000
12:10:00 PM	0.0	0.053	0.000
12:11:00 PM	0.0	0.053	0.000
12:12:00 PM	0.0	0.046	0.000
12:13:00 PM	0.0	0.051	0.000
12:14:00 PM	0.0	0.054	0.000
12:15:00 PM	0.0	0.051	0.000
12:16:00 PM	0.0	0.050	0.000
12:17:00 PM	0.0	0.045	0.000
12:18:00 PM	0.0	0.046	0.000
12:19:00 PM	0.0	0.046	0.000
12:20:00 PM	0.0	0.047	0.000
12:21:00 PM	0.0	0.043	0.000
12:22:00 PM	0.0	0.044	0.000
12:23:00 PM	0.0	0.050	0.000
12:24:00 PM	0.0	0.066	0.000
12:25:00 PM	0.0	0.051	0.000
12:26:00 PM	0.0	0.041	0.000
12:27:00 PM	0.0	0.039	0.000
12:28:00 PM	0.0	0.038	0.000
12:29:00 PM	0.0	0.039	0.000
12:30:00 PM	0.0	0.039	0.000
12:31:00 PM	0.1	0.039	0.000
12:32:00 PM	0.0	0.038	0.000
12:33:00 PM	0.0	0.040	0.000
12:34:00 PM	0.1	0.040	0.000
12:35:00 PM	0.0	0.039	0.000
12:36:00 PM	0.1	0.041	0.000
12:37:00 PM	0.1	0.043	0.000
12:38:00 PM	0.1	0.044	0.000
12:39:00 PM	0.1	0.043	0.000
12:40:00 PM	0.1	0.043	0.000
12:41:00 PM	0.1	0.044	0.000
12:42:00 PM	0.1	0.047	0.000
12:43:00 PM	0.1	0.048	0.000
12:44:00 PM	0.1	0.049	0.000
12:45:00 PM	0.1	0.051	0.000
12:46:00 PM	0.1	0.050	0.000
12:47:00 PM	0.1	0.048	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 9, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:48:00 PM	0.1	0.048	0.000
12:49:00 PM	0.1	0.047	0.000
12:50:00 PM	0.1	0.043	0.000
12:51:00 PM	0.1	0.041	0.000
12:52:00 PM	0.1	0.041	0.000
12:53:00 PM	0.1	0.043	0.000
12:54:00 PM	0.1	0.043	0.000
12:55:00 PM	0.1	0.044	0.000
12:56:00 PM	0.1	0.045	0.000
12:57:00 PM	0.1	0.053	0.000
12:58:00 PM	0.1	0.053	0.000
12:59:00 PM	0.1	0.050	0.000
1:00:00 PM	0.1	0.049	0.000
1:01:00 PM	0.1	0.050	0.000
1:02:00 PM	0.1	0.049	0.000
1:03:00 PM	0.1	0.048	0.000
1:04:00 PM	0.1	0.044	0.000
1:05:00 PM	0.1	0.041	0.000
1:06:00 PM	0.1	0.041	0.000
1:07:00 PM	0.1	0.045	0.000
1:08:00 PM	0.1	0.050	0.000
1:09:00 PM	0.1	0.053	0.000
1:10:00 PM	0.1	0.058	0.000
1:11:00 PM	0.1	0.061	0.000
1:12:00 PM	0.1	0.052	0.000
1:13:00 PM	0.1	0.056	0.000
1:14:00 PM	0.1	0.049	0.000
1:15:00 PM	0.1	0.051	0.000
1:16:00 PM	0.1	0.051	0.000
1:17:00 PM	0.1	0.055	0.000
1:18:00 PM	0.1	0.053	0.000
1:19:00 PM	0.1	0.050	0.000
1:20:00 PM	0.1	0.049	0.000
1:21:00 PM	0.1	0.048	0.000
1:22:00 PM	0.1	0.046	0.000
1:23:00 PM	0.1	0.043	0.000
1:24:00 PM	0.1	0.042	0.000
1:25:00 PM	0.1	0.039	0.000
1:26:00 PM	0.1	0.046	0.000
1:27:00 PM	0.1	0.047	0.000
1:28:00 PM	0.1	0.047	0.000
1:29:00 PM	0.1	0.039	0.000
1:30:00 PM	0.1	0.039	0.000
1:31:00 PM	0.1	0.038	0.000
1:32:00 PM	0.1	0.036	0.000
1:33:00 PM	0.1	0.041	0.000
1:34:00 PM	0.1	0.060	0.000
1:35:00 PM	0.1	0.057	0.000
1:36:00 PM	0.1	0.054	0.000
1:37:00 PM	0.1	0.046	0.000
1:38:00 PM	0.1	0.038	0.000
1:39:00 PM	0.1	0.038	0.000
1:40:00 PM	0.1	0.037	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 9, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:41:00 PM	0.1	0.037	0.000
1:42:00 PM	0.1	0.034	0.000
1:43:00 PM	0.1	0.041	0.000
1:44:00 PM	0.1	0.038	0.000
1:45:00 PM	0.1	0.041	0.000
1:46:00 PM	0.1	0.037	0.000
1:47:00 PM	0.1	0.033	0.000
1:48:00 PM	0.1	0.035	0.000
1:49:00 PM	0.1	0.037	0.000
1:50:00 PM	0.1	0.032	0.000
1:51:00 PM	0.1	0.028	0.000
1:52:00 PM	0.1	0.028	0.000
1:53:00 PM	0.1	0.030	0.000
1:54:00 PM	0.1	0.029	0.000
1:55:00 PM	0.1	0.050	0.000
1:56:00 PM	0.1	0.049	0.000
1:57:00 PM	0.1	0.032	0.000
1:58:00 PM	0.1	0.032	0.000
1:59:00 PM	0.1	0.031	0.000
2:00:00 PM	0.1	0.031	0.000
2:01:00 PM	0.1	0.033	0.000
2:02:00 PM	0.1	0.030	0.000
2:03:00 PM	0.1	0.028	0.000
2:04:00 PM	0.1	0.028	0.000
2:05:00 PM	0.1	0.028	0.000
2:06:00 PM	0.1	0.028	0.000
2:07:00 PM	0.1	0.028	0.000
2:08:00 PM	0.1	0.029	0.000
2:09:00 PM	0.1	0.030	0.000
2:10:00 PM	0.1	0.031	0.000
2:11:00 PM	0.1	0.029	0.000
2:12:00 PM	0.1	0.029	0.000
2:13:00 PM	0.1	0.030	0.000
2:14:00 PM	0.1	0.032	0.000
2:15:00 PM	0.1	0.036	0.000
2:16:00 PM	0.1	0.034	0.000
2:17:00 PM	0.1	0.033	0.000
2:18:00 PM	0.1	0.034	0.000
2:19:00 PM	0.1	0.033	0.000
2:20:00 PM	0.1	0.033	0.000
2:21:00 PM	0.1	0.030	0.000
2:22:00 PM	0.1	0.030	0.000
2:23:00 PM	0.1	0.029	0.000
2:24:00 PM	0.1	0.030	0.000
2:25:00 PM	0.1	0.031	0.000
2:26:00 PM	0.1	0.032	0.000
2:27:00 PM	0.1	0.043	0.000
2:28:00 PM	0.1	0.033	0.000
2:29:00 PM	0.1	0.050	0.000
2:30:00 PM	0.1	0.050	0.000
2:31:00 PM	0.1	0.037	0.000
2:32:00 PM	0.1	0.037	0.000
2:33:00 PM	0.1	0.039	0.000

November 9, 2020

[illegible]

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	X
TEMP.	< 32		32-50		50-70	X	70-85		>85	

Project No.:		Winds From SSW ~ 10 mph	Date:	11/10/20
Project Name:	LIRR Group D Substation Remediation-Bayside Site-V00388-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. Aarco continues to excavate soils within area #3. Aarco utilizing soil guzzler truck and hand digging methods to excavate around transformers. Aarco dumping excavated soils from guzzler truck onto stockpile located within in the eastern side of area #3. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site were sampled but not submitted for documentation sampling. Preferred collected endpoint BS-EP-10-B(4') from within area #3.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/ m ³)	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/m ³)
UP Wind	0.0	0.024	0.000	0.1	0.042	0.000
Down Wind	0.0	0.023	0.000	0.0	0.048	0.001
Work Zone	0.2	0.039	0.000	0.3	0.099	0.000

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- We will continue excavating area #3. And will start to backfill the southeastern corner.



Protecting transformers.



Utilizing guzzler truck to remove soils from area #3.

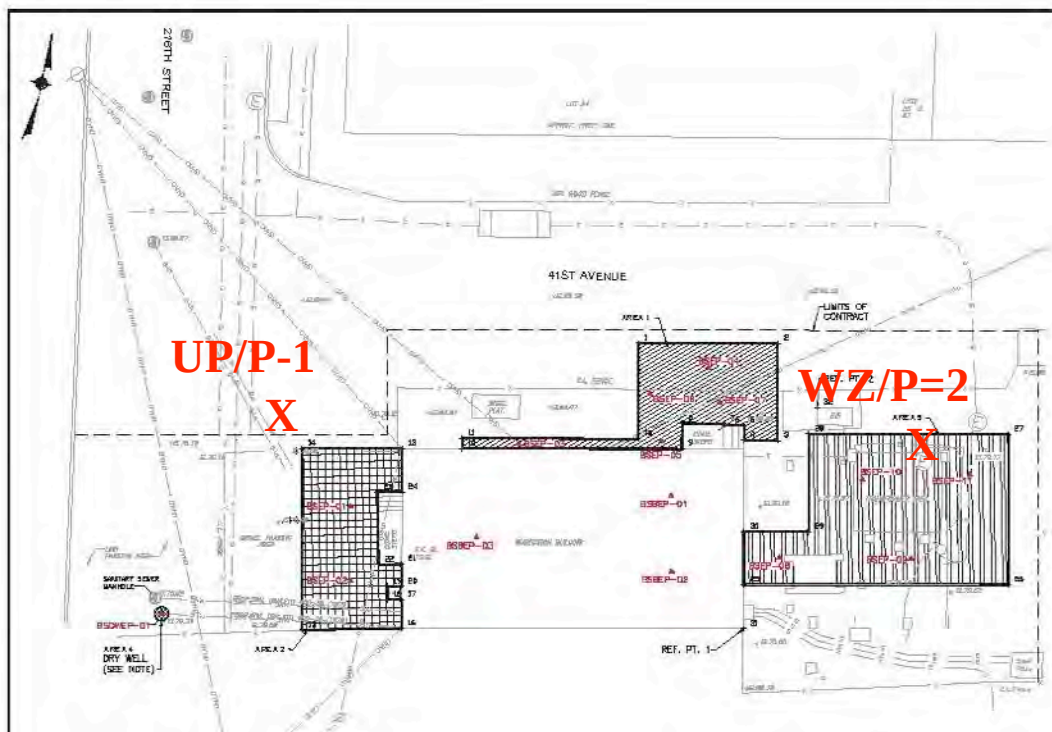


View of work zone monitor.



View of excavation in area #3.

Monitoring Locations



UP/P-1
X

WZ/P=2
X

DW/P-3
X

LIRR Group D Substations

Bayside Substation

Upwind

November 10, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
8:58:00 AM	0.0	0.1	0.000
8:59:00 AM	0.0	0.054	0.000
9:00:00 AM	0.0	0.052	0.000
9:01:00 AM	0.0	0.052	0.000
9:02:00 AM	0.0	0.049	0.000
9:03:00 AM	0.0	0.047	0.000
9:04:00 AM	0.0	0.047	0.000
9:05:00 AM	0.0	0.045	0.000
9:06:00 AM	0.0	0.043	0.000
9:07:00 AM	0.0	0.041	0.000
9:08:00 AM	0.0	0.040	0.000
9:09:00 AM	0.0	0.039	0.000
9:10:00 AM	0.0	0.038	0.000
9:11:00 AM	0.0	0.036	0.000
9:12:00 AM	0.0	0.036	0.000
9:13:00 AM	0.0	0.034	0.000
9:14:00 AM	0.0	0.033	0.000
9:15:00 AM	0.0	0.031	0.000
9:16:00 AM	0.0	0.031	0.000
9:17:00 AM	0.0	0.030	0.000
9:18:00 AM	0.0	0.029	0.000
9:19:00 AM	0.0	0.028	0.000
9:20:00 AM	0.0	0.028	0.000
9:21:00 AM	0.0	0.027	0.000
9:22:00 AM	0.0	0.027	0.000
9:23:00 AM	0.0	0.027	0.000
9:24:00 AM	0.0	0.026	0.000
9:25:00 AM	0.0	0.026	0.000
9:26:00 AM	0.0	0.026	0.000
9:27:00 AM	0.0	0.026	0.000
9:28:00 AM	0.0	0.026	0.000
9:29:00 AM	0.2	0.026	0.000
9:30:00 AM	0.0	0.026	0.000
9:31:00 AM	0.0	0.026	0.000
9:32:00 AM	0.0	0.026	0.000
9:33:00 AM	0.0	0.026	0.000
9:34:00 AM	0.0	0.025	0.000
9:35:00 AM	0.0	0.025	0.000
9:36:00 AM	0.0	0.025	0.000
9:37:00 AM	0.0	0.026	0.000
9:38:00 AM	0.0	0.025	0.000
9:39:00 AM	0.0	0.025	0.000
9:40:00 AM	0.0	0.024	0.000
9:41:00 AM	0.0	0.024	0.000
9:42:00 AM	0.0	0.024	0.000
9:43:00 AM	0.0	0.025	0.000
9:44:00 AM	0.0	0.024	0.000
9:45:00 AM	0.0	0.024	0.000
9:46:00 AM	0.0	0.024	0.000
9:47:00 AM	0.0	0.023	0.000
9:48:00 AM	0.0	0.024	0.000
9:49:00 AM	0.0	0.024	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 10, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
9:50:00 AM	0.0	0.023	0.000
9:51:00 AM	0.0	0.024	0.000
9:52:00 AM	0.0	0.024	0.000
9:53:00 AM	0.0	0.024	0.000
9:54:00 AM	0.0	0.023	0.000
9:55:00 AM	0.0	0.024	0.000
9:56:00 AM	0.0	0.023	0.000
9:57:00 AM	0.0	0.023	0.000
9:58:00 AM	0.0	0.024	0.000
9:59:00 AM	0.0	0.024	0.000
10:00:00 AM	0.0	0.024	0.000
10:01:00 AM	0.0	0.024	0.000
10:02:00 AM	0.0	0.024	0.000
10:03:00 AM	0.0	0.024	0.000
10:04:00 AM	0.0	0.024	0.000
10:05:00 AM	0.0	0.024	0.000
10:06:00 AM	0.0	0.023	0.000
10:07:00 AM	0.0	0.023	0.000
10:08:00 AM	0.0	0.023	0.000
10:09:00 AM	0.0	0.032	0.000
10:10:00 AM	0.0	0.023	0.000
10:11:00 AM	0.0	0.022	0.000
10:12:00 AM	0.1	0.024	0.000
10:13:00 AM	0.1	0.033	0.000
10:14:00 AM	0.0	0.035	0.000
10:15:00 AM	0.0	0.023	0.000
10:16:00 AM	0.0	0.022	0.000
10:17:00 AM	0.0	0.022	0.000
10:18:00 AM	0.0	0.023	0.000
10:19:00 AM	0.0	0.024	0.000
10:20:00 AM	0.0	0.023	0.000
10:21:00 AM	0.0	0.024	0.000
10:22:00 AM	0.0	0.024	0.000
10:23:00 AM	0.0	0.024	0.000
10:24:00 AM	0.0	0.024	0.000
10:25:00 AM	0.0	0.023	0.000
10:26:00 AM	0.0	0.023	0.000
10:27:00 AM	0.0	0.024	0.000
10:28:00 AM	0.0	0.024	0.000
10:29:00 AM	0.0	0.024	0.000
10:30:00 AM	0.0	0.023	0.000
10:31:00 AM	0.0	0.024	0.000
10:32:00 AM	0.0	0.024	0.000
10:33:00 AM	0.0	0.024	0.000
10:34:00 AM	0.0	0.024	0.000
10:35:00 AM	0.0	0.024	0.000
10:36:00 AM	0.0	0.023	0.000
10:37:00 AM	0.0	0.023	0.000
10:38:00 AM	0.0	0.022	0.000
10:39:00 AM	0.0	0.021	0.000
10:40:00 AM	0.0	0.020	0.000
10:41:00 AM	0.0	0.020	0.000
10:42:00 AM	0.0	0.019	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 10, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:43:00 AM	0.0	0.019	0.000
10:44:00 AM	0.0	0.018	0.000
10:45:00 AM	0.0	0.018	0.000
10:46:00 AM	0.0	0.018	0.000
10:47:00 AM	0.0	0.018	0.000
10:48:00 AM	0.0	0.018	0.000
10:49:00 AM	0.0	0.018	0.000
10:50:00 AM	0.0	0.019	0.000
10:51:00 AM	0.0	0.018	0.000
10:52:00 AM	0.0	0.018	0.000
10:53:00 AM	0.0	0.018	0.000
10:54:00 AM	0.0	0.018	0.000
10:55:00 AM	0.0	0.018	0.000
10:56:00 AM	0.0	0.018	0.000
10:57:00 AM	0.0	0.018	0.000
10:58:00 AM	0.0	0.017	0.000
10:59:00 AM	0.0	0.018	0.000
11:00:00 AM	0.0	0.018	0.000
11:01:00 AM	0.0	0.018	0.000
11:02:00 AM	0.0	0.019	0.000
11:03:00 AM	0.0	0.019	0.000
11:04:00 AM	0.0	0.019	0.000
11:05:00 AM	0.0	0.019	0.000
11:06:00 AM	0.0	0.019	0.000
11:07:00 AM	0.0	0.019	0.000
11:08:00 AM	0.0	0.019	0.000
11:09:00 AM	0.0	0.019	0.000
11:10:00 AM	0.0	0.019	0.000
11:11:00 AM	0.0	0.019	0.000
11:12:00 AM	0.0	0.019	0.000
11:13:00 AM	0.0	0.019	0.000
11:14:00 AM	0.0	0.019	0.000
11:15:00 AM	0.0	0.019	0.000
11:16:00 AM	0.0	0.020	0.000
11:17:00 AM	0.0	0.020	0.000
11:18:00 AM	0.0	0.020	0.000
11:19:00 AM	0.0	0.018	0.000
11:20:00 AM	0.0	0.018	0.000
11:21:00 AM	0.0	0.018	0.000
11:22:00 AM	0.0	0.018	0.000
11:23:00 AM	0.0	0.017	0.000
11:24:00 AM	0.0	0.018	0.000
11:25:00 AM	0.0	0.018	0.000
11:26:00 AM	0.0	0.018	0.000
11:27:00 AM	0.2	0.018	0.000
11:28:00 AM	0.0	0.018	0.000
11:29:00 AM	0.0	0.017	0.000
11:30:00 AM	0.0	0.017	0.000
11:31:00 AM	0.0	0.017	0.000
11:32:00 AM	0.0	0.017	0.000
11:33:00 AM	0.0	0.018	0.000
11:34:00 AM	0.0	0.019	0.000
11:35:00 AM	0.0	0.019	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 10, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:36:00 AM	0.0	0.018	0.000
11:37:00 AM	0.0	0.019	0.000
11:38:00 AM	0.0	0.020	0.000
11:39:00 AM	0.0	0.020	0.000
11:40:00 AM	0.2	0.020	0.000
11:41:00 AM	0.0	0.021	0.000
11:42:00 AM	0.0	0.019	0.000
11:43:00 AM	0.0	0.019	0.000
11:44:00 AM	0.0	0.020	0.000
11:45:00 AM	0.0	0.021	0.000
11:46:00 AM	0.0	0.021	0.000
11:47:00 AM	0.0	0.021	0.000
11:48:00 AM	0.0	0.022	0.000
11:49:00 AM	0.0	0.021	0.000
11:50:00 AM	0.0	0.022	0.000
11:51:00 AM	0.0	0.022	0.000
11:52:00 AM	0.0	0.022	0.000
11:53:00 AM	0.0	0.021	0.000
11:54:00 AM	0.0	0.021	0.000
11:55:00 AM	0.0	0.022	0.000
11:56:00 AM	0.0	0.022	0.000
11:57:00 AM	0.0	0.022	0.000
11:58:00 AM	0.0	0.022	0.000
11:59:00 AM	0.0	0.021	0.000
12:00:00 PM	0.0	0.022	0.000
12:01:00 PM	0.0	0.022	0.000
12:02:00 PM	0.0	0.022	0.000
12:03:00 PM	0.0	0.021	0.000
12:04:00 PM	0.0	0.021	0.000
12:05:00 PM	0.0	0.022	0.000
12:06:00 PM	0.0	0.022	0.000
12:07:00 PM	0.0	0.021	0.000
12:08:00 PM	0.0	0.020	0.000
12:09:00 PM	0.0	0.020	0.000
12:10:00 PM	0.0	0.020	0.000
12:11:00 PM	0.0	0.020	0.000
12:12:00 PM	0.0	0.020	0.000
12:13:00 PM	0.0	0.019	0.000
12:14:00 PM	0.0	0.017	0.000
12:15:00 PM	0.0	0.017	0.000
12:16:00 PM	0.0	0.018	0.000
12:17:00 PM	0.0	0.018	0.000
12:18:00 PM	0.0	0.019	0.000
12:19:00 PM	0.0	0.019	0.000
12:20:00 PM	0.0	0.019	0.000
12:21:00 PM	0.0	0.019	0.000
12:22:00 PM	0.0	0.019	0.000
12:23:00 PM	0.0	0.019	0.000
12:24:00 PM	0.0	0.019	0.000
12:25:00 PM	0.0	0.018	0.000
12:26:00 PM	0.0	0.018	0.000
12:27:00 PM	0.0	0.018	0.000
12:28:00 PM	0.0	0.018	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 10, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:29:00 PM	0.0	0.018	0.000
12:30:00 PM	0.0	0.018	0.000
12:31:00 PM	0.0	0.017	0.000
12:32:00 PM	0.0	0.018	0.000
12:33:00 PM	0.0	0.018	0.000
12:34:00 PM	0.0	0.018	0.000
12:35:00 PM	0.0	0.017	0.000
12:36:00 PM	0.0	0.017	0.000
12:37:00 PM	0.0	0.018	0.000
12:38:00 PM	0.0	0.018	0.000
12:39:00 PM	0.0	0.018	0.000
12:40:00 PM	0.0	0.018	0.000
12:41:00 PM	0.0	0.018	0.000
12:42:00 PM	0.0	0.018	0.000
12:43:00 PM	0.0	0.019	0.000
12:44:00 PM	0.0	0.019	0.000
12:45:00 PM	0.0	0.019	0.000
12:46:00 PM	0.0	0.019	0.000
12:47:00 PM	0.0	0.019	0.000
12:48:00 PM	0.0	0.019	0.000
12:49:00 PM	0.0	0.019	0.000
12:50:00 PM	0.0	0.020	0.000
12:51:00 PM	0.0	0.019	0.000
12:52:00 PM	0.0	0.019	0.000
12:53:00 PM	0.0	0.019	0.000
12:54:00 PM	0.0	0.019	0.000
12:55:00 PM	0.0	0.019	0.000
12:56:00 PM	0.0	0.019	0.000
12:57:00 PM	0.0	0.019	0.000
12:58:00 PM	0.0	0.020	0.000
12:59:00 PM	0.0	0.020	0.000
1:00:00 PM	0.0	0.020	0.000
1:01:00 PM	0.0	0.020	0.000
1:02:00 PM	0.0	0.020	0.000
1:03:00 PM	0.0	0.020	0.000
1:04:00 PM	0.0	0.019	0.000
1:05:00 PM	0.0	0.020	0.000
1:06:00 PM	0.0	0.020	0.000
1:07:00 PM	0.0	0.020	0.000
1:08:00 PM	0.0	0.020	0.000
1:09:00 PM	0.0	0.020	0.000
1:10:00 PM	0.0	0.019	0.000
1:11:00 PM	0.0	0.019	0.000
1:12:00 PM	0.0	0.019	0.000
1:13:00 PM	0.0	0.019	0.000
1:14:00 PM	0.0	0.019	0.000
1:15:00 PM	0.0	0.018	0.000
1:16:00 PM	0.0	0.019	0.000
1:17:00 PM	0.0	0.019	0.000
1:18:00 PM	0.0	0.020	0.000
1:19:00 PM	0.0	0.019	0.000
1:20:00 PM	0.0	0.019	0.000
1:21:00 PM	0.0	0.019	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 10, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:22:00 PM	0.0	0.019	0.000
1:23:00 PM	0.0	0.021	0.000
1:24:00 PM	0.0	0.021	0.000
1:25:00 PM	0.0	0.021	0.000
1:26:00 PM	0.0	0.020	0.000
1:27:00 PM	0.0	0.019	0.000
1:28:00 PM	0.0	0.019	0.000
1:29:00 PM	0.0	0.019	0.000
1:30:00 PM	0.0	0.019	0.000
1:31:00 PM	0.0	0.020	0.000
1:32:00 PM	0.0	0.020	0.000
1:33:00 PM	0.0	0.019	0.000
1:34:00 PM	0.0	0.019	0.000
1:35:00 PM	0.0	0.019	0.000
1:36:00 PM	0.0	0.020	0.000
1:37:00 PM	0.0	0.019	0.000
1:38:00 PM	0.0	0.020	0.000
1:39:00 PM	0.0	0.020	0.000
1:40:00 PM	0.0	0.020	0.000
1:41:00 PM	0.0	0.022	0.000
1:42:00 PM	0.0	0.021	0.000
1:43:00 PM	0.0	0.021	0.000
1:44:00 PM	0.0	0.020	0.000
1:45:00 PM	0.0	0.020	0.000
1:46:00 PM	0.0	0.019	0.000
1:47:00 PM	0.0	0.019	0.000
1:48:00 PM	0.0	0.019	0.000
1:49:00 PM	0.0	0.019	0.000
1:50:00 PM	0.0	0.019	0.000
1:51:00 PM	0.0	0.018	0.000
1:52:00 PM	0.0	0.018	0.000
1:53:00 PM	0.0	0.019	0.000
1:54:00 PM	0.0	0.019	0.000
1:55:00 PM	0.0	0.019	0.000
1:56:00 PM	0.0	0.019	0.000
1:57:00 PM	0.0	0.018	0.000
1:58:00 PM	0.0	0.019	0.000
1:59:00 PM	0.0	0.019	0.000
2:00:00 PM	0.0	0.019	0.000
2:01:00 PM	0.0	0.019	0.000
2:02:00 PM	0.0	0.019	0.000
2:03:00 PM	0.0	0.018	0.000
2:04:00 PM	0.0	0.018	0.000
2:05:00 PM	0.0	0.018	0.000
2:06:00 PM	0.0	0.018	0.000
2:07:00 PM	0.0	0.019	0.000
2:08:00 PM	0.0	0.018	0.000
2:09:00 PM	0.0	0.018	0.000
2:10:00 PM	0.0	0.018	0.000
2:11:00 PM	0.0	0.017	0.000
2:12:00 PM	0	0.017	0
2:13:00 PM	0	0.017	0
2:14:00 PM	0	0.018	0

LIRR Group D Substations

Bayside Substation

Upwind

November 10, 2020

[illegible]

LIRR Group D Substations

Bayside Substation

Work Zone

November 10, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:01:00 AM	0.1	0.101	0.004
10:02:00 AM	0.1	0.101	0.001
10:03:00 AM	0.1	0.029	0.000
10:04:00 AM	0.2	0.028	0.000
10:05:00 AM	0.2	0.027	0.000
10:06:00 AM	0.2	0.026	0.000
10:07:00 AM	0.1	0.026	0.000
10:08:00 AM	0.1	0.026	0.000
10:09:00 AM	0.1	0.028	0.000
10:10:00 AM	0.1	0.032	0.000
10:11:00 AM	0.1	0.025	0.000
10:12:00 AM	0.1	0.025	0.000
10:13:00 AM	0.1	0.028	0.000
10:14:00 AM	0.1	0.033	0.000
10:15:00 AM	0.1	0.026	0.000
10:16:00 AM	0.1	0.027	0.000
10:17:00 AM	0.1	0.025	0.000
10:18:00 AM	0.1	0.024	0.000
10:19:00 AM	0.1	0.027	0.000
10:20:00 AM	0.1	0.026	0.000
10:21:00 AM	0.1	0.025	0.000
10:22:00 AM	0.1	0.026	0.000
10:23:00 AM	0.1	0.025	0.000
10:24:00 AM	0.1	0.025	0.000
10:25:00 AM	0.2	0.025	0.000
10:26:00 AM	0.2	0.025	0.000
10:27:00 AM	0.2	0.026	0.000
10:28:00 AM	0.2	0.025	0.000
10:29:00 AM	0.2	0.025	0.000
10:30:00 AM	0.2	0.026	0.000
10:31:00 AM	0.2	0.026	0.000
10:32:00 AM	0.2	0.026	0.000
10:33:00 AM	0.2	0.031	0.000
10:34:00 AM	0.2	0.027	0.000
10:35:00 AM	0.2	0.042	0.000
10:36:00 AM	0.2	0.225	0.000
10:37:00 AM	0.2	0.215	0.000
10:38:00 AM	0.2	0.157	0.000
10:39:00 AM	0.2	0.117	0.000
10:40:00 AM	0.2	0.073	0.000
10:41:00 AM	0.2	0.075	0.000
10:42:00 AM	0.2	0.072	0.000
10:43:00 AM	0.2	0.075	0.000
10:44:00 AM	0.2	0.106	0.000
10:45:00 AM	0.2	0.050	0.000
10:46:00 AM	0.2	0.083	0.000
10:47:00 AM	0.2	0.057	0.000
10:48:00 AM	0.2	0.095	0.000
10:49:00 AM	0.2	0.073	0.000
10:50:00 AM	0.2	0.075	0.000
10:51:00 AM	0.2	0.039	0.000
10:52:00 AM	0.2	0.043	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 10, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:53:00 AM	0.2	0.052	0.000
10:54:00 AM	0.2	0.035	0.000
10:55:00 AM	0.2	0.041	0.000
10:56:00 AM	0.2	0.048	0.000
10:57:00 AM	0.2	0.033	0.000
10:58:00 AM	0.2	0.052	0.000
10:59:00 AM	0.2	0.053	0.000
11:00:00 AM	0.2	0.066	0.000
11:01:00 AM	0.2	0.049	0.000
11:02:00 AM	0.2	0.057	0.000
11:03:00 AM	0.2	0.062	0.000
11:04:00 AM	0.2	0.037	0.000
11:05:00 AM	0.2	0.027	0.000
11:06:00 AM	0.2	0.053	0.000
11:07:00 AM	0.2	0.062	0.000
11:08:00 AM	0.2	0.055	0.000
11:09:00 AM	0.2	0.041	0.000
11:10:00 AM	0.3	0.042	0.000
11:11:00 AM	0.2	0.066	0.000
11:12:00 AM	0.2	0.053	0.000
11:13:00 AM	0.3	0.029	0.000
11:14:00 AM	0.2	0.055	0.000
11:15:00 AM	0.3	0.053	0.000
11:16:00 AM	0.2	0.051	0.000
11:17:00 AM	0.3	0.033	0.000
11:18:00 AM	0.2	0.047	0.000
11:19:00 AM	0.2	0.048	0.000
11:20:00 AM	0.2	0.050	0.000
11:21:00 AM	0.3	0.057	0.000
11:22:00 AM	0.2	0.070	0.000
11:23:00 AM	0.3	0.056	0.000
11:24:00 AM	0.2	0.062	0.000
11:25:00 AM	0.2	0.059	0.000
11:26:00 AM	0.3	0.051	0.000
11:27:00 AM	0.2	0.070	0.000
11:28:00 AM	0.2	0.047	0.000
11:29:00 AM	0.2	0.030	0.000
11:30:00 AM	0.3	0.028	0.000
11:31:00 AM	0.2	0.066	0.000
11:32:00 AM	0.2	0.037	0.000
11:33:00 AM	0.2	0.043	0.000
11:34:00 AM	0.2	0.035	0.000
11:35:00 AM	0.2	0.060	0.000
11:36:00 AM	0.2	0.053	0.000
11:37:00 AM	0.2	0.051	0.000
11:38:00 AM	0.2	0.065	0.000
11:39:00 AM	0.2	0.048	0.000
11:40:00 AM	0.2	0.041	0.000
11:41:00 AM	0.2	0.043	0.000
11:42:00 AM	0.2	0.038	0.000
11:43:00 AM	0.2	0.047	0.000
11:44:00 AM	0.2	0.032	0.000
11:45:00 AM	0.2	0.050	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 10, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:46:00 AM	0.2	0.037	0.000
11:47:00 AM	0.2	0.047	0.000
11:48:00 AM	0.2	0.025	0.000
11:49:00 AM	0.2	0.024	0.000
11:50:00 AM	0.2	0.024	0.000
11:51:00 AM	0.2	0.024	0.000
11:52:00 AM	0.2	0.022	0.000
11:53:00 AM	0.2	0.021	0.000
11:54:00 AM	0.2	0.021	0.000
11:55:00 AM	0.2	0.022	0.000
11:56:00 AM	0.2	0.022	0.000
11:57:00 AM	0.2	0.022	0.000
11:58:00 AM	0.2	0.022	0.000
11:59:00 AM	0.2	0.022	0.000
12:00:00 PM	0.2	0.021	0.000
12:01:00 PM	0.2	0.022	0.000
12:02:00 PM	0.2	0.021	0.000
12:03:00 PM	0.2	0.021	0.000
12:04:00 PM	0.2	0.021	0.000
12:05:00 PM	0.2	0.022	0.000
12:06:00 PM	0.2	0.022	0.000
12:07:00 PM	0.2	0.022	0.000
12:08:00 PM	0.2	0.021	0.000
12:09:00 PM	0.2	0.020	0.000
12:10:00 PM	0.2	0.020	0.000
12:11:00 PM	0.2	0.020	0.000
12:12:00 PM	0.2	0.020	0.000
12:13:00 PM	0.2	0.020	0.000
12:14:00 PM	0.2	0.020	0.000
12:15:00 PM	0.2	0.017	0.000
12:16:00 PM	0.2	0.018	0.000
12:17:00 PM	0.2	0.018	0.000
12:18:00 PM	0.2	0.018	0.000
12:19:00 PM	0.3	0.019	0.000
12:20:00 PM	0.2	0.019	0.000
12:21:00 PM	0.2	0.019	0.000
12:22:00 PM	0.2	0.018	0.000
12:23:00 PM	0.2	0.018	0.000
12:24:00 PM	0.2	0.018	0.000
12:25:00 PM	0.2	0.017	0.000
12:26:00 PM	0.2	0.017	0.000
12:27:00 PM	0.2	0.017	0.000
12:28:00 PM	0.2	0.016	0.000
12:29:00 PM	0.3	0.016	0.000
12:30:00 PM	0.3	0.017	0.000
12:31:00 PM	0.3	0.017	0.000
12:32:00 PM	0.3	0.019	0.000
12:33:00 PM	0.3	0.018	0.000
12:34:00 PM	0.3	0.018	0.000
12:35:00 PM	0.3	0.017	0.000
12:36:00 PM	0.3	0.018	0.000
12:37:00 PM	0.3	0.018	0.000
12:38:00 PM	0.2	0.018	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 10, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:39:00 PM	0.2	0.019	0.000
12:40:00 PM	0.2	0.019	0.000
12:41:00 PM	0.2	0.018	0.000
12:42:00 PM	0.2	0.018	0.000
12:43:00 PM	0.2	0.018	0.000
12:44:00 PM	0.2	0.019	0.000
12:45:00 PM	0.2	0.019	0.000
12:46:00 PM	0.2	0.019	0.000
12:47:00 PM	0.2	0.019	0.000
12:48:00 PM	0.2	0.019	0.000
12:49:00 PM	0.2	0.020	0.000
12:50:00 PM	0.2	0.020	0.000
12:51:00 PM	0.2	0.020	0.000
12:52:00 PM	0.2	0.019	0.000
12:53:00 PM	0.2	0.020	0.000
12:54:00 PM	0.2	0.020	0.000
12:55:00 PM	0.2	0.019	0.000
12:56:00 PM	0.2	0.019	0.000
12:57:00 PM	0.2	0.019	0.000
12:58:00 PM	0.2	0.019	0.000
12:59:00 PM	0.2	0.019	0.000
1:00:00 PM	0.2	0.019	0.000
1:01:00 PM	0.2	0.020	0.000
1:02:00 PM	0.2	0.020	0.000
1:03:00 PM	0.2	0.020	0.000
1:04:00 PM	0.2	0.020	0.000
1:05:00 PM	0.2	0.020	0.000
1:06:00 PM	0.2	0.020	0.000
1:07:00 PM	0.2	0.020	0.000
1:08:00 PM	0.2	0.019	0.000
1:09:00 PM	0.2	0.020	0.000
1:10:00 PM	0.2	0.019	0.000
1:11:00 PM	0.2	0.019	0.000
1:12:00 PM	0.2	0.019	0.000
1:13:00 PM	0.2	0.019	0.000
1:14:00 PM	0.2	0.019	0.000
1:15:00 PM	0.2	0.019	0.000
1:16:00 PM	0.2	0.019	0.000
1:17:00 PM	0.2	0.020	0.000
1:18:00 PM	0.2	0.021	0.000
1:19:00 PM	0.2	0.020	0.000
1:20:00 PM	0.2	0.019	0.000
1:21:00 PM	0.2	0.019	0.000
1:22:00 PM	0.2	0.020	0.000
1:23:00 PM	0.2	0.020	0.000
1:24:00 PM	0.2	0.020	0.000
1:25:00 PM	0.2	0.022	0.000
1:26:00 PM	0.2	0.020	0.000
1:27:00 PM	0.2	0.019	0.000
1:28:00 PM	0.2	0.020	0.000
1:29:00 PM	0.2	0.021	0.000
1:30:00 PM	0.2	0.021	0.000
1:31:00 PM	0.2	0.020	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 10, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:32:00 PM	0.2	0.020	0.000
1:33:00 PM	0.2	0.020	0.000
1:34:00 PM	0.2	0.020	0.000
1:35:00 PM	0.2	0.019	0.000
1:36:00 PM	0.2	0.020	0.000
1:37:00 PM	0.2	0.021	0.000
1:38:00 PM	0.2	0.020	0.000
1:39:00 PM	0.2	0.021	0.000
1:40:00 PM	0.2	0.022	0.000
1:41:00 PM	0.2	0.022	0.000
1:42:00 PM	0.2	0.022	0.000
1:43:00 PM	0.2	0.021	0.000
1:44:00 PM	0.2	0.020	0.000
1:45:00 PM	0.2	0.020	0.000
1:46:00 PM	0.2	0.019	0.000
1:47:00 PM	0.2	0.020	0.000
1:48:00 PM	0.2	0.020	0.000
1:49:00 PM	0.2	0.020	0.000
1:50:00 PM	0.2	0.020	0.000
1:51:00 PM	0.2	0.019	0.000
1:52:00 PM	0.2	0.019	0.000
1:53:00 PM	0.2	0.020	0.000
1:54:00 PM	0.2	0.020	0.000
1:55:00 PM	0.2	0.020	0.000
1:56:00 PM	0.2	0.020	0.000
1:57:00 PM	0.2	0.020	0.000
1:58:00 PM	0.2	0.020	0.000
1:59:00 PM	0.2	0.020	0.000
2:00:00 PM	0.2	0.020	0.000
2:01:00 PM	0.2	0.020	0.000
2:02:00 PM	0.2	0.020	0.000
2:03:00 PM	0.2	0.020	0.000
2:04:00 PM	0.2	0.019	0.000
2:05:00 PM	0.2	0.019	0.000
2:06:00 PM	0.2	0.020	0.000
2:07:00 PM	0.2	0.019	0.000
2:08:00 PM	0.2	0.019	0.000
2:09:00 PM	0.2	0.019	0.000
2:10:00 PM	0.2	0.018	0.000
2:11:00 PM	0.2	0.018	0.000
2:12:00 PM	0.2	0.018	0.000
2:13:00 PM	0.2	0.019	0.000
2:14:00 PM	0.2	0.018	0.000
2:15:00 PM	0.2	0.018	0.000
2:16:00 PM	0.2	0.018	0.000
2:17:00 PM	0.2	0.018	0.000
2:18:00 PM	0.2	0.018	0.000
2:19:00 PM	0.2	0.018	0.000
2:20:00 PM	0.2	0.017	0.000
2:21:00 PM	0.2	0.017	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 10, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:02:00 AM	0.0	0.058	0.010
10:03:00 AM	0.0	0.029	0.003
10:04:00 AM	0.0	0.028	0.001
10:05:00 AM	0.0	0.028	0.000
10:06:00 AM	0.0	0.030	0.000
10:07:00 AM	0.0	0.029	0.000
10:08:00 AM	0.0	0.051	0.000
10:09:00 AM	0.0	0.028	0.000
10:10:00 AM	0.0	0.028	0.000
10:11:00 AM	0.0	0.028	0.000
10:12:00 AM	0.0	0.026	0.000
10:13:00 AM	0.0	0.030	0.000
10:14:00 AM	0.0	0.034	0.000
10:15:00 AM	0.0	0.029	0.000
10:16:00 AM	0.0	0.032	0.000
10:17:00 AM	0.0	0.026	0.000
10:18:00 AM	0.0	0.030	0.000
10:19:00 AM	0.0	0.027	0.000
10:20:00 AM	0.0	0.029	0.000
10:21:00 AM	0.0	0.029	0.000
10:22:00 AM	0.0	0.028	0.000
10:23:00 AM	0.0	0.027	0.000
10:24:00 AM	0.0	0.027	0.000
10:25:00 AM	0.0	0.027	0.000
10:26:00 AM	0.0	0.029	0.000
10:27:00 AM	0.0	0.027	0.000
10:28:00 AM	0.0	0.040	0.000
10:29:00 AM	0.0	0.027	0.000
10:30:00 AM	0.0	0.028	0.000
10:31:00 AM	0.0	0.033	0.000
10:32:00 AM	0.0	0.033	0.000
10:33:00 AM	0.0	0.028	0.000
10:34:00 AM	0.0	0.028	0.000
10:35:00 AM	0.0	0.027	0.000
10:36:00 AM	0.0	0.074	0.000
10:37:00 AM	0.0	0.073	0.000
10:38:00 AM	0.0	0.061	0.000
10:39:00 AM	0.0	0.070	0.000
10:40:00 AM	0.0	0.037	0.000
10:41:00 AM	0.0	0.040	0.000
10:42:00 AM	0.0	0.023	0.000
10:43:00 AM	0.0	0.035	0.000
10:44:00 AM	0.0	0.068	0.000
10:45:00 AM	0.0	0.049	0.000
10:46:00 AM	0.0	0.039	0.000
10:47:00 AM	0.0	0.033	0.000
10:48:00 AM	0.0	0.035	0.000
10:49:00 AM	0.0	0.041	0.000
10:50:00 AM	0.0	0.036	0.000
10:51:00 AM	0.0	0.024	0.000
10:52:00 AM	0.0	0.026	0.000
10:53:00 AM	0.0	0.022	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 10, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:54:00 AM	0.0	0.018	0.000
10:55:00 AM	0.0	0.019	0.000
10:56:00 AM	0.0	0.022	0.000
10:57:00 AM	0.0	0.026	0.000
10:58:00 AM	0.0	0.033	0.000
10:59:00 AM	0.0	0.031	0.000
11:00:00 AM	0.0	0.039	0.000
11:01:00 AM	0.0	0.025	0.000
11:02:00 AM	0.0	0.030	0.000
11:03:00 AM	0.0	0.031	0.000
11:04:00 AM	0.0	0.021	0.000
11:05:00 AM	0.0	0.021	0.000
11:06:00 AM	0.0	0.027	0.000
11:07:00 AM	0.0	0.030	0.000
11:08:00 AM	0.0	0.026	0.000
11:09:00 AM	0.0	0.027	0.000
11:10:00 AM	0.0	0.023	0.000
11:11:00 AM	0.0	0.030	0.000
11:12:00 AM	0.0	0.031	0.000
11:13:00 AM	0.0	0.020	0.000
11:14:00 AM	0.0	0.026	0.000
11:15:00 AM	0.0	0.026	0.000
11:16:00 AM	0.0	0.027	0.000
11:17:00 AM	0.0	0.020	0.000
11:18:00 AM	0.0	0.023	0.000
11:19:00 AM	0.0	0.018	0.000
11:20:00 AM	0.0	0.028	0.000
11:21:00 AM	0.0	0.025	0.000
11:22:00 AM	0.0	0.029	0.000
11:23:00 AM	0.0	0.028	0.000
11:24:00 AM	0.0	0.028	0.000
11:25:00 AM	0.0	0.029	0.000
11:26:00 AM	0.0	0.027	0.000
11:27:00 AM	0.0	0.027	0.000
11:28:00 AM	0.0	0.025	0.000
11:29:00 AM	0.0	0.019	0.000
11:30:00 AM	0.0	0.016	0.000
11:31:00 AM	0.0	0.022	0.000
11:32:00 AM	0.0	0.021	0.000
11:33:00 AM	0.0	0.020	0.000
11:34:00 AM	0.0	0.021	0.000
11:35:00 AM	0.0	0.026	0.000
11:36:00 AM	0.0	0.021	0.000
11:37:00 AM	0.0	0.025	0.000
11:38:00 AM	0.0	0.027	0.000
11:39:00 AM	0.0	0.023	0.000
11:40:00 AM	0.0	0.023	0.000
11:41:00 AM	0.0	0.029	0.000
11:42:00 AM	0.0	0.021	0.000
11:43:00 AM	0.0	0.029	0.000
11:44:00 AM	0.0	0.023	0.000
11:45:00 AM	0.0	0.027	0.000
11:46:00 AM	0.0	0.025	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 10, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:47:00 AM	0.0	0.034	0.000
11:48:00 AM	0.0	0.023	0.000
11:49:00 AM	0.0	0.022	0.000
11:50:00 AM	0.0	0.021	0.000
11:51:00 AM	0.0	0.026	0.000
11:52:00 AM	0.0	0.020	0.000
11:53:00 AM	0.0	0.021	0.000
11:54:00 AM	0.0	0.020	0.000
11:55:00 AM	0.0	0.020	0.000
11:56:00 AM	0.0	0.021	0.000
11:57:00 AM	0.0	0.021	0.000
11:58:00 AM	0.0	0.021	0.000
11:59:00 AM	0.0	0.020	0.000
12:00:00 PM	0.0	0.020	0.000
12:01:00 PM	0.0	0.021	0.000
12:02:00 PM	0.0	0.020	0.000
12:03:00 PM	0.1	0.020	0.000
12:04:00 PM	0.0	0.019	0.000
12:05:00 PM	0.0	0.019	0.000
12:06:00 PM	0.0	0.020	0.000
12:07:00 PM	0.0	0.020	0.000
12:08:00 PM	0.0	0.019	0.000
12:09:00 PM	0.0	0.019	0.000
12:10:00 PM	0.0	0.019	0.000
12:11:00 PM	0.0	0.019	0.000
12:12:00 PM	0.0	0.018	0.000
12:13:00 PM	0.0	0.017	0.000
12:14:00 PM	0.0	0.016	0.000
12:15:00 PM	0.0	0.016	0.000
12:16:00 PM	0.0	0.016	0.000
12:17:00 PM	0.0	0.016	0.000
12:18:00 PM	0.1	0.017	0.000
12:19:00 PM	0.0	0.017	0.000
12:20:00 PM	0.1	0.017	0.000
12:21:00 PM	0.0	0.018	0.000
12:22:00 PM	0.0	0.017	0.000
12:23:00 PM	0.0	0.017	0.000
12:24:00 PM	0.0	0.017	0.000
12:25:00 PM	0.0	0.016	0.000
12:26:00 PM	0.0	0.017	0.000
12:27:00 PM	0.0	0.016	0.000
12:28:00 PM	0.0	0.015	0.000
12:29:00 PM	0.0	0.016	0.000
12:30:00 PM	0.0	0.016	0.000
12:31:00 PM	0.0	0.016	0.000
12:32:00 PM	0.0	0.017	0.000
12:33:00 PM	0.0	0.016	0.000
12:34:00 PM	0.0	0.016	0.000
12:35:00 PM	0.0	0.016	0.000
12:36:00 PM	0.0	0.017	0.000
12:37:00 PM	0.0	0.016	0.000
12:38:00 PM	0.0	0.017	0.000
12:39:00 PM	0.0	0.018	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 10, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:40:00 PM	0.0	0.019	0.000
12:41:00 PM	0.0	0.017	0.000
12:42:00 PM	0.0	0.016	0.000
12:43:00 PM	0.0	0.017	0.000
12:44:00 PM	0.0	0.017	0.000
12:45:00 PM	0.0	0.018	0.000
12:46:00 PM	0.0	0.018	0.000
12:47:00 PM	0.0	0.017	0.000
12:48:00 PM	0.0	0.018	0.000
12:49:00 PM	0.0	0.018	0.000
12:50:00 PM	0.0	0.018	0.000
12:51:00 PM	0.1	0.019	0.000
12:52:00 PM	0.0	0.018	0.000
12:53:00 PM	0.0	0.019	0.000
12:54:00 PM	0.0	0.018	0.000
12:55:00 PM	0.0	0.017	0.000
12:56:00 PM	0.0	0.017	0.000
12:57:00 PM	0.0	0.017	0.000
12:58:00 PM	0.0	0.017	0.000
12:59:00 PM	0.0	0.018	0.000
1:00:00 PM	0.0	0.018	0.000
1:01:00 PM	0.0	0.017	0.000
1:02:00 PM	0.0	0.018	0.000
1:03:00 PM	0.0	0.018	0.000
1:04:00 PM	0.0	0.018	0.000
1:05:00 PM	0.0	0.018	0.000
1:06:00 PM	0.0	0.018	0.000
1:07:00 PM	0.0	0.018	0.000
1:08:00 PM	0.0	0.018	0.000
1:09:00 PM	0.0	0.018	0.000
1:10:00 PM	0.0	0.017	0.000
1:11:00 PM	0.0	0.017	0.000
1:12:00 PM	0.0	0.017	0.000
1:13:00 PM	0.0	0.017	0.000
1:14:00 PM	0.0	0.017	0.000
1:15:00 PM	0.0	0.017	0.000
1:16:00 PM	0.0	0.017	0.000
1:17:00 PM	0.0	0.019	0.000
1:18:00 PM	0.0	0.018	0.000
1:19:00 PM	0.0	0.017	0.000
1:20:00 PM	0.0	0.017	0.000
1:21:00 PM	0.0	0.018	0.000
1:22:00 PM	0.0	0.018	0.000
1:23:00 PM	0.0	0.017	0.000
1:24:00 PM	0.0	0.017	0.000
1:25:00 PM	0.0	0.018	0.000
1:26:00 PM	0.0	0.017	0.000
1:27:00 PM	0.0	0.017	0.000
1:28:00 PM	0.0	0.018	0.000
1:29:00 PM	0.0	0.017	0.000
1:30:00 PM	0.0	0.017	0.000
1:31:00 PM	0.0	0.017	0.000
1:32:00 PM	0.0	0.017	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 10, 2020

[illegible]

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain	X	Overcast	X	Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50		50-70	X	70-85		>85	

Project No.:		Winds From S ~ 10 mph	Date:	11/11/20
Project Name:	LIRR Group D Substation Remediation-Bayside Site-V00388-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. Aarco backfilling the areas within area #3 in ten (10) inch lifts utilizing a gas-powered compactor. Soil mechanics onsite to test compaction of each lift prior to continuing to backfill. All tests showing compaction equaling greater than 95%. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone until approximately 12:30 at which point it began to rain and Camp was discontinued. In addition, three locations along the perimeter of the site and two high risk workers were sampled and submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/ m ³)	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/m ³)
UP Wind	0.0	0.016	0.000	0.0	0.018	0.000
Down Wind	0.0	0.013	0.000	0.0	0.019	0.001
Work Zone	0.2	0.016	0.000	0.2	0.018	0.000

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- We will continue backfilling area #3 and loading out soils.



Sand utilized to backfill area #3.



Aarco installing PVC tube to allow survey of endpoint samples.

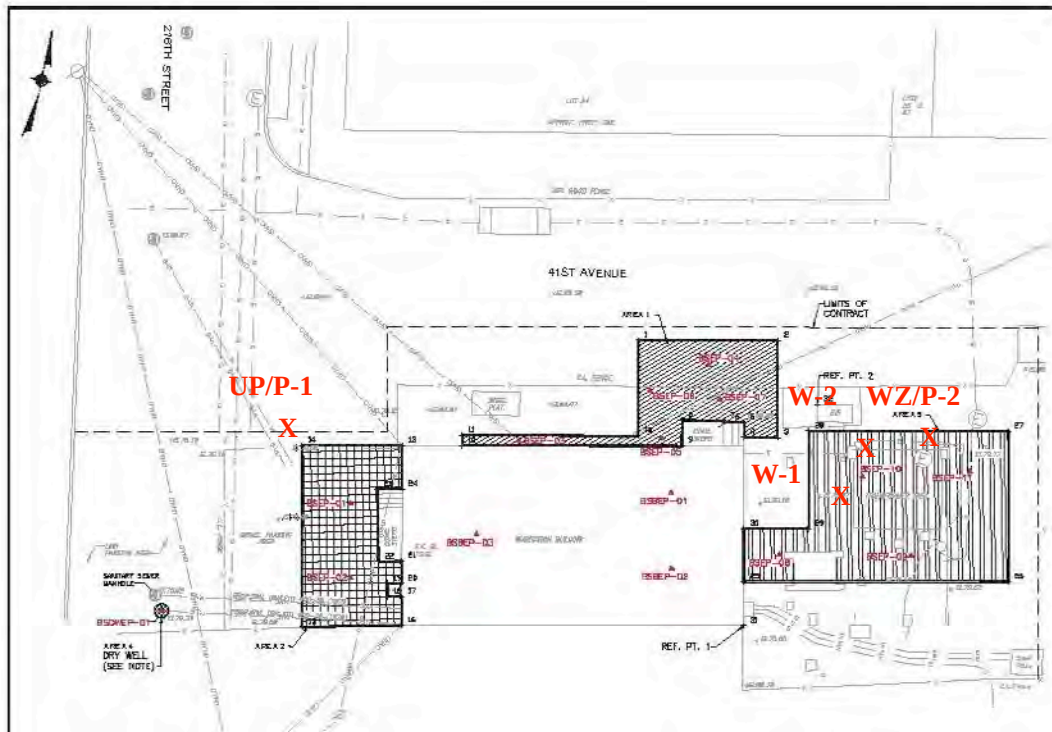


Soil Mechanics onsite to preform compaction testing.



Aarco compacting backfill in ten (10) inch lifts with compactor.

Monitoring Locations



LIRR Group D Substations

Bayside Substation

Upwind

November 11, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:01:00 AM	0.0	0.0	0.000
10:02:00 AM	0.0	0.016	0.000
10:03:00 AM	0.0	0.018	0.000
10:04:00 AM	0.0	0.017	0.000
10:05:00 AM	0.0	0.017	0.000
10:06:00 AM	0.0	0.016	0.000
10:07:00 AM	0.0	0.016	0.000
10:08:00 AM	0.0	0.016	0.000
10:09:00 AM	0.0	0.016	0.000
10:10:00 AM	0.0	0.020	0.000
10:11:00 AM	0.0	0.016	0.000
10:12:00 AM	0.0	0.016	0.000
10:13:00 AM	0.0	0.016	0.000
10:14:00 AM	0.0	0.016	0.000
10:15:00 AM	0.0	0.016	0.000
10:16:00 AM	0.0	0.017	0.000
10:17:00 AM	0.0	0.018	0.000
10:18:00 AM	0.0	0.018	0.000
10:19:00 AM	0.0	0.021	0.000
10:20:00 AM	0.0	0.020	0.000
10:21:00 AM	0.0	0.017	0.000
10:22:00 AM	0.0	0.017	0.000
10:23:00 AM	0.0	0.017	0.000
10:24:00 AM	0.0	0.016	0.000
10:25:00 AM	0.0	0.017	0.000
10:26:00 AM	0.0	0.017	0.000
10:27:00 AM	0.0	0.016	0.000
10:28:00 AM	0.0	0.016	0.000
10:29:00 AM	0.0	0.015	0.000
10:30:00 AM	0.0	0.016	0.000
10:31:00 AM	0.0	0.017	0.000
10:32:00 AM	0.0	0.018	0.000
10:33:00 AM	0.0	0.016	0.000
10:34:00 AM	0.0	0.018	0.000
10:35:00 AM	0.0	0.017	0.000
10:36:00 AM	0.0	0.016	0.000
10:37:00 AM	0.0	0.016	0.000
10:38:00 AM	0.0	0.017	0.000
10:39:00 AM	0.0	0.017	0.000
10:40:00 AM	0.0	0.016	0.000
10:41:00 AM	0.0	0.016	0.000
10:42:00 AM	0.0	0.015	0.000
10:43:00 AM	0.0	0.015	0.000
10:44:00 AM	0.0	0.016	0.000
10:45:00 AM	0.0	0.016	0.000
10:46:00 AM	0.0	0.016	0.000
10:47:00 AM	0.0	0.016	0.000
10:48:00 AM	0.0	0.017	0.000
10:49:00 AM	0.0	0.020	0.000
10:50:00 AM	0.0	0.021	0.000
10:51:00 AM	0.0	0.020	0.000
10:52:00 AM	0.0	0.019	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 11, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:53:00 AM	0.0	0.019	0.000
10:54:00 AM	0.0	0.018	0.000
10:55:00 AM	0.0	0.018	0.000
10:56:00 AM	0.0	0.017	0.000
10:57:00 AM	0.0	0.016	0.000
10:58:00 AM	0.0	0.014	0.000
10:59:00 AM	0.0	0.014	0.000
11:00:00 AM	0.0	0.014	0.000
11:01:00 AM	0.0	0.015	0.000
11:02:00 AM	0.0	0.014	0.000
11:03:00 AM	0.0	0.015	0.000
11:04:00 AM	0.0	0.014	0.000
11:05:00 AM	0.0	0.014	0.000
11:06:00 AM	0.0	0.014	0.000
11:07:00 AM	0.0	0.014	0.000
11:08:00 AM	0.0	0.013	0.000
11:09:00 AM	0.0	0.014	0.000
11:10:00 AM	0.0	0.014	0.000
11:11:00 AM	0.0	0.014	0.000
11:12:00 AM	0.0	0.014	0.000
11:13:00 AM	0.0	0.014	0.000
11:14:00 AM	0.0	0.014	0.000
11:15:00 AM	0.0	0.014	0.000
11:16:00 AM	0.0	0.015	0.000
11:17:00 AM	0.0	0.015	0.000
11:18:00 AM	0.0	0.015	0.000
11:19:00 AM	0.0	0.016	0.000
11:20:00 AM	0.0	0.016	0.000
11:21:00 AM	0.0	0.016	0.000
11:22:00 AM	0.0	0.015	0.000
11:23:00 AM	0.0	0.015	0.000
11:24:00 AM	0.0	0.015	0.000
11:25:00 AM	0.0	0.017	0.000
11:26:00 AM	0.0	0.018	0.000
11:27:00 AM	0.0	0.015	0.000
11:28:00 AM	0.0	0.015	0.000
11:29:00 AM	0.0	0.015	0.000
11:30:00 AM	0.0	0.015	0.000
11:31:00 AM	0.0	0.016	0.000
11:32:00 AM	0.0	0.015	0.000
11:33:00 AM	0.0	0.015	0.000
11:34:00 AM	0.0	0.014	0.000
11:35:00 AM	0.0	0.015	0.000
11:36:00 AM	0.0	0.015	0.000
11:37:00 AM	0.0	0.014	0.000
11:38:00 AM	0.0	0.015	0.000
11:39:00 AM	0.0	0.014	0.000
11:40:00 AM	0.0	0.014	0.000
11:41:00 AM	0.0	0.014	0.000
11:42:00 AM	0.0	0.015	0.000
11:43:00 AM	0.0	0.015	0.000
11:44:00 AM	0.0	0.015	0.000
11:45:00 AM	0.0	0.015	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 11, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:46:00 AM	0.0	0.014	0.000
11:47:00 AM	0.0	0.015	0.000
11:48:00 AM	0.0	0.015	0.000
11:49:00 AM	0.0	0.016	0.000
11:50:00 AM	0.0	0.016	0.000
11:51:00 AM	0.0	0.016	0.000
11:52:00 AM	0.0	0.017	0.000
11:53:00 AM	0.0	0.016	0.000
11:54:00 AM	0.0	0.016	0.000
11:55:00 AM	0.0	0.016	0.000
11:56:00 AM	0.0	0.016	0.000
11:57:00 AM	0.0	0.016	0.000
11:58:00 AM	0.0	0.016	0.000
11:59:00 AM	0.0	0.016	0.000
12:00:00 PM	0.0	0.016	0.000
12:01:00 PM	0.0	0.016	0.000
12:02:00 PM	0.0	0.017	0.000
12:03:00 PM	0.0	0.016	0.000
12:04:00 PM	0.0	0.016	0.000
12:05:00 PM	0.0	0.016	0.000
12:06:00 PM	0.0	0.016	0.000
12:07:00 PM	0.0	0.016	0.000
12:08:00 PM	0.0	0.015	0.000
12:09:00 PM	0.0	0.016	0.000
12:10:00 PM	0.0	0.015	0.000
12:11:00 PM	0.0	0.015	0.000
12:12:00 PM	0.0	0.015	0.000
12:13:00 PM	0.0	0.015	0.000
12:14:00 PM	0.0	0.015	0.000
12:15:00 PM	0.0	0.015	0.000
12:16:00 PM	0.0	0.015	0.000
12:17:00 PM	0.0	0.014	0.000
12:18:00 PM	0.0	0.014	0.000
12:19:00 PM	0.0	0.015	0.000
12:20:00 PM	0.0	0.027	0.000
12:21:00 PM	0.0	0.016	0.000
12:22:00 PM	0.0	0.014	0.000
12:23:00 PM	0.0	0.015	0.000
12:24:00 PM	0.0	0.015	0.000
12:25:00 PM	0.0	0.014	0.000
12:26:00 PM	0.0	0.014	0.000
12:27:00 PM	0.0	0.014	0.000
12:28:00 PM	0.0	0.014	0.000
12:29:00 PM	0.0	0.014	0.000
12:30:00 PM	0.0	0.014	0.000
12:31:00 PM	0.0	0.014	0.000
12:32:00 PM	0.0	0.015	0.000
12:33:00 PM	0.0	0.014	0.000
12:34:00 PM	0.0	0.014	0.000
12:35:00 PM	0.0	0.014	0.000
12:36:00 PM	0.0	0.013	0.000
12:37:00 PM	0.0	0.013	0.000
12:38:00 PM	0.0	0.014	0.000

November 11, 2020

[illegible]

LIRR Group D Substations

Bayside Substation

Work Zone

November 11, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
9:41:00 AM	0.0	0.030	0.000
9:42:00 AM	0.0	0.163	0.000
9:43:00 AM	0.0	0.030	0.000
9:44:00 AM	0.0	0.019	0.000
9:45:00 AM	0.0	0.018	0.000
9:46:00 AM	0.0	0.017	0.000
9:47:00 AM	0.0	0.022	0.000
9:48:00 AM	0.0	0.018	0.000
9:49:00 AM	0.0	0.016	0.000
9:50:00 AM	0.0	0.017	0.000
9:51:00 AM	0.0	0.017	0.000
9:52:00 AM	0.0	0.018	0.000
9:53:00 AM	0.0	0.017	0.000
9:54:00 AM	0.0	0.017	0.000
9:55:00 AM	0.1	0.016	0.000
9:56:00 AM	0.1	0.017	0.000
9:57:00 AM	0.1	0.016	0.000
9:58:00 AM	0.1	0.017	0.000
9:59:00 AM	0.1	0.018	0.000
10:00:00 AM	0.1	0.018	0.000
10:01:00 AM	0.1	0.017	0.000
10:02:00 AM	0.1	0.018	0.000
10:03:00 AM	0.1	0.017	0.000
10:04:00 AM	0.1	0.017	0.000
10:05:00 AM	0.1	0.016	0.000
10:06:00 AM	0.1	0.016	0.000
10:07:00 AM	0.1	0.016	0.000
10:08:00 AM	0.1	0.016	0.000
10:09:00 AM	0.1	0.015	0.000
10:10:00 AM	0.2	0.016	0.000
10:11:00 AM	0.2	0.015	0.000
10:12:00 AM	0.2	0.016	0.000
10:13:00 AM	0.2	0.015	0.000
10:14:00 AM	0.2	0.015	0.000
10:15:00 AM	0.2	0.015	0.000
10:16:00 AM	0.2	0.016	0.000
10:17:00 AM	0.2	0.016	0.000
10:18:00 AM	0.2	0.018	0.000
10:19:00 AM	0.2	0.019	0.000
10:20:00 AM	0.2	0.019	0.000
10:21:00 AM	0.2	0.018	0.000
10:22:00 AM	0.2	0.017	0.000
10:23:00 AM	0.2	0.016	0.000
10:24:00 AM	0.2	0.016	0.000
10:25:00 AM	0.2	0.016	0.000
10:26:00 AM	0.2	0.016	0.000
10:27:00 AM	0.2	0.016	0.000
10:28:00 AM	0.2	0.015	0.000
10:29:00 AM	0.2	0.015	0.000
10:30:00 AM	0.2	0.016	0.000
10:31:00 AM	0.2	0.016	0.000
10:32:00 AM	0.2	0.017	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 11, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:33:00 AM	0.2	0.015	0.000
10:34:00 AM	0.2	0.015	0.000
10:35:00 AM	0.2	0.014	0.000
10:36:00 AM	0.2	0.015	0.000
10:37:00 AM	0.2	0.014	0.000
10:38:00 AM	0.2	0.014	0.000
10:39:00 AM	0.2	0.013	0.000
10:40:00 AM	0.2	0.014	0.000
10:41:00 AM	0.2	0.014	0.000
10:42:00 AM	0.2	0.015	0.000
10:43:00 AM	0.2	0.015	0.000
10:44:00 AM	0.2	0.016	0.000
10:45:00 AM	0.2	0.016	0.000
10:46:00 AM	0.2	0.015	0.000
10:47:00 AM	0.2	0.016	0.000
10:48:00 AM	0.2	0.018	0.000
10:49:00 AM	0.2	0.019	0.000
10:50:00 AM	0.2	0.019	0.000
10:51:00 AM	0.2	0.018	0.000
10:52:00 AM	0.2	0.018	0.000
10:53:00 AM	0.2	0.018	0.000
10:54:00 AM	0.2	0.016	0.000
10:55:00 AM	0.2	0.015	0.000
10:56:00 AM	0.2	0.015	0.000
10:57:00 AM	0.2	0.014	0.000
10:58:00 AM	0.2	0.013	0.000
10:59:00 AM	0.2	0.013	0.000
11:00:00 AM	0.2	0.013	0.000
11:01:00 AM	0.2	0.013	0.000
11:02:00 AM	0.2	0.013	0.000
11:03:00 AM	0.2	0.013	0.000
11:04:00 AM	0.2	0.014	0.000
11:05:00 AM	0.2	0.014	0.000
11:06:00 AM	0.2	0.013	0.000
11:07:00 AM	0.2	0.013	0.000
11:08:00 AM	0.2	0.012	0.000
11:09:00 AM	0.2	0.013	0.000
11:10:00 AM	0.2	0.013	0.000
11:11:00 AM	0.2	0.013	0.000
11:12:00 AM	0.2	0.013	0.000
11:13:00 AM	0.2	0.013	0.000
11:14:00 AM	0.2	0.013	0.000
11:15:00 AM	0.2	0.012	0.000
11:16:00 AM	0.2	0.012	0.000
11:17:00 AM	0.2	0.014	0.000
11:18:00 AM	0.2	0.014	0.000
11:19:00 AM	0.2	0.014	0.000
11:20:00 AM	0.2	0.014	0.000
11:21:00 AM	0.2	0.014	0.000
11:22:00 AM	0.2	0.014	0.000
11:23:00 AM	0.2	0.014	0.000
11:24:00 AM	0.2	0.013	0.000
11:25:00 AM	0.2	0.013	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 11, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:26:00 AM	0.2	0.013	0.000
11:27:00 AM	0.2	0.013	0.000
11:28:00 AM	0.2	0.013	0.000
11:29:00 AM	0.2	0.013	0.000
11:30:00 AM	0.2	0.014	0.000
11:31:00 AM	0.2	0.014	0.000
11:32:00 AM	0.2	0.014	0.000
11:33:00 AM	0.2	0.013	0.000
11:34:00 AM	0.2	0.013	0.000
11:35:00 AM	0.2	0.013	0.000
11:36:00 AM	0.2	0.013	0.000
11:37:00 AM	0.2	0.013	0.000
11:38:00 AM	0.2	0.013	0.000
11:39:00 AM	0.2	0.013	0.000
11:40:00 AM	0.2	0.013	0.000
11:41:00 AM	0.2	0.013	0.000
11:42:00 AM	0.2	0.013	0.000
11:43:00 AM	0.2	0.014	0.000
11:44:00 AM	0.2	0.014	0.000
11:45:00 AM	0.2	0.014	0.000
11:46:00 AM	0.2	0.014	0.000
11:47:00 AM	0.2	0.014	0.000
11:48:00 AM	0.2	0.015	0.000
11:49:00 AM	0.2	0.015	0.000
11:50:00 AM	0.2	0.015	0.000
11:51:00 AM	0.2	0.016	0.000
11:52:00 AM	0.2	0.015	0.000
11:53:00 AM	0.2	0.015	0.000
11:54:00 AM	0.2	0.016	0.000
11:55:00 AM	0.2	0.015	0.000
11:56:00 AM	0.2	0.016	0.000
11:57:00 AM	0.2	0.016	0.000
11:58:00 AM	0.2	0.016	0.000
11:59:00 AM	0.2	0.016	0.000
12:00:00 PM	0.2	0.016	0.000
12:01:00 PM	0.2	0.016	0.000
12:02:00 PM	0.2	0.018	0.000
12:03:00 PM	0.2	0.016	0.000
12:04:00 PM	0.2	0.015	0.000
12:05:00 PM	0.2	0.015	0.000
12:06:00 PM	0.2	0.015	0.000
12:07:00 PM	0.2	0.015	0.000
12:08:00 PM	0.2	0.015	0.000
12:09:00 PM	0.2	0.014	0.000
12:10:00 PM	0.2	0.014	0.000
12:11:00 PM	0.2	0.015	0.000
12:12:00 PM	0.2	0.015	0.000
12:13:00 PM	0.2	0.014	0.000
12:14:00 PM	0.2	0.015	0.000
12:15:00 PM	0.2	0.014	0.000
12:16:00 PM	0.2	0.014	0.000
12:17:00 PM	0.2	0.013	0.000
12:18:00 PM	0.2	0.014	0.000

November 11, 2020

[illegible]

LIRR Group D Substations

Bayside Substation

Downwind

November 11, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
9:45:00 AM	0.0	0.019	0.009
9:46:00 AM	0.0	0.019	0.004
9:47:00 AM	0.0	0.019	0.000
9:48:00 AM	0.0	0.018	0.000
9:49:00 AM	0.0	0.019	0.000
9:50:00 AM	0.0	0.019	0.000
9:51:00 AM	0.0	0.020	0.000
9:52:00 AM	0.0	0.019	0.009
9:53:00 AM	0.0	0.019	0.004
9:54:00 AM	0.0	0.020	0.001
9:55:00 AM	0.0	0.020	0.000
9:56:00 AM	0.0	0.020	0.003
9:57:00 AM	0.0	0.019	0.000
9:58:00 AM	0.0	0.019	0.000
9:59:00 AM	0.0	0.018	0.000
10:00:00 AM	0.0	0.019	0.002
10:01:00 AM	0.0	0.019	0.000
10:02:00 AM	0.0	0.019	0.000
10:03:00 AM	0.0	0.019	0.000
10:04:00 AM	0.0	0.018	0.000
10:05:00 AM	0.0	0.018	0.000
10:06:00 AM	0.0	0.017	0.000
10:07:00 AM	0.0	0.017	0.000
10:08:00 AM	0.0	0.017	0.000
10:09:00 AM	0.0	0.017	0.000
10:10:00 AM	0.0	0.017	0.000
10:11:00 AM	0.0	0.016	0.000
10:12:00 AM	0.0	0.017	0.000
10:13:00 AM	0.0	0.017	0.000
10:14:00 AM	0.0	0.017	0.000
10:15:00 AM	0.0	0.018	0.000
10:16:00 AM	0.0	0.018	0.000
10:17:00 AM	0.0	0.018	0.000
10:18:00 AM	0.0	0.019	0.000
10:19:00 AM	0.0	0.021	0.000
10:20:00 AM	0.0	0.020	0.000
10:21:00 AM	0.0	0.018	0.000
10:22:00 AM	0.0	0.017	0.000
10:23:00 AM	0.0	0.018	0.000
10:24:00 AM	0.0	0.017	0.000
10:25:00 AM	0.0	0.017	0.000
10:26:00 AM	0.0	0.016	0.000
10:27:00 AM	0.0	0.016	0.000
10:28:00 AM	0.0	0.016	0.000
10:29:00 AM	0.0	0.015	0.000
10:30:00 AM	0.0	0.015	0.000
10:31:00 AM	0.0	0.017	0.000
10:32:00 AM	0.0	0.018	0.000
10:33:00 AM	0.0	0.016	0.000
10:34:00 AM	0.0	0.015	0.000
10:35:00 AM	0.0	0.016	0.000
10:36:00 AM	0.0	0.015	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 11, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:37:00 AM	0.0	0.016	0.000
10:38:00 AM	0.0	0.015	0.000
10:39:00 AM	0.0	0.014	0.000
10:40:00 AM	0.0	0.015	0.000
10:41:00 AM	0.0	0.015	0.000
10:42:00 AM	0.0	0.015	0.000
10:43:00 AM	0.0	0.014	0.000
10:44:00 AM	0.0	0.015	0.000
10:45:00 AM	0.0	0.014	0.000
10:46:00 AM	0.0	0.015	0.000
10:47:00 AM	0.0	0.016	0.000
10:48:00 AM	0.0	0.017	0.000
10:49:00 AM	0.0	0.018	0.000
10:50:00 AM	0.0	0.019	0.000
10:51:00 AM	0.0	0.021	0.000
10:52:00 AM	0.0	0.021	0.000
10:53:00 AM	0.0	0.019	0.000
10:54:00 AM	0.0	0.018	0.000
10:55:00 AM	0.0	0.016	0.000
10:56:00 AM	0.0	0.014	0.000
10:57:00 AM	0.0	0.013	0.000
10:58:00 AM	0.0	0.013	0.000
10:59:00 AM	0.0	0.013	0.000
11:00:00 AM	0.0	0.013	0.000
11:01:00 AM	0.0	0.013	0.000
11:02:00 AM	0.0	0.014	0.000
11:03:00 AM	0.0	0.013	0.000
11:04:00 AM	0.0	0.013	0.000
11:05:00 AM	0.0	0.013	0.000
11:06:00 AM	0.0	0.013	0.000
11:07:00 AM	0.0	0.012	0.000
11:08:00 AM	0.0	0.013	0.000
11:09:00 AM	0.0	0.012	0.000
11:10:00 AM	0.0	0.013	0.000
11:11:00 AM	0.0	0.012	0.000
11:12:00 AM	0.0	0.013	0.000
11:13:00 AM	0.0	0.012	0.000
11:14:00 AM	0.0	0.013	0.000
11:15:00 AM	0.0	0.013	0.000
11:16:00 AM	0.0	0.013	0.000
11:17:00 AM	0.0	0.014	0.000
11:18:00 AM	0.0	0.015	0.000
11:19:00 AM	0.0	0.014	0.000
11:20:00 AM	0.0	0.014	0.000
11:21:00 AM	0.0	0.014	0.000
11:22:00 AM	0.0	0.014	0.000
11:23:00 AM	0.0	0.013	0.000
11:24:00 AM	0.0	0.014	0.000
11:25:00 AM	0.0	0.014	0.000
11:26:00 AM	0.0	0.014	0.000
11:27:00 AM	0.0	0.014	0.000
11:28:00 AM	0.0	0.014	0.000
11:29:00 AM	0.0	0.014	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 11, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:30:00 AM	0.0	0.014	0.000
11:31:00 AM	0.0	0.015	0.000
11:32:00 AM	0.0	0.014	0.000
11:33:00 AM	0.0	0.013	0.000
11:34:00 AM	0.0	0.013	0.000
11:35:00 AM	0.0	0.013	0.000
11:36:00 AM	0.0	0.013	0.000
11:37:00 AM	0.0	0.013	0.000
11:38:00 AM	0.0	0.013	0.000
11:39:00 AM	0.0	0.013	0.000
11:40:00 AM	0.0	0.013	0.000
11:41:00 AM	0.0	0.013	0.000
11:42:00 AM	0.0	0.013	0.000
11:43:00 AM	0.0	0.013	0.000
11:44:00 AM	0.0	0.014	0.000
11:45:00 AM	0.0	0.014	0.000
11:46:00 AM	0.0	0.014	0.000
11:47:00 AM	0.0	0.014	0.000
11:48:00 AM	0.0	0.014	0.000
11:49:00 AM	0.0	0.015	0.000
11:50:00 AM	0.0	0.015	0.000
11:51:00 AM	0.0	0.014	0.000
11:52:00 AM	0.0	0.015	0.000
11:53:00 AM	0.0	0.015	0.000
11:54:00 AM	0.0	0.015	0.000
11:55:00 AM	0.0	0.015	0.000
11:56:00 AM	0.0	0.015	0.000
11:57:00 AM	0.0	0.016	0.000
11:58:00 AM	0.0	0.016	0.000
11:59:00 AM	0.0	0.016	0.000
12:00:00 PM	0.0	0.016	0.000
12:01:00 PM	0.0	0.016	0.000
12:02:00 PM	0.0	0.049	0.000
12:03:00 PM	0.0	0.016	0.000
12:04:00 PM	0.0	0.016	0.000
12:05:00 PM	0.0	0.015	0.000
12:06:00 PM	0.0	0.015	0.000
12:07:00 PM	0.0	0.015	0.000
12:08:00 PM	0.0	0.015	0.000
12:09:00 PM	0.0	0.015	0.000
12:10:00 PM	0.0	0.015	0.000
12:11:00 PM	0.0	0.015	0.000
12:12:00 PM	0.0	0.015	0.000
12:13:00 PM	0.0	0.014	0.000
12:14:00 PM	0.0	0.015	0.000
12:15:00 PM	0.0	0.014	0.000
12:16:00 PM	0.0	0.014	0.000
12:17:00 PM	0.0	0.010	0.000
12:18:00 PM	0.0	0.000	0.000
12:19:00 PM	0.0	0.001	0.000
12:20:00 PM	0.0	0.001	0.000
12:21:00 PM	0.0	0.002	0.000
12:22:00 PM	0.0	0.002	0.000

LIRR Group D Substations
Bayside Substation
Downwind
November 11, 2020

[illegible]

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain	X	Overcast		Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50		50-70	X	70-85		>85	

Project No.:		Winds From N ~14 mph	Date:	11/12/20
Project Name:	LIRR Group D Substation Remediation-Bayside Site-V00388-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. Aarco is loading out two loads of excavated soils from area #3 for manifest transport and disposal at Clean Earth Carteret. A representative from NYCO is onsite to handle the trucking of soils. Aarco continues to excavate soils from the northern portion of area #3. Preferred did not conduct CAMP monitoring or documentation monitoring due to rainfall throughout the day.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/ m ³)	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/m ³)
UP Wind	No Camp Due to Rain/Non-Intrusive Work					
Down Wind						
Work Zone						

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- Continue excavating within area #3.



Utilizing guzzler truck to continue to remove soils from area #3.



Laying down new plastic in stockpiling area.



Aarco loading out two trucks for transport to Clean Earth.



Continue excavation of Area #3.

Monitoring Locations

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain	X	Overcast		Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50		50-70	X	70-85		>85	

Project No.:		Winds From N ~14 mph	Date:	11/13/20
Project Name:	LIRR Group D Substation Remediation-Bayside Site-V00388-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. Aarco continues to excavate soils from area #3 to a total depth of four (4) feet bgs. All soils are excavated utilizing a soil guzzler truck and then stockpiled in the eastern end of area #3. All uncovered conduit and/or utilities are supported to protect the same. All soils next to the transformer pad will remain in place until soils can be removed and immediately backfilled. Preferred did not conduct CAMP monitoring or documentation monitoring due to rainfall throughout the day.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/ m ³)	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/m ³)
UP Wind	No Camp Due to Rain/Non-Intrusive Work					
Down Wind						
Work Zone						

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- Continue excavating within area #3.



Utilizing guzzler truck to continue to remove soils from area #3.



Supporting uncovered conduit during excavation.



Excavating on the north side of the transformer pad.



Continue excavation of Area #3.

Monitoring Locations

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	X
TEMP.	< 32		32-50		50-70	X	70-85		>85	

Project No.:		Winds From W ~ 18 mph	Date:	11/16/20
Project Name:	LIRR Group D Substation Remediation-Bayside Site-V00388-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. Aarco continues to excavate area #3 utilizing the soil guzzler truck and manually digging methods. As utility conduits are exposed aarco installs wooden supports to support the conduit. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site were sampled but not submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/ m ³)	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/m ³)
UP Wind	0.4	0.006	0.000	0.5	0.007	0.001
Down Wind	0.0	0.006	0.000	0.0	0.009	0.000
Work Zone	0.1	0.007	0.000	0.0	0.007	0.000

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- We will continue excavating in area #3.



Aarco dumping guzzler truck onto stockpile.



Aarco moving soils onto stockpile to make room.

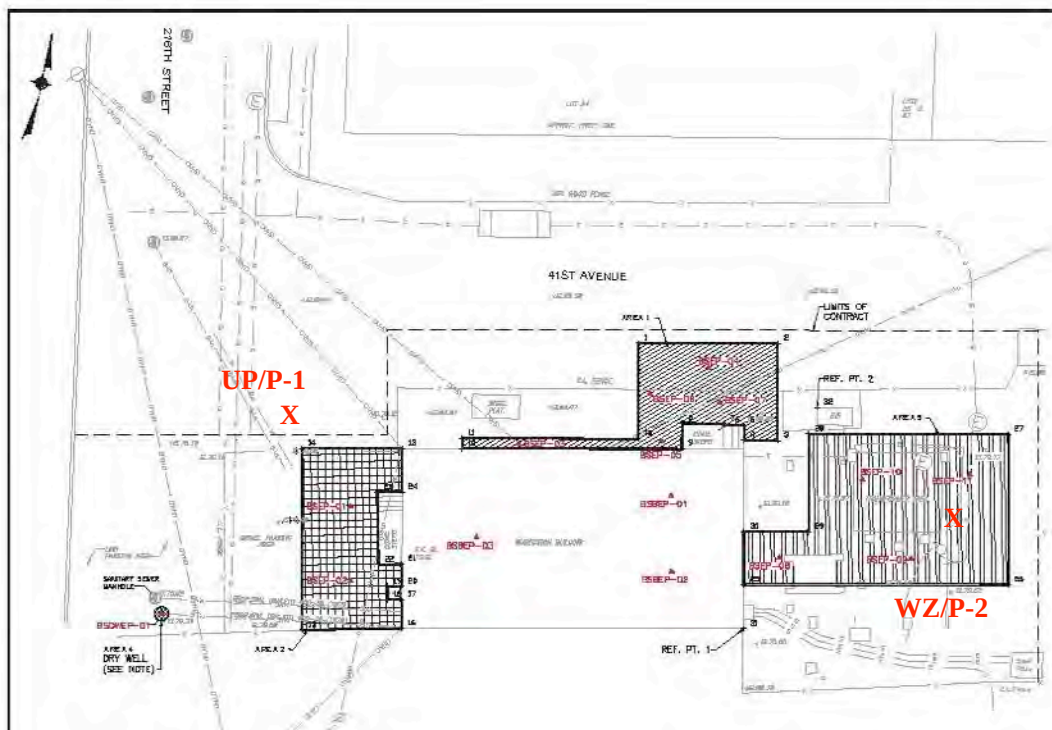


Aarco continues excavating within area #3.



All exposed conduit is supported with wood.

Monitoring Locations



DW/P-3
X

LIRR Group D Substations

Bayside Substation

Upwind

November 16, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:15:00 AM	0.0	0.0	0.006
10:16:00 AM	0.0	0.007	0.003
10:17:00 AM	0.0	0.017	0.000
10:18:00 AM	0.0	0.008	0.000
10:19:00 AM	0.0	0.007	0.000
10:20:00 AM	0.1	0.006	0.000
10:21:00 AM	0.1	0.006	0.000
10:22:00 AM	0.1	0.006	0.000
10:23:00 AM	0.1	0.007	0.000
10:24:00 AM	0.1	0.007	0.000
10:25:00 AM	0.2	0.006	0.000
10:26:00 AM	0.1	0.006	0.000
10:27:00 AM	0.2	0.008	0.000
10:28:00 AM	0.1	0.008	0.000
10:29:00 AM	0.2	0.006	0.000
10:30:00 AM	0.2	0.006	0.000
10:31:00 AM	0.2	0.006	0.000
10:32:00 AM	0.2	0.006	0.000
10:33:00 AM	0.2	0.006	0.000
10:34:00 AM	0.2	0.006	0.000
10:35:00 AM	0.2	0.006	0.000
10:36:00 AM	0.3	0.007	0.000
10:37:00 AM	0.2	0.006	0.000
10:38:00 AM	0.2	0.005	0.000
10:39:00 AM	0.3	0.005	0.000
10:40:00 AM	0.2	0.005	0.000
10:41:00 AM	0.2	0.005	0.000
10:42:00 AM	0.2	0.005	0.000
10:43:00 AM	0.3	0.005	0.000
10:44:00 AM	0.2	0.005	0.000
10:45:00 AM	0.3	0.006	0.000
10:46:00 AM	0.3	0.006	0.000
10:47:00 AM	0.4	0.005	0.000
10:48:00 AM	0.4	0.006	0.000
10:49:00 AM	0.3	0.005	0.000
10:50:00 AM	0.3	0.005	0.000
10:51:00 AM	0.4	0.006	0.000
10:52:00 AM	0.4	0.006	0.000
10:53:00 AM	0.4	0.007	0.000
10:54:00 AM	0.4	0.006	0.000
10:55:00 AM	0.7	0.007	0.000
10:56:00 AM	0.4	0.008	0.000
10:57:00 AM	0.4	0.005	0.000
10:58:00 AM	0.4	0.005	0.000
10:59:00 AM	0.4	0.005	0.000
11:00:00 AM	0.4	0.005	0.000
11:01:00 AM	0.4	0.005	0.000
11:02:00 AM	0.4	0.007	0.000
11:03:00 AM	0.4	0.006	0.000
11:04:00 AM	0.4	0.005	0.000
11:05:00 AM	0.5	0.008	0.000
11:06:00 AM	0.4	0.005	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 16, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:07:00 AM	0.4	0.005	0.000
11:08:00 AM	0.5	0.005	0.000
11:09:00 AM	0.5	0.006	0.000
11:10:00 AM	0.5	0.005	0.000
11:11:00 AM	0.5	0.005	0.000
11:12:00 AM	0.4	0.005	0.000
11:13:00 AM	0.5	0.005	0.000
11:14:00 AM	0.5	0.005	0.000
11:15:00 AM	0.4	0.005	0.000
11:16:00 AM	0.5	0.005	0.000
11:17:00 AM	0.5	0.007	0.000
11:18:00 AM	0.5	0.006	0.000
11:19:00 AM	0.5	0.006	0.000
11:20:00 AM	0.5	0.007	0.000
11:21:00 AM	0.5	0.006	0.000
11:22:00 AM	0.5	0.006	0.000
11:23:00 AM	0.5	0.005	0.000
11:24:00 AM	0.5	0.005	0.000
11:25:00 AM	0.5	0.005	0.000
11:26:00 AM	0.5	0.006	0.000
11:27:00 AM	0.5	0.007	0.000
11:28:00 AM	0.4	0.006	0.000
11:29:00 AM	0.4	0.006	0.000
11:30:00 AM	0.4	0.007	0.000
11:31:00 AM	0.5	0.007	0.000
11:32:00 AM	0.5	0.006	0.000
11:33:00 AM	0.4	0.006	0.000
11:34:00 AM	0.4	0.013	0.000
11:35:00 AM	0.4	0.007	0.000
11:36:00 AM	0.4	0.006	0.000
11:37:00 AM	0.5	0.006	0.000
11:38:00 AM	0.4	0.006	0.000
11:39:00 AM	0.5	0.006	0.000
11:40:00 AM	0.5	0.006	0.000
11:41:00 AM	0.5	0.006	0.000
11:42:00 AM	0.4	0.006	0.000
11:43:00 AM	0.5	0.006	0.000
11:44:00 AM	0.5	0.006	0.000
11:45:00 AM	0.5	0.006	0.000
11:46:00 AM	0.5	0.006	0.000
11:47:00 AM	0.4	0.006	0.000
11:48:00 AM	0.5	0.006	0.000
11:49:00 AM	0.5	0.005	0.000
11:50:00 AM	0.5	0.006	0.000
11:51:00 AM	0.5	0.005	0.000
11:52:00 AM	0.5	0.006	0.000
11:53:00 AM	0.5	0.006	0.000
11:54:00 AM	0.5	0.006	0.000
11:55:00 AM	0.5	0.006	0.000
11:56:00 AM	0.5	0.006	0.000
11:57:00 AM	0.5	0.006	0.000
11:58:00 AM	0.5	0.006	0.000
11:59:00 AM	0.4	0.006	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 16, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:00:00 PM	0.4	0.005	0.000
12:01:00 PM	0.4	0.006	0.000
12:02:00 PM	0.4	0.006	0.000
12:03:00 PM	0.4	0.006	0.000
12:04:00 PM	0.4	0.006	0.000
12:05:00 PM	0.4	0.006	0.000
12:06:00 PM	0.4	0.007	0.000
12:07:00 PM	0.5	0.005	0.000
12:08:00 PM	0.5	0.006	0.000
12:09:00 PM	0.5	0.006	0.000
12:10:00 PM	0.4	0.006	0.000
12:11:00 PM	0.4	0.006	0.000
12:12:00 PM	0.4	0.006	0.000
12:13:00 PM	0.4	0.006	0.000
12:14:00 PM	0.4	0.007	0.000
12:15:00 PM	0.4	0.007	0.000
12:16:00 PM	0.4	0.005	0.000
12:17:00 PM	0.5	0.005	0.000
12:18:00 PM	0.4	0.006	0.000
12:19:00 PM	0.3	0.006	0.000
12:20:00 PM	0.4	0.007	0.000
12:21:00 PM	0.4	0.006	0.000
12:22:00 PM	0.4	0.006	0.000
12:23:00 PM	0.4	0.005	0.000
12:24:00 PM	0.3	0.005	0.000
12:25:00 PM	0.3	0.006	0.000
12:26:00 PM	0.4	0.007	0.000
12:27:00 PM	0.3	0.006	0.000
12:28:00 PM	0.3	0.006	0.000
12:29:00 PM	0.3	0.006	0.000
12:30:00 PM	0.3	0.006	0.000
12:31:00 PM	0.3	0.006	0.000
12:32:00 PM	0.3	0.006	0.000
12:33:00 PM	0.3	0.006	0.000
12:34:00 PM	0.3	0.006	0.000
12:35:00 PM	0.3	0.006	0.000
12:36:00 PM	0.3	0.006	0.000
12:37:00 PM	0.3	0.006	0.000
12:38:00 PM	0.3	0.006	0.000
12:39:00 PM	0.3	0.007	0.000
12:40:00 PM	0.3	0.007	0.000
12:41:00 PM	0.3	0.006	0.000
12:42:00 PM	0.3	0.006	0.000
12:43:00 PM	0.3	0.007	0.000
12:44:00 PM	0.3	0.007	0.000
12:45:00 PM	0.3	0.006	0.000
12:46:00 PM	0.3	0.007	0.000
12:47:00 PM	0.2	0.006	0.000
12:48:00 PM	0.3	0.006	0.000
12:49:00 PM	0.6	0.007	0.000
12:50:00 PM	0.3	0.007	0.000
12:51:00 PM	0.3	0.008	0.000
12:52:00 PM	0.3	0.007	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 16, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:53:00 PM	0.3	0.007	0.000
12:54:00 PM	0.3	0.007	0.000
12:55:00 PM	0.3	0.007	0.000
12:56:00 PM	0.3	0.006	0.000
12:57:00 PM	0.3	0.006	0.000
12:58:00 PM	0.3	0.006	0.000
12:59:00 PM	0.3	0.008	0.000
1:00:00 PM	0.3	0.008	0.000
1:01:00 PM	0.3	0.009	0.000
1:02:00 PM	0.3	0.008	0.000
1:03:00 PM	0.3	0.007	0.000
1:04:00 PM	0.3	0.007	0.000
1:05:00 PM	0.2	0.007	0.000
1:06:00 PM	0.2	0.007	0.000
1:07:00 PM	0.2	0.007	0.000
1:08:00 PM	0.2	0.006	0.000
1:09:00 PM	0.2	0.006	0.000
1:10:00 PM	0.2	0.006	0.000
1:11:00 PM	0.2	0.006	0.000
1:12:00 PM	0.2	0.006	0.000
1:13:00 PM	0.3	0.007	0.000
1:14:00 PM	0.3	0.006	0.000
1:15:00 PM	0.3	0.006	0.000
1:16:00 PM	0.2	0.007	0.000
1:17:00 PM	0.3	0.007	0.000
1:18:00 PM	0.3	0.007	0.000
1:19:00 PM	0.3	0.007	0.000
1:20:00 PM	0.2	0.008	0.000
1:21:00 PM	0.2	0.008	0.000
1:22:00 PM	0.2	0.007	0.000
1:23:00 PM	0.2	0.007	0.000
1:24:00 PM	0.2	0.007	0.000
1:25:00 PM	0.2	0.007	0.000
1:26:00 PM	0.2	0.007	0.000
1:27:00 PM	0.2	0.006	0.000
1:28:00 PM	0.2	0.007	0.000
1:29:00 PM	0.2	0.007	0.000
1:30:00 PM	0.2	0.007	0.000
1:31:00 PM	0.2	0.008	0.000
1:32:00 PM	0.2	0.009	0.000
1:33:00 PM	0.2	0.008	0.000
1:34:00 PM	0.2	0.008	0.000
1:35:00 PM	0.2	0.008	0.000
1:36:00 PM	0.1	0.008	0.000
1:37:00 PM	0.2	0.007	0.000
1:38:00 PM	0.2	0.008	0.000
1:39:00 PM	0.1	0.007	0.000
1:40:00 PM	0.1	0.007	0.000
1:41:00 PM	0.2	0.006	0.000
1:42:00 PM	0.2	0.006	0.000
1:43:00 PM	0.2	0.006	0.000
1:44:00 PM	0.2	0.006	0.000
1:45:00 PM	0.2	0.007	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 16, 2020

[illegible]

LIRR Group D Substations

Bayside Substation

Work Zone

November 16, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:38:00 AM	0.1	0.013	0.000
10:39:00 AM	0.1	0.292	0.000
10:40:00 AM	0.1	0.013	0.000
10:41:00 AM	0.1	0.006	0.000
10:42:00 AM	0.1	0.006	0.001
10:43:00 AM	0.1	0.005	0.000
10:44:00 AM	0.1	0.005	0.000
10:45:00 AM	0.1	0.005	0.000
10:46:00 AM	0.1	0.005	0.000
10:47:00 AM	0.1	0.005	0.000
10:48:00 AM	0.1	0.006	0.000
10:49:00 AM	0.1	0.006	0.000
10:50:00 AM	0.1	0.005	0.000
10:51:00 AM	0.1	0.010	0.000
10:52:00 AM	0.1	0.005	0.000
10:53:00 AM	0.1	0.006	0.000
10:54:00 AM	0.1	0.005	0.000
10:55:00 AM	0.1	0.005	0.000
10:56:00 AM	0.1	0.005	0.000
10:57:00 AM	0.1	0.005	0.000
10:58:00 AM	0.1	0.004	0.000
10:59:00 AM	0.1	0.004	0.000
11:00:00 AM	0.1	0.005	0.000
11:01:00 AM	0.1	0.005	0.000
11:02:00 AM	0.1	0.004	0.000
11:03:00 AM	0.1	0.005	0.000
11:04:00 AM	0.1	0.005	0.000
11:05:00 AM	0.1	0.005	0.000
11:06:00 AM	0.1	0.005	0.000
11:07:00 AM	0.1	0.005	0.000
11:08:00 AM	0.1	0.005	0.000
11:09:00 AM	0.1	0.005	0.000
11:10:00 AM	0.1	0.005	0.000
11:11:00 AM	0.1	0.005	0.000
11:12:00 AM	0.1	0.006	0.000
11:13:00 AM	0.1	0.006	0.000
11:14:00 AM	0.1	0.005	0.000
11:15:00 AM	0.1	0.005	0.000
11:16:00 AM	0.1	0.005	0.000
11:17:00 AM	0.1	0.005	0.000
11:18:00 AM	0.1	0.006	0.000
11:19:00 AM	0.1	0.005	0.000
11:20:00 AM	0.1	0.005	0.000
11:21:00 AM	0.1	0.005	0.000
11:22:00 AM	0.1	0.005	0.000
11:23:00 AM	0.1	0.005	0.000
11:24:00 AM	0.1	0.004	0.000
11:25:00 AM	0.1	0.005	0.000
11:26:00 AM	0.1	0.005	0.000
11:27:00 AM	0.1	0.006	0.000
11:28:00 AM	0.1	0.006	0.000
11:29:00 AM	0.1	0.006	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 16, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:30:00 AM	0.1	0.006	0.000
11:31:00 AM	0.1	0.007	0.000
11:32:00 AM	0.1	0.006	0.000
11:33:00 AM	0.1	0.006	0.000
11:34:00 AM	0.1	0.006	0.000
11:35:00 AM	0.1	0.009	0.000
11:36:00 AM	0.1	0.006	0.000
11:37:00 AM	0.1	0.005	0.000
11:38:00 AM	0.1	0.006	0.000
11:39:00 AM	0.1	0.006	0.000
11:40:00 AM	0.1	0.005	0.000
11:41:00 AM	0.1	0.005	0.000
11:42:00 AM	0.1	0.005	0.000
11:43:00 AM	0.1	0.005	0.000
11:44:00 AM	0.1	0.006	0.000
11:45:00 AM	0.1	0.006	0.000
11:46:00 AM	0.1	0.006	0.000
11:47:00 AM	0.1	0.006	0.000
11:48:00 AM	0.1	0.005	0.000
11:49:00 AM	0.1	0.005	0.000
11:50:00 AM	0.1	0.005	0.000
11:51:00 AM	0.1	0.005	0.000
11:52:00 AM	0.1	0.006	0.000
11:53:00 AM	0.1	0.005	0.000
11:54:00 AM	0.1	0.005	0.000
11:55:00 AM	0.1	0.004	0.000
11:56:00 AM	0.1	0.006	0.000
11:57:00 AM	0.1	0.005	0.000
11:58:00 AM	0.1	0.006	0.000
11:59:00 AM	0.1	0.006	0.000
12:00:00 PM	0.1	0.005	0.000
12:01:00 PM	0.1	0.005	0.000
12:02:00 PM	0.1	0.006	0.000
12:03:00 PM	0.1	0.005	0.000
12:04:00 PM	0.1	0.005	0.000
12:05:00 PM	0.1	0.006	0.000
12:06:00 PM	0.0	0.006	0.000
12:07:00 PM	0.0	0.005	0.000
12:08:00 PM	0.0	0.006	0.000
12:09:00 PM	0.0	0.006	0.000
12:10:00 PM	0.0	0.005	0.000
12:11:00 PM	0.0	0.006	0.000
12:12:00 PM	0.0	0.006	0.000
12:13:00 PM	0.0	0.008	0.000
12:14:00 PM	0.0	0.007	0.000
12:15:00 PM	0.0	0.006	0.000
12:16:00 PM	0.0	0.006	0.000
12:17:00 PM	0.0	0.006	0.000
12:18:00 PM	0.0	0.005	0.000
12:19:00 PM	0.0	0.006	0.000
12:20:00 PM	0.0	0.006	0.000
12:21:00 PM	0.0	0.006	0.000
12:22:00 PM	0.0	0.006	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 16, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:23:00 PM	0.0	0.005	0.000
12:24:00 PM	0.0	0.005	0.000
12:25:00 PM	0.0	0.005	0.000
12:26:00 PM	0.0	0.005	0.000
12:27:00 PM	0.0	0.005	0.000
12:28:00 PM	0.0	0.005	0.000
12:29:00 PM	0.0	0.005	0.000
12:30:00 PM	0.0	0.005	0.000
12:31:00 PM	0.0	0.005	0.000
12:32:00 PM	0.0	0.005	0.000
12:33:00 PM	0.0	0.005	0.000
12:34:00 PM	0.0	0.005	0.000
12:35:00 PM	0.0	0.005	0.000
12:36:00 PM	0.0	0.005	0.000
12:37:00 PM	0.0	0.005	0.000
12:38:00 PM	0.0	0.005	0.000
12:39:00 PM	0.0	0.006	0.000
12:40:00 PM	0.0	0.006	0.000
12:41:00 PM	0.0	0.005	0.000
12:42:00 PM	0.0	0.005	0.000
12:43:00 PM	0.0	0.006	0.000
12:44:00 PM	0.0	0.006	0.000
12:45:00 PM	0.0	0.005	0.000
12:46:00 PM	0.0	0.005	0.000
12:47:00 PM	0.0	0.005	0.000
12:48:00 PM	0.0	0.005	0.000
12:49:00 PM	0.0	0.006	0.000
12:50:00 PM	0.0	0.006	0.000
12:51:00 PM	0.0	0.006	0.000
12:52:00 PM	0.0	0.006	0.000
12:53:00 PM	0.0	0.006	0.000
12:54:00 PM	0.0	0.006	0.000
12:55:00 PM	0.0	0.006	0.000
12:56:00 PM	0.0	0.005	0.000
12:57:00 PM	0.0	0.005	0.000
12:58:00 PM	0.0	0.005	0.000
12:59:00 PM	0.0	0.005	0.000
1:00:00 PM	0.0	0.006	0.000
1:01:00 PM	0.0	0.008	0.000
1:02:00 PM	0.0	0.006	0.000
1:03:00 PM	0.0	0.007	0.000
1:04:00 PM	0.0	0.007	0.000
1:05:00 PM	0.0	0.007	0.000
1:06:00 PM	0.0	0.007	0.000
1:07:00 PM	0.0	0.006	0.000
1:08:00 PM	0.0	0.006	0.000
1:09:00 PM	0.0	0.006	0.000
1:10:00 PM	0.0	0.006	0.000
1:11:00 PM	0.0	0.006	0.000
1:12:00 PM	0.0	0.007	0.000
1:13:00 PM	0.0	0.006	0.000
1:14:00 PM	0.0	0.007	0.000
1:15:00 PM	0.0	0.006	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 16, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:16:00 PM	0.0	0.007	0.000
1:17:00 PM	0.0	0.008	0.000
1:18:00 PM	0.0	0.010	0.000
1:19:00 PM	0.0	0.007	0.000
1:20:00 PM	0.0	0.007	0.000
1:21:00 PM	0.0	0.008	0.000
1:22:00 PM	0.0	0.008	0.000
1:23:00 PM	0.0	0.007	0.000
1:24:00 PM	0.0	0.009	0.000
1:25:00 PM	0.0	0.008	0.000
1:26:00 PM	0.0	0.006	0.000
1:27:00 PM	0.0	0.007	0.000
1:28:00 PM	0.0	0.006	0.000
1:29:00 PM	0.0	0.007	0.000
1:30:00 PM	0.0	0.006	0.000
1:31:00 PM	0.0	0.007	0.000
1:32:00 PM	0.0	0.007	0.000
1:33:00 PM	0.0	0.008	0.000
1:34:00 PM	0.0	0.007	0.000
1:35:00 PM	0.0	0.007	0.000
1:36:00 PM	0.0	0.008	0.000
1:37:00 PM	0.0	0.007	0.000
1:38:00 PM	0.0	0.007	0.000
1:39:00 PM	0.0	0.007	0.000
1:40:00 PM	0.0	0.006	0.000
1:41:00 PM	0.0	0.006	0.000
1:42:00 PM	0.0	0.007	0.000
1:43:00 PM	0.0	0.007	0.000
1:44:00 PM	0.0	0.006	0.000
1:45:00 PM	0.0	0.006	0.000
1:46:00 PM	0.0	0.007	0.000
1:47:00 PM	0.0	0.007	0.000
1:48:00 PM	0.0	0.006	0.000
1:49:00 PM	0.0	0.007	0.000
1:50:00 PM	0.0	0.007	0.000
1:51:00 PM	0.0	0.007	0.000
1:52:00 PM	0.0	0.008	0.000
1:53:00 PM	0.0	0.008	0.000
1:54:00 PM	0.0	0.006	0.000
1:55:00 PM	0.0	0.007	0.000
1:56:00 PM	0.0	0.007	0.000
1:57:00 PM	0.0	0.007	0.000
1:58:00 PM	0.0	0.007	0.000
1:59:00 PM	0.0	0.006	0.000
2:00:00 PM	0.0	0.007	0.000
2:01:00 PM	0.0	0.007	0.000
2:02:00 PM	0.0	0.007	0.000
2:03:00 PM	0.0	0.007	0.000
2:04:00 PM	0.0	0.007	0.000
2:05:00 PM	0.0	0.007	0.000
2:06:00 PM	0.0	0.007	0.000
2:07:00 PM	0.0	0.006	0.000
2:08:00 PM	0.0	0.007	0.000

November 16, 2020

[illegible]

LIRR Group D Substations

Bayside Substation

Downwind

November 16, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:48:00 AM	0.0	0.005	0.000
10:49:00 AM	0.0	0.007	0.000
10:50:00 AM	0.0	0.006	0.000
10:51:00 AM	0.0	0.006	0.000
10:52:00 AM	0.0	0.007	0.000
10:53:00 AM	0.0	0.019	0.000
10:54:00 AM	0.0	0.022	0.000
10:55:00 AM	0.0	0.008	0.000
10:56:00 AM	0.0	0.008	0.000
10:57:00 AM	0.0	0.007	0.000
10:58:00 AM	0.0	0.008	0.000
10:59:00 AM	0.0	0.006	0.000
11:00:00 AM	0.0	0.008	0.000
11:01:00 AM	0.0	0.006	0.000
11:02:00 AM	0.0	0.007	0.000
11:03:00 AM	0.0	0.008	0.000
11:04:00 AM	0.0	0.006	0.000
11:05:00 AM	0.0	0.006	0.000
11:06:00 AM	0.0	0.007	0.000
11:07:00 AM	0.0	0.005	0.000
11:08:00 AM	0.0	0.007	0.000
11:09:00 AM	0.0	0.007	0.000
11:10:00 AM	0.0	0.008	0.000
11:11:00 AM	0.0	0.006	0.000
11:12:00 AM	0.0	0.009	0.000
11:13:00 AM	0.0	0.006	0.000
11:14:00 AM	0.0	0.005	0.000
11:15:00 AM	0.0	0.008	0.000
11:16:00 AM	0.0	0.006	0.000
11:17:00 AM	0.0	0.005	0.000
11:18:00 AM	0.0	0.005	0.000
11:19:00 AM	0.0	0.005	0.000
11:20:00 AM	0.0	0.006	0.000
11:21:00 AM	0.0	0.006	0.000
11:22:00 AM	0.0	0.005	0.000
11:23:00 AM	0.0	0.006	0.000
11:24:00 AM	0.0	0.006	0.000
11:25:00 AM	0.0	0.006	0.000
11:26:00 AM	0.0	0.005	0.000
11:27:00 AM	0.0	0.006	0.000
11:28:00 AM	0.0	0.006	0.000
11:29:00 AM	0.0	0.006	0.000
11:30:00 AM	0.0	0.006	0.000
11:31:00 AM	0.0	0.007	0.000
11:32:00 AM	0.0	0.006	0.000
11:33:00 AM	0.0	0.006	0.000
11:34:00 AM	0.0	0.008	0.000
11:35:00 AM	0.0	0.006	0.000
11:36:00 AM	0.0	0.008	0.000
11:37:00 AM	0.0	0.005	0.000
11:38:00 AM	0.0	0.006	0.000
11:39:00 AM	0.0	0.006	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 16, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:40:00 AM	0.0	0.005	0.000
11:41:00 AM	0.0	0.005	0.000
11:42:00 AM	0.0	0.006	0.000
11:43:00 AM	0.0	0.005	0.000
11:44:00 AM	0.0	0.005	0.000
11:45:00 AM	0.0	0.004	0.000
11:46:00 AM	0.0	0.004	0.000
11:47:00 AM	0.0	0.004	0.000
11:48:00 AM	0.0	0.005	0.000
11:49:00 AM	0.0	0.004	0.000
11:50:00 AM	0.0	0.004	0.000
11:51:00 AM	0.0	0.004	0.000
11:52:00 AM	0.0	0.004	0.000
11:53:00 AM	0.0	0.004	0.000
11:54:00 AM	0.0	0.004	0.000
11:55:00 AM	0.0	0.004	0.000
11:56:00 AM	0.0	0.005	0.000
11:57:00 AM	0.0	0.004	0.000
11:58:00 AM	0.0	0.005	0.000
11:59:00 AM	0.0	0.005	0.000
12:00:00 PM	0.0	0.005	0.000
12:01:00 PM	0.0	0.005	0.000
12:02:00 PM	0.0	0.005	0.000
12:03:00 PM	0.0	0.005	0.000
12:04:00 PM	0.0	0.005	0.000
12:05:00 PM	0.0	0.005	0.000
12:06:00 PM	0.0	0.004	0.000
12:07:00 PM	0.0	0.005	0.000
12:08:00 PM	0.0	0.005	0.000
12:09:00 PM	0.0	0.004	0.000
12:10:00 PM	0.0	0.004	0.000
12:11:00 PM	0.0	0.005	0.000
12:12:00 PM	0.0	0.004	0.000
12:13:00 PM	0.0	0.004	0.000
12:14:00 PM	0.0	0.005	0.000
12:15:00 PM	0.0	0.005	0.000
12:16:00 PM	0.0	0.004	0.000
12:17:00 PM	0.0	0.004	0.000
12:18:00 PM	0.0	0.004	0.000
12:19:00 PM	0.0	0.004	0.000
12:20:00 PM	0.0	0.005	0.000
12:21:00 PM	0.0	0.005	0.000
12:22:00 PM	0.0	0.004	0.000
12:23:00 PM	0.0	0.004	0.000
12:24:00 PM	0.0	0.004	0.000
12:25:00 PM	0.0	0.004	0.000
12:26:00 PM	0.0	0.004	0.000
12:27:00 PM	0.0	0.004	0.000
12:28:00 PM	0.0	0.004	0.000
12:29:00 PM	0.0	0.004	0.000
12:30:00 PM	0.0	0.004	0.000
12:31:00 PM	0.0	0.004	0.000
12:32:00 PM	0.0	0.004	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 16, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:33:00 PM	0.0	0.004	0.000
12:34:00 PM	0.0	0.004	0.000
12:35:00 PM	0.0	0.004	0.000
12:36:00 PM	0.0	0.004	0.000
12:37:00 PM	0.0	0.004	0.000
12:38:00 PM	0.0	0.004	0.000
12:39:00 PM	0.0	0.005	0.000
12:40:00 PM	0.0	0.005	0.000
12:41:00 PM	0.0	0.004	0.000
12:42:00 PM	0.0	0.004	0.000
12:43:00 PM	0.0	0.005	0.000
12:44:00 PM	0.0	0.005	0.000
12:45:00 PM	0.0	0.004	0.000
12:46:00 PM	0.0	0.004	0.000
12:47:00 PM	0.0	0.004	0.000
12:48:00 PM	0.0	0.004	0.000
12:49:00 PM	0.0	0.004	0.000
12:50:00 PM	0.0	0.005	0.000
12:51:00 PM	0.0	0.005	0.000
12:52:00 PM	0.0	0.005	0.000
12:53:00 PM	0.0	0.005	0.000
12:54:00 PM	0.0	0.005	0.000
12:55:00 PM	0.0	0.005	0.000
12:56:00 PM	0.0	0.004	0.000
12:57:00 PM	0.0	0.004	0.000
12:58:00 PM	0.0	0.004	0.000
12:59:00 PM	0.0	0.005	0.000
1:00:00 PM	0.0	0.006	0.000
1:01:00 PM	0.0	0.007	0.000
1:02:00 PM	0.0	0.006	0.000
1:03:00 PM	0.0	0.006	0.000
1:04:00 PM	0.0	0.005	0.000
1:05:00 PM	0.0	0.005	0.000
1:06:00 PM	0.0	0.005	0.000
1:07:00 PM	0.0	0.005	0.000
1:08:00 PM	0.0	0.005	0.000
1:09:00 PM	0.0	0.005	0.000
1:10:00 PM	0.0	0.005	0.000
1:11:00 PM	0.0	0.005	0.000
1:12:00 PM	0.0	0.005	0.000
1:13:00 PM	0.0	0.005	0.000
1:14:00 PM	0.0	0.005	0.000
1:15:00 PM	0.0	0.005	0.000
1:16:00 PM	0.0	0.005	0.000
1:17:00 PM	0.0	0.005	0.000
1:18:00 PM	0.0	0.007	0.000
1:19:00 PM	0.0	0.006	0.000
1:20:00 PM	0.0	0.006	0.000
1:21:00 PM	0.0	0.006	0.000
1:22:00 PM	0.0	0.006	0.000
1:23:00 PM	0.0	0.006	0.000
1:24:00 PM	0.0	0.006	0.000
1:25:00 PM	0.0	0.005	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 16, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:26:00 PM	0.0	0.006	0.000
1:27:00 PM	0.0	0.005	0.000
1:28:00 PM	0.0	0.005	0.000
1:29:00 PM	0.0	0.005	0.000
1:30:00 PM	0.0	0.006	0.000
1:31:00 PM	0.0	0.006	0.000
1:32:00 PM	0.0	0.007	0.000
1:33:00 PM	0.0	0.008	0.000
1:34:00 PM	0.0	0.006	0.000
1:35:00 PM	0.0	0.007	0.000
1:36:00 PM	0.0	0.006	0.000
1:37:00 PM	0.0	0.006	0.000
1:38:00 PM	0.0	0.007	0.000
1:39:00 PM	0.0	0.006	0.000
1:40:00 PM	0.0	0.005	0.000
1:41:00 PM	0.0	0.005	0.000
1:42:00 PM	0.0	0.005	0.000
1:43:00 PM	0.0	0.005	0.000
1:44:00 PM	0.0	0.005	0.000
1:45:00 PM	0.0	0.005	0.000
1:46:00 PM	0.0	0.006	0.000
1:47:00 PM	0.0	0.006	0.000
1:48:00 PM	0.0	0.005	0.000
1:49:00 PM	0.0	0.006	0.000
1:50:00 PM	0.0	0.006	0.000
1:51:00 PM	0.0	0.006	0.000
1:52:00 PM	0.0	0.006	0.000
1:53:00 PM	0.0	0.006	0.000
1:54:00 PM	0.0	0.006	0.000
1:55:00 PM	0.0	0.006	0.000
1:56:00 PM	0.0	0.006	0.000
1:57:00 PM	0.0	0.006	0.000
1:58:00 PM	0.0	0.006	0.000
1:59:00 PM	0.0	0.006	0.000
2:00:00 PM	0.0	0.006	0.000
2:01:00 PM	0.0	0.006	0.000
2:02:00 PM	0.0	0.006	0.000
2:03:00 PM	0.0	0.006	0.000
2:04:00 PM	0.0	0.009	0.000
2:05:00 PM	0.0	0.006	0.000
2:06:00 PM	0.0	0.006	0.000
2:07:00 PM	0.0	0.006	0.000
2:08:00 PM	0.0	0.006	0.000
2:09:00 PM	0.0	0.006	0.000
2:10:00 PM	0.0	0.007	0.000
2:11:00 PM	0.0	0.005	0.000
2:12:00 PM	0.0	0.006	0.000
2:13:00 PM	0.0	0.005	0.000
2:14:00 PM	0.0	0.006	0.000
2:15:00 PM	0.0	0.006	0.000
2:16:00 PM	0.0	0.006	0.000
2:17:00 PM	0.0	0.006	0.000
2:18:00 PM	0.0	0.006	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 16, 2020

[illegible]

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast	X	Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50		50-70	X	70-85		>85	

Project No.:		Winds From NW ~ 13 mph	Date:	11/17/20
Project Name:	LIRR Group D Substation Remediation-Bayside Site-V00388-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. Aarco continues to excavate area #3 utilizing the soil guzzler truck and manually digging methods. As utility conduits are exposed Aarco installs wooden supports to support the conduit. Aarco removing soils along the north side of the transformer and backfilling the area immediately after excavation, compacting the soils with a manual and gas powered compactor. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site were sampled but not submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/ m ³)	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/m ³)
UP Wind	0.0	0.011	0.000	0.0	0.022	0.000
Down Wind	0.0	0.012	0.000	0.0	0.027	0.001
Work Zone	0.1	0.012	0.000	0.1	0.022	0.000

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- We will continue excavating in area #3.



Aarco continues to backfill the western portion of area #3.



Aarco dumping soils onto the stockpile from the guzzler truck.

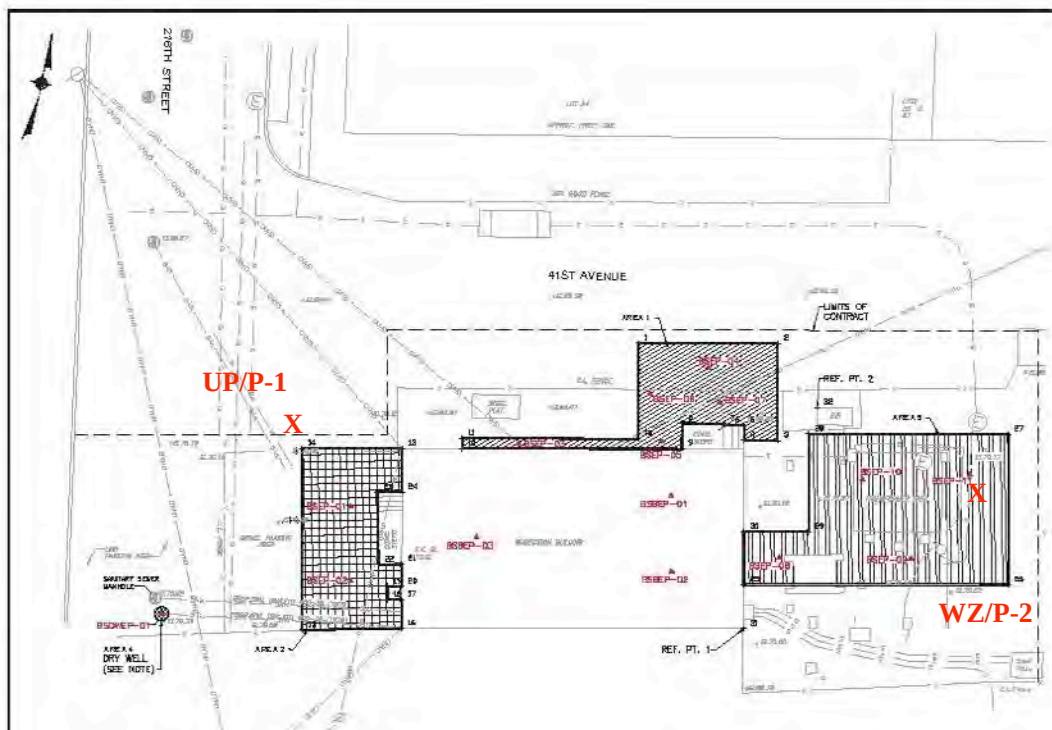


Aarco utilizing a hand tamper around conduits to compact backfill.



Aarco utilizing a gas compactor when conduit was backfilled.

Monitoring Locations



X
DW/P-3

LIRR Group D Substations

Bayside Substation

Upwind

November 17, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
9:43:00 AM	0.0	0.0	0.000
9:44:00 AM	0.0	0.013	0.000
9:45:00 AM	0.0	0.011	0.000
9:46:00 AM	0.0	0.011	0.000
9:47:00 AM	0.0	0.010	0.000
9:48:00 AM	0.0	0.010	0.000
9:49:00 AM	0.0	0.009	0.000
9:50:00 AM	0.0	0.009	0.000
9:51:00 AM	0.0	0.009	0.000
9:52:00 AM	0.0	0.009	0.000
9:53:00 AM	0.0	0.010	0.000
9:54:00 AM	0.0	0.010	0.000
9:55:00 AM	0.0	0.009	0.000
9:56:00 AM	0.0	0.009	0.000
9:57:00 AM	0.0	0.009	0.000
9:58:00 AM	0.0	0.009	0.000
9:59:00 AM	0.0	0.009	0.000
10:00:00 AM	0.0	0.009	0.000
10:01:00 AM	0.0	0.009	0.000
10:02:00 AM	0.0	0.010	0.000
10:03:00 AM	0.0	0.010	0.000
10:04:00 AM	0.0	0.010	0.000
10:05:00 AM	0.0	0.010	0.000
10:06:00 AM	0.0	0.009	0.000
10:07:00 AM	0.0	0.009	0.000
10:08:00 AM	0.0	0.009	0.000
10:09:00 AM	0.0	0.010	0.000
10:10:00 AM	0.0	0.009	0.000
10:11:00 AM	0.0	0.009	0.000
10:12:00 AM	0.0	0.009	0.000
10:13:00 AM	0.0	0.009	0.000
10:14:00 AM	0.0	0.008	0.000
10:15:00 AM	0.0	0.007	0.000
10:16:00 AM	0.0	0.008	0.000
10:17:00 AM	0.0	0.007	0.000
10:18:00 AM	0.0	0.007	0.000
10:19:00 AM	0.0	0.007	0.000
10:20:00 AM	0.0	0.007	0.000
10:21:00 AM	0.0	0.007	0.000
10:22:00 AM	0.0	0.007	0.000
10:23:00 AM	0.0	0.007	0.000
10:24:00 AM	0.0	0.007	0.000
10:25:00 AM	0.0	0.007	0.000
10:26:00 AM	0.0	0.008	0.000
10:27:00 AM	0.0	0.009	0.000
10:28:00 AM	0.0	0.008	0.000
10:29:00 AM	0.0	0.007	0.000
10:30:00 AM	0.0	0.008	0.000
10:31:00 AM	0.0	0.008	0.000
10:32:00 AM	0.0	0.007	0.000
10:33:00 AM	0.0	0.006	0.000
10:34:00 AM	0.0	0.006	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 17, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:35:00 AM	0.0	0.007	0.000
10:36:00 AM	0.0	0.006	0.000
10:37:00 AM	0.0	0.007	0.000
10:38:00 AM	0.0	0.007	0.000
10:39:00 AM	0.0	0.007	0.000
10:40:00 AM	0.0	0.007	0.000
10:41:00 AM	0.0	0.007	0.000
10:42:00 AM	0.0	0.007	0.000
10:43:00 AM	0.0	0.007	0.000
10:44:00 AM	0.0	0.007	0.000
10:45:00 AM	0.0	0.007	0.000
10:46:00 AM	0.0	0.007	0.000
10:47:00 AM	0.0	0.007	0.000
10:48:00 AM	0.0	0.007	0.000
10:49:00 AM	0.0	0.007	0.000
10:50:00 AM	0.0	0.007	0.000
10:51:00 AM	0.0	0.007	0.000
10:52:00 AM	0.0	0.007	0.000
10:53:00 AM	0.0	0.007	0.000
10:54:00 AM	0.0	0.006	0.000
10:55:00 AM	0.0	0.007	0.000
10:56:00 AM	0.0	0.006	0.000
10:57:00 AM	0.0	0.007	0.000
10:58:00 AM	0.0	0.006	0.000
10:59:00 AM	0.0	0.006	0.000
11:00:00 AM	0.0	0.007	0.000
11:01:00 AM	0.0	0.007	0.000
11:02:00 AM	0.0	0.009	0.000
11:03:00 AM	0.0	0.008	0.000
11:04:00 AM	0.0	0.007	0.000
11:05:00 AM	0.0	0.007	0.000
11:06:00 AM	0.0	0.007	0.000
11:07:00 AM	0.0	0.007	0.000
11:08:00 AM	0.0	0.007	0.000
11:09:00 AM	0.0	0.007	0.000
11:10:00 AM	0.0	0.008	0.000
11:11:00 AM	0.0	0.007	0.000
11:12:00 AM	0.0	0.008	0.000
11:13:00 AM	0.0	0.007	0.000
11:14:00 AM	0.0	0.007	0.000
11:15:00 AM	0.0	0.008	0.000
11:16:00 AM	0.0	0.007	0.000
11:17:00 AM	0.0	0.008	0.000
11:18:00 AM	0.0	0.008	0.000
11:19:00 AM	0.0	0.008	0.000
11:20:00 AM	0.0	0.008	0.000
11:21:00 AM	0.0	0.008	0.000
11:22:00 AM	0.0	0.008	0.000
11:23:00 AM	0.0	0.008	0.000
11:24:00 AM	0.0	0.008	0.000
11:25:00 AM	0.0	0.008	0.000
11:26:00 AM	0.0	0.008	0.000
11:27:00 AM	0.0	0.008	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 17, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:28:00 AM	0.0	0.007	0.000
11:29:00 AM	0.0	0.008	0.000
11:30:00 AM	0.0	0.008	0.000
11:31:00 AM	0.0	0.008	0.000
11:32:00 AM	0.0	0.008	0.000
11:33:00 AM	0.0	0.008	0.000
11:34:00 AM	0.0	0.008	0.000
11:35:00 AM	0.0	0.008	0.000
11:36:00 AM	0.0	0.008	0.000
11:37:00 AM	0.0	0.008	0.000
11:38:00 AM	0.0	0.008	0.000
11:39:00 AM	0.0	0.008	0.000
11:40:00 AM	0.0	0.008	0.000
11:41:00 AM	0.0	0.008	0.000
11:42:00 AM	0.0	0.008	0.000
11:43:00 AM	0.0	0.008	0.000
11:44:00 AM	0.0	0.008	0.000
11:45:00 AM	0.0	0.009	0.000
11:46:00 AM	0.0	0.008	0.000
11:47:00 AM	0.0	0.009	0.000
11:48:00 AM	0.0	0.009	0.000
11:49:00 AM	0.0	0.008	0.000
11:50:00 AM	0.0	0.008	0.000
11:51:00 AM	0.0	0.008	0.000
11:52:00 AM	0.0	0.009	0.000
11:53:00 AM	0.0	0.011	0.000
11:54:00 AM	0.0	0.011	0.000
11:55:00 AM	0.0	0.011	0.000
11:56:00 AM	0.0	0.011	0.000
11:57:00 AM	0.0	0.011	0.000
11:58:00 AM	0.0	0.011	0.000
11:59:00 AM	0.0	0.011	0.000
12:00:00 PM	0.0	0.011	0.000
12:01:00 PM	0.0	0.011	0.000
12:02:00 PM	0.0	0.011	0.000
12:03:00 PM	0.0	0.012	0.000
12:04:00 PM	0.0	0.011	0.000
12:05:00 PM	0.0	0.012	0.000
12:06:00 PM	0.0	0.013	0.000
12:07:00 PM	0.0	0.014	0.000
12:08:00 PM	0.0	0.017	0.000
12:09:00 PM	0.0	0.021	0.000
12:10:00 PM	0.0	0.025	0.000
12:11:00 PM	0.0	0.025	0.000
12:12:00 PM	0.0	0.027	0.000
12:13:00 PM	0.0	0.031	0.000
12:14:00 PM	0.0	0.029	0.000
12:15:00 PM	0.0	0.028	0.000
12:16:00 PM	0.0	0.024	0.000
12:17:00 PM	0.0	0.021	0.000
12:18:00 PM	0.0	0.020	0.000
12:19:00 PM	0.0	0.019	0.000
12:20:00 PM	0.0	0.017	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 17, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:21:00 PM	0.0	0.015	0.000
12:22:00 PM	0.0	0.015	0.000
12:23:00 PM	0.0	0.015	0.000
12:24:00 PM	0.0	0.014	0.000
12:25:00 PM	0.0	0.013	0.000
12:26:00 PM	0.0	0.012	0.000
12:27:00 PM	0.0	0.012	0.000
12:28:00 PM	0.0	0.015	0.000
12:29:00 PM	0.0	0.013	0.000
12:30:00 PM	0.0	0.012	0.000
12:31:00 PM	0.0	0.012	0.000
12:32:00 PM	0.0	0.012	0.000
12:33:00 PM	0.0	0.013	0.000
12:34:00 PM	0.0	0.012	0.000
12:35:00 PM	0.0	0.013	0.000
12:36:00 PM	0.0	0.013	0.000
12:37:00 PM	0.0	0.013	0.000
12:38:00 PM	0.0	0.013	0.000
12:39:00 PM	0.0	0.013	0.000
12:40:00 PM	0.0	0.013	0.000
12:41:00 PM	0.0	0.013	0.000
12:42:00 PM	0.0	0.013	0.000
12:43:00 PM	0.0	0.013	0.000
12:44:00 PM	0.0	0.014	0.000
12:45:00 PM	0.0	0.014	0.000
12:46:00 PM	0.0	0.014	0.000
12:47:00 PM	0.0	0.016	0.000
12:48:00 PM	0.0	0.014	0.000
12:49:00 PM	0.0	0.014	0.000
12:50:00 PM	0.0	0.014	0.000
12:51:00 PM	0.0	0.013	0.000
12:52:00 PM	0.0	0.013	0.000
12:53:00 PM	0.0	0.013	0.000
12:54:00 PM	0.0	0.013	0.000
12:55:00 PM	0.0	0.012	0.000
12:56:00 PM	0.0	0.012	0.000
12:57:00 PM	0.0	0.013	0.000
12:58:00 PM	0.0	0.012	0.000
12:59:00 PM	0.0	0.013	0.000
1:00:00 PM	0.0	0.012	0.000
1:01:00 PM	0.0	0.012	0.000
1:02:00 PM	0.0	0.012	0.000
1:03:00 PM	0.0	0.011	0.000
1:04:00 PM	0.0	0.011	0.000
1:05:00 PM	0.0	0.011	0.000
1:06:00 PM	0.0	0.012	0.000
1:07:00 PM	0.0	0.012	0.000
1:08:00 PM	0.0	0.012	0.000
1:09:00 PM	0.0	0.011	0.000
1:10:00 PM	0.0	0.012	0.000
1:11:00 PM	0.0	0.012	0.000
1:12:00 PM	0.0	0.013	0.000
1:13:00 PM	0.0	0.012	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 17, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:14:00 PM	0.0	0.012	0.000
1:15:00 PM	0.0	0.012	0.000
1:16:00 PM	0.0	0.012	0.000
1:17:00 PM	0.0	0.013	0.000
1:18:00 PM	0.0	0.013	0.000
1:19:00 PM	0.0	0.012	0.000
1:20:00 PM	0.0	0.012	0.000
1:21:00 PM	0.0	0.012	0.000
1:22:00 PM	0.0	0.012	0.000
1:23:00 PM	0.0	0.012	0.000
1:24:00 PM	0.0	0.012	0.000
1:25:00 PM	0.0	0.012	0.000
1:26:00 PM	0.0	0.012	0.000
1:27:00 PM	0.0	0.013	0.000
1:28:00 PM	0.0	0.014	0.000
1:29:00 PM	0.0	0.013	0.000
1:30:00 PM	0.0	0.012	0.000
1:31:00 PM	0.0	0.011	0.000
1:32:00 PM	0.0	0.011	0.000
1:33:00 PM	0.0	0.011	0.000
1:34:00 PM	0.0	0.011	0.000
1:35:00 PM	0.0	0.011	0.000
1:36:00 PM	0.0	0.011	0.000
1:37:00 PM	0.0	0.011	0.000
1:38:00 PM	0.0	0.011	0.000
1:39:00 PM	0.0	0.011	0.000
1:40:00 PM	0.0	0.011	0.000
1:41:00 PM	0.0	0.011	0.000
1:42:00 PM	0.0	0.011	0.000
1:43:00 PM	0.0	0.011	0.000
1:44:00 PM	0.0	0.011	0.000
1:45:00 PM	0.0	0.011	0.000
1:46:00 PM	0.0	0.011	0.000
1:47:00 PM	0.0	0.010	0.000
1:48:00 PM	0.0	0.010	0.000
1:49:00 PM	0.0	0.011	0.000
1:50:00 PM	0.0	0.010	0.000
1:51:00 PM	0.0	0.010	0.000
1:52:00 PM	0.0	0.010	0.000
1:53:00 PM	0.0	0.012	0.000
1:54:00 PM	0.0	0.012	0.000
1:55:00 PM	0.0	0.011	0.000
1:56:00 PM	0.0	0.011	0.000
1:57:00 PM	0.0	0.011	0.000
1:58:00 PM	0.0	0.011	0.000
1:59:00 PM	0.0	0.011	0.000
2:00:00 PM	0.0	0.012	0.000
2:01:00 PM	0.0	0.013	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 17, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:00:00 AM	0.0	0.011	0.000
10:01:00 AM	0.0	0.267	0.000
10:02:00 AM	0.0	0.018	0.000
10:03:00 AM	0.0	0.011	0.000
10:04:00 AM	0.0	0.011	0.000
10:05:00 AM	0.0	0.011	0.000
10:06:00 AM	0.0	0.010	0.000
10:07:00 AM	0.0	0.010	0.000
10:08:00 AM	0.0	0.009	0.000
10:09:00 AM	0.0	0.009	0.000
10:10:00 AM	0.0	0.009	0.000
10:11:00 AM	0.0	0.010	0.000
10:12:00 AM	0.0	0.009	0.000
10:13:00 AM	0.0	0.009	0.000
10:14:00 AM	0.0	0.008	0.000
10:15:00 AM	0.0	0.007	0.000
10:16:00 AM	0.0	0.008	0.000
10:17:00 AM	0.0	0.007	0.000
10:18:00 AM	0.0	0.007	0.000
10:19:00 AM	0.0	0.007	0.000
10:20:00 AM	0.0	0.007	0.000
10:21:00 AM	0.0	0.008	0.000
10:22:00 AM	0.0	0.007	0.000
10:23:00 AM	0.0	0.007	0.000
10:24:00 AM	0.0	0.006	0.000
10:25:00 AM	0.0	0.007	0.000
10:26:00 AM	0.0	0.007	0.000
10:27:00 AM	0.0	0.008	0.000
10:28:00 AM	0.0	0.008	0.000
10:29:00 AM	0.0	0.007	0.000
10:30:00 AM	0.1	0.007	0.000
10:31:00 AM	0.0	0.009	0.000
10:32:00 AM	0.0	0.007	0.000
10:33:00 AM	0.0	0.007	0.000
10:34:00 AM	0.0	0.007	0.000
10:35:00 AM	0.0	0.007	0.000
10:36:00 AM	0.0	0.008	0.000
10:37:00 AM	0.0	0.007	0.000
10:38:00 AM	0.0	0.007	0.000
10:39:00 AM	0.0	0.007	0.000
10:40:00 AM	0.0	0.007	0.000
10:41:00 AM	0.0	0.007	0.000
10:42:00 AM	0.0	0.007	0.000
10:43:00 AM	0.0	0.006	0.000
10:44:00 AM	0.0	0.007	0.000
10:45:00 AM	0.0	0.014	0.000
10:46:00 AM	0.0	0.007	0.000
10:47:00 AM	0.0	0.007	0.000
10:48:00 AM	0.0	0.007	0.000
10:49:00 AM	0.0	0.007	0.000
10:50:00 AM	0.0	0.007	0.000
10:51:00 AM	0.0	0.007	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 17, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:52:00 AM	0.0	0.007	0.000
10:53:00 AM	0.0	0.006	0.000
10:54:00 AM	0.0	0.007	0.000
10:55:00 AM	0.0	0.007	0.000
10:56:00 AM	0.0	0.006	0.000
10:57:00 AM	0.0	0.006	0.000
10:58:00 AM	0.0	0.006	0.000
10:59:00 AM	0.1	0.006	0.000
11:00:00 AM	0.1	0.007	0.000
11:01:00 AM	0.1	0.007	0.000
11:02:00 AM	0.1	0.008	0.000
11:03:00 AM	0.1	0.008	0.000
11:04:00 AM	0.1	0.009	0.000
11:05:00 AM	0.1	0.007	0.000
11:06:00 AM	0.1	0.006	0.000
11:07:00 AM	0.1	0.008	0.000
11:08:00 AM	0.1	0.006	0.000
11:09:00 AM	0.1	0.007	0.000
11:10:00 AM	0.1	0.007	0.000
11:11:00 AM	0.1	0.007	0.000
11:12:00 AM	0.1	0.008	0.000
11:13:00 AM	0.1	0.008	0.000
11:14:00 AM	0.1	0.007	0.000
11:15:00 AM	0.1	0.008	0.000
11:16:00 AM	0.1	0.007	0.000
11:17:00 AM	0.1	0.008	0.000
11:18:00 AM	0.1	0.008	0.000
11:19:00 AM	0.1	0.008	0.000
11:20:00 AM	0.1	0.008	0.000
11:21:00 AM	0.1	0.009	0.000
11:22:00 AM	0.1	0.010	0.000
11:23:00 AM	0.1	0.007	0.000
11:24:00 AM	0.1	0.007	0.000
11:25:00 AM	0.1	0.007	0.000
11:26:00 AM	0.1	0.007	0.000
11:27:00 AM	0.1	0.007	0.000
11:28:00 AM	0.1	0.008	0.000
11:29:00 AM	0.1	0.008	0.000
11:30:00 AM	0.1	0.009	0.000
11:31:00 AM	0.1	0.008	0.000
11:32:00 AM	0.1	0.009	0.000
11:33:00 AM	0.1	0.008	0.000
11:34:00 AM	0.1	0.010	0.000
11:35:00 AM	0.1	0.008	0.000
11:36:00 AM	0.1	0.010	0.000
11:37:00 AM	0.1	0.011	0.000
11:38:00 AM	0.1	0.011	0.000
11:39:00 AM	0.1	0.010	0.000
11:40:00 AM	0.1	0.008	0.000
11:41:00 AM	0.1	0.007	0.000
11:42:00 AM	0.1	0.008	0.000
11:43:00 AM	0.1	0.007	0.000
11:44:00 AM	0.1	0.007	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 17, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:45:00 AM	0.1	0.007	0.000
11:46:00 AM	0.1	0.008	0.000
11:47:00 AM	0.1	0.008	0.000
11:48:00 AM	0.1	0.009	0.000
11:49:00 AM	0.1	0.008	0.000
11:50:00 AM	0.1	0.007	0.000
11:51:00 AM	0.1	0.008	0.000
11:52:00 AM	0.1	0.008	0.000
11:53:00 AM	0.1	0.009	0.000
11:54:00 AM	0.1	0.011	0.000
11:55:00 AM	0.1	0.011	0.000
11:56:00 AM	0.1	0.011	0.000
11:57:00 AM	0.1	0.011	0.000
11:58:00 AM	0.1	0.010	0.000
11:59:00 AM	0.1	0.010	0.000
12:00:00 PM	0.1	0.010	0.000
12:01:00 PM	0.1	0.011	0.000
12:02:00 PM	0.1	0.010	0.000
12:03:00 PM	0.1	0.011	0.000
12:04:00 PM	0.1	0.011	0.000
12:05:00 PM	0.1	0.011	0.000
12:06:00 PM	0.1	0.015	0.000
12:07:00 PM	0.1	0.014	0.000
12:08:00 PM	0.1	0.016	0.000
12:09:00 PM	0.1	0.023	0.000
12:10:00 PM	0.1	0.027	0.000
12:11:00 PM	0.1	0.025	0.000
12:12:00 PM	0.1	0.027	0.000
12:13:00 PM	0.1	0.029	0.000
12:14:00 PM	0.1	0.027	0.000
12:15:00 PM	0.1	0.025	0.000
12:16:00 PM	0.1	0.024	0.000
12:17:00 PM	0.1	0.021	0.000
12:18:00 PM	0.1	0.019	0.000
12:19:00 PM	0.1	0.019	0.000
12:20:00 PM	0.1	0.016	0.000
12:21:00 PM	0.1	0.015	0.000
12:22:00 PM	0.1	0.015	0.000
12:23:00 PM	0.1	0.015	0.000
12:24:00 PM	0.1	0.017	0.000
12:25:00 PM	0.1	0.015	0.000
12:26:00 PM	0.1	0.013	0.000
12:27:00 PM	0.1	0.012	0.000
12:28:00 PM	0.1	0.012	0.000
12:29:00 PM	0.1	0.012	0.000
12:30:00 PM	0.1	0.013	0.000
12:31:00 PM	0.1	0.013	0.000
12:32:00 PM	0.1	0.013	0.000
12:33:00 PM	0.1	0.014	0.000
12:34:00 PM	0.1	0.012	0.000
12:35:00 PM	0.1	0.015	0.000
12:36:00 PM	0.1	0.012	0.000
12:37:00 PM	0.1	0.012	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 17, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:38:00 PM	0.1	0.012	0.000
12:39:00 PM	0.1	0.012	0.000
12:40:00 PM	0.1	0.011	0.000
12:41:00 PM	0.1	0.011	0.000
12:42:00 PM	0.1	0.012	0.000
12:43:00 PM	0.1	0.011	0.000
12:44:00 PM	0.1	0.012	0.000
12:45:00 PM	0.1	0.013	0.000
12:46:00 PM	0.1	0.012	0.000
12:47:00 PM	0.1	0.013	0.000
12:48:00 PM	0.1	0.014	0.000
12:49:00 PM	0.1	0.013	0.000
12:50:00 PM	0.1	0.013	0.000
12:51:00 PM	0.1	0.012	0.000
12:52:00 PM	0.1	0.012	0.000
12:53:00 PM	0.1	0.011	0.000
12:54:00 PM	0.1	0.012	0.000
12:55:00 PM	0.1	0.011	0.000
12:56:00 PM	0.1	0.011	0.000
12:57:00 PM	0.1	0.011	0.000
12:58:00 PM	0.1	0.012	0.000
12:59:00 PM	0.1	0.012	0.000
1:00:00 PM	0.1	0.012	0.000
1:01:00 PM	0.1	0.012	0.000
1:02:00 PM	0.1	0.011	0.000
1:03:00 PM	0.1	0.010	0.000
1:04:00 PM	0.1	0.011	0.000
1:05:00 PM	0.1	0.011	0.000
1:06:00 PM	0.1	0.011	0.000
1:07:00 PM	0.1	0.011	0.000
1:08:00 PM	0.1	0.011	0.000
1:09:00 PM	0.1	0.011	0.000
1:10:00 PM	0.1	0.011	0.000
1:11:00 PM	0.1	0.012	0.000
1:12:00 PM	0.1	0.013	0.000
1:13:00 PM	0.1	0.011	0.000
1:14:00 PM	0.1	0.011	0.000
1:15:00 PM	0.1	0.012	0.000
1:16:00 PM	0.1	0.012	0.000
1:17:00 PM	0.1	0.016	0.000
1:18:00 PM	0.1	0.014	0.000
1:19:00 PM	0.1	0.014	0.000
1:20:00 PM	0.1	0.015	0.000
1:21:00 PM	0.1	0.014	0.000
1:22:00 PM	0.1	0.016	0.000
1:23:00 PM	0.1	0.015	0.000
1:24:00 PM	0.1	0.015	0.000
1:25:00 PM	0.1	0.014	0.000
1:26:00 PM	0.1	0.013	0.000
1:27:00 PM	0.1	0.012	0.000
1:28:00 PM	0.1	0.013	0.000
1:29:00 PM	0.1	0.012	0.000
1:30:00 PM	0.1	0.012	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 17, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
9:53:00 AM	0.0	0.012	0.000
9:54:00 AM	0.0	0.042	0.000
9:55:00 AM	0.0	0.013	0.000
9:56:00 AM	0.0	0.012	0.000
9:57:00 AM	0.0	0.012	0.000
9:58:00 AM	0.0	0.012	0.000
9:59:00 AM	0.0	0.012	0.000
10:00:00 AM	0.0	0.012	0.000
10:01:00 AM	0.0	0.013	0.000
10:02:00 AM	0.0	0.013	0.000
10:03:00 AM	0.0	0.013	0.000
10:04:00 AM	0.0	0.012	0.000
10:05:00 AM	0.0	0.012	0.000
10:06:00 AM	0.0	0.012	0.000
10:07:00 AM	0.0	0.011	0.000
10:08:00 AM	0.0	0.012	0.000
10:09:00 AM	0.0	0.012	0.000
10:10:00 AM	0.0	0.012	0.000
10:11:00 AM	0.0	0.013	0.000
10:12:00 AM	0.0	0.012	0.000
10:13:00 AM	0.0	0.010	0.000
10:14:00 AM	0.0	0.009	0.000
10:15:00 AM	0.0	0.009	0.000
10:16:00 AM	0.0	0.010	0.000
10:17:00 AM	0.0	0.010	0.000
10:18:00 AM	0.0	0.009	0.000
10:19:00 AM	0.0	0.009	0.000
10:20:00 AM	0.0	0.008	0.000
10:21:00 AM	0.0	0.008	0.000
10:22:00 AM	0.0	0.009	0.000
10:23:00 AM	0.0	0.009	0.000
10:24:00 AM	0.0	0.010	0.000
10:25:00 AM	0.0	0.008	0.000
10:26:00 AM	0.0	0.013	0.000
10:27:00 AM	0.0	0.009	0.000
10:28:00 AM	0.0	0.009	0.000
10:29:00 AM	0.0	0.009	0.000
10:30:00 AM	0.0	0.012	0.000
10:31:00 AM	0.0	0.011	0.000
10:32:00 AM	0.0	0.009	0.000
10:33:00 AM	0.0	0.009	0.000
10:34:00 AM	0.0	0.010	0.000
10:35:00 AM	0.0	0.009	0.000
10:36:00 AM	0.0	0.008	0.000
10:37:00 AM	0.0	0.009	0.000
10:38:00 AM	0.0	0.008	0.000
10:39:00 AM	0.0	0.008	0.000
10:40:00 AM	0.0	0.009	0.000
10:41:00 AM	0.0	0.008	0.000
10:42:00 AM	0.0	0.011	0.000
10:43:00 AM	0.0	0.011	0.000
10:44:00 AM	0.0	0.010	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 17, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:45:00 AM	0.0	0.011	0.000
10:46:00 AM	0.0	0.009	0.000
10:47:00 AM	0.0	0.008	0.000
10:48:00 AM	0.0	0.009	0.000
10:49:00 AM	0.0	0.009	0.000
10:50:00 AM	0.0	0.008	0.000
10:51:00 AM	0.0	0.009	0.000
10:52:00 AM	0.0	0.008	0.000
10:53:00 AM	0.0	0.008	0.000
10:54:00 AM	0.0	0.009	0.000
10:55:00 AM	0.0	0.009	0.000
10:56:00 AM	0.0	0.008	0.000
10:57:00 AM	0.0	0.010	0.000
10:58:00 AM	0.0	0.012	0.000
10:59:00 AM	0.0	0.010	0.000
11:00:00 AM	0.0	0.012	0.000
11:01:00 AM	0.0	0.011	0.000
11:02:00 AM	0.0	0.011	0.000
11:03:00 AM	0.0	0.017	0.000
11:04:00 AM	0.0	0.010	0.000
11:05:00 AM	0.0	0.008	0.000
11:06:00 AM	0.0	0.008	0.000
11:07:00 AM	0.0	0.008	0.000
11:08:00 AM	0.0	0.007	0.000
11:09:00 AM	0.0	0.007	0.000
11:10:00 AM	0.0	0.007	0.000
11:11:00 AM	0.0	0.007	0.000
11:12:00 AM	0.0	0.008	0.000
11:13:00 AM	0.0	0.008	0.000
11:14:00 AM	0.0	0.008	0.000
11:15:00 AM	0.0	0.008	0.000
11:16:00 AM	0.0	0.009	0.000
11:17:00 AM	0.0	0.009	0.000
11:18:00 AM	0.0	0.009	0.000
11:19:00 AM	0.0	0.009	0.000
11:20:00 AM	0.0	0.010	0.000
11:21:00 AM	0.0	0.009	0.000
11:22:00 AM	0.0	0.010	0.000
11:23:00 AM	0.0	0.009	0.000
11:24:00 AM	0.0	0.009	0.000
11:25:00 AM	0.0	0.008	0.000
11:26:00 AM	0.0	0.008	0.000
11:27:00 AM	0.0	0.008	0.000
11:28:00 AM	0.0	0.008	0.000
11:29:00 AM	0.0	0.008	0.000
11:30:00 AM	0.0	0.009	0.000
11:31:00 AM	0.0	0.010	0.000
11:32:00 AM	0.0	0.009	0.000
11:33:00 AM	0.0	0.012	0.000
11:34:00 AM	0.0	0.010	0.000
11:35:00 AM	0.0	0.009	0.000
11:36:00 AM	0.0	0.009	0.000
11:37:00 AM	0.0	0.009	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 17, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:38:00 AM	0.0	0.009	0.000
11:39:00 AM	0.0	0.009	0.000
11:40:00 AM	0.0	0.008	0.000
11:41:00 AM	0.0	0.008	0.000
11:42:00 AM	0.0	0.008	0.000
11:43:00 AM	0.0	0.008	0.000
11:44:00 AM	0.0	0.007	0.000
11:45:00 AM	0.0	0.008	0.000
11:46:00 AM	0.0	0.008	0.000
11:47:00 AM	0.0	0.008	0.000
11:48:00 AM	0.0	0.009	0.000
11:49:00 AM	0.0	0.009	0.000
11:50:00 AM	0.0	0.008	0.000
11:51:00 AM	0.0	0.007	0.000
11:52:00 AM	0.0	0.009	0.000
11:53:00 AM	0.0	0.010	0.000
11:54:00 AM	0.0	0.011	0.000
11:55:00 AM	0.0	0.012	0.000
11:56:00 AM	0.0	0.011	0.000
11:57:00 AM	0.0	0.011	0.000
11:58:00 AM	0.0	0.011	0.000
11:59:00 AM	0.0	0.012	0.000
12:00:00 PM	0.0	0.012	0.000
12:01:00 PM	0.0	0.012	0.000
12:02:00 PM	0.0	0.012	0.000
12:03:00 PM	0.0	0.012	0.000
12:04:00 PM	0.0	0.012	0.000
12:05:00 PM	0.0	0.012	0.000
12:06:00 PM	0.0	0.014	0.000
12:07:00 PM	0.0	0.014	0.000
12:08:00 PM	0.0	0.016	0.000
12:09:00 PM	0.0	0.029	0.000
12:10:00 PM	0.0	0.036	0.000
12:11:00 PM	0.0	0.036	0.000
12:12:00 PM	0.0	0.033	0.000
12:13:00 PM	0.0	0.039	0.000
12:14:00 PM	0.0	0.035	0.000
12:15:00 PM	0.0	0.031	0.000
12:16:00 PM	0.0	0.028	0.000
12:17:00 PM	0.0	0.024	0.000
12:18:00 PM	0.0	0.022	0.000
12:19:00 PM	0.0	0.022	0.000
12:20:00 PM	0.0	0.017	0.000
12:21:00 PM	0.0	0.016	0.000
12:22:00 PM	0.0	0.016	0.000
12:23:00 PM	0.0	0.016	0.000
12:24:00 PM	0.0	0.016	0.000
12:25:00 PM	0.0	0.015	0.000
12:26:00 PM	0.0	0.015	0.000
12:27:00 PM	0.0	0.014	0.000
12:28:00 PM	0.0	0.014	0.000
12:29:00 PM	0.0	0.014	0.000
12:30:00 PM	0.0	0.014	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 17, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:31:00 PM	0.0	0.014	0.000
12:32:00 PM	0.0	0.014	0.000
12:33:00 PM	0.0	0.014	0.000
12:34:00 PM	0.0	0.014	0.000
12:35:00 PM	0.0	0.014	0.000
12:36:00 PM	0.0	0.014	0.000
12:37:00 PM	0.0	0.014	0.000
12:38:00 PM	0.0	0.014	0.000
12:39:00 PM	0.0	0.014	0.000
12:40:00 PM	0.0	0.014	0.000
12:41:00 PM	0.0	0.014	0.000
12:42:00 PM	0.0	0.014	0.000
12:43:00 PM	0.0	0.014	0.000
12:44:00 PM	0.0	0.014	0.000
12:45:00 PM	0.0	0.015	0.000
12:46:00 PM	0.0	0.015	0.000
12:47:00 PM	0.0	0.016	0.000
12:48:00 PM	0.0	0.017	0.000
12:49:00 PM	0.0	0.016	0.000
12:50:00 PM	0.0	0.015	0.000
12:51:00 PM	0.0	0.014	0.000
12:52:00 PM	0.0	0.014	0.000
12:53:00 PM	0.0	0.014	0.000
12:54:00 PM	0.0	0.013	0.000
12:55:00 PM	0.0	0.013	0.000
12:56:00 PM	0.0	0.012	0.000
12:57:00 PM	0.0	0.013	0.000
12:58:00 PM	0.0	0.014	0.000
12:59:00 PM	0.0	0.015	0.000
1:00:00 PM	0.0	0.014	0.000
1:01:00 PM	0.0	0.013	0.000
1:02:00 PM	0.0	0.012	0.000
1:03:00 PM	0.0	0.012	0.000
1:04:00 PM	0.0	0.012	0.000
1:05:00 PM	0.0	0.012	0.000
1:06:00 PM	0.0	0.012	0.000
1:07:00 PM	0.0	0.013	0.000
1:08:00 PM	0.0	0.012	0.000
1:09:00 PM	0.0	0.012	0.000
1:10:00 PM	0.0	0.012	0.000
1:11:00 PM	0.0	0.013	0.000
1:12:00 PM	0.0	0.012	0.000
1:13:00 PM	0.0	0.012	0.000
1:14:00 PM	0.0	0.013	0.000
1:15:00 PM	0.0	0.012	0.000
1:16:00 PM	0.0	0.012	0.000
1:17:00 PM	0.0	0.013	0.000
1:18:00 PM	0.0	0.013	0.000
1:19:00 PM	0.0	0.014	0.000
1:20:00 PM	0.0	0.013	0.000
1:21:00 PM	0.0	0.013	0.000
1:22:00 PM	0.0	0.012	0.000
1:23:00 PM	0.0	0.013	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 17, 2020

[illegible]

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From NW ~ 19 mph	Date:	11/18/20
Project Name:	LIRR Group D Substation Remediation-Bayside Site-V00388-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. Aarco continues to excavate area #3 utilizing the soil guzzler truck and manually digging methods. As utility conduits are exposed Aarco installs wooden supports to support the conduit. Aarco removing soils along the south side of the transformer. Dumping all excavated soils on the stockpile, stockpile is covered at the end of each day. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site and two high-risk workers were sampled and submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/ m ³)	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/m ³)
UP Wind	0.5	0.004	0.000	1.5	0.005	0.000
Down Wind	0.2	0.003	0.000	0.2	0.007	0.000
Work Zone	0.0	0.003	0.000	0.0	0.006	0.000

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- We will continue excavating in area #3.



Aarco continues to excavate the souther side of Area #3.



Aarco utilizing the guzzler truck to excavate all soils.

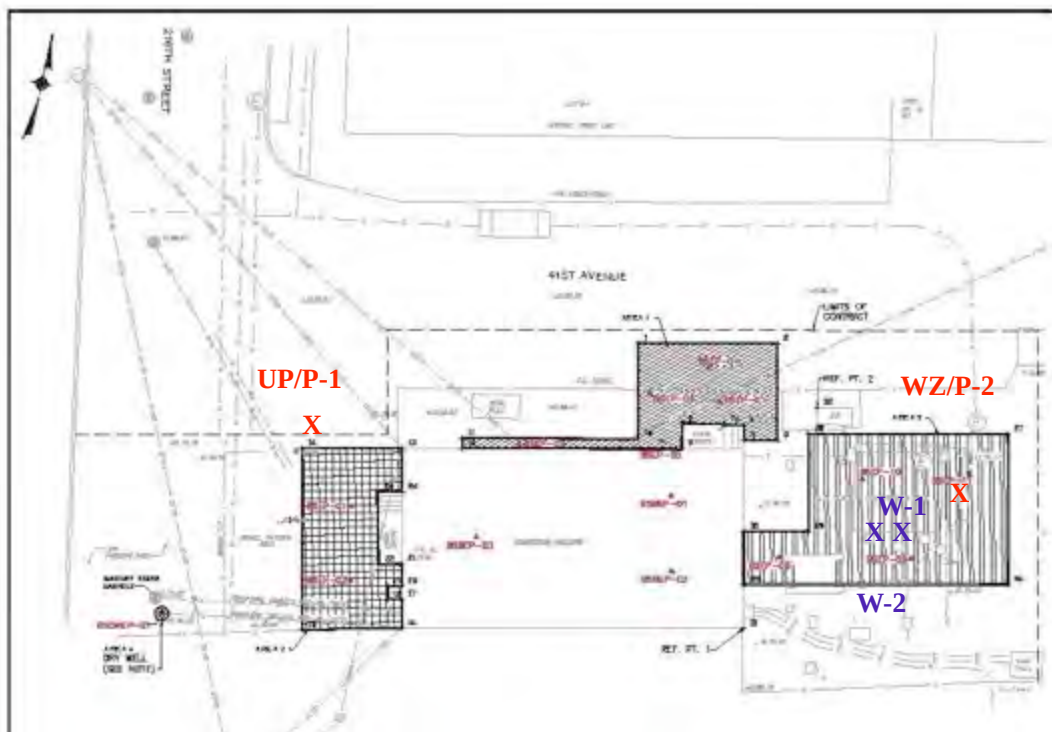


Aarco installing wooden supports to all exposed conduits.



Aarco dumping guzzler truck onto stockpile.

Monitoring Locations



LIRR Group D Substations

Bayside Substation

Upwind

November 18, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
9:37:00 AM	0.1	0.0	0.000
9:38:00 AM	0.1	0.114	0.000
9:39:00 AM	0.2	0.013	0.000
9:40:00 AM	0.1	0.006	0.000
9:41:00 AM	0.2	0.004	0.000
9:42:00 AM	0.1	0.003	0.000
9:43:00 AM	0.2	0.004	0.000
9:44:00 AM	0.2	0.004	0.000
9:45:00 AM	0.3	0.003	0.000
9:46:00 AM	0.2	0.002	0.000
9:47:00 AM	0.4	0.002	0.000
9:48:00 AM	0.3	0.003	0.000
9:49:00 AM	0.3	0.002	0.000
9:50:00 AM	0.4	0.003	0.000
9:51:00 AM	0.4	0.002	0.000
9:52:00 AM	0.3	0.003	0.000
9:53:00 AM	0.3	0.002	0.000
9:54:00 AM	0.4	0.007	0.000
9:55:00 AM	0.4	0.003	0.000
9:56:00 AM	0.4	0.002	0.000
9:57:00 AM	0.4	0.002	0.000
9:58:00 AM	0.4	0.003	0.000
9:59:00 AM	0.5	0.003	0.000
10:00:00 AM	0.6	0.003	0.000
10:01:00 AM	0.5	0.003	0.000
10:02:00 AM	0.6	0.003	0.000
10:03:00 AM	0.6	0.003	0.000
10:04:00 AM	0.6	0.003	0.000
10:05:00 AM	0.6	0.003	0.000
10:06:00 AM	0.6	0.003	0.000
10:07:00 AM	0.6	0.005	0.000
10:08:00 AM	0.7	0.004	0.000
10:09:00 AM	0.7	0.004	0.000
10:10:00 AM	0.7	0.003	0.000
10:11:00 AM	0.6	0.003	0.000
10:12:00 AM	0.7	0.003	0.000
10:13:00 AM	0.8	0.003	0.000
10:14:00 AM	0.8	0.003	0.000
10:15:00 AM	0.8	0.003	0.000
10:16:00 AM	0.8	0.003	0.000
10:17:00 AM	0.8	0.003	0.000
10:18:00 AM	0.8	0.003	0.000
10:19:00 AM	0.8	0.003	0.000
10:20:00 AM	0.8	0.003	0.000
10:21:00 AM	0.9	0.003	0.000
10:22:00 AM	0.9	0.003	0.000
10:23:00 AM	0.9	0.002	0.000
10:24:00 AM	0.8	0.003	0.000
10:25:00 AM	0.9	0.003	0.000
10:26:00 AM	1.1	0.002	0.000
10:27:00 AM	0.9	0.002	0.000
10:28:00 AM	1.0	0.002	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 18, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:29:00 AM	1.0	0.003	0.000
10:30:00 AM	1.0	0.002	0.000
10:31:00 AM	1.0	0.002	0.000
10:32:00 AM	1.1	0.002	0.000
10:33:00 AM	1.1	0.003	0.000
10:34:00 AM	1.4	0.005	0.000
10:35:00 AM	1.1	0.003	0.000
10:36:00 AM	1.1	0.003	0.000
10:37:00 AM	1.0	0.003	0.000
10:38:00 AM	1.0	0.002	0.000
10:39:00 AM	1.1	0.002	0.000
10:40:00 AM	1.1	0.002	0.000
10:41:00 AM	1.1	0.002	0.000
10:42:00 AM	1.1	0.003	0.000
10:43:00 AM	1.0	0.003	0.000
10:44:00 AM	1.1	0.002	0.000
10:45:00 AM	1.1	0.003	0.000
10:46:00 AM	1.2	0.003	0.000
10:47:00 AM	1.1	0.003	0.000
10:48:00 AM	1.2	0.002	0.000
10:49:00 AM	1.2	0.002	0.000
10:50:00 AM	1.2	0.003	0.000
10:51:00 AM	1.1	0.002	0.000
10:52:00 AM	1.2	0.002	0.000
10:53:00 AM	1.2	0.002	0.000
10:54:00 AM	1.2	0.002	0.000
10:55:00 AM	1.2	0.002	0.000
10:56:00 AM	1.3	0.003	0.000
10:57:00 AM	1.3	0.003	0.000
10:58:00 AM	1.2	0.003	0.000
10:59:00 AM	1.2	0.003	0.000
11:00:00 AM	1.2	0.003	0.000
11:01:00 AM	1.3	0.003	0.000
11:02:00 AM	1.3	0.002	0.000
11:03:00 AM	1.4	0.002	0.000
11:04:00 AM	1.3	0.002	0.000
11:05:00 AM	1.3	0.002	0.000
11:06:00 AM	1.3	0.003	0.000
11:07:00 AM	1.3	0.002	0.000
11:08:00 AM	0.0	0.003	0.000
11:09:00 AM	0.0	0.003	0.000
11:10:00 AM	0.0	0.003	0.000
11:11:00 AM	0.0	0.003	0.000
11:12:00 AM	0.0	0.002	0.000
11:13:00 AM	0.0	0.002	0.000
11:14:00 AM	0.0	0.002	0.000
11:15:00 AM	0.0	0.002	0.000
11:16:00 AM	0.0	0.003	0.000
11:17:00 AM	0.0	0.003	0.000
11:18:00 AM	0.0	0.003	0.000
11:19:00 AM	0.0	0.003	0.000
11:20:00 AM	0.0	0.003	0.000
11:21:00 AM	0.1	0.002	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 18, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:22:00 AM	0.0	0.002	0.000
11:23:00 AM	0.0	0.003	0.000
11:24:00 AM	0.0	0.002	0.000
11:25:00 AM	0.0	0.002	0.000
11:26:00 AM	0.0	0.002	0.000
11:27:00 AM	0.1	0.003	0.000
11:28:00 AM	0.1	0.003	0.000
11:29:00 AM	0.1	0.003	0.000
11:30:00 AM	0.0	0.003	0.000
11:31:00 AM	0.1	0.003	0.000
11:32:00 AM	0.1	0.002	0.000
11:33:00 AM	0.1	0.003	0.000
11:34:00 AM	0.0	0.003	0.000
11:35:00 AM	0.1	0.003	0.000
11:36:00 AM	0.1	0.003	0.000
11:37:00 AM	0.1	0.003	0.000
11:38:00 AM	0.1	0.003	0.000
11:39:00 AM	0.1	0.003	0.000
11:40:00 AM	0.1	0.003	0.000
11:41:00 AM	0.1	0.003	0.000
11:42:00 AM	0.2	0.003	0.000
11:43:00 AM	0.0	0.003	0.000
11:44:00 AM	0.1	0.003	0.000
11:45:00 AM	0.1	0.003	0.000
11:46:00 AM	0.1	0.003	0.000
11:47:00 AM	0.2	0.003	0.000
11:48:00 AM	0.1	0.003	0.000
11:49:00 AM	0.1	0.003	0.000
11:50:00 AM	0.1	0.003	0.000
11:51:00 AM	0.3	0.003	0.000
11:52:00 AM	0.2	0.003	0.000
11:53:00 AM	0.2	0.003	0.000
11:54:00 AM	0.2	0.003	0.000
11:55:00 AM	0.2	0.003	0.000
11:56:00 AM	0.2	0.003	0.000
11:57:00 AM	0.3	0.003	0.000
11:58:00 AM	0.2	0.003	0.000
11:59:00 AM	0.1	0.003	0.000
12:00:00 PM	0.2	0.003	0.000
12:01:00 PM	0.2	0.003	0.000
12:02:00 PM	0.2	0.003	0.000
12:03:00 PM	0.2	0.003	0.000
12:04:00 PM	0.2	0.003	0.000
12:05:00 PM	0.2	0.003	0.000
12:06:00 PM	0.2	0.003	0.000
12:07:00 PM	0.2	0.003	0.000
12:08:00 PM	0.2	0.003	0.000
12:09:00 PM	0.1	0.003	0.000
12:10:00 PM	0.2	0.003	0.000
12:11:00 PM	0.2	0.003	0.000
12:12:00 PM	0.2	0.003	0.000
12:13:00 PM	0.2	0.003	0.000
12:14:00 PM	0.2	0.003	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 18, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:15:00 PM	0.2	0.003	0.000
12:16:00 PM	0.2	0.003	0.000
12:17:00 PM	0.2	0.003	0.000
12:18:00 PM	0.2	0.003	0.000
12:19:00 PM	0.2	0.003	0.000
12:20:00 PM	0.2	0.004	0.000
12:21:00 PM	0.2	0.003	0.000
12:22:00 PM	0.2	0.003	0.000
12:23:00 PM	0.2	0.003	0.000
12:24:00 PM	0.3	0.003	0.000
12:25:00 PM	0.3	0.003	0.000
12:26:00 PM	0.3	0.003	0.000
12:27:00 PM	2.2	0.003	0.000
12:28:00 PM	0.3	0.003	0.000
12:29:00 PM	0.2	0.004	0.000
12:30:00 PM	0.2	0.003	0.000
12:31:00 PM	0.3	0.003	0.000
12:32:00 PM	0.3	0.003	0.000
12:33:00 PM	0.3	0.003	0.000
12:34:00 PM	0.3	0.003	0.000
12:35:00 PM	0.3	0.003	0.000
12:36:00 PM	0.3	0.003	0.000
12:37:00 PM	0.2	0.003	0.000
12:38:00 PM	0.3	0.003	0.000
12:39:00 PM	0.3	0.003	0.000
12:40:00 PM	0.3	0.003	0.000
12:41:00 PM	0.4	0.005	0.000
12:42:00 PM	0.3	0.004	0.000
12:43:00 PM	0.3	0.004	0.000
12:44:00 PM	0.3	0.004	0.000
12:45:00 PM	0.2	0.003	0.000
12:46:00 PM	0.3	0.003	0.000
12:47:00 PM	0.3	0.003	0.000
12:48:00 PM	0.4	0.004	0.000
12:49:00 PM	0.3	0.004	0.000
12:50:00 PM	0.3	0.004	0.000
12:51:00 PM	0.3	0.004	0.000
12:52:00 PM	0.4	0.003	0.000
12:53:00 PM	0.3	0.003	0.000
12:54:00 PM	0.3	0.003	0.000
12:55:00 PM	0.4	0.003	0.000
12:56:00 PM	0.4	0.003	0.000
12:57:00 PM	0.3	0.004	0.000
12:58:00 PM	0.4	0.004	0.000
12:59:00 PM	0.4	0.003	0.000
1:00:00 PM	0.4	0.003	0.000
1:01:00 PM	0.4	0.003	0.000
1:02:00 PM	0.4	0.003	0.000
1:03:00 PM	0.4	0.003	0.000
1:04:00 PM	0.4	0.003	0.000
1:05:00 PM	0.4	0.003	0.000
1:06:00 PM	0.4	0.004	0.000
1:07:00 PM	0.4	0.003	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 18, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:08:00 PM	0.4	0.003	0.000
1:09:00 PM	0.4	0.003	0.000
1:10:00 PM	0.3	0.003	0.000
1:11:00 PM	0.4	0.003	0.000
1:12:00 PM	0.4	0.003	0.000
1:13:00 PM	0.3	0.003	0.000
1:14:00 PM	0.3	0.003	0.000
1:15:00 PM	0.4	0.003	0.000
1:16:00 PM	0.3	0.003	0.000
1:17:00 PM	0.4	0.005	0.000
1:18:00 PM	0.3	0.004	0.000
1:19:00 PM	0.3	0.003	0.000
1:20:00 PM	0.3	0.004	0.000
1:21:00 PM	0.4	0.004	0.000
1:22:00 PM	0.3	0.004	0.000
1:23:00 PM	0.4	0.004	0.000
1:24:00 PM	0.3	0.003	0.000
1:25:00 PM	0.4	0.005	0.000
1:26:00 PM	0.4	0.007	0.000
1:27:00 PM	0.4	0.006	0.000
1:28:00 PM	0.3	0.006	0.000
1:29:00 PM	0.4	0.005	0.000
1:30:00 PM	0.4	0.005	0.000
1:31:00 PM	0.4	0.006	0.000
1:32:00 PM	0.3	0.006	0.000
1:33:00 PM	0.4	0.007	0.000
1:34:00 PM	0.4	0.006	0.000
1:35:00 PM	0.4	0.006	0.000
1:36:00 PM	0.4	0.006	0.000
1:37:00 PM	0.4	0.004	0.000
1:38:00 PM	0.3	0.004	0.000
1:39:00 PM	0.3	0.003	0.000
1:40:00 PM	0.4	0.003	0.000
1:41:00 PM	0.3	0.003	0.000
1:42:00 PM	0.4	0.003	0.000
1:43:00 PM	0.4	0.003	0.000
1:44:00 PM	0.5	0.003	0.000
1:45:00 PM	0.4	0.003	0.000
1:46:00 PM	0.4	0.003	0.000
1:47:00 PM	0.4	0.003	0.000
1:48:00 PM	0.4	0.003	0.000
1:49:00 PM	0.4	0.003	0.000
1:50:00 PM	0.4	0.004	0.000
1:51:00 PM	0.4	0.003	0.000
1:52:00 PM	0.4	0.003	0.000
1:53:00 PM	2.6	0.004	0.000
1:54:00 PM	0.6	0.004	0.000
1:55:00 PM	0.5	0.003	0.000
1:56:00 PM	0.4	0.003	0.000
1:57:00 PM	0.4	0.003	0.000
1:58:00 PM	0.3	0.003	0.000
1:59:00 PM	0.3	0.003	0.000
2:00:00 PM	0.3	0.004	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 18, 2020

[illegible]

LIRR Group D Substations

Bayside Substation

Work Zone

November 18, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:07:00 AM	0.0	0.005	0.000
10:08:00 AM	0.0	0.004	0.000
10:09:00 AM	0.0	0.003	0.000
10:10:00 AM	0.0	0.004	0.000
10:11:00 AM	0.0	0.004	0.000
10:12:00 AM	0.0	0.004	0.000
10:13:00 AM	0.0	0.005	0.000
10:14:00 AM	0.0	0.004	0.000
10:15:00 AM	0.0	0.003	0.000
10:16:00 AM	0.0	0.004	0.000
10:17:00 AM	0.0	0.004	0.000
10:18:00 AM	0.0	0.003	0.000
10:19:00 AM	0.0	0.003	0.000
10:20:00 AM	0.0	0.003	0.000
10:21:00 AM	0.0	0.003	0.000
10:22:00 AM	0.0	0.003	0.000
10:23:00 AM	0.0	0.004	0.000
10:24:00 AM	0.0	0.003	0.000
10:25:00 AM	0.0	0.007	0.000
10:26:00 AM	0.0	0.003	0.000
10:27:00 AM	0.0	0.003	0.000
10:28:00 AM	0.0	0.003	0.000
10:29:00 AM	0.0	0.004	0.000
10:30:00 AM	0.0	0.003	0.000
10:31:00 AM	0.0	0.003	0.000
10:32:00 AM	0.0	0.003	0.000
10:33:00 AM	0.0	0.003	0.000
10:34:00 AM	0.0	0.004	0.000
10:35:00 AM	0.0	0.003	0.000
10:36:00 AM	0.0	0.003	0.000
10:37:00 AM	0.0	0.003	0.000
10:38:00 AM	0.0	0.003	0.000
10:39:00 AM	0.0	0.003	0.000
10:40:00 AM	0.0	0.003	0.000
10:41:00 AM	0.0	0.003	0.000
10:42:00 AM	0.0	0.003	0.000
10:43:00 AM	0.0	0.003	0.000
10:44:00 AM	0.0	0.003	0.000
10:45:00 AM	0.0	0.003	0.000
10:46:00 AM	0.0	0.003	0.000
10:47:00 AM	0.0	0.003	0.000
10:48:00 AM	0.0	0.003	0.000
10:49:00 AM	0.0	0.003	0.000
10:50:00 AM	0.0	0.003	0.000
10:51:00 AM	0.0	0.003	0.000
10:52:00 AM	0.0	0.003	0.000
10:53:00 AM	0.0	0.003	0.000
10:54:00 AM	0.0	0.003	0.000
10:55:00 AM	0.0	0.005	0.000
10:56:00 AM	0.0	0.003	0.000
10:57:00 AM	0.0	0.003	0.000
10:58:00 AM	0.0	0.003	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 18, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:59:00 AM	0.0	0.003	0.000
11:00:00 AM	0.0	0.003	0.000
11:01:00 AM	0.0	0.003	0.000
11:02:00 AM	0.0	0.003	0.000
11:03:00 AM	0.0	0.002	0.000
11:04:00 AM	0.0	0.002	0.000
11:05:00 AM	0.0	0.002	0.000
11:06:00 AM	0.0	0.003	0.000
11:07:00 AM	0.0	0.003	0.000
11:08:00 AM	0.0	0.003	0.000
11:09:00 AM	0.0	0.003	0.000
11:10:00 AM	0.0	0.003	0.000
11:11:00 AM	0.0	0.002	0.000
11:12:00 AM	0.0	0.003	0.000
11:13:00 AM	0.0	0.002	0.000
11:14:00 AM	0.0	0.003	0.000
11:15:00 AM	0.0	0.003	0.000
11:16:00 AM	0.0	0.003	0.000
11:17:00 AM	0.0	0.003	0.000
11:18:00 AM	0.0	0.004	0.000
11:19:00 AM	0.0	0.003	0.000
11:20:00 AM	0.0	0.003	0.000
11:21:00 AM	0.0	0.004	0.000
11:22:00 AM	0.0	0.003	0.000
11:23:00 AM	0.0	0.002	0.000
11:24:00 AM	0.0	0.002	0.000
11:25:00 AM	0.0	0.003	0.000
11:26:00 AM	0.0	0.002	0.000
11:27:00 AM	0.0	0.003	0.000
11:28:00 AM	0.0	0.003	0.000
11:29:00 AM	0.0	0.003	0.000
11:30:00 AM	0.0	0.003	0.000
11:31:00 AM	0.0	0.003	0.000
11:32:00 AM	0.0	0.002	0.000
11:33:00 AM	0.0	0.003	0.000
11:34:00 AM	0.0	0.002	0.000
11:35:00 AM	0.0	0.003	0.000
11:36:00 AM	0.0	0.003	0.000
11:37:00 AM	0.0	0.004	0.000
11:38:00 AM	0.0	0.003	0.000
11:39:00 AM	0.0	0.004	0.000
11:40:00 AM	0.0	0.003	0.000
11:41:00 AM	0.0	0.003	0.000
11:42:00 AM	0.0	0.003	0.000
11:43:00 AM	0.0	0.004	0.000
11:44:00 AM	0.0	0.003	0.000
11:45:00 AM	0.0	0.004	0.000
11:46:00 AM	0.0	0.004	0.000
11:47:00 AM	0.0	0.003	0.000
11:48:00 AM	0.0	0.003	0.000
11:49:00 AM	0.0	0.003	0.000
11:50:00 AM	0.0	0.003	0.000
11:51:00 AM	0.0	0.003	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 18, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:52:00 AM	0.0	0.003	0.000
11:53:00 AM	0.0	0.003	0.000
11:54:00 AM	0.0	0.003	0.000
11:55:00 AM	0.0	0.003	0.000
11:56:00 AM	0.0	0.003	0.000
11:57:00 AM	0.0	0.003	0.000
11:58:00 AM	0.0	0.003	0.000
11:59:00 AM	0.0	0.003	0.000
12:00:00 PM	0.0	0.003	0.000
12:01:00 PM	0.0	0.003	0.000
12:02:00 PM	0.0	0.003	0.000
12:03:00 PM	0.0	0.003	0.000
12:04:00 PM	0.0	0.003	0.000
12:05:00 PM	0.0	0.003	0.000
12:06:00 PM	0.0	0.003	0.000
12:07:00 PM	0.0	0.003	0.000
12:08:00 PM	0.0	0.003	0.000
12:09:00 PM	0.0	0.003	0.000
12:10:00 PM	0.0	0.003	0.000
12:11:00 PM	0.0	0.003	0.000
12:12:00 PM	0.0	0.003	0.000
12:13:00 PM	0.0	0.003	0.000
12:14:00 PM	0.0	0.003	0.000
12:15:00 PM	0.0	0.003	0.000
12:16:00 PM	0.0	0.003	0.000
12:17:00 PM	0.0	0.003	0.000
12:18:00 PM	0.0	0.003	0.000
12:19:00 PM	0.0	0.003	0.000
12:20:00 PM	0.0	0.003	0.000
12:21:00 PM	0.0	0.003	0.000
12:22:00 PM	0.0	0.003	0.000
12:23:00 PM	0.0	0.003	0.000
12:24:00 PM	0.0	0.003	0.000
12:25:00 PM	0.0	0.003	0.000
12:26:00 PM	0.0	0.003	0.000
12:27:00 PM	0.0	0.003	0.000
12:28:00 PM	0.0	0.003	0.000
12:29:00 PM	0.0	0.004	0.000
12:30:00 PM	0.0	0.003	0.000
12:31:00 PM	0.0	0.003	0.000
12:32:00 PM	0.0	0.003	0.000
12:33:00 PM	0.0	0.003	0.000
12:34:00 PM	0.0	0.003	0.000
12:35:00 PM	0.0	0.003	0.000
12:36:00 PM	0.0	0.003	0.000
12:37:00 PM	0.0	0.003	0.000
12:38:00 PM	0.0	0.004	0.000
12:39:00 PM	0.0	0.004	0.000
12:40:00 PM	0.0	0.003	0.000
12:41:00 PM	0.0	0.004	0.000
12:42:00 PM	0.0	0.005	0.000
12:43:00 PM	0.0	0.004	0.000
12:44:00 PM	0.0	0.005	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 18, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:45:00 PM	0.0	0.004	0.000
12:46:00 PM	0.0	0.004	0.000
12:47:00 PM	0.0	0.003	0.000
12:48:00 PM	0.0	0.005	0.000
12:49:00 PM	0.0	0.004	0.000
12:50:00 PM	0.0	0.004	0.000
12:51:00 PM	0.0	0.005	0.000
12:52:00 PM	0.0	0.004	0.000
12:53:00 PM	0.0	0.004	0.000
12:54:00 PM	0.0	0.003	0.000
12:55:00 PM	0.0	0.004	0.000
12:56:00 PM	0.0	0.004	0.000
12:57:00 PM	0.0	0.004	0.000
12:58:00 PM	0.0	0.003	0.000
12:59:00 PM	0.0	0.003	0.000
1:00:00 PM	0.0	0.003	0.000
1:01:00 PM	0.0	0.003	0.000
1:02:00 PM	0.0	0.003	0.000
1:03:00 PM	0.0	0.003	0.000
1:04:00 PM	0.0	0.004	0.000
1:05:00 PM	0.0	0.004	0.000
1:06:00 PM	0.0	0.003	0.000
1:07:00 PM	0.0	0.003	0.000
1:08:00 PM	0.0	0.003	0.000
1:09:00 PM	0.0	0.003	0.000
1:10:00 PM	0.0	0.003	0.000
1:11:00 PM	0.0	0.003	0.000
1:12:00 PM	0.0	0.004	0.000
1:13:00 PM	0.0	0.003	0.000
1:14:00 PM	0.0	0.004	0.000
1:15:00 PM	0.0	0.004	0.000
1:16:00 PM	0.0	0.003	0.000
1:17:00 PM	0.0	0.003	0.000
1:18:00 PM	0.0	0.003	0.000
1:19:00 PM	0.0	0.003	0.000
1:20:00 PM	0.0	0.004	0.000
1:21:00 PM	0.0	0.004	0.000
1:22:00 PM	0.0	0.004	0.000
1:23:00 PM	0.0	0.004	0.000
1:24:00 PM	0.0	0.004	0.000
1:25:00 PM	0.0	0.005	0.000
1:26:00 PM	0.0	0.007	0.000
1:27:00 PM	0.0	0.005	0.000
1:28:00 PM	0.0	0.006	0.000
1:29:00 PM	0.0	0.007	0.000
1:30:00 PM	0.0	0.006	0.000
1:31:00 PM	0.0	0.007	0.000
1:32:00 PM	0.0	0.006	0.000
1:33:00 PM	0.0	0.007	0.000
1:34:00 PM	0.0	0.007	0.000
1:35:00 PM	0.0	0.006	0.000
1:36:00 PM	0.0	0.006	0.000
1:37:00 PM	0.0	0.005	0.000

LIRR Group D Substations
Bayside Substation
Work Zone
November 18, 2020

[illegible]

LIRR Group D Substations

Bayside Substation

Downwind

November 18, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:01:00 AM	0.1	0.003	0.000
10:02:00 AM	0.1	0.029	0.000
10:03:00 AM	0.1	0.004	0.000
10:04:00 AM	0.1	0.005	0.000
10:05:00 AM	0.1	0.004	0.000
10:06:00 AM	0.1	0.004	0.000
10:07:00 AM	0.1	0.004	0.000
10:08:00 AM	0.1	0.004	0.000
10:09:00 AM	0.1	0.005	0.000
10:10:00 AM	0.1	0.005	0.000
10:11:00 AM	0.1	0.004	0.000
10:12:00 AM	0.1	0.005	0.000
10:13:00 AM	0.1	0.005	0.000
10:14:00 AM	0.1	0.007	0.000
10:15:00 AM	0.1	0.004	0.000
10:16:00 AM	0.1	0.004	0.000
10:17:00 AM	0.1	0.005	0.000
10:18:00 AM	0.1	0.004	0.000
10:19:00 AM	0.1	0.004	0.000
10:20:00 AM	0.1	0.004	0.000
10:21:00 AM	0.1	0.005	0.000
10:22:00 AM	0.1	0.004	0.000
10:23:00 AM	0.1	0.009	0.000
10:24:00 AM	0.1	0.004	0.000
10:25:00 AM	0.1	0.005	0.000
10:26:00 AM	0.1	0.004	0.000
10:27:00 AM	0.1	0.003	0.000
10:28:00 AM	0.1	0.005	0.000
10:29:00 AM	0.1	0.006	0.000
10:30:00 AM	0.1	0.004	0.000
10:31:00 AM	0.1	0.004	0.000
10:32:00 AM	0.1	0.003	0.000
10:33:00 AM	0.1	0.003	0.000
10:34:00 AM	0.1	0.004	0.000
10:35:00 AM	0.1	0.004	0.000
10:36:00 AM	0.1	0.003	0.000
10:37:00 AM	0.2	0.003	0.000
10:38:00 AM	0.1	0.004	0.000
10:39:00 AM	0.2	0.004	0.000
10:40:00 AM	0.2	0.004	0.000
10:41:00 AM	0.2	0.003	0.000
10:42:00 AM	0.2	0.004	0.000
10:43:00 AM	0.2	0.004	0.000
10:44:00 AM	0.2	0.002	0.000
10:45:00 AM	0.2	0.003	0.000
10:46:00 AM	0.2	0.004	0.000
10:47:00 AM	0.2	0.003	0.000
10:48:00 AM	0.2	0.003	0.000
10:49:00 AM	0.2	0.004	0.000
10:50:00 AM	0.2	0.003	0.000
10:51:00 AM	0.2	0.003	0.000
10:52:00 AM	0.2	0.003	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 18, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:53:00 AM	0.2	0.003	0.000
10:54:00 AM	0.2	0.003	0.000
10:55:00 AM	0.2	0.003	0.000
10:56:00 AM	0.2	0.006	0.000
10:57:00 AM	0.2	0.003	0.000
10:58:00 AM	0.2	0.003	0.000
10:59:00 AM	0.2	0.003	0.000
11:00:00 AM	0.2	0.002	0.000
11:01:00 AM	0.2	0.002	0.000
11:02:00 AM	0.2	0.002	0.000
11:03:00 AM	0.2	0.002	0.000
11:04:00 AM	0.2	0.003	0.000
11:05:00 AM	0.2	0.003	0.000
11:06:00 AM	0.2	0.003	0.000
11:07:00 AM	0.2	0.003	0.000
11:08:00 AM	0.2	0.003	0.000
11:09:00 AM	0.2	0.003	0.000
11:10:00 AM	0.2	0.003	0.000
11:11:00 AM	0.2	0.003	0.000
11:12:00 AM	0.2	0.003	0.000
11:13:00 AM	0.2	0.003	0.000
11:14:00 AM	0.2	0.003	0.000
11:15:00 AM	0.2	0.002	0.000
11:16:00 AM	0.2	0.002	0.000
11:17:00 AM	0.2	0.002	0.000
11:18:00 AM	0.2	0.002	0.000
11:19:00 AM	0.2	0.002	0.000
11:20:00 AM	0.2	0.002	0.000
11:21:00 AM	0.2	0.002	0.000
11:22:00 AM	0.2	0.002	0.000
11:23:00 AM	0.2	0.002	0.000
11:24:00 AM	0.2	0.002	0.000
11:25:00 AM	0.2	0.002	0.000
11:26:00 AM	0.2	0.003	0.000
11:27:00 AM	0.2	0.002	0.000
11:28:00 AM	0.2	0.005	0.000
11:29:00 AM	0.2	0.003	0.000
11:30:00 AM	0.2	0.002	0.000
11:31:00 AM	0.2	0.003	0.000
11:32:00 AM	0.2	0.004	0.000
11:33:00 AM	0.2	0.003	0.000
11:34:00 AM	0.2	0.003	0.000
11:35:00 AM	0.2	0.003	0.000
11:36:00 AM	0.2	0.002	0.000
11:37:00 AM	0.2	0.002	0.000
11:38:00 AM	0.2	0.003	0.000
11:39:00 AM	0.2	0.003	0.000
11:40:00 AM	0.2	0.002	0.000
11:41:00 AM	0.2	0.003	0.000
11:42:00 AM	0.2	0.003	0.000
11:43:00 AM	0.2	0.004	0.000
11:44:00 AM	0.2	0.002	0.000
11:45:00 AM	0.2	0.002	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 18, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:46:00 AM	0.2	0.002	0.000
11:47:00 AM	0.2	0.002	0.000
11:48:00 AM	0.2	0.002	0.000
11:49:00 AM	0.2	0.002	0.000
11:50:00 AM	0.2	0.002	0.000
11:51:00 AM	0.2	0.002	0.000
11:52:00 AM	0.2	0.003	0.000
11:53:00 AM	0.2	0.004	0.000
11:54:00 AM	0.2	0.004	0.000
11:55:00 AM	0.2	0.004	0.000
11:56:00 AM	0.2	0.003	0.000
11:57:00 AM	0.2	0.002	0.000
11:58:00 AM	0.2	0.003	0.000
11:59:00 AM	0.2	0.003	0.000
12:00:00 PM	0.2	0.002	0.000
12:01:00 PM	0.2	0.003	0.000
12:02:00 PM	0.2	0.003	0.000
12:03:00 PM	0.2	0.003	0.000
12:04:00 PM	0.2	0.003	0.000
12:05:00 PM	0.2	0.009	0.000
12:06:00 PM	0.2	0.003	0.000
12:07:00 PM	0.2	0.003	0.000
12:08:00 PM	0.2	0.003	0.000
12:09:00 PM	0.2	0.003	0.000
12:10:00 PM	0.2	0.003	0.000
12:11:00 PM	0.2	0.003	0.000
12:12:00 PM	0.2	0.003	0.000
12:13:00 PM	0.2	0.003	0.000
12:14:00 PM	0.2	0.003	0.000
12:15:00 PM	0.2	0.003	0.000
12:16:00 PM	0.2	0.002	0.000
12:17:00 PM	0.2	0.003	0.000
12:18:00 PM	0.2	0.003	0.000
12:19:00 PM	0.2	0.003	0.000
12:20:00 PM	0.2	0.003	0.000
12:21:00 PM	0.2	0.003	0.000
12:22:00 PM	0.2	0.003	0.000
12:23:00 PM	0.2	0.003	0.000
12:24:00 PM	0.2	0.002	0.000
12:25:00 PM	0.2	0.002	0.000
12:26:00 PM	0.2	0.003	0.000
12:27:00 PM	0.2	0.002	0.000
12:28:00 PM	0.2	0.002	0.000
12:29:00 PM	0.2	0.003	0.000
12:30:00 PM	0.2	0.003	0.000
12:31:00 PM	0.2	0.002	0.000
12:32:00 PM	0.2	0.002	0.000
12:33:00 PM	0.2	0.002	0.000
12:34:00 PM	0.2	0.003	0.000
12:35:00 PM	0.2	0.003	0.000
12:36:00 PM	0.2	0.002	0.000
12:37:00 PM	0.2	0.002	0.000
12:38:00 PM	0.2	0.003	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 18, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:39:00 PM	0.2	0.002	0.000
12:40:00 PM	0.2	0.003	0.000
12:41:00 PM	0.2	0.004	0.000
12:42:00 PM	0.2	0.004	0.000
12:43:00 PM	0.2	0.004	0.000
12:44:00 PM	0.2	0.003	0.000
12:45:00 PM	0.2	0.002	0.000
12:46:00 PM	0.2	0.002	0.000
12:47:00 PM	0.2	0.002	0.000
12:48:00 PM	0.2	0.003	0.000
12:49:00 PM	0.2	0.002	0.000
12:50:00 PM	0.2	0.003	0.000
12:51:00 PM	0.2	0.003	0.000
12:52:00 PM	0.2	0.004	0.000
12:53:00 PM	0.2	0.002	0.000
12:54:00 PM	0.2	0.002	0.000
12:55:00 PM	0.2	0.003	0.000
12:56:00 PM	0.2	0.003	0.000
12:57:00 PM	0.2	0.003	0.000
12:58:00 PM	0.2	0.003	0.000
12:59:00 PM	0.2	0.004	0.000
1:00:00 PM	0.2	0.002	0.000
1:01:00 PM	0.2	0.005	0.000
1:02:00 PM	0.2	0.002	0.000
1:03:00 PM	0.2	0.002	0.000
1:04:00 PM	0.2	0.003	0.000
1:05:00 PM	0.2	0.003	0.000
1:06:00 PM	0.2	0.003	0.000
1:07:00 PM	0.2	0.002	0.000
1:08:00 PM	0.2	0.003	0.000
1:09:00 PM	0.2	0.003	0.000
1:10:00 PM	0.2	0.002	0.000
1:11:00 PM	0.2	0.002	0.000
1:12:00 PM	0.2	0.002	0.000
1:13:00 PM	0.2	0.002	0.000
1:14:00 PM	0.2	0.002	0.000
1:15:00 PM	0.2	0.002	0.000
1:16:00 PM	0.2	0.002	0.000
1:17:00 PM	0.2	0.002	0.000
1:18:00 PM	0.2	0.002	0.000
1:19:00 PM	0.2	0.002	0.000
1:20:00 PM	0.2	0.004	0.000
1:21:00 PM	0.2	0.003	0.000
1:22:00 PM	0.2	0.003	0.000
1:23:00 PM	0.2	0.003	0.000
1:24:00 PM	0.2	0.003	0.000
1:25:00 PM	0.2	0.003	0.000
1:26:00 PM	0.2	0.006	0.000
1:27:00 PM	0.2	0.005	0.000
1:28:00 PM	0.2	0.006	0.000
1:29:00 PM	0.2	0.006	0.000
1:30:00 PM	0.2	0.005	0.000
1:31:00 PM	0.2	0.006	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 18, 2020

[illegible]

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From SW ~ 11 mph	Date:	11/19/20
Project Name:	LIRR Group D Substation Remediation-Bayside Site-V00388-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. Aarco continues to excavate area #3 utilizing the soil guzzler truck and manually digging methods. Soils directly next to the transformer slab were excavated and directly backfilled and compacted. As utility conduits are exposed Aarco installs wooden supports to support the conduit. Aarco backfilling the area around the transformer in ten (10) inch lifts compacting each lift with a gas compactor. Soil mechanics onsite to test compaction of the lifts. All backfilling compacted to 95% prior to continue backfilling. All excavated soils are stockpiled in the eastern edge of area #3. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site were sampled but not submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/ m ³)	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/m ³)
UP Wind	0.0	0.009	0.000	0.0	0.011	0.000
Down Wind	0.1	0.011	0.000	0.2	0.017	0.000
Work Zone	0.0	0.010	0.000	0.0	0.012	0.000

Exceedances (Since Last Report): None

Problems Encountered: PID on downwind monitor did not record data for the first 24 minuets due to loose cable.

Planned Activities for the Next Day/ Week:

- We will load out soils excavated from area #3 and continue excavations of the same.



Aarco continues to excavate the along the western side of the transformer slab.



Aarco installing PVC tube to allow endpoint samples to be surveyed.

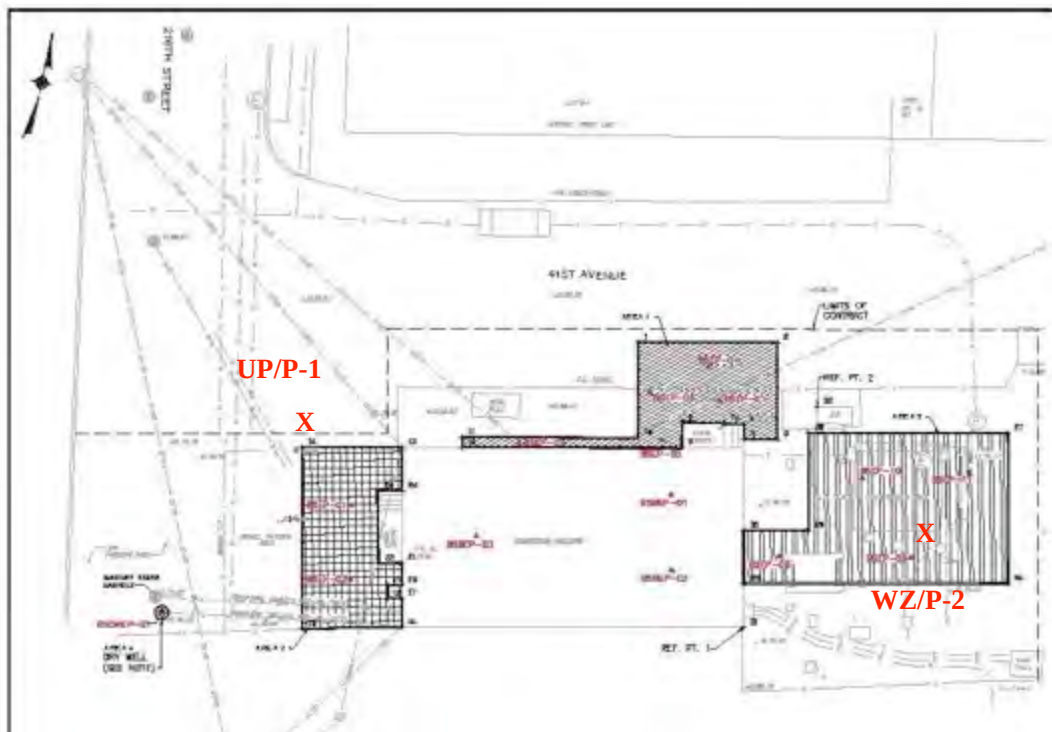


Aarco compacting all backfill with a gas compactor.



Soil Mechanics testing backfill for 95% compaction, all lifts pass.

Monitoring Locations



LIRR Group D Substations

Bayside Substation

Upwind

November 19, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:08:00 AM	0.0	0.0	0.000
10:09:00 AM	0.0	0.009	0.000
10:10:00 AM	0.0	0.009	0.000
10:11:00 AM	0.0	0.009	0.000
10:12:00 AM	0.0	0.009	0.000
10:13:00 AM	0.0	0.014	0.000
10:14:00 AM	0.0	0.010	0.000
10:15:00 AM	0.0	0.009	0.000
10:16:00 AM	0.0	0.009	0.000
10:17:00 AM	0.0	0.009	0.000
10:18:00 AM	0.0	0.009	0.000
10:19:00 AM	0.0	0.009	0.000
10:20:00 AM	0.0	0.009	0.000
10:21:00 AM	0.0	0.009	0.000
10:22:00 AM	0.0	0.009	0.000
10:23:00 AM	0.0	0.009	0.000
10:24:00 AM	0.0	0.009	0.000
10:25:00 AM	0.0	0.009	0.000
10:26:00 AM	0.0	0.009	0.000
10:27:00 AM	0.0	0.008	0.000
10:28:00 AM	0.0	0.009	0.000
10:29:00 AM	0.0	0.009	0.000
10:30:00 AM	0.0	0.009	0.000
10:31:00 AM	0.0	0.008	0.000
10:32:00 AM	0.0	0.008	0.000
10:33:00 AM	0.0	0.008	0.000
10:34:00 AM	0.0	0.008	0.000
10:35:00 AM	0.0	0.008	0.000
10:36:00 AM	0.0	0.008	0.000
10:37:00 AM	0.0	0.008	0.000
10:38:00 AM	0.0	0.008	0.000
10:39:00 AM	0.0	0.008	0.000
10:40:00 AM	0.0	0.008	0.000
10:41:00 AM	0.0	0.008	0.000
10:42:00 AM	0.0	0.008	0.000
10:43:00 AM	0.0	0.008	0.000
10:44:00 AM	0.0	0.008	0.000
10:45:00 AM	0.0	0.008	0.000
10:46:00 AM	0.0	0.008	0.000
10:47:00 AM	0.0	0.008	0.000
10:48:00 AM	0.0	0.008	0.000
10:49:00 AM	0.0	0.009	0.000
10:50:00 AM	0.0	0.009	0.000
10:51:00 AM	0.0	0.008	0.000
10:52:00 AM	0.0	0.009	0.000
10:53:00 AM	0.0	0.009	0.000
10:54:00 AM	0.0	0.009	0.000
10:55:00 AM	0.0	0.008	0.000
10:56:00 AM	0.0	0.008	0.000
10:57:00 AM	0.0	0.008	0.000
10:58:00 AM	0.0	0.008	0.000
10:59:00 AM	0.0	0.009	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 19, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:00:00 AM	0.0	0.009	0.000
11:01:00 AM	0.0	0.009	0.000
11:02:00 AM	0.0	0.009	0.000
11:03:00 AM	0.0	0.009	0.000
11:04:00 AM	0.0	0.009	0.000
11:05:00 AM	0.0	0.009	0.000
11:06:00 AM	0.0	0.009	0.000
11:07:00 AM	0.0	0.009	0.000
11:08:00 AM	0.0	0.009	0.000
11:09:00 AM	0.0	0.009	0.000
11:10:00 AM	0.0	0.009	0.000
11:11:00 AM	0.0	0.008	0.000
11:12:00 AM	0.0	0.009	0.000
11:13:00 AM	0.0	0.010	0.000
11:14:00 AM	0.0	0.010	0.000
11:15:00 AM	0.0	0.010	0.000
11:16:00 AM	0.0	0.010	0.000
11:17:00 AM	0.0	0.010	0.000
11:18:00 AM	0.0	0.009	0.000
11:19:00 AM	0.0	0.009	0.000
11:20:00 AM	0.0	0.010	0.000
11:21:00 AM	0.0	0.009	0.000
11:22:00 AM	0.0	0.009	0.000
11:23:00 AM	0.0	0.009	0.000
11:24:00 AM	0.0	0.009	0.000
11:25:00 AM	0.0	0.010	0.000
11:26:00 AM	0.0	0.009	0.000
11:27:00 AM	0.0	0.008	0.000
11:28:00 AM	0.0	0.008	0.000
11:29:00 AM	0.0	0.009	0.000
11:30:00 AM	0.0	0.010	0.000
11:31:00 AM	0.0	0.011	0.000
11:32:00 AM	0.0	0.010	0.000
11:33:00 AM	0.0	0.009	0.000
11:34:00 AM	0.0	0.010	0.000
11:35:00 AM	0.0	0.009	0.000
11:36:00 AM	0.0	0.009	0.000
11:37:00 AM	0.0	0.009	0.000
11:38:00 AM	0.0	0.008	0.000
11:39:00 AM	0.0	0.008	0.000
11:40:00 AM	0.0	0.009	0.000
11:41:00 AM	0.0	0.010	0.000
11:42:00 AM	0.0	0.009	0.000
11:43:00 AM	0.0	0.009	0.000
11:44:00 AM	0.0	0.009	0.000
11:45:00 AM	0.0	0.009	0.000
11:46:00 AM	0.0	0.009	0.000
11:47:00 AM	0.0	0.009	0.000
11:48:00 AM	0.0	0.009	0.000
11:49:00 AM	0.0	0.010	0.000
11:50:00 AM	0.0	0.009	0.000
11:51:00 AM	0.0	0.009	0.000
11:52:00 AM	0.0	0.008	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 19, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:53:00 AM	0.0	0.008	0.000
11:54:00 AM	0.0	0.008	0.000
11:55:00 AM	0.0	0.008	0.000
11:56:00 AM	0.0	0.010	0.000
11:57:00 AM	0.0	0.011	0.000
11:58:00 AM	0.0	0.009	0.000
11:59:00 AM	0.0	0.008	0.000
12:00:00 PM	0.0	0.009	0.000
12:01:00 PM	0.0	0.009	0.000
12:02:00 PM	0.0	0.009	0.000
12:03:00 PM	0.0	0.009	0.000
12:04:00 PM	0.0	0.008	0.000
12:05:00 PM	0.0	0.008	0.000
12:06:00 PM	0.0	0.008	0.000
12:07:00 PM	0.0	0.008	0.000
12:08:00 PM	0.0	0.008	0.000
12:09:00 PM	0.0	0.008	0.000
12:10:00 PM	0.0	0.010	0.000
12:11:00 PM	0.0	0.009	0.000
12:12:00 PM	0.0	0.009	0.000
12:13:00 PM	0.0	0.009	0.000
12:14:00 PM	0.0	0.009	0.000
12:15:00 PM	0.0	0.012	0.000
12:16:00 PM	0.0	0.011	0.000
12:17:00 PM	0.0	0.009	0.000
12:18:00 PM	0.0	0.010	0.000
12:19:00 PM	0.0	0.010	0.000
12:20:00 PM	0.0	0.010	0.000
12:21:00 PM	0.0	0.010	0.000
12:22:00 PM	0.0	0.009	0.000
12:23:00 PM	0.0	0.009	0.000
12:24:00 PM	0.0	0.009	0.000
12:25:00 PM	0.0	0.009	0.000
12:26:00 PM	0.0	0.009	0.000
12:27:00 PM	0.0	0.009	0.000
12:28:00 PM	0.0	0.010	0.000
12:29:00 PM	0.0	0.009	0.000
12:30:00 PM	0.0	0.010	0.000
12:31:00 PM	0.0	0.009	0.000
12:32:00 PM	0.0	0.009	0.000
12:33:00 PM	0.0	0.010	0.000
12:34:00 PM	0.0	0.011	0.000
12:35:00 PM	0.0	0.012	0.000
12:36:00 PM	0.0	0.012	0.000
12:37:00 PM	0.0	0.010	0.000
12:38:00 PM	0.0	0.010	0.000
12:39:00 PM	0.0	0.010	0.000
12:40:00 PM	0.0	0.010	0.000
12:41:00 PM	0.0	0.012	0.000
12:42:00 PM	0.0	0.011	0.000
12:43:00 PM	0.0	0.010	0.000
12:44:00 PM	0.0	0.010	0.000
12:45:00 PM	0.0	0.010	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 19, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:46:00 PM	0.0	0.010	0.000
12:47:00 PM	0.0	0.009	0.000
12:48:00 PM	0.0	0.009	0.000
12:49:00 PM	0.0	0.009	0.000
12:50:00 PM	0.0	0.008	0.000
12:51:00 PM	0.0	0.009	0.000
12:52:00 PM	0.0	0.009	0.000
12:53:00 PM	0.0	0.009	0.000
12:54:00 PM	0.0	0.009	0.000
12:55:00 PM	0.0	0.008	0.000
12:56:00 PM	0.0	0.008	0.000
12:57:00 PM	0.0	0.008	0.000
12:58:00 PM	0.0	0.009	0.000
12:59:00 PM	0.0	0.008	0.000
1:00:00 PM	0.0	0.008	0.000
1:01:00 PM	0.0	0.009	0.000
1:02:00 PM	0.0	0.009	0.000
1:03:00 PM	0.0	0.008	0.000
1:04:00 PM	0.0	0.008	0.000
1:05:00 PM	0.0	0.008	0.000
1:06:00 PM	0.0	0.009	0.000
1:07:00 PM	0.0	0.009	0.000
1:08:00 PM	0.0	0.009	0.000
1:09:00 PM	0.0	0.009	0.000
1:10:00 PM	0.0	0.009	0.000
1:11:00 PM	0.0	0.009	0.000
1:12:00 PM	0.0	0.009	0.000
1:13:00 PM	0.0	0.009	0.000
1:14:00 PM	0.0	0.009	0.000
1:15:00 PM	0.0	0.008	0.000
1:16:00 PM	0.0	0.008	0.000
1:17:00 PM	0.0	0.009	0.000
1:18:00 PM	0.0	0.009	0.000
1:19:00 PM	0.0	0.010	0.000
1:20:00 PM	0.0	0.010	0.000
1:21:00 PM	0.0	0.010	0.000
1:22:00 PM	0.0	0.010	0.000
1:23:00 PM	0.0	0.010	0.000
1:24:00 PM	0.0	0.014	0.000
1:25:00 PM	0.0	0.015	0.000
1:26:00 PM	0.0	0.011	0.000
1:27:00 PM	0.0	0.011	0.000
1:28:00 PM	0.0	0.011	0.000
1:29:00 PM	0.0	0.011	0.000
1:30:00 PM	0.0	0.011	0.000
1:31:00 PM	0.0	0.012	0.000
1:32:00 PM	0.0	0.010	0.000
1:33:00 PM	0.0	0.009	0.000
1:34:00 PM	0.0	0.010	0.000
1:35:00 PM	0.0	0.009	0.000
1:36:00 PM	0.0	0.009	0.000
1:37:00 PM	0.0	0.009	0.000
1:38:00 PM	0.0	0.008	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 19, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:39:00 PM	0.0	0.009	0.000
1:40:00 PM	0.0	0.010	0.000
1:41:00 PM	0.0	0.010	0.000
1:42:00 PM	0.0	0.009	0.000
1:43:00 PM	0.0	0.009	0.000
1:44:00 PM	0.0	0.009	0.000
1:45:00 PM	0.0	0.010	0.000
1:46:00 PM	0.0	0.009	0.000
1:47:00 PM	0.0	0.009	0.000
1:48:00 PM	0.0	0.010	0.000
1:49:00 PM	0.0	0.009	0.000
1:50:00 PM	0.0	0.009	0.000
1:51:00 PM	0.0	0.010	0.000
1:52:00 PM	0.0	0.009	0.000
1:53:00 PM	0.0	0.009	0.000
1:54:00 PM	0.0	0.009	0.000
1:55:00 PM	0.0	0.010	0.000
1:56:00 PM	0.0	0.010	0.000
1:57:00 PM	0.0	0.009	0.000
1:58:00 PM	0.0	0.009	0.000
1:59:00 PM	0.0	0.009	0.000
2:00:00 PM	0.0	0.010	0.000
2:01:00 PM	0.0	0.010	0.000
2:02:00 PM	0.0	0.010	0.000
2:03:00 PM	0.0	0.010	0.000
2:04:00 PM	0.0	0.009	0.000
2:05:00 PM	0.0	0.011	0.000
2:06:00 PM	0.0	0.010	0.000
2:07:00 PM	0.0	0.012	0.000
2:08:00 PM	0.0	0.009	0.000
2:09:00 PM	0.0	0.009	0.000
2:10:00 PM	0.0	0.009	0.000
2:11:00 PM	0.0	0.009	0.000
2:12:00 PM	0.0	0.009	0.000
2:13:00 PM	0.0	0.010	0.000
2:14:00 PM	0.0	0.010	0.000
2:15:00 PM	0.0	0.011	0.000
2:16:00 PM	0.0	0.011	0.000
2:17:00 PM	0.0	0.009	0.000
2:18:00 PM	0.0	0.009	0.000
2:19:00 PM	0.0	0.009	0.000
2:20:00 PM	0.0	0.010	0.000
2:21:00 PM	0.0	0.010	0.000
2:22:00 PM	0.0	0.010	0.000
2:23:00 PM	0.0	0.009	0.000
2:24:00 PM	0.0	0.010	0.000
2:25:00 PM	0.0	0.011	0.000
2:26:00 PM	0.0	0.010	0.000
2:27:00 PM	0.0	0.010	0.000
2:28:00 PM	0.0	0.009	0.000
2:29:00 PM	0.0	0.009	0.000
2:30:00 PM	0.0	0.010	0.000
2:31:00 PM	0.0	0.010	0.000

LIRR Group D Substations
Bayside Substation
Upwind
November 19, 2020

[illegible]

LIRR Group D Substations

Bayside Substation

Work Zone

November 19, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:10:00 AM	0.0	0.201	0.000
10:11:00 AM	0.0	0.023	0.000
10:12:00 AM	0.0	0.009	0.000
10:13:00 AM	0.0	0.010	0.000
10:14:00 AM	0.0	0.009	0.000
10:15:00 AM	0.0	0.010	0.000
10:16:00 AM	0.0	0.009	0.000
10:17:00 AM	0.0	0.009	0.000
10:18:00 AM	0.0	0.009	0.000
10:19:00 AM	0.0	0.009	0.000
10:20:00 AM	0.0	0.009	0.000
10:21:00 AM	0.0	0.009	0.000
10:22:00 AM	0.0	0.009	0.000
10:23:00 AM	0.0	0.010	0.000
10:24:00 AM	0.0	0.010	0.000
10:25:00 AM	0.0	0.010	0.000
10:26:00 AM	0.0	0.009	0.000
10:27:00 AM	0.0	0.008	0.000
10:28:00 AM	0.0	0.009	0.000
10:29:00 AM	0.0	0.009	0.000
10:30:00 AM	0.0	0.009	0.000
10:31:00 AM	0.0	0.009	0.000
10:32:00 AM	0.0	0.008	0.000
10:33:00 AM	0.0	0.008	0.000
10:34:00 AM	0.0	0.008	0.000
10:35:00 AM	0.0	0.008	0.000
10:36:00 AM	0.0	0.008	0.000
10:37:00 AM	0.0	0.008	0.000
10:38:00 AM	0.0	0.009	0.000
10:39:00 AM	0.0	0.009	0.000
10:40:00 AM	0.0	0.008	0.000
10:41:00 AM	0.0	0.008	0.000
10:42:00 AM	0.0	0.008	0.000
10:43:00 AM	0.0	0.008	0.000
10:44:00 AM	0.0	0.008	0.000
10:45:00 AM	0.0	0.008	0.000
10:46:00 AM	0.0	0.008	0.000
10:47:00 AM	0.0	0.008	0.000
10:48:00 AM	0.0	0.009	0.000
10:49:00 AM	0.0	0.009	0.000
10:50:00 AM	0.0	0.008	0.000
10:51:00 AM	0.0	0.009	0.000
10:52:00 AM	0.0	0.008	0.000
10:53:00 AM	0.0	0.008	0.000
10:54:00 AM	0.0	0.008	0.000
10:55:00 AM	0.0	0.008	0.000
10:56:00 AM	0.0	0.008	0.000
10:57:00 AM	0.0	0.008	0.000
10:58:00 AM	0.0	0.008	0.000
10:59:00 AM	0.0	0.008	0.000
11:00:00 AM	0.0	0.008	0.000
11:01:00 AM	0.0	0.009	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 19, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:02:00 AM	0.0	0.008	0.000
11:03:00 AM	0.0	0.009	0.000
11:04:00 AM	0.0	0.008	0.000
11:05:00 AM	0.0	0.009	0.000
11:06:00 AM	0.0	0.008	0.000
11:07:00 AM	0.0	0.009	0.000
11:08:00 AM	0.0	0.009	0.000
11:09:00 AM	0.0	0.009	0.000
11:10:00 AM	0.0	0.008	0.000
11:11:00 AM	0.0	0.009	0.000
11:12:00 AM	0.0	0.010	0.000
11:13:00 AM	0.0	0.010	0.000
11:14:00 AM	0.0	0.011	0.000
11:15:00 AM	0.0	0.011	0.000
11:16:00 AM	0.0	0.011	0.000
11:17:00 AM	0.0	0.011	0.000
11:18:00 AM	0.0	0.010	0.000
11:19:00 AM	0.0	0.010	0.000
11:20:00 AM	0.0	0.010	0.000
11:21:00 AM	0.0	0.009	0.000
11:22:00 AM	0.0	0.009	0.000
11:23:00 AM	0.0	0.011	0.000
11:24:00 AM	0.0	0.010	0.000
11:25:00 AM	0.0	0.010	0.000
11:26:00 AM	0.0	0.009	0.000
11:27:00 AM	0.0	0.010	0.000
11:28:00 AM	0.0	0.009	0.000
11:29:00 AM	0.0	0.010	0.000
11:30:00 AM	0.0	0.010	0.000
11:31:00 AM	0.0	0.009	0.000
11:32:00 AM	0.0	0.009	0.000
11:33:00 AM	0.0	0.009	0.000
11:34:00 AM	0.0	0.009	0.000
11:35:00 AM	0.0	0.010	0.000
11:36:00 AM	0.0	0.010	0.000
11:37:00 AM	0.0	0.009	0.000
11:38:00 AM	0.0	0.009	0.000
11:39:00 AM	0.0	0.009	0.000
11:40:00 AM	0.0	0.009	0.000
11:41:00 AM	0.0	0.010	0.000
11:42:00 AM	0.0	0.010	0.000
11:43:00 AM	0.0	0.009	0.000
11:44:00 AM	0.0	0.008	0.000
11:45:00 AM	0.0	0.009	0.000
11:46:00 AM	0.0	0.009	0.000
11:47:00 AM	0.0	0.010	0.000
11:48:00 AM	0.0	0.010	0.000
11:49:00 AM	0.0	0.014	0.000
11:50:00 AM	0.0	0.011	0.000
11:51:00 AM	0.0	0.010	0.000
11:52:00 AM	0.0	0.008	0.000
11:53:00 AM	0.0	0.008	0.000
11:54:00 AM	0.0	0.008	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 19, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:55:00 AM	0.0	0.008	0.000
11:56:00 AM	0.0	0.010	0.000
11:57:00 AM	0.0	0.011	0.000
11:58:00 AM	0.0	0.009	0.000
11:59:00 AM	0.0	0.009	0.000
12:00:00 PM	0.0	0.011	0.000
12:01:00 PM	0.0	0.011	0.000
12:02:00 PM	0.0	0.009	0.000
12:03:00 PM	0.0	0.010	0.000
12:04:00 PM	0.0	0.009	0.000
12:05:00 PM	0.0	0.009	0.000
12:06:00 PM	0.0	0.008	0.000
12:07:00 PM	0.0	0.008	0.000
12:08:00 PM	0.0	0.008	0.000
12:09:00 PM	0.0	0.008	0.000
12:10:00 PM	0.0	0.009	0.000
12:11:00 PM	0.0	0.012	0.000
12:12:00 PM	0.0	0.010	0.000
12:13:00 PM	0.0	0.010	0.000
12:14:00 PM	0.0	0.011	0.000
12:15:00 PM	0.0	0.013	0.000
12:16:00 PM	0.0	0.012	0.000
12:17:00 PM	0.0	0.011	0.000
12:18:00 PM	0.0	0.010	0.000
12:19:00 PM	0.0	0.012	0.000
12:20:00 PM	0.0	0.011	0.000
12:21:00 PM	0.0	0.010	0.000
12:22:00 PM	0.0	0.011	0.000
12:23:00 PM	0.0	0.010	0.000
12:24:00 PM	0.0	0.010	0.000
12:25:00 PM	0.0	0.009	0.000
12:26:00 PM	0.0	0.010	0.000
12:27:00 PM	0.0	0.010	0.000
12:28:00 PM	0.0	0.010	0.000
12:29:00 PM	0.0	0.010	0.000
12:30:00 PM	0.0	0.010	0.000
12:31:00 PM	0.0	0.010	0.000
12:32:00 PM	0.0	0.010	0.000
12:33:00 PM	0.0	0.012	0.000
12:34:00 PM	0.0	0.013	0.000
12:35:00 PM	0.0	0.014	0.000
12:36:00 PM	0.0	0.013	0.000
12:37:00 PM	0.0	0.011	0.000
12:38:00 PM	0.0	0.010	0.000
12:39:00 PM	0.0	0.011	0.000
12:40:00 PM	0.0	0.011	0.000
12:41:00 PM	0.0	0.011	0.000
12:42:00 PM	0.0	0.009	0.000
12:43:00 PM	0.0	0.009	0.000
12:44:00 PM	0.0	0.010	0.000
12:45:00 PM	0.0	0.011	0.000
12:46:00 PM	0.0	0.011	0.000
12:47:00 PM	0.0	0.012	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 19, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:48:00 PM	0.0	0.013	0.000
12:49:00 PM	0.0	0.014	0.000
12:50:00 PM	0.0	0.011	0.000
12:51:00 PM	0.0	0.010	0.000
12:52:00 PM	0.0	0.011	0.000
12:53:00 PM	0.0	0.012	0.000
12:54:00 PM	0.0	0.012	0.000
12:55:00 PM	0.0	0.010	0.000
12:56:00 PM	0.0	0.009	0.000
12:57:00 PM	0.0	0.009	0.000
12:58:00 PM	0.0	0.008	0.000
12:59:00 PM	0.0	0.009	0.000
1:00:00 PM	0.0	0.013	0.000
1:01:00 PM	0.0	0.011	0.000
1:02:00 PM	0.0	0.010	0.000
1:03:00 PM	0.0	0.016	0.000
1:04:00 PM	0.0	0.011	0.000
1:05:00 PM	0.0	0.008	0.000
1:06:00 PM	0.0	0.009	0.000
1:07:00 PM	0.0	0.009	0.000
1:08:00 PM	0.0	0.009	0.000
1:09:00 PM	0.0	0.009	0.000
1:10:00 PM	0.2	0.010	0.000
1:11:00 PM	0.0	0.009	0.000
1:12:00 PM	0.0	0.009	0.000
1:13:00 PM	0.0	0.009	0.000
1:14:00 PM	0.0	0.009	0.000
1:15:00 PM	0.0	0.008	0.000
1:16:00 PM	0.0	0.008	0.000
1:17:00 PM	0.0	0.008	0.000
1:18:00 PM	0.0	0.009	0.000
1:19:00 PM	0.0	0.010	0.000
1:20:00 PM	0.0	0.010	0.000
1:21:00 PM	0.0	0.010	0.000
1:22:00 PM	0.0	0.009	0.000
1:23:00 PM	0.0	0.010	0.000
1:24:00 PM	0.0	0.022	0.000
1:25:00 PM	0.0	0.013	0.000
1:26:00 PM	0.0	0.011	0.000
1:27:00 PM	0.0	0.009	0.000
1:28:00 PM	0.0	0.011	0.000
1:29:00 PM	0.0	0.013	0.000
1:30:00 PM	0.0	0.013	0.000
1:31:00 PM	0.0	0.011	0.000
1:32:00 PM	0.0	0.010	0.000
1:33:00 PM	0.0	0.010	0.000
1:34:00 PM	0.0	0.010	0.000
1:35:00 PM	0.0	0.011	0.000
1:36:00 PM	0.0	0.009	0.000
1:37:00 PM	0.0	0.009	0.000
1:38:00 PM	0.0	0.009	0.000
1:39:00 PM	0.0	0.009	0.000
1:40:00 PM	0.0	0.010	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 19, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:41:00 PM	0.0	0.010	0.000
1:42:00 PM	0.0	0.009	0.000
1:43:00 PM	0.0	0.009	0.000
1:44:00 PM	0.0	0.009	0.000
1:45:00 PM	0.0	0.009	0.000
1:46:00 PM	0.0	0.010	0.000
1:47:00 PM	0.0	0.009	0.000
1:48:00 PM	0.0	0.009	0.000
1:49:00 PM	0.0	0.009	0.000
1:50:00 PM	0.0	0.009	0.000
1:51:00 PM	0.0	0.009	0.000
1:52:00 PM	0.0	0.009	0.000
1:53:00 PM	0.0	0.009	0.000
1:54:00 PM	0.0	0.010	0.000
1:55:00 PM	0.0	0.010	0.000
1:56:00 PM	0.0	0.009	0.000
1:57:00 PM	0.0	0.009	0.000
1:58:00 PM	0.0	0.009	0.000
1:59:00 PM	0.0	0.010	0.000
2:00:00 PM	0.0	0.010	0.000
2:01:00 PM	0.0	0.012	0.000
2:02:00 PM	0.0	0.012	0.000
2:03:00 PM	0.0	0.011	0.000
2:04:00 PM	0.0	0.012	0.000
2:05:00 PM	0.0	0.012	0.000
2:06:00 PM	0.0	0.011	0.000
2:07:00 PM	0.0	0.012	0.000
2:08:00 PM	0.0	0.010	0.000
2:09:00 PM	0.0	0.009	0.000
2:10:00 PM	0.0	0.009	0.000
2:11:00 PM	0.0	0.009	0.000
2:12:00 PM	0.0	0.009	0.000
2:13:00 PM	0.0	0.009	0.000
2:14:00 PM	0.0	0.009	0.000
2:15:00 PM	0.0	0.011	0.000
2:16:00 PM	0.0	0.010	0.000
2:17:00 PM	0.0	0.009	0.000
2:18:00 PM	0.0	0.009	0.000
2:19:00 PM	0.0	0.010	0.000
2:20:00 PM	0.0	0.009	0.000
2:21:00 PM	0.0	0.011	0.000
2:22:00 PM	0.0	0.009	0.000
2:23:00 PM	0.0	0.009	0.000
2:24:00 PM	0.0	0.010	0.000
2:25:00 PM	0.0	0.010	0.000
2:26:00 PM	0.0	0.010	0.000
2:27:00 PM	0.0	0.009	0.000
2:28:00 PM	0.0	0.009	0.000
2:29:00 PM	0.0	0.010	0.000
2:30:00 PM	0.0	0.010	0.000
2:31:00 PM	0.0	0.010	0.000
2:32:00 PM	0.0	0.009	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 19, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:14:00 AM		0.101	0.000
10:15:00 AM		0.018	0.000
10:16:00 AM		0.013	0.000
10:17:00 AM		0.013	0.000
10:18:00 AM		0.012	0.000
10:19:00 AM		0.012	0.000
10:20:00 AM		0.012	0.000
10:21:00 AM		0.017	0.000
10:22:00 AM		0.015	0.000
10:23:00 AM		0.018	0.000
10:24:00 AM		0.014	0.000
10:25:00 AM		0.021	0.000
10:26:00 AM		0.012	0.000
10:27:00 AM		0.019	0.000
10:28:00 AM		0.017	0.000
10:29:00 AM		0.013	0.000
10:30:00 AM		0.018	0.000
10:31:00 AM		0.015	0.000
10:32:00 AM		0.015	0.000
10:33:00 AM		0.011	0.000
10:34:00 AM		0.011	0.000
10:35:00 AM		0.012	0.000
10:36:00 AM		0.012	0.000
10:37:00 AM		0.016	0.000
10:38:00 AM		0.010	0.000
10:39:00 AM		0.010	0.000
10:41:00 AM	0.0	0.011	0.000
10:42:00 AM	0.0	0.016	0.000
10:43:00 AM	0.0	0.010	0.000
10:44:00 AM	0.0	0.011	0.000
10:45:00 AM	0.0	0.013	0.000
10:46:00 AM	0.0	0.014	0.000
10:47:00 AM	0.1	0.011	0.000
10:48:00 AM	0.0	0.012	0.000
10:49:00 AM	0.0	0.010	0.000
10:50:00 AM	0.1	0.016	0.000
10:51:00 AM	0.0	0.011	0.000
10:52:00 AM	0.1	0.010	0.000
10:53:00 AM	0.1	0.017	0.000
10:54:00 AM	0.1	0.017	0.000
10:55:00 AM	0.1	0.021	0.000
10:56:00 AM	0.1	0.013	0.000
10:57:00 AM	0.1	0.015	0.000
10:58:00 AM	0.1	0.011	0.000
10:59:00 AM	0.1	0.013	0.000
11:00:00 AM	0.1	0.009	0.000
11:01:00 AM	0.1	0.011	0.000
11:02:00 AM	0.1	0.010	0.000
11:03:00 AM	0.1	0.010	0.000
11:04:00 AM	0.1	0.009	0.000
11:05:00 AM	0.1	0.015	0.000
11:06:00 AM	0.1	0.020	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 19, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:07:00 AM	0.1	0.016	0.000
11:08:00 AM	0.1	0.011	0.000
11:09:00 AM	0.1	0.011	0.000
11:10:00 AM	0.1	0.010	0.000
11:11:00 AM	0.1	0.009	0.000
11:12:00 AM	0.1	0.009	0.000
11:13:00 AM	0.1	0.014	0.000
11:14:00 AM	0.1	0.020	0.000
11:15:00 AM	0.1	0.014	0.000
11:16:00 AM	0.1	0.026	0.000
11:17:00 AM	0.1	0.012	0.000
11:18:00 AM	0.1	0.027	0.000
11:19:00 AM	0.1	0.020	0.000
11:20:00 AM	0.1	0.012	0.000
11:21:00 AM	0.1	0.011	0.000
11:22:00 AM	0.1	0.018	0.000
11:23:00 AM	0.1	0.015	0.000
11:24:00 AM	0.1	0.018	0.000
11:25:00 AM	0.1	0.017	0.000
11:26:00 AM	0.1	0.016	0.000
11:27:00 AM	0.1	0.009	0.000
11:28:00 AM	0.1	0.013	0.000
11:29:00 AM	0.1	0.011	0.000
11:30:00 AM	0.1	0.018	0.000
11:31:00 AM	0.2	0.017	0.000
11:32:00 AM	0.1	0.012	0.000
11:33:00 AM	0.2	0.019	0.000
11:34:00 AM	0.2	0.012	0.000
11:35:00 AM	0.2	0.014	0.000
11:36:00 AM	0.1	0.015	0.000
11:37:00 AM	0.1	0.012	0.000
11:38:00 AM	0.1	0.013	0.000
11:39:00 AM	0.1	0.018	0.000
11:40:00 AM	0.1	0.015	0.000
11:41:00 AM	0.1	0.013	0.000
11:42:00 AM	0.1	0.012	0.000
11:43:00 AM	0.1	0.010	0.000
11:44:00 AM	0.1	0.010	0.000
11:45:00 AM	0.2	0.011	0.000
11:46:00 AM	0.2	0.013	0.000
11:47:00 AM	0.1	0.014	0.000
11:48:00 AM	0.1	0.012	0.000
11:49:00 AM	0.1	0.017	0.000
11:50:00 AM	0.2	0.015	0.000
11:51:00 AM	0.2	0.011	0.000
11:52:00 AM	0.2	0.007	0.000
11:53:00 AM	0.2	0.010	0.000
11:54:00 AM	0.2	0.021	0.000
11:55:00 AM	0.2	0.009	0.000
11:56:00 AM	0.2	0.012	0.000
11:57:00 AM	0.1	0.011	0.000
11:58:00 AM	0.1	0.009	0.000
11:59:00 AM	0.2	0.015	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 19, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:00:00 PM	0.1	0.012	0.000
12:01:00 PM	0.1	0.014	0.000
12:02:00 PM	0.1	0.009	0.000
12:03:00 PM	0.2	0.010	0.000
12:04:00 PM	0.2	0.009	0.000
12:05:00 PM	0.2	0.009	0.000
12:06:00 PM	0.2	0.008	0.000
12:07:00 PM	0.2	0.008	0.000
12:08:00 PM	0.2	0.008	0.000
12:09:00 PM	0.2	0.009	0.000
12:10:00 PM	0.2	0.009	0.000
12:11:00 PM	0.2	0.010	0.000
12:12:00 PM	0.2	0.010	0.000
12:13:00 PM	0.2	0.010	0.000
12:14:00 PM	0.2	0.012	0.000
12:15:00 PM	0.2	0.013	0.000
12:16:00 PM	0.2	0.012	0.000
12:17:00 PM	0.2	0.010	0.000
12:18:00 PM	0.1	0.010	0.000
12:19:00 PM	0.2	0.011	0.000
12:20:00 PM	0.2	0.009	0.000
12:21:00 PM	0.2	0.010	0.000
12:22:00 PM	0.2	0.011	0.000
12:23:00 PM	0.2	0.010	0.000
12:24:00 PM	0.2	0.010	0.000
12:25:00 PM	0.2	0.010	0.000
12:26:00 PM	0.2	0.010	0.000
12:27:00 PM	0.2	0.011	0.000
12:28:00 PM	0.2	0.010	0.000
12:29:00 PM	0.2	0.012	0.000
12:30:00 PM	0.2	0.010	0.000
12:31:00 PM	0.2	0.010	0.000
12:32:00 PM	0.2	0.010	0.000
12:33:00 PM	0.2	0.013	0.000
12:34:00 PM	0.2	0.014	0.000
12:35:00 PM	0.2	0.016	0.000
12:36:00 PM	0.2	0.013	0.000
12:37:00 PM	0.2	0.011	0.000
12:38:00 PM	0.2	0.010	0.000
12:39:00 PM	0.2	0.012	0.000
12:40:00 PM	0.2	0.013	0.000
12:41:00 PM	0.2	0.012	0.000
12:42:00 PM	0.2	0.009	0.000
12:43:00 PM	0.2	0.009	0.000
12:44:00 PM	0.2	0.010	0.000
12:45:00 PM	0.2	0.012	0.000
12:46:00 PM	0.2	0.012	0.000
12:47:00 PM	0.2	0.013	0.000
12:48:00 PM	0.2	0.014	0.000
12:49:00 PM	0.2	0.017	0.000
12:50:00 PM	0.2	0.012	0.000
12:51:00 PM	0.2	0.012	0.000
12:52:00 PM	0.2	0.013	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 19, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:53:00 PM	0.2	0.014	0.000
12:54:00 PM	0.2	0.011	0.000
12:55:00 PM	0.2	0.010	0.000
12:56:00 PM	0.2	0.009	0.000
12:57:00 PM	0.2	0.008	0.000
12:58:00 PM	0.2	0.010	0.000
12:59:00 PM	0.2	0.009	0.000
1:00:00 PM	0.2	0.009	0.000
1:01:00 PM	0.2	0.009	0.000
1:02:00 PM	0.2	0.010	0.000
1:03:00 PM	0.2	0.009	0.000
1:04:00 PM	0.2	0.008	0.000
1:05:00 PM	0.2	0.009	0.000
1:06:00 PM	0.2	0.009	0.000
1:07:00 PM	0.2	0.009	0.000
1:08:00 PM	0.2	0.009	0.000
1:09:00 PM	0.2	0.009	0.000
1:10:00 PM	0.2	0.008	0.000
1:11:00 PM	0.2	0.008	0.000
1:12:00 PM	0.2	0.009	0.000
1:13:00 PM	0.2	0.009	0.000
1:14:00 PM	0.2	0.009	0.000
1:15:00 PM	0.2	0.009	0.000
1:16:00 PM	0.2	0.008	0.000
1:17:00 PM	0.2	0.009	0.000
1:18:00 PM	0.2	0.009	0.000
1:19:00 PM	0.2	0.009	0.000
1:20:00 PM	0.2	0.009	0.000
1:21:00 PM	0.2	0.010	0.000
1:22:00 PM	0.2	0.009	0.000
1:23:00 PM	0.2	0.009	0.000
1:24:00 PM	0.2	0.019	0.000
1:25:00 PM	0.2	0.014	0.000
1:26:00 PM	0.2	0.010	0.000
1:27:00 PM	0.2	0.009	0.000
1:28:00 PM	0.2	0.011	0.000
1:29:00 PM	0.2	0.013	0.000
1:30:00 PM	0.2	0.015	0.000
1:31:00 PM	0.2	0.010	0.000
1:32:00 PM	0.2	0.009	0.000
1:33:00 PM	0.2	0.010	0.000
1:34:00 PM	0.2	0.010	0.000
1:35:00 PM	0.2	0.010	0.000
1:36:00 PM	0.2	0.009	0.000
1:37:00 PM	0.2	0.009	0.000
1:38:00 PM	0.2	0.008	0.000
1:39:00 PM	0.2	0.008	0.000
1:40:00 PM	0.2	0.010	0.000
1:41:00 PM	0.2	0.009	0.000
1:42:00 PM	0.2	0.008	0.000
1:43:00 PM	0.2	0.009	0.000
1:44:00 PM	0.2	0.009	0.000
1:45:00 PM	0.2	0.008	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 19, 2020

[illegible]

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From SW ~ 13 mph	Date:	11/20/20
Project Name:	LIRR Group D Substation Remediation-Bayside Site-V00388-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. Aarco loading out soils from excavation of area #3 for manifest transport to Clean Earth Carteret for disposal. Aarco continues to excavate area #3 utilizing the soil guzzler truck and manually digging methods. As utility conduits are exposed Aarco installs wooden supports to support the conduit. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site were sampled but not submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/ m ³)	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/m ³)
UP Wind	0.0	0.020	0.000	0.0	0.024	0.000
Down Wind	0.2	0.020	0.000	0.3	0.033	0.000
Work Zone	0.0	0.020	0.000	0.0	0.033	0.000

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- We will continue excavating in area #3.



Aarco installing liner to truck prior to loading soils for disposal.



Aarco utilizing the guzzler truck to excavate all soils.

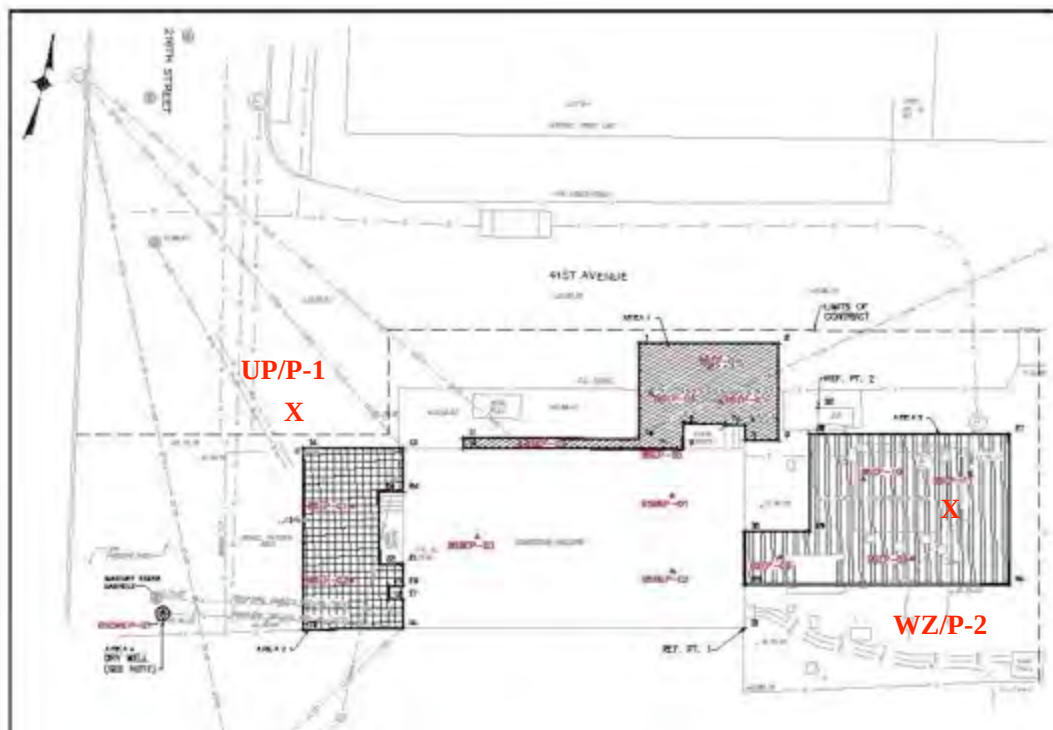


Work zone camp monitoring station.



Aarco covering stockpile at the end of the day.

Monitoring Locations



X
DW/P-3

LIRR Group D Substations

Bayside Substation

Upwind

November 20, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:09:00 AM	0.0		0.000
10:10:00 AM	0.0	0.052	0.000
10:11:00 AM	0.0	0.024	0.000
10:12:00 AM	0.0	0.023	0.000
10:13:00 AM	0.0	0.024	0.000
10:14:00 AM	0.0	0.024	0.000
10:15:00 AM	0.0	0.024	0.000
10:16:00 AM	0.0	0.024	0.000
10:17:00 AM	0.0	0.024	0.000
10:18:00 AM	0.0	0.024	0.000
10:19:00 AM	0.0	0.024	0.000
10:20:00 AM	0.0	0.024	0.000
10:21:00 AM	0.0	0.024	0.000
10:22:00 AM	0.0	0.023	0.000
10:23:00 AM	0.0	0.024	0.000
10:24:00 AM	0.0	0.024	0.000
10:27:00 AM	0.0	0.025	0.000
10:28:00 AM	0.0	0.023	0.000
10:29:00 AM	0.0	0.023	0.000
10:30:00 AM	0.0	0.023	0.000
10:31:00 AM	0.0	0.023	0.000
10:32:00 AM	0.0	0.024	0.000
10:33:00 AM	0.0	0.024	0.000
10:34:00 AM	0.0	0.023	0.000
10:35:00 AM	0.0	0.024	0.000
10:36:00 AM	0.0	0.023	0.000
10:37:00 AM	0.0	0.023	0.000
10:38:00 AM	0.0	0.023	0.000
10:39:00 AM	0.0	0.023	0.000
10:40:00 AM	0.0	0.023	0.000
10:41:00 AM	0.0	0.023	0.000
10:42:00 AM	0.0	0.022	0.000
10:43:00 AM	0.0	0.022	0.000
10:44:00 AM	0.0	0.022	0.000
10:45:00 AM	0.0	0.023	0.000
10:47:00 AM	0.0	0.020	0.000
10:48:00 AM	0.0	0.023	0.000
10:49:00 AM	0.0	0.023	0.000
10:50:00 AM	0.0	0.023	0.000
10:51:00 AM	0.0	0.022	0.000
10:52:00 AM	0.0	0.022	0.000
10:53:00 AM	0.0	0.023	0.000
10:54:00 AM	0.0	0.023	0.000
10:55:00 AM	0.0	0.022	0.000
10:56:00 AM	0.0	0.023	0.000
10:57:00 AM	0.0	0.023	0.000
10:58:00 AM	0.0	0.022	0.000
10:59:00 AM	0.0	0.022	0.000
11:00:00 AM	0.0	0.021	0.000
11:01:00 AM	0.0	0.022	0.000
11:02:00 AM	0.0	0.021	0.000
11:03:00 AM	0.0	0.021	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 20, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:04:00 AM	0.0	0.021	0.000
11:05:00 AM	0.0	0.023	0.000
11:06:00 AM	0.0	0.022	0.000
11:07:00 AM	0.0	0.022	0.000
11:08:00 AM	0.0	0.022	0.000
11:09:00 AM	0.0	0.021	0.000
11:10:00 AM	0.0	0.021	0.000
11:11:00 AM	0.0	0.021	0.000
11:12:00 AM	0.0	0.023	0.000
11:13:00 AM	0.0	0.021	0.000
11:14:00 AM	0.0	0.021	0.000
11:15:00 AM	0.0	0.021	0.000
11:16:00 AM	0.0	0.021	0.000
11:19:00 AM	0.0		0.000
11:20:00 AM	0.0	0.021	0.000
11:21:00 AM	0.0	0.021	0.000
11:22:00 AM	0.0	0.021	0.000
11:23:00 AM	0.0	0.020	0.000
11:24:00 AM	0.0	0.020	0.000
11:25:00 AM	0.0	0.021	0.000
11:26:00 AM	0.0	0.020	0.000
11:27:00 AM	0.0	0.020	0.000
11:28:00 AM	0.0	0.020	0.000
11:29:00 AM	0.0	0.020	0.000
11:30:00 AM	0.0	0.021	0.000
11:31:00 AM	0.0	0.023	0.000
11:32:00 AM	0.0	0.021	0.000
11:33:00 AM	0.0	0.020	0.000
11:34:00 AM	0.0	0.020	0.000
11:35:00 AM	0.0	0.020	0.000
11:36:00 AM	0.0	0.020	0.000
11:37:00 AM	0.0	0.020	0.000
11:38:00 AM	0.0	0.020	0.000
11:39:00 AM	0.0	0.020	0.000
11:40:00 AM	0.0	0.021	0.000
11:41:00 AM	0.0	0.020	0.000
11:42:00 AM	0.0	0.021	0.000
11:43:00 AM	0.0	0.021	0.000
11:44:00 AM	0.0	0.021	0.000
11:45:00 AM	0.0	0.020	0.000
11:46:00 AM	0.0	0.020	0.000
11:47:00 AM	0.0	0.020	0.000
11:48:00 AM	0.0	0.020	0.000
11:49:00 AM	0.0	0.020	0.000
11:50:00 AM	0.0	0.020	0.000
11:51:00 AM	0.0	0.020	0.000
11:52:00 AM	0.0	0.020	0.000
11:53:00 AM	0.0	0.020	0.000
11:54:00 AM	0.0	0.020	0.000
11:55:00 AM	0.0	0.021	0.000
11:56:00 AM	0.0	0.021	0.000
11:57:00 AM	0.0	0.020	0.000
11:58:00 AM	0.0	0.021	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 20, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:59:00 AM	0.0	0.021	0.000
12:00:00 PM	0.0	0.022	0.000
12:01:00 PM	0.0	0.021	0.000
12:02:00 PM	0.0	0.021	0.000
12:03:00 PM	0.0	0.020	0.000
12:04:00 PM	0.0	0.020	0.000
12:05:00 PM	0.0	0.020	0.000
12:06:00 PM	0.0	0.020	0.000
12:07:00 PM	0.0	0.020	0.000
12:08:00 PM	0.0	0.020	0.000
12:09:00 PM	0.0	0.020	0.000
12:10:00 PM	0.0	0.019	0.000
12:11:00 PM	0.0	0.020	0.000
12:12:00 PM	0.0	0.020	0.000
12:13:00 PM	0.0	0.020	0.000
12:14:00 PM	0.0	0.020	0.000
12:15:00 PM	0.0	0.020	0.000
12:16:00 PM	0.0	0.020	0.000
12:17:00 PM	0.0	0.020	0.000
12:18:00 PM	0.0	0.021	0.000
12:19:00 PM	0.0	0.022	0.000
12:20:00 PM	0.0	0.023	0.000
12:21:00 PM	0.0	0.022	0.000
12:22:00 PM	0.0	0.021	0.000
12:23:00 PM	0.0	0.020	0.000
12:24:00 PM	0.0	0.020	0.000
12:25:00 PM	0.0	0.020	0.000
12:26:00 PM	0.0	0.020	0.000
12:27:00 PM	0.0	0.020	0.000
12:28:00 PM	0.0	0.020	0.000
12:29:00 PM	0.0	0.020	0.000
12:30:00 PM	0.0	0.019	0.000
12:31:00 PM	0.0	0.019	0.000
12:32:00 PM	0.0	0.019	0.000
12:33:00 PM	0.0	0.020	0.000
12:34:00 PM	0.0	0.019	0.000
12:35:00 PM	0.0	0.019	0.000
12:36:00 PM	0.0	0.019	0.000
12:37:00 PM	0.0	0.019	0.000
12:38:00 PM	0.0	0.019	0.000
12:39:00 PM	0.0	0.020	0.000
12:40:00 PM	0.0	0.020	0.000
12:41:00 PM	0.0	0.020	0.000
12:42:00 PM	0.0	0.019	0.000
12:43:00 PM	0.0	0.020	0.000
12:44:00 PM	0.0	0.020	0.000
12:45:00 PM	0.0	0.020	0.000
12:46:00 PM	0.0	0.020	0.000
12:47:00 PM	0.0	0.021	0.000
12:48:00 PM	0.0	0.021	0.000
12:49:00 PM	0.0	0.021	0.000
12:50:00 PM	0.0	0.021	0.000
12:51:00 PM	0.0	0.022	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 20, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:52:00 PM	0.0	0.022	0.000
12:53:00 PM	0.0	0.022	0.000
12:54:00 PM	0.0	0.021	0.000
12:55:00 PM	0.0	0.022	0.000
12:56:00 PM	0.0	0.021	0.000
12:57:00 PM	0.0	0.021	0.000
12:58:00 PM	0.0	0.020	0.000
12:59:00 PM	0.0	0.020	0.000
1:00:00 PM	0.0	0.021	0.000
1:01:00 PM	0.0	0.022	0.000
1:02:00 PM	0.0	0.021	0.000
1:03:00 PM	0.0	0.020	0.000
1:04:00 PM	0.0	0.020	0.000
1:05:00 PM	0.0	0.020	0.000
1:06:00 PM	0.0	0.019	0.000
1:07:00 PM	0.0	0.019	0.000
1:08:00 PM	0.0	0.020	0.000
1:09:00 PM	0.0	0.020	0.000
1:10:00 PM	0.0	0.019	0.000
1:11:00 PM	0.0	0.019	0.000
1:12:00 PM	0.0	0.019	0.000
1:13:00 PM	0.0	0.020	0.000
1:14:00 PM	0.0	0.020	0.000
1:15:00 PM	0.0	0.020	0.000
1:16:00 PM	0.0	0.020	0.000
1:17:00 PM	0.0	0.020	0.000
1:18:00 PM	0.0	0.019	0.000
1:19:00 PM	0.0	0.020	0.000
1:20:00 PM	0.0	0.020	0.000
1:21:00 PM	0.0	0.019	0.000
1:22:00 PM	0.0	0.018	0.000
1:23:00 PM	0.0	0.018	0.000
1:24:00 PM	0.0	0.018	0.000
1:25:00 PM	0.0	0.018	0.000
1:26:00 PM	0.0	0.019	0.000
1:27:00 PM	0.0	0.019	0.000
1:28:00 PM	0.0	0.018	0.000
1:29:00 PM	0.0	0.018	0.000
1:30:00 PM	0.0	0.019	0.000
1:31:00 PM	0.0	0.019	0.000
1:32:00 PM	0.0	0.019	0.000
1:33:00 PM	0.0	0.019	0.000
1:34:00 PM	0.0	0.019	0.000
1:35:00 PM	0.0	0.019	0.000
1:36:00 PM	0.0	0.018	0.000
1:37:00 PM	0.0	0.018	0.000
1:38:00 PM	0.0	0.018	0.000
1:39:00 PM	0.0	0.018	0.000
1:40:00 PM	0.0	0.019	0.000
1:41:00 PM	0.0	0.018	0.000
1:42:00 PM	0.0	0.018	0.000
1:43:00 PM	0.0	0.018	0.000
1:44:00 PM	0.0	0.019	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 20, 2020

[illegible]

LIRR Group D Substations

Bayside Substation

Work Zone

November 20, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:23:00 AM	0.0		0.000
10:24:00 AM	0.0		0.000
10:25:00 AM	0.0	0.193	0.000
10:26:00 AM	0.0	0.025	0.000
10:27:00 AM	0.0	0.023	0.000
10:28:00 AM	0.0	0.024	0.000
10:29:00 AM	0.0	0.022	0.000
10:30:00 AM	0.0	0.022	0.000
10:31:00 AM	0.0	0.021	0.000
10:32:00 AM	0.0	0.022	0.000
10:33:00 AM	0.0	0.022	0.000
10:34:00 AM	0.0	0.022	0.000
10:35:00 AM	0.0	0.022	0.000
10:36:00 AM	0.0	0.021	0.000
10:37:00 AM	0.0	0.021	0.000
10:38:00 AM	0.0	0.021	0.000
10:39:00 AM	0.0	0.020	0.000
10:40:00 AM	0.0	0.020	0.000
10:41:00 AM	0.0	0.021	0.000
10:42:00 AM	0.0	0.022	0.000
10:43:00 AM	0.0	0.020	0.000
10:44:00 AM	0.0	0.020	0.000
10:45:00 AM	0.0	0.021	0.000
10:46:00 AM	0.0	0.022	0.000
10:47:00 AM	0.0	0.020	0.000
10:48:00 AM	0.0	0.021	0.000
10:49:00 AM	0.0	0.020	0.000
10:50:00 AM	0.0	0.021	0.000
10:51:00 AM	0.0	0.021	0.000
10:52:00 AM	0.0	0.021	0.000
10:53:00 AM	0.0	0.021	0.000
10:54:00 AM	0.0	0.022	0.000
10:55:00 AM	0.0	0.021	0.000
10:56:00 AM	0.0	0.021	0.000
10:57:00 AM	0.0	0.021	0.000
10:58:00 AM	0.0	0.021	0.000
10:59:00 AM	0.0	0.021	0.000
11:00:00 AM	0.0	0.020	0.000
11:01:00 AM	0.0	0.021	0.000
11:02:00 AM	0.0	0.020	0.000
11:03:00 AM	0.0	0.020	0.000
11:04:00 AM	0.0	0.020	0.000
11:05:00 AM	0.0	0.020	0.000
11:06:00 AM	0.0	0.020	0.000
11:07:00 AM	0.0	0.020	0.000
11:08:00 AM	0.0	0.021	0.000
11:09:00 AM	0.0	0.020	0.000
11:10:00 AM	0.0	0.022	0.000
11:11:00 AM	0.0	0.020	0.000
11:12:00 AM	0.0	0.022	0.000
11:13:00 AM	0.0	0.020	0.000
11:14:00 AM	0.0	0.019	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 20, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:15:00 AM	0.0	0.019	0.000
11:16:00 AM	0.0	0.019	0.000
11:17:00 AM	0.0	0.020	0.000
11:18:00 AM	0.0	0.021	0.000
11:19:00 AM	0.0	0.022	0.000
11:20:00 AM	0.0	0.020	0.000
11:21:00 AM	0.0	0.019	0.000
11:22:00 AM	0.0	0.019	0.000
11:23:00 AM	0.0	0.018	0.000
11:24:00 AM	0.0	0.018	0.000
11:25:00 AM	0.0	0.019	0.000
11:26:00 AM	0.0	0.018	0.000
11:27:00 AM	0.0	0.019	0.000
11:28:00 AM	0.0	0.020	0.000
11:29:00 AM	0.0	0.019	0.000
11:30:00 AM	0.0	0.019	0.000
11:31:00 AM	0.0	0.018	0.000
11:32:00 AM	0.0	0.019	0.000
11:33:00 AM	0.0	0.019	0.000
11:34:00 AM	0.0	0.068	0.000
11:35:00 AM	0.0	0.029	0.000
11:36:00 AM	0.0	0.019	0.000
11:37:00 AM	0.0	0.019	0.000
11:38:00 AM	0.0	0.018	0.000
11:39:00 AM	0.0	0.018	0.000
11:40:00 AM	0.0	0.019	0.000
11:41:00 AM	0.0	0.019	0.000
11:42:00 AM	0.0	0.019	0.000
11:43:00 AM	0.0	0.019	0.000
11:44:00 AM	0.0	0.019	0.000
11:45:00 AM	0.0	0.019	0.000
11:46:00 AM	0.0	0.018	0.000
11:47:00 AM	0.0	0.018	0.000
11:48:00 AM	0.0	0.018	0.000
11:49:00 AM	0.0	0.018	0.000
11:50:00 AM	0.0	0.018	0.000
11:51:00 AM	0.0	0.018	0.000
11:52:00 AM	0.0	0.018	0.000
11:53:00 AM	0.0	0.018	0.000
11:54:00 AM	0.0	0.018	0.000
11:55:00 AM	0.0	0.019	0.000
11:56:00 AM	0.0	0.019	0.000
11:57:00 AM	0.0	0.018	0.000
11:58:00 AM	0.0	0.019	0.000
11:59:00 AM	0.0	0.019	0.000
12:00:00 PM	0.0	0.019	0.000
12:01:00 PM	0.0	0.020	0.000
12:02:00 PM	0.0	0.020	0.000
12:03:00 PM	0.0	0.019	0.000
12:04:00 PM	0.0	0.018	0.000
12:05:00 PM	0.0	0.018	0.000
12:06:00 PM	0.0	0.018	0.000
12:07:00 PM	0.0	0.018	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 20, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:08:00 PM	0.0	0.018	0.000
12:09:00 PM	0.0	0.019	0.000
12:10:00 PM	0.0	0.019	0.000
12:11:00 PM	0.0	0.019	0.000
12:12:00 PM	0.0	0.018	0.000
12:13:00 PM	0.0	0.019	0.000
12:14:00 PM	0.0	0.018	0.000
12:15:00 PM	0.0	0.018	0.000
12:16:00 PM	0.0	0.018	0.000
12:17:00 PM	0.0	0.018	0.000
12:18:00 PM	0.0	0.018	0.000
12:19:00 PM	0.0	0.019	0.000
12:20:00 PM	0.0	0.020	0.000
12:21:00 PM	0.0	0.020	0.000
12:22:00 PM	0.0	0.020	0.000
12:23:00 PM	0.0	0.019	0.000
12:24:00 PM	0.0	0.019	0.000
12:25:00 PM	0.0	0.019	0.000
12:26:00 PM	0.0	0.018	0.000
12:27:00 PM	0.0	0.018	0.000
12:28:00 PM	0.0	0.018	0.000
12:29:00 PM	0.0	0.019	0.000
12:30:00 PM	0.0	0.018	0.000
12:31:00 PM	0.0	0.018	0.000
12:32:00 PM	0.0	0.018	0.000
12:33:00 PM	0.0	0.018	0.000
12:34:00 PM	0.0	0.018	0.000
12:35:00 PM	0.0	0.018	0.000
12:36:00 PM	0.0	0.017	0.000
12:37:00 PM	0.0	0.017	0.000
12:38:00 PM	0.0	0.017	0.000
12:39:00 PM	0.0	0.017	0.000
12:40:00 PM	0.0	0.017	0.000
12:41:00 PM	0.0	0.017	0.000
12:42:00 PM	0.0	0.018	0.000
12:43:00 PM	0.0	0.019	0.000
12:44:00 PM	0.0	0.020	0.000
12:45:00 PM	0.0	0.019	0.000
12:46:00 PM	0.0	0.020	0.000
12:47:00 PM	0.0	0.020	0.000
12:48:00 PM	0.0	0.019	0.000
12:49:00 PM	0.0	0.020	0.000
12:50:00 PM	0.0	0.020	0.000
12:51:00 PM	0.0	0.019	0.000
12:52:00 PM	0.0	0.020	0.000
12:53:00 PM	0.0	0.020	0.000
12:54:00 PM	0.0	0.019	0.000
12:55:00 PM	0.0	0.019	0.000
12:56:00 PM	0.0	0.018	0.000
12:57:00 PM	0.0	0.018	0.000
12:58:00 PM	0.0	0.019	0.000
12:59:00 PM	0.0	0.020	0.000
1:00:00 PM	0.0	0.020	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 20, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:01:00 PM	0.0	0.020	0.000
1:02:00 PM	0.0	0.019	0.000
1:03:00 PM	0.0	0.019	0.000
1:04:00 PM	0.0	0.020	0.000
1:05:00 PM	0.0	0.019	0.000
1:06:00 PM	0.0	0.019	0.000
1:07:00 PM	0.0	0.019	0.000
1:08:00 PM	0.0	0.020	0.000
1:09:00 PM	0.0	0.019	0.000
1:10:00 PM	0.0	0.019	0.000
1:11:00 PM	0.0	0.018	0.000
1:12:00 PM	0.0	0.018	0.000
1:13:00 PM	0.0	0.020	0.000
1:14:00 PM	0.0	0.018	0.000
1:15:00 PM	0.0	0.018	0.000
1:16:00 PM	0.0	0.019	0.000
1:17:00 PM	0.0	0.018	0.000
1:18:00 PM	0.0	0.017	0.000
1:19:00 PM	0.0	0.018	0.000
1:20:00 PM	0.0	0.019	0.000
1:21:00 PM	0.0	0.017	0.000
1:22:00 PM	0.0	0.016	0.000
1:23:00 PM	0.0	0.016	0.000
1:24:00 PM	0.0	0.016	0.000
1:25:00 PM	0.0	0.015	0.000
1:26:00 PM	0.0	0.016	0.000
1:27:00 PM	0.0	0.015	0.000
1:28:00 PM	0.0	0.017	0.000
1:29:00 PM	0.0	0.016	0.000
1:30:00 PM	0.0	0.015	0.000
1:31:00 PM	0.0	0.015	0.000
1:32:00 PM	0.0	0.015	0.000
1:33:00 PM	0.0	0.015	0.000
1:34:00 PM	0.0	0.017	0.000
1:35:00 PM	0.0	0.016	0.000
1:36:00 PM	0.0	0.015	0.000
1:37:00 PM	0.0	0.015	0.000
1:38:00 PM	0.0	0.015	0.000
1:39:00 PM	0.0	0.016	0.000
1:40:00 PM	0.0	0.017	0.000
1:41:00 PM	0.0	0.016	0.000
1:42:00 PM	0.0	0.016	0.000
1:43:00 PM	0.0	0.017	0.000
1:44:00 PM	0.0	0.017	0.000
1:45:00 PM	0.0	0.017	0.000
1:46:00 PM	0.0	0.016	0.000
1:47:00 PM	0.0	0.016	0.000
1:48:00 PM	0.0	0.016	0.000
1:49:00 PM	0.0	0.016	0.000
1:50:00 PM	0.0	0.016	0.000
1:51:00 PM	0.0	0.016	0.000
1:52:00 PM	0.0	0.016	0.000
1:53:00 PM	0.0	0.015	0.000

November 20, 2020

[illegible]

LIRR Group D Substations

Bayside Substation

Downwind

November 20, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:21:00 AM	0.1		0.000
10:22:00 AM	0.0		0.000
10:23:00 AM	0.0	0.129	0.000
10:24:00 AM	0.0	0.026	0.000
10:25:00 AM	0.0	0.026	0.000
10:26:00 AM	0.0	0.026	0.000
10:27:00 AM	0.0	0.025	0.000
10:28:00 AM	0.0	0.026	0.000
10:29:00 AM	0.0	0.027	0.000
10:30:00 AM	0.0	0.026	0.000
10:31:00 AM	0.0	0.026	0.000
10:32:00 AM	0.0	0.025	0.000
10:33:00 AM	0.0	0.025	0.000
10:34:00 AM	0.0	0.026	0.000
10:35:00 AM	0.0	0.025	0.000
10:36:00 AM	0.0	0.025	0.000
10:37:00 AM	0.0	0.024	0.000
10:38:00 AM	0.0	0.024	0.000
10:39:00 AM	0.0	0.024	0.000
10:40:00 AM	0.0	0.023	0.000
10:41:00 AM	0.0	0.023	0.000
10:42:00 AM	0.0	0.023	0.000
10:43:00 AM	0.0	0.025	0.000
10:44:00 AM	0.1	0.031	0.000
10:45:00 AM	0.0	0.024	0.000
10:46:00 AM	0.1	0.022	0.000
10:47:00 AM	0.1	0.023	0.000
10:48:00 AM	0.1	0.023	0.000
10:49:00 AM	0.1	0.023	0.000
10:50:00 AM	0.1	0.022	0.000
10:51:00 AM	0.1	0.022	0.000
10:52:00 AM	0.1	0.023	0.000
10:53:00 AM	0.1	0.024	0.000
10:54:00 AM	0.1	0.023	0.000
10:55:00 AM	0.1	0.022	0.000
10:56:00 AM	0.1	0.021	0.000
10:57:00 AM	0.1	0.023	0.000
10:58:00 AM	0.1	0.024	0.000
10:59:00 AM	0.1	0.022	0.000
11:00:00 AM	0.1	0.022	0.000
11:01:00 AM	0.1	0.021	0.000
11:02:00 AM	0.1	0.021	0.000
11:03:00 AM	0.1	0.020	0.000
11:04:00 AM	0.1	0.020	0.000
11:05:00 AM	0.1	0.023	0.000
11:06:00 AM	0.1	0.022	0.000
11:07:00 AM	0.1	0.021	0.000
11:08:00 AM	0.1	0.021	0.000
11:09:00 AM	0.1	0.020	0.000
11:10:00 AM	0.1	0.020	0.000
11:11:00 AM	0.1	0.020	0.000
11:12:00 AM	0.1	0.020	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 20, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:13:00 AM	0.1	0.021	0.000
11:14:00 AM	0.1	0.022	0.000
11:15:00 AM	0.1	0.021	0.000
11:16:00 AM	0.1	0.021	0.000
11:17:00 AM	0.2	0.021	0.000
11:18:00 AM	0.1	0.024	0.000
11:19:00 AM	0.1	0.022	0.000
11:20:00 AM	0.1	0.020	0.000
11:21:00 AM	0.1	0.022	0.000
11:22:00 AM	0.1	0.020	0.000
11:23:00 AM	0.1	0.022	0.000
11:24:00 AM	0.1	0.020	0.000
11:25:00 AM	0.1	0.019	0.000
11:26:00 AM	0.1	0.020	0.000
11:27:00 AM	0.1	0.019	0.000
11:28:00 AM	0.1	0.018	0.000
11:29:00 AM	0.1	0.017	0.000
11:30:00 AM	0.1	0.019	0.000
11:31:00 AM	0.1	0.019	0.000
11:32:00 AM	0.1	0.019	0.000
11:33:00 AM	0.1	0.019	0.000
11:34:00 AM	0.1	0.018	0.000
11:35:00 AM	0.1	0.018	0.000
11:36:00 AM	0.1	0.018	0.000
11:37:00 AM	0.1	0.018	0.000
11:38:00 AM	0.1	0.018	0.000
11:39:00 AM	0.2	0.018	0.000
11:40:00 AM	0.2	0.018	0.000
11:41:00 AM	0.2	0.018	0.000
11:42:00 AM	0.2	0.019	0.000
11:43:00 AM	0.2	0.018	0.000
11:44:00 AM	0.2	0.018	0.000
11:45:00 AM	0.2	0.018	0.000
11:46:00 AM	0.2	0.017	0.000
11:47:00 AM	0.2	0.017	0.000
11:48:00 AM	0.2	0.017	0.000
11:49:00 AM	0.2	0.017	0.000
11:50:00 AM	0.2	0.017	0.000
11:51:00 AM	0.2	0.017	0.000
11:52:00 AM	0.2	0.021	0.000
11:53:00 AM	0.2	0.019	0.000
11:54:00 AM	0.2	0.018	0.000
11:55:00 AM	0.2	0.020	0.000
11:56:00 AM	0.2	0.020	0.000
11:57:00 AM	0.2	0.020	0.000
11:58:00 AM	0.2	0.020	0.000
11:59:00 AM	0.2	0.020	0.000
12:00:00 PM	0.2	0.020	0.000
12:01:00 PM	0.2	0.020	0.000
12:02:00 PM	0.2	0.018	0.000
12:03:00 PM	0.2	0.019	0.000
12:04:00 PM	0.2	0.017	0.000
12:05:00 PM	0.2	0.021	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 20, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:06:00 PM	0.2	0.024	0.000
12:07:00 PM	0.2	0.017	0.000
12:08:00 PM	0.2	0.017	0.000
12:09:00 PM	0.2	0.018	0.000
12:10:00 PM	0.2	0.019	0.000
12:11:00 PM	0.2	0.017	0.000
12:12:00 PM	0.2	0.017	0.000
12:13:00 PM	0.2	0.017	0.000
12:14:00 PM	0.2	0.016	0.000
12:15:00 PM	0.2	0.017	0.000
12:16:00 PM	0.2	0.017	0.000
12:17:00 PM	0.2	0.017	0.000
12:18:00 PM	0.2	0.017	0.000
12:19:00 PM	0.2	0.018	0.000
12:20:00 PM	0.2	0.019	0.000
12:21:00 PM	0.2	0.020	0.000
12:22:00 PM	0.2	0.018	0.000
12:23:00 PM	0.2	0.019	0.000
12:24:00 PM	0.2	0.017	0.000
12:25:00 PM	0.2	0.017	0.000
12:26:00 PM	0.2	0.017	0.000
12:27:00 PM	0.2	0.016	0.000
12:28:00 PM	0.2	0.019	0.000
12:29:00 PM	0.2	0.020	0.000
12:30:00 PM	0.2	0.018	0.000
12:31:00 PM	0.2	0.017	0.000
12:32:00 PM	0.2	0.019	0.000
12:33:00 PM	0.2	0.017	0.000
12:34:00 PM	0.2	0.017	0.000
12:35:00 PM	0.2	0.017	0.000
12:36:00 PM	0.2	0.016	0.000
12:37:00 PM	0.2	0.016	0.000
12:38:00 PM	0.2	0.016	0.000
12:39:00 PM	0.2	0.016	0.000
12:40:00 PM	0.2	0.016	0.000
12:41:00 PM	0.2	0.019	0.000
12:42:00 PM	0.2	0.017	0.000
12:43:00 PM	0.2	0.018	0.000
12:44:00 PM	0.2	0.025	0.000
12:45:00 PM	0.2	0.020	0.000
12:46:00 PM	0.2	0.066	0.000
12:47:00 PM	0.2	0.027	0.000
12:48:00 PM	0.2	0.018	0.000
12:49:00 PM	0.2	0.019	0.000
12:50:00 PM	0.2	0.019	0.000
12:51:00 PM	0.2	0.021	0.000
12:52:00 PM	0.2	0.019	0.000
12:53:00 PM	0.2	0.019	0.000
12:54:00 PM	0.2	0.018	0.000
12:55:00 PM	0.2	0.017	0.000
12:56:00 PM	0.2	0.017	0.000
12:57:00 PM	0.3	0.022	0.000
12:58:00 PM	0.2	0.020	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 20, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:59:00 PM	0.2	0.019	0.000
1:00:00 PM	0.2	0.018	0.000
1:01:00 PM	0.2	0.017	0.000
1:02:00 PM	0.2	0.018	0.000
1:03:00 PM	0.2	0.017	0.000
1:04:00 PM	0.2	0.018	0.000
1:05:00 PM	0.2	0.018	0.000
1:06:00 PM	0.2	0.020	0.000
1:07:00 PM	0.2	0.023	0.000
1:08:00 PM	0.2	0.019	0.000
1:09:00 PM	0.2	0.021	0.000
1:10:00 PM	0.2	0.019	0.000
1:11:00 PM	0.2	0.017	0.000
1:12:00 PM	0.2	0.018	0.000
1:13:00 PM	0.2	0.018	0.000
1:14:00 PM	0.2	0.017	0.000
1:15:00 PM	0.2	0.018	0.000
1:16:00 PM	0.2	0.022	0.000
1:17:00 PM	0.2	0.017	0.000
1:18:00 PM	0.2	0.017	0.000
1:19:00 PM	0.3	0.019	0.000
1:20:00 PM	0.3	0.019	0.000
1:21:00 PM	0.2	0.017	0.000
1:22:00 PM	0.3	0.016	0.000
1:23:00 PM	0.3	0.014	0.000
1:24:00 PM	0.3	0.015	0.000
1:25:00 PM	0.3	0.015	0.000
1:26:00 PM	0.3	0.015	0.000
1:27:00 PM	0.3	0.015	0.000
1:28:00 PM	0.3	0.015	0.000
1:29:00 PM	0.3	0.015	0.000
1:30:00 PM	0.3	0.015	0.000
1:31:00 PM	0.3	0.015	0.000
1:32:00 PM	0.3	0.016	0.000
1:33:00 PM	0.3	0.015	0.000
1:34:00 PM	0.3	0.017	0.000
1:35:00 PM	0.3	0.015	0.000
1:36:00 PM	0.3	0.015	0.000
1:37:00 PM	0.3	0.024	0.000
1:38:00 PM	0.3	0.021	0.000
1:39:00 PM	0.3	0.014	0.000
1:40:00 PM	0.3	0.015	0.000
1:41:00 PM	0.3	0.014	0.000
1:42:00 PM	0.3	0.015	0.000
1:43:00 PM	0.3	0.017	0.000
1:44:00 PM	0.3	0.015	0.000
1:45:00 PM	0.3	0.024	0.000
1:46:00 PM	0.3	0.021	0.000
1:47:00 PM	0.3	0.016	0.000
1:48:00 PM	0.3	0.015	0.000
1:49:00 PM	0.3	0.015	0.000
1:50:00 PM	0.3	0.017	0.000
1:51:00 PM	0.3	0.017	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 20, 2020

[illegible]

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain	X	Overcast	X	Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From NW ~ 22 mph	Date:	11/23/20
Project Name:	LIRR Group D Substation Remediation-Bayside Site-V00388-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. Aarco continues to excavate area #3 utilizing the soil guzzler truck and manually digging methods. As utility conduits are exposed Aarco installs wooden supports to support the conduit. Preferred collected endpoint sample BS-EP-11-B(4') from along the eastern edge of area #3. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site were sampled but not submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/ m ³)	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/m ³)
UP Wind	0.0	0.003	0.000	0.0	0.008	0.000
Down Wind	0.2	0.002	0.000	0.8	0.004	0.000
Work Zone	0.0	0.002	0.000	0.0	0.002	0.000

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

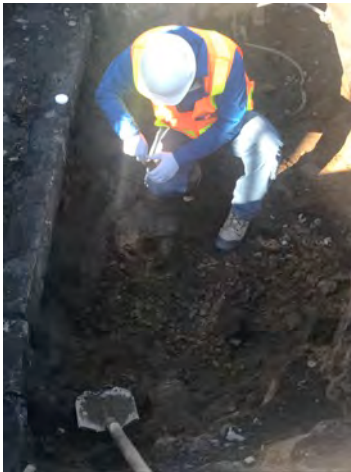
- We will continue excavating in area #3.



Aarco continues excavating area #3.



Aarco utilizing the guzzler truck to excavate all soils.

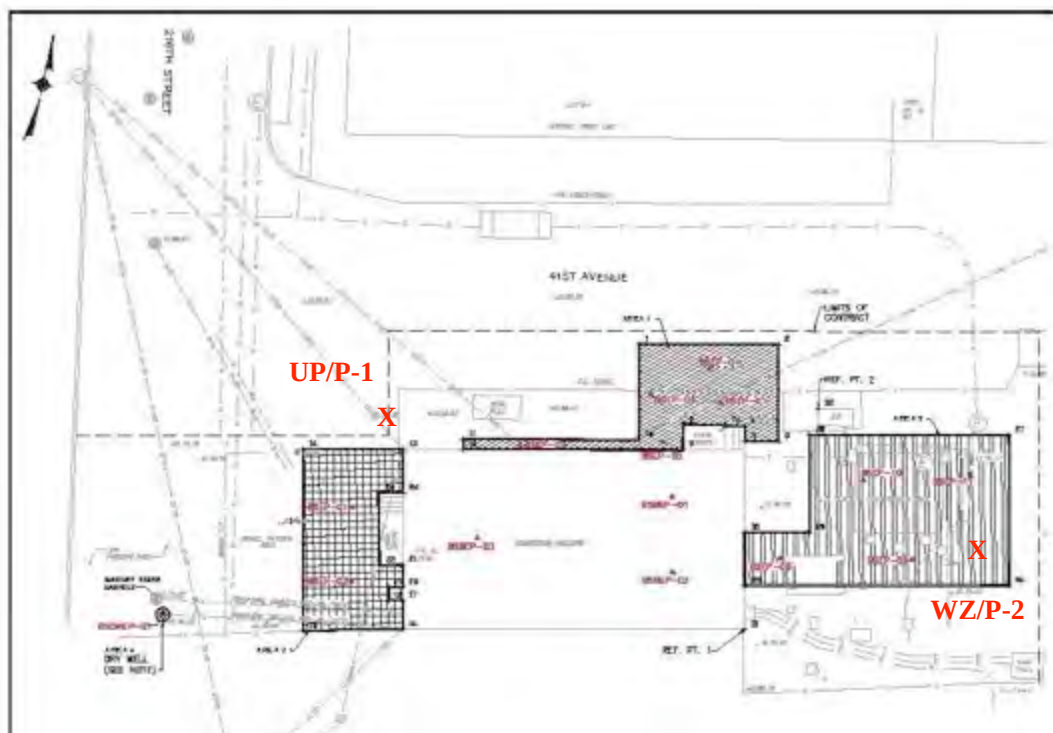


Preferred collecting endpoint sample.



Aarco supporting all uncovered conduits.

Monitoring Locations



X
DW/P-3

LIRR Group D Substations

Bayside Substation

Upwind

November 23, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:59:00 AM	0.0	0.018	0.000
11:00:00 AM	0.0	0.018	0.000
11:01:00 AM	0.0	0.003	0.000
11:02:00 AM	0.0	0.002	0.000
11:03:00 AM	0.0	0.002	0.000
11:04:00 AM	0.0	0.001	0.000
11:05:00 AM	0.0	0.002	0.000
11:06:00 AM	0.0	0.002	0.000
11:07:00 AM	0.0	0.002	0.000
11:08:00 AM	0.0	0.002	0.000
11:09:00 AM	0.0	0.002	0.000
11:10:00 AM	0.0	0.002	0.000
11:11:00 AM	0.0	0.001	0.000
11:12:00 AM	0.0	0.001	0.000
11:13:00 AM	0.0	0.001	0.000
11:14:00 AM	0.0	0.001	0.000
11:15:00 AM	0.0	0.001	0.000
11:16:00 AM	0.0	0.001	0.000
11:17:00 AM	0.0	0.002	0.000
11:18:00 AM	0.0	0.001	0.000
11:19:00 AM	0.0	0.003	0.000
11:20:00 AM	0.0	0.001	0.000
11:21:00 AM	0.0	0.001	0.000
11:22:00 AM	0.0	0.001	0.000
11:23:00 AM	0.0	0.001	0.000
11:24:00 AM	0.0	0.001	0.000
11:25:00 AM	0.0	0.001	0.000
11:26:00 AM	0.0	0.001	0.000
11:27:00 AM	0.0	0.001	0.000
11:28:00 AM	0.0	0.001	0.000
11:29:00 AM	0.0	0.002	0.000
11:30:00 AM	0.0	0.001	0.000
11:31:00 AM	0.0	0.001	0.000
11:32:00 AM	0.0	0.001	0.000
11:33:00 AM	0.0	0.001	0.000
11:34:00 AM	0.0	0.001	0.000
11:35:00 AM	0.0	0.002	0.000
11:36:00 AM	0.0	0.001	0.000
11:37:00 AM	0.0	0.001	0.000
11:38:00 AM	0.0	0.001	0.000
11:39:00 AM	0.0	0.001	0.000
11:40:00 AM	0.0	0.001	0.000
11:41:00 AM	0.0	0.002	0.000
11:42:00 AM	0.0	0.002	0.000
11:43:00 AM	0.0	0.003	0.000
11:44:00 AM	0.0	0.005	0.000
11:45:00 AM	0.0	0.002	0.000
11:46:00 AM	0.0	0.003	0.000
11:47:00 AM	0.0	0.002	0.000
11:48:00 AM	0.0	0.002	0.000
11:49:00 AM	0.0	0.002	0.000
11:50:00 AM	0.0	0.002	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 23, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:51:00 AM	0.0	0.002	0.000
11:52:00 AM	0.0	0.002	0.000
11:53:00 AM	0.0	0.002	0.000
11:54:00 AM	0.0	0.002	0.000
11:55:00 AM	0.0	0.003	0.000
11:56:00 AM	0.0	0.002	0.000
11:57:00 AM	0.0	0.002	0.000
11:58:00 AM	0.0	0.002	0.000
11:59:00 AM	0.0	0.003	0.000
12:00:00 PM	0.0	0.002	0.000
12:01:00 PM	0.0	0.002	0.000
12:02:00 PM	0.0	0.002	0.000
12:03:00 PM	0.0	0.002	0.000
12:04:00 PM	0.0	0.002	0.000
12:05:00 PM	0.0	0.002	0.000
12:06:00 PM	0.0	0.002	0.000
12:07:00 PM	0.0	0.002	0.000
12:08:00 PM	0.0	0.002	0.000
12:09:00 PM	0.0	0.002	0.000
12:10:00 PM	0.0	0.083	0.000
12:11:00 PM	0.0	0.003	0.000
12:12:00 PM	0.0	0.002	0.000
12:13:00 PM	0.0	0.002	0.000
12:14:00 PM	0.0	0.002	0.000
12:15:00 PM	0.0	0.003	0.000
12:16:00 PM	0.0	0.002	0.000
12:17:00 PM	0.0	0.002	0.000
12:18:00 PM	0.0	0.002	0.000
12:19:00 PM	0.0	0.002	0.000
12:20:00 PM	0.0	0.002	0.000
12:21:00 PM	0.0	0.002	0.000
12:22:00 PM	0.0	0.002	0.000
12:23:00 PM	0.0	0.002	0.000
12:24:00 PM	0.0	0.003	0.000
12:25:00 PM	0.0	0.002	0.000
12:26:00 PM	0.0	0.002	0.000
12:27:00 PM	0.0	0.002	0.000
12:28:00 PM	0.0	0.003	0.000
12:29:00 PM	0.0	0.002	0.000
12:30:00 PM	0.0	0.002	0.000
12:31:00 PM	0.0	0.002	0.000
12:32:00 PM	0.0	0.003	0.000
12:33:00 PM	0.0	0.003	0.000
12:34:00 PM	0.0	0.003	0.000
12:35:00 PM	0.0	0.003	0.000
12:36:00 PM	0.0	0.005	0.000
12:37:00 PM	0.0	0.002	0.000
12:38:00 PM	0.0	0.002	0.000
12:39:00 PM	0.0	0.002	0.000
12:40:00 PM	0.0	0.002	0.000
12:41:00 PM	0.0	0.003	0.000
12:42:00 PM	0.0	0.003	0.000
12:43:00 PM	0.0	0.002	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 23, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:44:00 PM	0.0	0.002	0.000
12:45:00 PM	0.0	0.003	0.000
12:46:00 PM	0.0	0.002	0.000
12:47:00 PM	0.0	0.002	0.000
12:48:00 PM	0.0	0.002	0.000
12:49:00 PM	0.0	0.002	0.000
12:50:00 PM	0.0	0.002	0.000
12:51:00 PM	0.0	0.002	0.000
12:52:00 PM	0.0	0.002	0.000
12:53:00 PM	0.0	0.002	0.000
12:54:00 PM	0.0	0.003	0.000
12:55:00 PM	0.0	0.003	0.000
12:56:00 PM	0.0	0.003	0.000
12:57:00 PM	0.0	0.003	0.000
12:58:00 PM	0.0	0.003	0.000
12:59:00 PM	0.0	0.003	0.000
1:00:00 PM	0.0	0.003	0.000
1:01:00 PM	0.0	0.004	0.000
1:02:00 PM	0.0	0.004	0.000
1:03:00 PM	0.0	0.005	0.000
1:04:00 PM	0.0	0.003	0.000
1:05:00 PM	0.0	0.003	0.000
1:06:00 PM	0.0	0.003	0.000
1:07:00 PM	0.0	0.003	0.000
1:08:00 PM	0.0	0.003	0.000
1:09:00 PM	0.0	0.003	0.000
1:10:00 PM	0.0	0.003	0.000
1:11:00 PM	0.0	0.003	0.000
1:12:00 PM	0.0	0.003	0.000
1:13:00 PM	0.0	0.003	0.000
1:14:00 PM	0.0	0.003	0.000
1:15:00 PM	0.0	0.003	0.000
1:16:00 PM	0.0	0.003	0.000
1:17:00 PM	0.0	0.003	0.000
1:18:00 PM	0.0	0.003	0.000
1:19:00 PM	0.0	0.004	0.000
1:20:00 PM	0.0	0.004	0.000
1:21:00 PM	0.0	0.004	0.000
1:22:00 PM	0.0	0.004	0.000
1:23:00 PM	0.0	0.003	0.000
1:24:00 PM	0.0	0.003	0.000
1:25:00 PM	0.0	0.003	0.000
1:26:00 PM	0.0	0.003	0.000
1:27:00 PM	0.0	0.003	0.000
1:28:00 PM	0.0	0.003	0.000
1:29:00 PM	0.0	0.003	0.000
1:30:00 PM	0.0	0.003	0.000
1:31:00 PM	0.0	0.003	0.000
1:32:00 PM	0.0	0.003	0.000
1:33:00 PM	0.0	0.003	0.000
1:34:00 PM	0.0	0.003	0.000
1:35:00 PM	0.0	0.003	0.000
1:36:00 PM	0.0	0.003	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 23, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:37:00 PM	0.0	0.003	0.000
1:38:00 PM	0.0	0.003	0.000
1:39:00 PM	0.0	0.003	0.000
1:40:00 PM	0.0	0.003	0.000
1:41:00 PM	0.0	0.003	0.000
1:42:00 PM	0.0	0.003	0.000
1:43:00 PM	0.0	0.003	0.000
1:44:00 PM	0.0	0.003	0.000
1:45:00 PM	0.0	0.003	0.000
1:46:00 PM	0.0	0.003	0.000
1:47:00 PM	0.0	0.003	0.000
1:48:00 PM	0.0	0.003	0.000
1:49:00 PM	0.0	0.003	0.000
1:50:00 PM	0.0	0.003	0.000
1:51:00 PM	0.0	0.004	0.000
1:52:00 PM	0.0	0.005	0.000
1:53:00 PM	0.0	0.004	0.000
1:54:00 PM	0.0	0.005	0.000
1:55:00 PM	0.0	0.004	0.000
1:56:00 PM	0.0	0.004	0.000
1:57:00 PM	0.0	0.004	0.000
1:58:00 PM	0.0	0.004	0.000
1:59:00 PM	0.0	0.004	0.000
2:00:00 PM	0.0	0.004	0.000
2:01:00 PM	0.0	0.004	0.000
2:02:00 PM	0.0	0.004	0.000
2:03:00 PM	0.0	0.003	0.000
2:04:00 PM	0.0	0.003	0.000
2:05:00 PM	0.0	0.003	0.000
2:06:00 PM	0.0	0.003	0.000
2:07:00 PM	0.0	0.003	0.000
2:08:00 PM	0.0	0.003	0.000
2:09:00 PM	0.0	0.003	0.000
2:10:00 PM	0.0	0.003	0.000
2:11:00 PM	0.0	0.003	0.000
2:12:00 PM	0.0	0.003	0.000
2:13:00 PM	0.0	0.003	0.000
2:14:00 PM	0.0	0.003	0.000
2:15:00 PM	0.0	0.003	0.000
2:16:00 PM	0.0	0.003	0.000
2:17:00 PM	0.0	0.004	0.000
2:18:00 PM	0.0	0.003	0.000
2:19:00 PM	0.0	0.003	0.000
2:20:00 PM	0.0	0.004	0.000
2:21:00 PM	0.0	0.004	0.000
2:22:00 PM	0.0	0.004	0.000
2:23:00 PM	0.0	0.004	0.000
2:24:00 PM	0.0	0.004	0.000
2:25:00 PM	0.0	0.003	0.000
2:26:00 PM	0.0	0.003	0.000
2:27:00 PM	0.0	0.003	0.000
2:28:00 PM	0.0	0.006	0.000
2:29:00 PM	0.0	0.006	0.000

November 23, 2020

0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 23, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:19:00 AM	0.0	0.127	0.000
11:20:00 AM	0.0	0.005	0.000
11:21:00 AM	0.0	0.007	0.000
11:22:00 AM	0.0	0.001	0.000
11:23:00 AM	0.0	0.002	0.000
11:24:00 AM	0.0	0.001	0.000
11:25:00 AM	0.0	0.001	0.000
11:26:00 AM	0.0	0.001	0.000
11:27:00 AM	0.0	0.001	0.000
11:28:00 AM	0.0	0.001	0.000
11:29:00 AM	0.0	0.002	0.000
11:30:00 AM	0.0	0.001	0.000
11:31:00 AM	0.0	0.001	0.000
11:32:00 AM	0.0	0.002	0.000
11:33:00 AM	0.0	0.002	0.000
11:34:00 AM	0.0	0.002	0.000
11:35:00 AM	0.0	0.002	0.000
11:36:00 AM	0.0	0.002	0.000
11:37:00 AM	0.0	0.002	0.000
11:38:00 AM	0.0	0.002	0.000
11:39:00 AM	0.0	0.001	0.000
11:40:00 AM	0.0	0.001	0.000
11:41:00 AM	0.0	0.002	0.000
11:42:00 AM	0.0	0.002	0.000
11:43:00 AM	0.0	0.002	0.000
11:44:00 AM	0.0	0.002	0.000
11:45:00 AM	0.0	0.002	0.000
11:46:00 AM	0.0	0.003	0.000
11:47:00 AM	0.0	0.002	0.000
11:48:00 AM	0.0	0.002	0.000
11:49:00 AM	0.0	0.002	0.000
11:50:00 AM	0.0	0.002	0.000
11:51:00 AM	0.0	0.002	0.000
11:52:00 AM	0.0	0.002	0.000
11:53:00 AM	0.0	0.002	0.000
11:54:00 AM	0.0	0.002	0.000
11:55:00 AM	0.0	0.002	0.000
11:56:00 AM	0.0	0.002	0.000
11:57:00 AM	0.0	0.002	0.000
11:58:00 AM	0.0	0.002	0.000
11:59:00 AM	0.0	0.002	0.000
12:00:00 PM	0.0	0.002	0.000
12:01:00 PM	0.0	0.002	0.000
12:02:00 PM	0.0	0.002	0.000
12:03:00 PM	0.0	0.002	0.000
12:04:00 PM	0.0	0.002	0.000
12:05:00 PM	0.0	0.002	0.000
12:06:00 PM	0.0	0.002	0.000
12:07:00 PM	0.0	0.002	0.000
12:08:00 PM	0.0	0.002	0.000
12:09:00 PM	0.0	0.002	0.000
12:10:00 PM	0.0	0.002	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 23, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:11:00 PM	0.0	0.002	0.000
12:12:00 PM	0.0	0.002	0.000
12:13:00 PM	0.0	0.002	0.000
12:14:00 PM	0.0	0.002	0.000
12:15:00 PM	0.0	0.002	0.000
12:16:00 PM	0.0	0.002	0.000
12:17:00 PM	0.0	0.002	0.000
12:18:00 PM	0.0	0.002	0.000
12:19:00 PM	0.0	0.002	0.000
12:20:00 PM	0.0	0.002	0.000
12:21:00 PM	0.0	0.002	0.000
12:22:00 PM	0.0	0.002	0.000
12:23:00 PM	0.0	0.002	0.000
12:24:00 PM	0.0	0.002	0.000
12:25:00 PM	0.0	0.003	0.000
12:26:00 PM	0.0	0.003	0.000
12:27:00 PM	0.0	0.002	0.000
12:28:00 PM	0.0	0.002	0.000
12:29:00 PM	0.0	0.002	0.000
12:30:00 PM	0.0	0.002	0.000
12:31:00 PM	0.0	0.002	0.000
12:32:00 PM	0.0	0.002	0.000
12:33:00 PM	0.0	0.002	0.000
12:34:00 PM	0.0	0.002	0.000
12:35:00 PM	0.0	0.002	0.000
12:36:00 PM	0.0	0.002	0.000
12:37:00 PM	0.0	0.002	0.000
12:38:00 PM	0.0	0.002	0.000
12:39:00 PM	0.0	0.002	0.000
12:40:00 PM	0.0	0.002	0.000
12:41:00 PM	0.0	0.002	0.000
12:42:00 PM	0.0	0.002	0.000
12:43:00 PM	0.0	0.002	0.000
12:44:00 PM	0.0	0.002	0.000
12:45:00 PM	0.0	0.002	0.000
12:46:00 PM	0.0	0.002	0.000
12:47:00 PM	0.0	0.002	0.000
12:48:00 PM	0.0	0.002	0.000
12:49:00 PM	0.0	0.002	0.000
12:50:00 PM	0.0	0.002	0.000
12:51:00 PM	0.0	0.002	0.000
12:52:00 PM	0.0	0.002	0.000
12:53:00 PM	0.0	0.002	0.000
12:54:00 PM	0.0	0.002	0.000
12:55:00 PM	0.0	0.002	0.000
12:56:00 PM	0.0	0.002	0.000
12:57:00 PM	0.0	0.002	0.000
12:58:00 PM	0.0	0.002	0.000
12:59:00 PM	0.0	0.002	0.000
1:00:00 PM	0.0	0.002	0.000
1:01:00 PM	0.0	0.003	0.000
1:02:00 PM	0.0	0.003	0.000
1:03:00 PM	0.0	0.003	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 23, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:04:00 PM	0.0	0.002	0.000
1:05:00 PM	0.0	0.002	0.000
1:06:00 PM	0.0	0.003	0.000
1:07:00 PM	0.0	0.003	0.000
1:08:00 PM	0.0	0.002	0.000
1:09:00 PM	0.0	0.002	0.000
1:10:00 PM	0.0	0.002	0.000
1:11:00 PM	0.0	0.002	0.000
1:12:00 PM	0.0	0.002	0.000
1:13:00 PM	0.0	0.002	0.000
1:14:00 PM	0.0	0.002	0.000
1:15:00 PM	0.0	0.002	0.000
1:16:00 PM	0.0	0.002	0.000
1:17:00 PM	0.0	0.002	0.000
1:18:00 PM	0.0	0.002	0.000
1:19:00 PM	0.0	0.003	0.000
1:20:00 PM	0.0	0.003	0.000
1:21:00 PM	0.0	0.003	0.000
1:22:00 PM	0.0	0.003	0.000
1:23:00 PM	0.0	0.003	0.000
1:24:00 PM	0.0	0.002	0.000
1:25:00 PM	0.0	0.002	0.000
1:26:00 PM	0.0	0.002	0.000
1:27:00 PM	0.0	0.002	0.000
1:28:00 PM	0.0	0.002	0.000
1:29:00 PM	0.0	0.002	0.000
1:30:00 PM	0.0	0.003	0.000
1:31:00 PM	0.0	0.002	0.000
1:32:00 PM	0.0	0.002	0.000
1:33:00 PM	0.0	0.002	0.000
1:34:00 PM	0.0	0.002	0.000
1:35:00 PM	0.0	0.002	0.000
1:36:00 PM	0.0	0.002	0.000
1:37:00 PM	0.0	0.002	0.000
1:38:00 PM	0.0	0.002	0.000
1:39:00 PM	0.0	0.002	0.000
1:40:00 PM	0.0	0.002	0.000
1:41:00 PM	0.0	0.002	0.000
1:42:00 PM	0.0	0.002	0.000
1:43:00 PM	0.0	0.002	0.000
1:44:00 PM	0.0	0.002	0.000
1:45:00 PM	0.0	0.002	0.000
1:46:00 PM	0.0	0.002	0.000
1:47:00 PM	0.0	0.002	0.000
1:48:00 PM	0.0	0.002	0.000
1:49:00 PM	0.0	0.002	0.000
1:50:00 PM	0.0	0.002	0.000
1:51:00 PM	0.0	0.002	0.000
1:52:00 PM	0.0	0.002	0.000
1:53:00 PM	0.0	0.003	0.000
1:54:00 PM	0.0	0.003	0.000
1:55:00 PM	0.0	0.003	0.000
1:56:00 PM	0.0	0.003	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 23, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:13:00 AM	0.0	0.009	0.000
11:14:00 AM	0.0	0.002	0.000
11:15:00 AM	0.0	0.002	0.000
11:16:00 AM	0.0	0.004	0.000
11:17:00 AM	0.0	0.003	0.000
11:18:00 AM	0.0	0.003	0.000
11:19:00 AM	0.0	0.003	0.000
11:20:00 AM	0.0	0.004	0.000
11:21:00 AM	0.0	0.001	0.000
11:22:00 AM	0.0	0.002	0.000
11:23:00 AM	0.0	0.003	0.000
11:24:00 AM	0.0	0.002	0.000
11:25:00 AM	0.0	0.002	0.000
11:26:00 AM	0.0	0.001	0.000
11:27:00 AM	0.0	0.002	0.000
11:28:00 AM	0.0	0.004	0.000
11:29:00 AM	0.0	0.003	0.000
11:30:00 AM	0.0	0.002	0.000
11:31:00 AM	0.0	0.004	0.000
11:32:00 AM	0.0	0.002	0.000
11:33:00 AM	0.0	0.002	0.000
11:34:00 AM	0.0	0.002	0.000
11:35:00 AM	0.0	0.002	0.000
11:36:00 AM	0.0	0.002	0.000
11:37:00 AM	0.0	0.002	0.000
11:38:00 AM	0.0	0.002	0.000
11:39:00 AM	0.0	0.004	0.000
11:40:00 AM	0.0	0.003	0.000
11:41:00 AM	0.0	0.003	0.000
11:42:00 AM	0.0	0.004	0.000
11:43:00 AM	0.0	0.003	0.000
11:44:00 AM	0.0	0.003	0.000
11:45:00 AM	0.0	0.003	0.000
11:46:00 AM	0.0	0.003	0.000
11:47:00 AM	0.0	0.003	0.000
11:48:00 AM	0.0	0.002	0.000
11:49:00 AM	0.0	0.002	0.000
11:50:00 AM	0.0	0.003	0.000
11:51:00 AM	0.0	0.005	0.000
11:52:00 AM	0.0	0.003	0.000
11:53:00 AM	0.0	0.003	0.000
11:54:00 AM	0.0	0.004	0.000
11:55:00 AM	0.0	0.003	0.000
11:56:00 AM	0.0	0.002	0.000
11:57:00 AM	0.0	0.003	0.000
11:58:00 AM	0.0	0.003	0.000
11:59:00 AM	0.0	0.003	0.000
12:00:00 PM	0.0	0.002	0.000
12:01:00 PM	0.0	0.002	0.000
12:02:00 PM	0.0	0.002	0.000
12:03:00 PM	0.0	0.002	0.000
12:04:00 PM	0.0	0.002	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 23, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:05:00 PM	0.0	0.002	0.000
12:06:00 PM	0.0	0.002	0.000
12:07:00 PM	0.0	0.002	0.000
12:08:00 PM	0.0	0.002	0.000
12:09:00 PM	0.0	0.002	0.000
12:10:00 PM	0.0	0.002	0.000
12:11:00 PM	0.0	0.002	0.000
12:12:00 PM	0.0	0.002	0.000
12:13:00 PM	0.0	0.002	0.000
12:14:00 PM	0.0	0.001	0.000
12:15:00 PM	0.0	0.002	0.000
12:16:00 PM	0.0	0.002	0.000
12:17:00 PM	0.0	0.001	0.000
12:18:00 PM	0.0	0.001	0.000
12:19:00 PM	0.0	0.001	0.000
12:20:00 PM	0.0	0.002	0.000
12:21:00 PM	0.0	0.001	0.000
12:22:00 PM	0.0	0.001	0.000
12:23:00 PM	0.0	0.001	0.000
12:24:00 PM	0.0	0.001	0.000
12:25:00 PM	0.0	0.001	0.000
12:26:00 PM	0.0	0.001	0.000
12:27:00 PM	0.0	0.001	0.000
12:28:00 PM	0.0	0.001	0.000
12:29:00 PM	0.0	0.001	0.000
12:30:00 PM	0.0	0.001	0.000
12:31:00 PM	0.0	0.001	0.000
12:32:00 PM	0.0	0.001	0.000
12:33:00 PM	0.0	0.001	0.000
12:34:00 PM	0.0	0.001	0.000
12:35:00 PM	0.0	0.001	0.000
12:36:00 PM	0.0	0.001	0.000
12:37:00 PM	0.0	0.001	0.000
12:38:00 PM	0.0	0.001	0.000
12:39:00 PM	0.0	0.001	0.000
12:40:00 PM	0.0	0.001	0.000
12:41:00 PM	0.0	0.001	0.000
12:42:00 PM	0.0	0.001	0.000
12:43:00 PM	0.0	0.001	0.000
12:44:00 PM	0.0	0.001	0.000
12:45:00 PM	0.1	0.001	0.000
12:46:00 PM	0.0	0.001	0.000
12:47:00 PM	0.0	0.001	0.000
12:48:00 PM	0.0	0.001	0.000
12:49:00 PM	0.1	0.001	0.000
12:50:00 PM	0.1	0.002	0.000
12:51:00 PM	0.1	0.002	0.000
12:52:00 PM	0.1	0.002	0.000
12:53:00 PM	0.1	0.003	0.000
12:54:00 PM	0.2	0.003	0.000
12:55:00 PM	0.1	0.005	0.000
12:56:00 PM	0.2	0.005	0.000
12:57:00 PM	0.2	0.003	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 23, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:58:00 PM	0.3	0.003	0.000
12:59:00 PM	0.2	0.003	0.000
1:00:00 PM	0.2	0.002	0.000
1:01:00 PM	0.2	0.002	0.000
1:02:00 PM	0.2	0.003	0.000
1:03:00 PM	0.1	0.002	0.000
1:04:00 PM	0.2	0.002	0.000
1:05:00 PM	0.2	0.002	0.000
1:06:00 PM	0.2	0.002	0.000
1:07:00 PM	0.3	0.004	0.000
1:08:00 PM	0.3	0.003	0.000
1:09:00 PM	0.3	0.002	0.000
1:10:00 PM	0.3	0.002	0.000
1:11:00 PM	0.3	0.002	0.000
1:12:00 PM	0.2	0.002	0.000
1:13:00 PM	0.2	0.002	0.000
1:14:00 PM	0.3	0.002	0.000
1:15:00 PM	0.3	0.001	0.000
1:16:00 PM	0.3	0.002	0.000
1:17:00 PM	0.3	0.002	0.000
1:18:00 PM	0.3	0.002	0.000
1:19:00 PM	0.3	0.003	0.000
1:20:00 PM	0.4	0.003	0.000
1:21:00 PM	0.3	0.004	0.000
1:22:00 PM	0.3	0.003	0.000
1:23:00 PM	0.4	0.004	0.000
1:24:00 PM	0.3	0.003	0.000
1:25:00 PM	0.4	0.001	0.000
1:26:00 PM	0.4	0.002	0.000
1:27:00 PM	0.5	0.003	0.000
1:28:00 PM	0.4	0.002	0.000
1:29:00 PM	0.4	0.003	0.000
1:30:00 PM	0.4	0.003	0.000
1:31:00 PM	0.4	0.002	0.000
1:32:00 PM	0.4	0.001	0.000
1:33:00 PM	0.4	0.001	0.000
1:34:00 PM	0.4	0.002	0.000
1:35:00 PM	0.5	0.001	0.000
1:36:00 PM	0.5	0.001	0.000
1:37:00 PM	0.5	0.003	0.000
1:38:00 PM	0.5	0.009	0.000
1:39:00 PM	0.5	0.003	0.000
1:40:00 PM	0.5	0.006	0.000
1:41:00 PM	0.6	0.004	0.000
1:42:00 PM	0.5	0.002	0.000
1:43:00 PM	0.5	0.002	0.000
1:44:00 PM	0.5	0.004	0.000
1:45:00 PM	0.5	0.004	0.000
1:46:00 PM	0.6	0.004	0.000
1:47:00 PM	1.8	0.005	0.000
1:48:00 PM	0.9	0.005	0.000
1:49:00 PM	0.5	0.003	0.000
1:50:00 PM	0.5	0.002	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 23, 2020

[illegible]

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From NW ~ 12 mph	Date:	11/24/20
Project Name:	LIRR Group D Substation Remediation-Bayside Site-V00388-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. Aarco continues to excavate area #3 utilizing the soil guzzler truck and manually digging methods working towards the southeastern corner of the area. As utility conduits are exposed Aarco installs wooden supports to support the conduit. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site as well as two high risk workers were sampled and submitted for documentation sampling. The downwind monitor recorded a high PID reading from a LIRR worker whom had parked to close to the monitor at 13:20, the monitor was moved to avoid the exhaust.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/ m ³)	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/m ³)
UP Wind	0.0	0.006	0.000	0.0	0.013	0.000
Down Wind	0.3	0.006	0.000	2.3	0.014	0.000
Work Zone	0.0	0.005	0.000	0.0	0.006	0.000

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- We will finish excavating in area #3 and start backfilling the same.



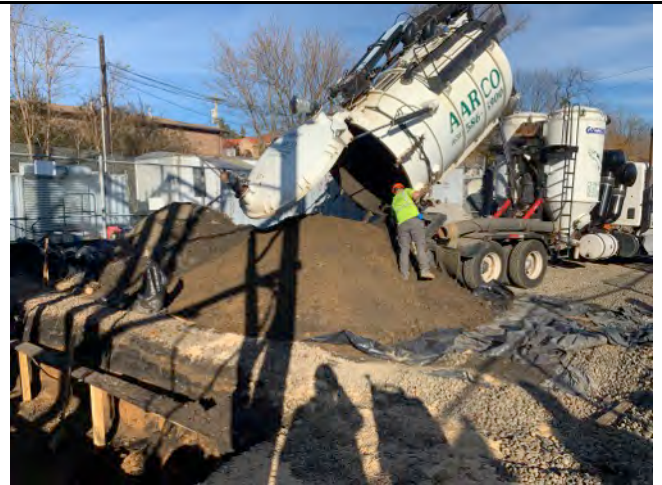
View of work zone camp monitor.



Aarco utilizing the guzzler truck to excavate all soils.

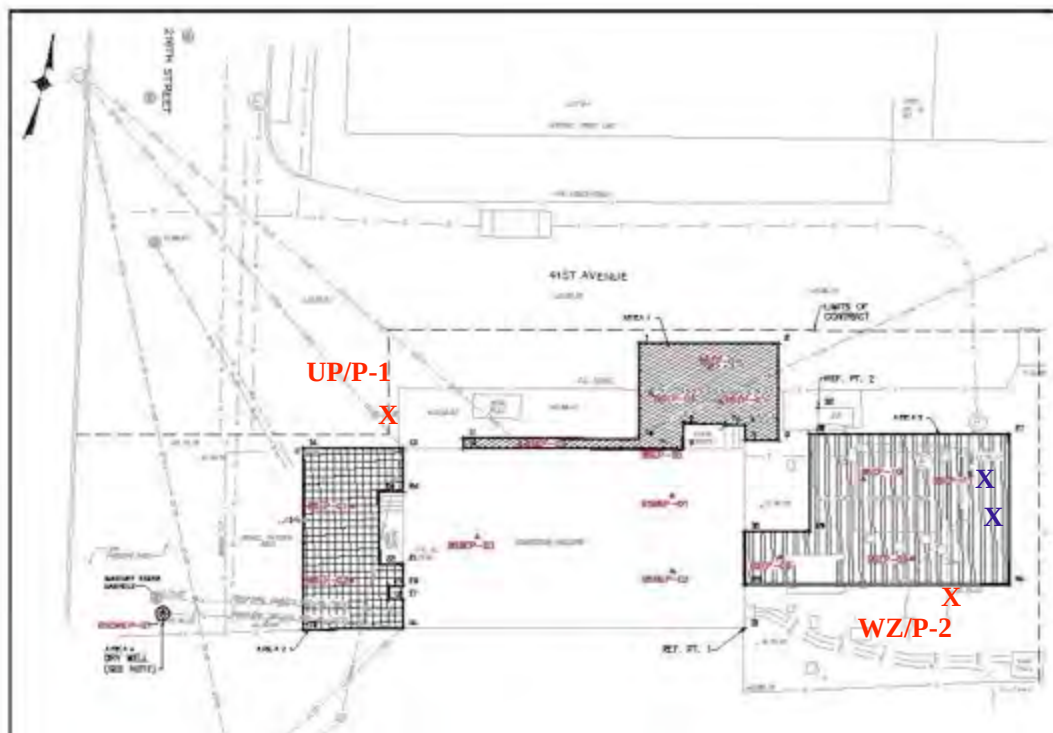


Wooden supports for conduit.



Aarco dumping excavated soils onto the stockpile.

Monitoring Locations



W-1
W-2

X
DW/P-3

LIRR Group D Substations

Bayside Substation

Upwind

November 24, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
9:03:00 AM	0.0	0.0	0.000
9:04:00 AM	0.0	0.011	0.000
9:05:00 AM	0.0	0.011	0.000
9:06:00 AM	0.0	0.012	0.000
9:07:00 AM	0.0	0.011	0.000
9:08:00 AM	0.0	0.011	0.000
9:09:00 AM	0.0	0.011	0.000
9:10:00 AM	0.0	0.010	0.000
9:11:00 AM	0.0	0.010	0.000
9:12:00 AM	0.0	0.011	0.000
9:13:00 AM	0.0	0.011	0.000
9:14:00 AM	0.0	0.027	0.000
9:15:00 AM	0.0	0.012	0.000
9:16:00 AM	0.0	0.012	0.000
9:17:00 AM	0.0	0.013	0.000
9:18:00 AM	0.0	0.012	0.000
9:19:00 AM	0.0	0.013	0.000
9:20:00 AM	0.0	0.014	0.000
9:21:00 AM	0.0	0.012	0.000
9:22:00 AM	0.0	0.012	0.000
9:23:00 AM	0.0	0.011	0.000
9:24:00 AM	0.0	0.011	0.000
9:25:00 AM	0.0	0.011	0.000
9:26:00 AM	0.0	0.012	0.000
9:27:00 AM	0.0	0.012	0.000
9:28:00 AM	0.0	0.012	0.000
9:29:00 AM	0.0	0.011	0.000
9:30:00 AM	0.0	0.011	0.000
9:31:00 AM	0.0	0.011	0.000
9:32:00 AM	0.0	0.013	0.000
9:33:00 AM	0.0	0.013	0.000
9:34:00 AM	0.0	0.011	0.000
9:35:00 AM	0.0	0.010	0.000
9:36:00 AM	0.0	0.009	0.000
9:37:00 AM	0.0	0.009	0.000
9:38:00 AM	0.0	0.009	0.000
9:39:00 AM	0.0	0.009	0.000
9:40:00 AM	0.0	0.009	0.000
9:41:00 AM	0.0	0.008	0.000
9:42:00 AM	0.0	0.007	0.000
9:43:00 AM	0.0	0.007	0.000
9:44:00 AM	0.0	0.007	0.000
9:45:00 AM	0.0	0.008	0.000
9:46:00 AM	0.0	0.007	0.000
9:47:00 AM	0.0	0.007	0.000
9:48:00 AM	0.0	0.007	0.000
9:49:00 AM	0.0	0.007	0.000
9:50:00 AM	0.0	0.007	0.000
9:51:00 AM	0.0	0.008	0.000
9:52:00 AM	0.0	0.007	0.000
9:53:00 AM	0.0	0.007	0.000
9:54:00 AM	0.0	0.007	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 24, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
9:55:00 AM	0.0	0.007	0.000
9:56:00 AM	0.0	0.007	0.000
9:57:00 AM	0.0	0.006	0.000
9:58:00 AM	0.0	0.006	0.000
9:59:00 AM	0.0	0.005	0.000
10:00:00 AM	0.0	0.005	0.000
10:01:00 AM	0.0	0.005	0.000
10:02:00 AM	0.0	0.005	0.000
10:03:00 AM	0.0	0.005	0.000
10:04:00 AM	0.0	0.005	0.000
10:05:00 AM	0.0	0.005	0.000
10:06:00 AM	0.0	0.005	0.000
10:07:00 AM	0.0	0.005	0.000
10:08:00 AM	0.0	0.005	0.000
10:09:00 AM	0.0	0.005	0.000
10:10:00 AM	0.0	0.005	0.000
10:11:00 AM	0.0	0.005	0.000
10:12:00 AM	0.0	0.005	0.000
10:13:00 AM	0.0	0.005	0.000
10:14:00 AM	0.0	0.005	0.000
10:15:00 AM	0.0	0.005	0.000
10:16:00 AM	0.0	0.005	0.000
10:17:00 AM	0.0	0.005	0.000
10:18:00 AM	0.0	0.005	0.000
10:19:00 AM	0.0	0.005	0.000
10:20:00 AM	0.0	0.005	0.000
10:21:00 AM	0.0	0.005	0.000
10:22:00 AM	0.0	0.005	0.000
10:23:00 AM	0.0	0.005	0.000
10:24:00 AM	0.0	0.005	0.000
10:25:00 AM	0.0	0.005	0.000
10:26:00 AM	0.0	0.007	0.000
10:27:00 AM	0.0	0.006	0.000
10:28:00 AM	0.0	0.006	0.000
10:29:00 AM	0.0	0.010	0.000
10:30:00 AM	0.0	0.007	0.000
10:31:00 AM	0.0	0.005	0.000
10:32:00 AM	0.0	0.005	0.000
10:33:00 AM	0.0	0.005	0.000
10:34:00 AM	0.0	0.005	0.000
10:35:00 AM	0.0	0.005	0.000
10:36:00 AM	0.0	0.005	0.000
10:37:00 AM	0.0	0.005	0.000
10:38:00 AM	0.0	0.005	0.000
10:39:00 AM	0.0	0.005	0.000
10:40:00 AM	0.0	0.005	0.000
10:41:00 AM	0.0	0.005	0.000
10:42:00 AM	0.0	0.005	0.000
10:43:00 AM	0.0	0.005	0.000
10:44:00 AM	0.0	0.005	0.000
10:45:00 AM	0.0	0.005	0.000
10:46:00 AM	0.0	0.005	0.000
10:47:00 AM	0.0	0.005	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 24, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:48:00 AM	0.0	0.005	0.000
10:49:00 AM	0.0	0.005	0.000
10:50:00 AM	0.0	0.005	0.000
10:51:00 AM	0.0	0.005	0.000
10:52:00 AM	0.0	0.005	0.000
10:53:00 AM	0.0	0.005	0.000
10:54:00 AM	0.0	0.005	0.000
10:55:00 AM	0.0	0.005	0.000
10:56:00 AM	0.0	0.005	0.000
10:57:00 AM	0.0	0.005	0.000
10:58:00 AM	0.0	0.005	0.000
10:59:00 AM	0.0	0.005	0.000
11:00:00 AM	0.0	0.005	0.000
11:01:00 AM	0.0	0.005	0.000
11:02:00 AM	0.0	0.005	0.000
11:03:00 AM	0.0	0.005	0.000
11:04:00 AM	0.0	0.005	0.000
11:05:00 AM	0.0	0.005	0.000
11:06:00 AM	0.0	0.005	0.000
11:07:00 AM	0.0	0.005	0.000
11:08:00 AM	0.0	0.005	0.000
11:09:00 AM	0.0	0.005	0.000
11:10:00 AM	0.0	0.005	0.000
11:11:00 AM	0.0	0.005	0.000
11:12:00 AM	0.0	0.005	0.000
11:13:00 AM	0.0	0.005	0.000
11:14:00 AM	0.0	0.005	0.000
11:15:00 AM	0.0	0.005	0.000
11:16:00 AM	0.0	0.005	0.000
11:17:00 AM	0.0	0.004	0.000
11:18:00 AM	0.0	0.004	0.000
11:19:00 AM	0.0	0.004	0.000
11:20:00 AM	0.0	0.004	0.000
11:21:00 AM	0.0	0.005	0.000
11:22:00 AM	0.0	0.005	0.000
11:23:00 AM	0.0	0.005	0.000
11:24:00 AM	0.0	0.005	0.000
11:25:00 AM	0.0	0.004	0.000
11:26:00 AM	0.0	0.004	0.000
11:27:00 AM	0.0	0.004	0.000
11:28:00 AM	0.0	0.004	0.000
11:29:00 AM	0.0	0.004	0.000
11:30:00 AM	0.0	0.004	0.000
11:31:00 AM	0.0	0.005	0.000
11:32:00 AM	0.0	0.005	0.000
11:33:00 AM	0.0	0.005	0.000
11:34:00 AM	0.0	0.005	0.000
11:35:00 AM	0.0	0.005	0.000
11:36:00 AM	0.0	0.005	0.000
11:37:00 AM	0.0	0.005	0.000
11:38:00 AM	0.0	0.005	0.000
11:39:00 AM	0.0	0.005	0.000
11:40:00 AM	0.0	0.005	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 24, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:41:00 AM	0.0	0.005	0.000
11:42:00 AM	0.0	0.005	0.000
11:43:00 AM	0.0	0.005	0.000
11:44:00 AM	0.0	0.005	0.000
11:45:00 AM	0.0	0.005	0.000
11:46:00 AM	0.0	0.005	0.000
11:47:00 AM	0.0	0.005	0.000
11:48:00 AM	0.0	0.004	0.000
11:49:00 AM	0.0	0.005	0.000
11:50:00 AM	0.0	0.005	0.000
11:51:00 AM	0.0	0.005	0.000
11:52:00 AM	0.0	0.005	0.000
11:53:00 AM	0.0	0.005	0.000
11:54:00 AM	0.0	0.005	0.000
11:55:00 AM	0.0	0.005	0.000
11:56:00 AM	0.0	0.005	0.000
11:57:00 AM	0.0	0.005	0.000
11:58:00 AM	0.0	0.005	0.000
11:59:00 AM	0.0	0.005	0.000
12:00:00 PM	0.0	0.005	0.000
12:01:00 PM	0.0	0.005	0.000
12:02:00 PM	0.0	0.005	0.000
12:03:00 PM	0.0	0.005	0.000
12:04:00 PM	0.0	0.005	0.000
12:05:00 PM	0.0	0.005	0.000
12:06:00 PM	0.0	0.005	0.000
12:07:00 PM	0.0	0.005	0.000
12:08:00 PM	0.0	0.005	0.000
12:09:00 PM	0.0	0.005	0.000
12:10:00 PM	0.0	0.005	0.000
12:11:00 PM	0.0	0.005	0.000
12:12:00 PM	0.0	0.005	0.000
12:13:00 PM	0.0	0.005	0.000
12:14:00 PM	0.0	0.005	0.000
12:15:00 PM	0.0	0.005	0.000
12:16:00 PM	0.0	0.005	0.000
12:17:00 PM	0.0	0.005	0.000
12:18:00 PM	0.0	0.005	0.000
12:19:00 PM	0.0	0.006	0.000
12:20:00 PM	0.0	0.006	0.000
12:21:00 PM	0.0	0.006	0.000
12:22:00 PM	0.0	0.006	0.000
12:23:00 PM	0.0	0.006	0.000
12:24:00 PM	0.0	0.007	0.000
12:25:00 PM	0.0	0.006	0.000
12:26:00 PM	0.0	0.007	0.000
12:27:00 PM	0.0	0.006	0.000
12:28:00 PM	0.0	0.005	0.000
12:29:00 PM	0.0	0.005	0.000
12:30:00 PM	0.0	0.005	0.000
12:31:00 PM	0.0	0.005	0.000
12:32:00 PM	0.0	0.005	0.000
12:33:00 PM	0.0	0.005	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 24, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:34:00 PM	0.0	0.005	0.000
12:35:00 PM	0.0	0.006	0.000
12:36:00 PM	0.0	0.006	0.000
12:37:00 PM	0.0	0.006	0.000
12:38:00 PM	0.0	0.006	0.000
12:39:00 PM	0.0	0.005	0.000
12:40:00 PM	0.0	0.005	0.000
12:41:00 PM	0.0	0.005	0.000
12:42:00 PM	0.0	0.006	0.000
12:43:00 PM	0.0	0.005	0.000
12:44:00 PM	0.0	0.006	0.000
12:45:00 PM	0.0	0.005	0.000
12:46:00 PM	0.0	0.005	0.000
12:47:00 PM	0.0	0.006	0.000
12:48:00 PM	0.0	0.006	0.000
12:49:00 PM	0.0	0.006	0.000
12:50:00 PM	0.0	0.005	0.000
12:51:00 PM	0.0	0.005	0.000
12:52:00 PM	0.0	0.005	0.000
12:53:00 PM	0.0	0.005	0.000
12:54:00 PM	0.0	0.005	0.000
12:55:00 PM	0.0	0.005	0.000
12:56:00 PM	0.0	0.005	0.000
12:57:00 PM	0.0	0.005	0.000
12:58:00 PM	0.0	0.005	0.000
12:59:00 PM	0.0	0.006	0.000
1:00:00 PM	0.0	0.006	0.000
1:01:00 PM	0.0	0.006	0.000
1:02:00 PM	0.0	0.006	0.000
1:03:00 PM	0.0	0.006	0.000
1:04:00 PM	0.0	0.006	0.000
1:05:00 PM	0.0	0.005	0.000
1:06:00 PM	0.0	0.006	0.000
1:07:00 PM	0.0	0.006	0.000
1:08:00 PM	0.0	0.005	0.000
1:09:00 PM	0.0	0.005	0.000
1:10:00 PM	0.0	0.006	0.000
1:11:00 PM	0.0	0.006	0.000
1:12:00 PM	0.0	0.005	0.000
1:13:00 PM	0.0	0.005	0.000
1:14:00 PM	0.0	0.005	0.000
1:15:00 PM	0.0	0.006	0.000
1:16:00 PM	0.0	0.006	0.000
1:17:00 PM	0.0	0.007	0.000
1:18:00 PM	0.0	0.006	0.000
1:19:00 PM	0.0	0.007	0.000
1:20:00 PM	0.0	0.007	0.000
1:21:00 PM	0.0	0.007	0.000
1:22:00 PM	0.0	0.007	0.000
1:23:00 PM	0.0	0.006	0.000
1:24:00 PM	0.0	0.006	0.000
1:25:00 PM	0.0	0.006	0.000
1:26:00 PM	0.0	0.006	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 24, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:27:00 PM	0.0	0.006	0.000
1:28:00 PM	0.0	0.006	0.000
1:29:00 PM	0.0	0.006	0.000
1:30:00 PM	0.0	0.006	0.000
1:31:00 PM	0.0	0.006	0.000
1:32:00 PM	0.0	0.006	0.000
1:33:00 PM	0.0	0.006	0.000
1:34:00 PM	0.0	0.006	0.000
1:35:00 PM	0.0	0.006	0.000
1:36:00 PM	0.0	0.006	0.000
1:37:00 PM	0.0	0.006	0.000
1:38:00 PM	0.0	0.006	0.000
1:39:00 PM	0.0	0.006	0.000
1:40:00 PM	0.0	0.006	0.000
1:41:00 PM	0.0	0.006	0.000
1:42:00 PM	0.0	0.006	0.000
1:43:00 PM	0.0	0.006	0.000
1:44:00 PM	0.0	0.006	0.000
1:45:00 PM	0.0	0.006	0.000
1:46:00 PM	0.0	0.006	0.000
1:47:00 PM	0.0	0.006	0.000
1:48:00 PM	0.0	0.006	0.000
1:49:00 PM	0.0	0.006	0.000
1:50:00 PM	0.0	0.006	0.000
1:51:00 PM	0.0	0.006	0.000
1:52:00 PM	0.0	0.006	0.000
1:53:00 PM	0.0	0.006	0.000
1:54:00 PM	0.0	0.006	0.000
1:55:00 PM	0.0	0.006	0.000
1:56:00 PM	0.0	0.006	0.000
1:57:00 PM	0.0	0.006	0.000
1:58:00 PM	0.0	0.006	0.000
1:59:00 PM	0.0	0.006	0.000
2:00:00 PM	0.0	0.006	0.000
2:01:00 PM	0.0	0.006	0.000
2:02:00 PM	0.0	0.006	0.000
2:03:00 PM	0.0	0.006	0.000
2:04:00 PM	0.0	0.006	0.000
2:05:00 PM	0.0	0.006	0.000
2:06:00 PM	0.0	0.006	0.000
2:07:00 PM	0.0	0.006	0.000
2:08:00 PM	0.0	0.006	0.000
2:09:00 PM	0.0	0.006	0.000
2:10:00 PM	0.0	0.006	0.000
2:11:00 PM	0.0	0.006	0.000
2:12:00 PM	0.0	0.006	0.000
2:13:00 PM	0.0	0.006	0.000
2:14:00 PM	0.0	0.006	0.000
2:15:00 PM	0.0	0.006	0.000
2:16:00 PM	0.0	0.006	0.000
2:17:00 PM	0.0	0.006	0.000
2:18:00 PM	0.0	0.006	0.000
2:19:00 PM	0.0	0.006	0.000

LIRR Group D Substations

Bayside Substation

Upwind

November 24, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
2:20:00 PM	0.0	0.006	0.000
2:21:00 PM	0.0	0.006	0.000
2:22:00 PM	0.0	0.006	0.000
2:23:00 PM	0.0	0.006	0.000
2:24:00 PM	0.0	0.006	0.000
2:25:00 PM	0.0	0.006	0.000
2:26:00 PM	0.0	0.006	0.000
2:27:00 PM	0.0	0.006	0.000
2:28:00 PM	0.0	0.006	0.000
2:29:00 PM	0.0	0.006	0.000
2:30:00 PM	0.0	0.005	0.000
2:31:00 PM	0.0	0.005	0.000
2:32:00 PM	0.0	0.005	0.000
2:33:00 PM	0.0	0.005	0.000
2:34:00 PM	0.0	0.005	0.000
2:35:00 PM	0.0	0.005	0.000
2:36:00 PM	0.0	0.005	0.000
2:37:00 PM	0.0	0.005	0.000
2:38:00 PM	0.0	0.005	0.000
2:39:00 PM	0.0	0.006	0.000
2:40:00 PM	0.0	0.005	0.000
2:41:00 PM	0.0	0.006	0.000
2:42:00 PM	0.0	0.006	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 24, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
9:54:00 AM	0.0	0.015	0.000
9:55:00 AM	0.0	0.140	0.000
9:56:00 AM	0.0	0.008	0.000
9:57:00 AM	0.0	0.007	0.000
9:58:00 AM	0.0	0.007	0.000
9:59:00 AM	0.0	0.006	0.000
10:00:00 AM	0.0	0.009	0.000
10:01:00 AM	0.0	0.005	0.000
10:02:00 AM	0.0	0.005	0.000
10:03:00 AM	0.0	0.005	0.000
10:04:00 AM	0.0	0.005	0.000
10:05:00 AM	0.0	0.005	0.000
10:06:00 AM	0.0	0.004	0.000
10:07:00 AM	0.0	0.005	0.000
10:08:00 AM	0.0	0.005	0.000
10:09:00 AM	0.0	0.005	0.000
10:10:00 AM	0.0	0.005	0.000
10:11:00 AM	0.0	0.004	0.000
10:12:00 AM	0.0	0.004	0.000
10:13:00 AM	0.0	0.004	0.000
10:14:00 AM	0.0	0.004	0.000
10:15:00 AM	0.0	0.005	0.000
10:16:00 AM	0.0	0.005	0.000
10:17:00 AM	0.0	0.005	0.000
10:18:00 AM	0.0	0.004	0.000
10:19:00 AM	0.0	0.004	0.000
10:20:00 AM	0.0	0.004	0.000
10:21:00 AM	0.0	0.004	0.000
10:22:00 AM	0.0	0.004	0.000
10:23:00 AM	0.0	0.004	0.000
10:24:00 AM	0.0	0.005	0.000
10:25:00 AM	0.0	0.005	0.000
10:26:00 AM	0.0	0.005	0.000
10:27:00 AM	0.0	0.005	0.000
10:28:00 AM	0.0	0.005	0.000
10:29:00 AM	0.0	0.005	0.000
10:30:00 AM	0.0	0.006	0.000
10:31:00 AM	0.0	0.005	0.000
10:32:00 AM	0.0	0.005	0.000
10:33:00 AM	0.0	0.005	0.000
10:34:00 AM	0.0	0.005	0.000
10:35:00 AM	0.0	0.005	0.000
10:36:00 AM	0.0	0.005	0.000
10:37:00 AM	0.1	0.005	0.000
10:38:00 AM	0.0	0.004	0.000
10:39:00 AM	0.0	0.005	0.000
10:40:00 AM	0.1	0.004	0.000
10:41:00 AM	0.1	0.004	0.000
10:42:00 AM	0.1	0.004	0.000
10:43:00 AM	0.1	0.005	0.000
10:44:00 AM	0.1	0.005	0.000
10:45:00 AM	0.1	0.005	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 24, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:46:00 AM	0.1	0.004	0.000
10:47:00 AM	0.1	0.004	0.000
10:48:00 AM	0.1	0.004	0.000
10:49:00 AM	0.1	0.004	0.000
10:50:00 AM	0.1	0.004	0.000
10:51:00 AM	0.1	0.004	0.000
10:52:00 AM	0.1	0.004	0.000
10:53:00 AM	0.1	0.004	0.000
10:54:00 AM	0.1	0.004	0.000
10:55:00 AM	0.1	0.005	0.000
10:56:00 AM	0.1	0.004	0.000
10:57:00 AM	0.1	0.004	0.000
10:58:00 AM	0.1	0.005	0.000
10:59:00 AM	0.1	0.004	0.000
11:00:00 AM	0.1	0.004	0.000
11:01:00 AM	0.1	0.005	0.000
11:02:00 AM	0.1	0.004	0.000
11:03:00 AM	0.1	0.004	0.000
11:04:00 AM	0.1	0.004	0.000
11:05:00 AM	0.1	0.004	0.000
11:06:00 AM	0.1	0.004	0.000
11:07:00 AM	0.1	0.005	0.000
11:08:00 AM	0.1	0.005	0.000
11:09:00 AM	0.1	0.004	0.000
11:10:00 AM	0.1	0.005	0.000
11:11:00 AM	0.1	0.004	0.000
11:12:00 AM	0.1	0.004	0.000
11:13:00 AM	0.1	0.004	0.000
11:14:00 AM	0.1	0.004	0.000
11:15:00 AM	0.1	0.004	0.000
11:16:00 AM	0.0	0.004	0.000
11:17:00 AM	0.0	0.004	0.000
11:18:00 AM	0.0	0.004	0.000
11:19:00 AM	0.0	0.004	0.000
11:20:00 AM	0.0	0.004	0.000
11:21:00 AM	0.0	0.004	0.000
11:22:00 AM	0.0	0.004	0.000
11:23:00 AM	0.0	0.004	0.000
11:24:00 AM	0.0	0.004	0.000
11:25:00 AM	0.0	0.004	0.000
11:26:00 AM	0.0	0.004	0.000
11:27:00 AM	0.0	0.004	0.000
11:28:00 AM	0.0	0.004	0.000
11:29:00 AM	0.0	0.004	0.000
11:30:00 AM	0.0	0.004	0.000
11:31:00 AM	0.0	0.004	0.000
11:32:00 AM	0.0	0.004	0.000
11:33:00 AM	0.0	0.004	0.000
11:34:00 AM	0.0	0.004	0.000
11:35:00 AM	0.0	0.004	0.000
11:36:00 AM	0.0	0.004	0.000
11:37:00 AM	0.0	0.004	0.000
11:38:00 AM	0.0	0.004	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 24, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:39:00 AM	0.0	0.004	0.000
11:40:00 AM	0.0	0.004	0.000
11:41:00 AM	0.0	0.008	0.000
11:42:00 AM	0.0	0.004	0.000
11:43:00 AM	0.0	0.004	0.000
11:44:00 AM	0.0	0.005	0.000
11:45:00 AM	0.0	0.004	0.000
11:46:00 AM	0.0	0.004	0.000
11:47:00 AM	0.0	0.004	0.000
11:48:00 AM	0.0	0.004	0.000
11:49:00 AM	0.0	0.004	0.000
11:50:00 AM	0.0	0.004	0.000
11:51:00 AM	0.0	0.004	0.000
11:52:00 AM	0.0	0.004	0.000
11:53:00 AM	0.0	0.004	0.000
11:54:00 AM	0.0	0.004	0.000
11:55:00 AM	0.0	0.004	0.000
11:56:00 AM	0.0	0.005	0.000
11:57:00 AM	0.0	0.004	0.000
11:58:00 AM	0.0	0.004	0.000
11:59:00 AM	0.0	0.004	0.000
12:00:00 PM	0.0	0.004	0.000
12:01:00 PM	0.0	0.004	0.000
12:02:00 PM	0.0	0.004	0.000
12:03:00 PM	0.0	0.004	0.000
12:04:00 PM	0.0	0.004	0.000
12:05:00 PM	0.0	0.004	0.000
12:06:00 PM	0.0	0.004	0.000
12:07:00 PM	0.0	0.004	0.000
12:08:00 PM	0.0	0.004	0.000
12:09:00 PM	0.0	0.004	0.000
12:10:00 PM	0.0	0.005	0.000
12:11:00 PM	0.0	0.004	0.000
12:12:00 PM	0.0	0.004	0.000
12:13:00 PM	0.0	0.004	0.000
12:14:00 PM	0.0	0.004	0.000
12:15:00 PM	0.0	0.004	0.000
12:16:00 PM	0.0	0.004	0.000
12:17:00 PM	0.0	0.005	0.000
12:18:00 PM	0.0	0.005	0.000
12:19:00 PM	0.0	0.005	0.000
12:20:00 PM	0.0	0.005	0.000
12:21:00 PM	0.0	0.005	0.000
12:22:00 PM	0.0	0.005	0.000
12:23:00 PM	0.0	0.005	0.000
12:24:00 PM	0.0	0.005	0.000
12:25:00 PM	0.0	0.005	0.000
12:26:00 PM	0.0	0.005	0.000
12:27:00 PM	0.0	0.005	0.000
12:28:00 PM	0.0	0.005	0.000
12:29:00 PM	0.0	0.004	0.000
12:30:00 PM	0.0	0.004	0.000
12:31:00 PM	0.0	0.004	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 24, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:32:00 PM	0.0	0.004	0.000
12:33:00 PM	0.0	0.004	0.000
12:34:00 PM	0.0	0.004	0.000
12:35:00 PM	0.0	0.004	0.000
12:36:00 PM	0.0	0.005	0.000
12:37:00 PM	0.0	0.005	0.000
12:38:00 PM	0.0	0.005	0.000
12:39:00 PM	0.0	0.005	0.000
12:40:00 PM	0.0	0.005	0.000
12:41:00 PM	0.0	0.005	0.000
12:42:00 PM	0.0	0.005	0.000
12:43:00 PM	0.0	0.005	0.000
12:44:00 PM	0.0	0.004	0.000
12:45:00 PM	0.0	0.005	0.000
12:46:00 PM	0.0	0.004	0.000
12:47:00 PM	0.0	0.004	0.000
12:48:00 PM	0.0	0.005	0.000
12:49:00 PM	0.0	0.005	0.000
12:50:00 PM	0.0	0.005	0.000
12:51:00 PM	0.0	0.005	0.000
12:52:00 PM	0.0	0.005	0.000
12:53:00 PM	0.0	0.007	0.000
12:54:00 PM	0.0	0.005	0.000
12:55:00 PM	0.0	0.005	0.000
12:56:00 PM	0.0	0.005	0.000
12:57:00 PM	0.0	0.005	0.000
12:58:00 PM	0.0	0.004	0.000
12:59:00 PM	0.0	0.006	0.000
1:00:00 PM	0.0	0.005	0.000
1:01:00 PM	0.0	0.005	0.000
1:02:00 PM	0.0	0.005	0.000
1:03:00 PM	0.0	0.005	0.000
1:04:00 PM	0.0	0.005	0.000
1:05:00 PM	0.0	0.005	0.000
1:06:00 PM	0.0	0.005	0.000
1:07:00 PM	0.0	0.005	0.000
1:08:00 PM	0.0	0.005	0.000
1:09:00 PM	0.0	0.005	0.000
1:10:00 PM	0.0	0.005	0.000
1:11:00 PM	0.0	0.004	0.000
1:12:00 PM	0.0	0.005	0.000
1:13:00 PM	0.0	0.005	0.000
1:14:00 PM	0.0	0.005	0.000
1:15:00 PM	0.0	0.005	0.000
1:16:00 PM	0.0	0.005	0.000
1:17:00 PM	0.0	0.005	0.000
1:18:00 PM	0.0	0.005	0.000
1:19:00 PM	0.0	0.007	0.000
1:20:00 PM	0.0	0.006	0.000
1:21:00 PM	0.0	0.006	0.000
1:22:00 PM	0.0	0.006	0.000
1:23:00 PM	0.0	0.006	0.000
1:24:00 PM	0.0	0.005	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 24, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:25:00 PM	0.0	0.005	0.000
1:26:00 PM	0.0	0.006	0.000
1:27:00 PM	0.0	0.005	0.000
1:28:00 PM	0.0	0.007	0.000
1:29:00 PM	0.0	0.006	0.000
1:30:00 PM	0.0	0.006	0.000
1:31:00 PM	0.0	0.006	0.000
1:32:00 PM	0.0	0.005	0.000
1:33:00 PM	0.0	0.006	0.000
1:34:00 PM	0.0	0.005	0.000
1:35:00 PM	0.0	0.005	0.000
1:36:00 PM	0.0	0.006	0.000
1:37:00 PM	0.0	0.005	0.000
1:38:00 PM	0.0	0.005	0.000
1:39:00 PM	0.0	0.005	0.000
1:40:00 PM	0.0	0.007	0.000
1:41:00 PM	0.0	0.005	0.000
1:42:00 PM	0.0	0.006	0.000
1:43:00 PM	0.0	0.005	0.000
1:44:00 PM	0.0	0.005	0.000
1:45:00 PM	0.0	0.005	0.000
1:46:00 PM	0.0	0.005	0.000
1:47:00 PM	0.0	0.006	0.000
1:48:00 PM	0.0	0.005	0.000
1:49:00 PM	0.0	0.005	0.000
1:50:00 PM	0.0	0.005	0.000
1:51:00 PM	0.0	0.006	0.000
1:52:00 PM	0.0	0.005	0.000
1:53:00 PM	0.0	0.005	0.000
1:54:00 PM	0.0	0.005	0.000
1:55:00 PM	0.0	0.005	0.000
1:56:00 PM	0.0	0.006	0.000
1:57:00 PM	0.0	0.006	0.000
1:58:00 PM	0.0	0.005	0.000
1:59:00 PM	0.0	0.005	0.000
2:00:00 PM	0.0	0.006	0.000
2:01:00 PM	0.0	0.006	0.000
2:02:00 PM	0.0	0.006	0.000
2:03:00 PM	0.0	0.005	0.000
2:04:00 PM	0.0	0.005	0.000
2:05:00 PM	0.0	0.006	0.000
2:06:00 PM	0.0	0.005	0.000
2:07:00 PM	0.0	0.005	0.000
2:08:00 PM	0.0	0.005	0.000
2:09:00 PM	0.0	0.005	0.000
2:10:00 PM	0.0	0.005	0.000
2:11:00 PM	0.0	0.005	0.000
2:12:00 PM	0.0	0.005	0.000
2:13:00 PM	0.0	0.005	0.000
2:14:00 PM	0.0	0.006	0.000
2:15:00 PM	0.0	0.006	0.000
2:16:00 PM	0.0	0.005	0.000
2:17:00 PM	0.0	0.005	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

November 24, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
2:18:00 PM	0.0	0.005	0.000
2:19:00 PM	0.0	0.005	0.000
2:20:00 PM	0.0	0.006	0.000
2:21:00 PM	0.0	0.007	0.000
2:22:00 PM	0.0	0.006	0.000
2:23:00 PM	0.0	0.006	0.000
2:24:00 PM	0.0	0.005	0.000
2:25:00 PM	0.0	0.005	0.000
2:26:00 PM	0.0	0.007	0.000
2:27:00 PM	0.0	0.007	0.000
2:28:00 PM	0.0	0.006	0.000
2:29:00 PM	0.0	0.006	0.000
2:30:00 PM	0.0	0.005	0.000
2:31:00 PM	0.0	0.004	0.000
2:32:00 PM	0.0	0.005	0.000
2:33:00 PM	0.0	0.005	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 24, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
9:47:00 AM	0.0		0.002
9:48:00 AM	0.0	0.073	0.000
9:49:00 AM	0.0	0.011	0.000
9:50:00 AM	0.0	0.017	0.000
9:51:00 AM	0.0	0.010	0.000
9:52:00 AM	0.0	0.009	0.000
9:53:00 AM	0.0	0.009	0.000
9:54:00 AM	0.0	0.009	0.000
9:55:00 AM	0.0	0.010	0.000
9:56:00 AM	0.0	0.010	0.000
9:57:00 AM	0.0	0.009	0.000
9:58:00 AM	0.0	0.008	0.000
9:59:00 AM	0.0	0.008	0.000
10:00:00 AM	0.0	0.008	0.000
10:01:00 AM	0.0	0.007	0.000
10:02:00 AM	0.0	0.007	0.000
10:03:00 AM	0.0	0.007	0.000
10:04:00 AM	0.0	0.008	0.000
10:05:00 AM	0.0	0.008	0.000
10:06:00 AM	0.0	0.007	0.000
10:07:00 AM	0.0	0.011	0.000
10:08:00 AM	0.0	0.006	0.000
10:09:00 AM	0.0	0.006	0.000
10:10:00 AM	0.0	0.007	0.000
10:11:00 AM	0.0	0.008	0.000
10:12:00 AM	0.0	0.007	0.000
10:13:00 AM	0.0	0.008	0.000
10:14:00 AM	0.0	0.007	0.000
10:15:00 AM	0.0	0.006	0.000
10:16:00 AM	0.0	0.007	0.000
10:17:00 AM	0.0	0.006	0.000
10:18:00 AM	0.0	0.006	0.000
10:19:00 AM	0.0	0.006	0.000
10:20:00 AM	0.0	0.006	0.000
10:21:00 AM	0.0	0.007	0.000
10:22:00 AM	0.0	0.007	0.000
10:23:00 AM	0.0	0.007	0.000
10:24:00 AM	0.0	0.006	0.000
10:25:00 AM	0.0	0.005	0.000
10:26:00 AM	0.0	0.005	0.000
10:27:00 AM	0.0	0.005	0.000
10:28:00 AM	0.0	0.005	0.000
10:29:00 AM	0.0	0.005	0.000
10:30:00 AM	0.0	0.005	0.000
10:31:00 AM	0.1	0.005	0.000
10:32:00 AM	0.0	0.005	0.000
10:33:00 AM	0.0	0.006	0.000
10:34:00 AM	0.0	0.006	0.000
10:35:00 AM	0.0	0.005	0.000
10:36:00 AM	0.0	0.005	0.000
10:37:00 AM	0.0	0.005	0.000
10:38:00 AM	0.0	0.005	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 24, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:39:00 AM	0.0	0.005	0.000
10:40:00 AM	0.0	0.005	0.000
10:41:00 AM	0.0	0.005	0.000
10:42:00 AM	0.0	0.005	0.000
10:43:00 AM	0.0	0.005	0.000
10:44:00 AM	0.0	0.006	0.000
10:45:00 AM	0.0	0.007	0.000
10:46:00 AM	0.0	0.006	0.000
10:47:00 AM	0.0	0.006	0.000
10:48:00 AM	0.0	0.007	0.000
10:49:00 AM	0.0	0.006	0.000
10:50:00 AM	0.0	0.007	0.000
10:51:00 AM	0.0	0.006	0.000
10:52:00 AM	0.0	0.006	0.000
10:53:00 AM	0.0	0.005	0.000
10:54:00 AM	0.0	0.005	0.000
10:55:00 AM	0.0	0.005	0.000
10:56:00 AM	0.0	0.006	0.000
10:57:00 AM	0.0	0.005	0.000
10:58:00 AM	0.0	0.006	0.000
10:59:00 AM	0.0	0.007	0.000
11:00:00 AM	0.0	0.006	0.000
11:01:00 AM	0.0	0.007	0.000
11:02:00 AM	0.0	0.006	0.000
11:03:00 AM	0.0	0.006	0.000
11:04:00 AM	0.0	0.006	0.000
11:05:00 AM	0.0	0.007	0.000
11:06:00 AM	0.0	0.006	0.000
11:07:00 AM	0.0	0.006	0.000
11:08:00 AM	0.0	0.006	0.000
11:09:00 AM	0.0	0.006	0.000
11:10:00 AM	0.0	0.005	0.000
11:11:00 AM	0.0	0.005	0.000
11:12:00 AM	0.0	0.006	0.000
11:13:00 AM	0.0	0.005	0.000
11:14:00 AM	0.0	0.006	0.000
11:15:00 AM	0.0	0.005	0.000
11:16:00 AM	0.0	0.005	0.000
11:17:00 AM	0.0	0.005	0.000
11:18:00 AM	0.0	0.005	0.000
11:19:00 AM	0.1	0.005	0.000
11:20:00 AM	0.1	0.005	0.000
11:21:00 AM	0.1	0.006	0.000
11:22:00 AM	0.1	0.007	0.000
11:23:00 AM	0.1	0.006	0.000
11:24:00 AM	0.1	0.006	0.000
11:25:00 AM	0.1	0.006	0.000
11:26:00 AM	0.0	0.006	0.000
11:27:00 AM	0.1	0.005	0.000
11:28:00 AM	0.1	0.005	0.000
11:29:00 AM	0.1	0.006	0.000
11:30:00 AM	0.1	0.005	0.000
11:31:00 AM	0.1	0.005	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 24, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:32:00 AM	0.1	0.005	0.000
11:33:00 AM	0.1	0.005	0.000
11:34:00 AM	0.1	0.005	0.000
11:35:00 AM	0.1	0.004	0.000
11:36:00 AM	0.2	0.005	0.000
11:37:00 AM	0.2	0.005	0.000
11:38:00 AM	0.2	0.005	0.000
11:39:00 AM	0.7	0.005	0.000
11:40:00 AM	6.3	0.005	0.000
11:41:00 AM	1.1	0.005	0.000
11:42:00 AM	3.1	0.005	0.000
11:43:00 AM	0.7	0.005	0.000
11:44:00 AM	0.4	0.005	0.000
11:45:00 AM	0.3	0.005	0.000
11:46:00 AM	0.3	0.005	0.000
11:47:00 AM	0.3	0.004	0.000
11:48:00 AM	0.3	0.005	0.000
11:49:00 AM	0.3	0.005	0.000
11:50:00 AM	0.3	0.006	0.000
11:51:00 AM	0.2	0.006	0.000
11:52:00 AM	0.2	0.006	0.000
11:53:00 AM	0.3	0.006	0.000
11:54:00 AM	0.3	0.005	0.000
11:55:00 AM	0.3	0.005	0.000
11:56:00 AM	0.3	0.005	0.000
11:57:00 AM	0.2	0.005	0.000
11:58:00 AM	0.2	0.006	0.000
11:59:00 AM	0.3	0.005	0.000
12:00:00 PM	0.3	0.005	0.000
12:01:00 PM	0.3	0.005	0.000
12:02:00 PM	0.3	0.004	0.000
12:03:00 PM	0.3	0.004	0.000
12:04:00 PM	0.3	0.004	0.000
12:05:00 PM	0.4	0.004	0.000
12:06:00 PM	0.3	0.004	0.000
12:07:00 PM	0.3	0.004	0.000
12:08:00 PM	0.4	0.004	0.000
12:09:00 PM	0.4	0.004	0.000
12:10:00 PM	0.4	0.004	0.000
12:11:00 PM	0.4	0.004	0.000
12:12:00 PM	0.3	0.004	0.000
12:13:00 PM	0.4	0.004	0.000
12:14:00 PM	0.4	0.004	0.000
12:15:00 PM	0.3	0.004	0.000
12:16:00 PM	0.3	0.004	0.000
12:17:00 PM	0.4	0.005	0.000
12:18:00 PM	0.4	0.005	0.000
12:19:00 PM	0.4	0.005	0.000
12:20:00 PM	0.4	0.006	0.000
12:21:00 PM	0.4	0.006	0.000
12:22:00 PM	0.3	0.005	0.000
12:23:00 PM	0.4	0.006	0.000
12:24:00 PM	0.4	0.005	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 24, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:25:00 PM	0.3	0.005	0.000
12:26:00 PM	0.4	0.005	0.000
12:27:00 PM	0.4	0.005	0.000
12:28:00 PM	0.4	0.005	0.000
12:29:00 PM	0.4	0.005	0.000
12:30:00 PM	0.4	0.005	0.000
12:31:00 PM	0.4	0.004	0.000
12:32:00 PM	0.4	0.004	0.000
12:33:00 PM	0.4	0.004	0.000
12:34:00 PM	0.4	0.005	0.000
12:35:00 PM	0.5	0.005	0.000
12:36:00 PM	0.5	0.005	0.000
12:37:00 PM	0.4	0.004	0.000
12:38:00 PM	0.5	0.005	0.000
12:39:00 PM	0.4	0.005	0.000
12:40:00 PM	0.5	0.004	0.000
12:41:00 PM	0.5	0.004	0.000
12:42:00 PM	0.5	0.004	0.000
12:43:00 PM	0.5	0.004	0.000
12:44:00 PM	0.5	0.004	0.000
12:45:00 PM	0.5	0.004	0.000
12:46:00 PM	0.5	0.004	0.000
12:47:00 PM	0.5	0.004	0.000
12:48:00 PM	0.6	0.004	0.000
12:49:00 PM	0.5	0.004	0.000
12:50:00 PM	0.5	0.005	0.000
12:51:00 PM	0.5	0.005	0.000
12:52:00 PM	0.5	0.004	0.000
12:53:00 PM	0.5	0.004	0.000
12:54:00 PM	0.4	0.004	0.000
12:55:00 PM	0.4	0.004	0.000
12:56:00 PM	0.5	0.004	0.000
12:57:00 PM	0.5	0.004	0.000
12:58:00 PM	0.5	0.006	0.000
12:59:00 PM	0.5	0.006	0.000
1:00:00 PM	0.5	0.006	0.000
1:01:00 PM	0.6	0.006	0.000
1:02:00 PM	0.5	0.005	0.000
1:03:00 PM	0.6	0.005	0.000
1:04:00 PM	0.6	0.005	0.000
1:05:00 PM	0.5	0.005	0.000
1:06:00 PM	0.6	0.005	0.000
1:07:00 PM	0.7	0.004	0.000
1:08:00 PM	0.6	0.004	0.000
1:09:00 PM	0.6	0.005	0.000
1:10:00 PM	0.6	0.006	0.000
1:11:00 PM	0.6	0.006	0.000
1:12:00 PM	0.6	0.005	0.000
1:13:00 PM	0.6	0.006	0.000
1:14:00 PM	0.6	0.005	0.000
1:15:00 PM	0.7	0.006	0.000
1:16:00 PM	0.7	0.005	0.000
1:17:00 PM	0.6	0.005	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 24, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:18:00 PM	0.7	0.005	0.000
1:19:00 PM	0.9	0.006	0.000
1:20:00 PM	14.2	0.006	0.000
1:21:00 PM	2.6	0.006	0.000
1:22:00 PM	3.6	0.006	0.000
1:23:00 PM	1.7	0.005	0.000
1:24:00 PM	1.0	0.005	0.000
1:25:00 PM	0.9	0.005	0.000
1:26:00 PM		0.006	0.000
1:27:00 PM		0.005	0.000
1:28:00 PM		0.006	0.000
1:29:00 PM	0.0	0.006	0.000
1:30:00 PM	0.0	0.006	0.000
1:31:00 PM	0.0	0.007	0.000
1:32:00 PM	0.0	0.006	0.000
1:33:00 PM	0.0	0.006	0.000
1:34:00 PM	0.0	0.006	0.000
1:35:00 PM	0.0	0.006	0.000
1:36:00 PM	0.0	0.006	0.000
1:37:00 PM	0.0	0.005	0.000
1:38:00 PM	0.0	0.007	0.000
1:39:00 PM	0.0	0.006	0.000
1:40:00 PM	0.0	0.006	0.000
1:41:00 PM	0.0	0.006	0.000
1:42:00 PM	0.0	0.007	0.000
1:43:00 PM	0.0	0.006	0.000
1:44:00 PM	0.0	0.006	0.000
1:45:00 PM	0.0	0.006	0.000
1:46:00 PM	0.0	0.005	0.000
1:47:00 PM	0.0	0.005	0.000
1:48:00 PM	0.0	0.005	0.000
1:49:00 PM	0.0	0.005	0.000
1:50:00 PM	0.0	0.005	0.000
1:51:00 PM	0.0	0.005	0.000
1:52:00 PM	0.0	0.005	0.000
1:53:00 PM	0.0	0.005	0.000
1:54:00 PM	0.0	0.006	0.000
1:55:00 PM	0.0	0.006	0.000
1:56:00 PM	0.0	0.006	0.000
1:57:00 PM	0.0	0.005	0.000
1:58:00 PM	0.0	0.008	0.000
1:59:00 PM	0.0	0.008	0.000
2:00:00 PM	0.0	0.013	0.000
2:01:00 PM	0.0	0.008	0.000
2:02:00 PM	0.0	0.008	0.000
2:03:00 PM	0.0	0.006	0.000
2:04:00 PM	0.0	0.006	0.000
2:05:00 PM	0.0	0.007	0.000
2:06:00 PM	0.0	0.011	0.000
2:07:00 PM	0.0	0.005	0.000
2:08:00 PM	0.1	0.005	0.000
2:09:00 PM	0.0	0.013	0.000
2:10:00 PM	0.5	0.005	0.000

LIRR Group D Substations

Bayside Substation

Downwind

November 24, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
2:11:00 PM	0.2	0.006	0.000
2:12:00 PM	0.3	0.007	0.000
2:13:00 PM	0.0	0.006	0.000
2:14:00 PM	0.0	0.005	0.000
2:15:00 PM	0.0	0.005	0.000
2:16:00 PM	0.0	0.004	0.000
2:17:00 PM	0.0	0.004	0.000
2:18:00 PM	0.0	0.004	0.000
2:19:00 PM	0.0	0.004	0.000
2:20:00 PM	0.0	0.005	0.000
2:21:00 PM	0.0	0.004	0.000
2:22:00 PM	0.0	0.005	0.000
2:23:00 PM	0.0	0.004	0.000
2:24:00 PM	0.2	0.004	0.000
2:25:00 PM	0.1	0.005	0.000
2:26:00 PM	0.1	0.005	0.000
2:27:00 PM	0.0	0.005	0.000
2:28:00 PM	0.1	0.005	0.000
2:29:00 PM	0.0	0.005	0.000
2:30:00 PM	0.1	0.005	0.000
2:31:00 PM	0.0	0.004	0.000
2:32:00 PM	0.1	0.004	0.000
2:33:00 PM	0.1	0.004	0.000
2:34:00 PM	0.1	0.005	0.000
2:35:00 PM	0.1	0.005	0.000
2:36:00 PM	0.0	0.005	0.000
2:37:00 PM	0.0	0.006	0.000
2:38:00 PM	0.1	0.005	0.000

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain	X	Overcast		Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50		50-70	X	70-85		>85	

Project No.:		Winds From E ~22 mph	Date:	11/30/20
Project Name:	LIRR Group D Substation Remediation-Bayside Site-V00388-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. Aarco continues to excavate soils from the southern portion of area #3. Soil mechanics onsite to conduct compaction testing. All soils are excavated utilizing a soil guzzler truck. Water is pooling in the excavation due to heavy rainfall over the past few days. Due to pooled water backfilling will not be able to reach 95% compaction. All parties offsite at 11:30 due to compaction issue. Preferred did not conduct CAMP monitoring or documentation monitoring due to rainfall throughout the day.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/ m ³)	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/m ³)
UP Wind	No Camp Due to Rain/Non-Intrusive Work					
Down Wind						
Work Zone						

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- Backfill area #3, cut windows under substation slab for sample collection.

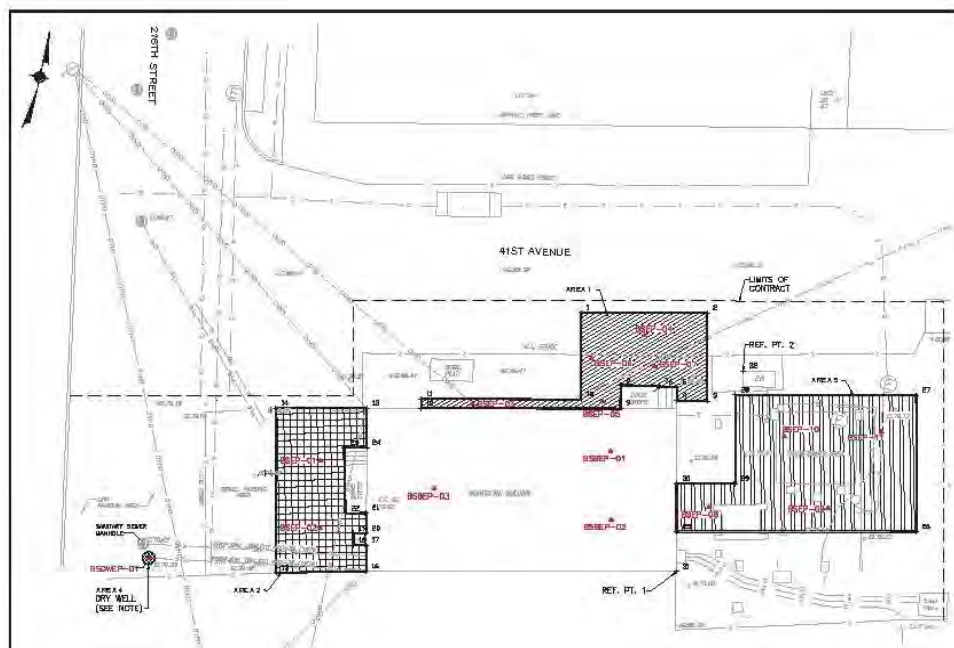


Aarco removing soils from the southern portion of area #3.



Aarco utilized guzzler truck to remove all soils.

Monitoring Locations



DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From SW ~ 12 mph	Date:	12/1/20
Project Name:	LIRR Group D Substation Remediation-Bayside Site-V00388-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. Aarco continued and finished excavating area #3 utilizing the soil guzzler truck and manually digging methods. The excavated area was backfilled with sand in ten (10) inch lifts and compacted utilizing a gas-powered compactor and a manually operated compactor when in close proximity to conduits. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site as well as two high risk workers were sampled and submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/ m ³)	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/m ³)
UP Wind	0.1	0.007	0.000	0.2	0.013	0.000
Down Wind	0.5	0.007	0.000	1.0	0.018	0.000
Work Zone	0.0	0.006	0.000	0.0	0.009	0.000

Exceedances (Since Last Report): None

Problems Encountered: PID on upwind monitor not recording data due to equipment error untilp 10:38.

Planned Activities for the Next Day/ Week:

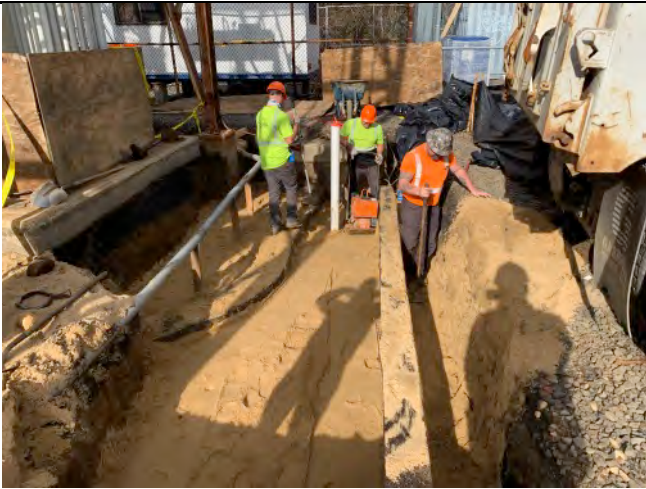
- We load out two trucks for transport to Clean Earth Carteret, remove sediment and install bulkhead in area #4 and collect sub-slab samples within the substation.



View of work zone camp monitor.



Aarco utilizing the guzzler truck to excavate all soils.

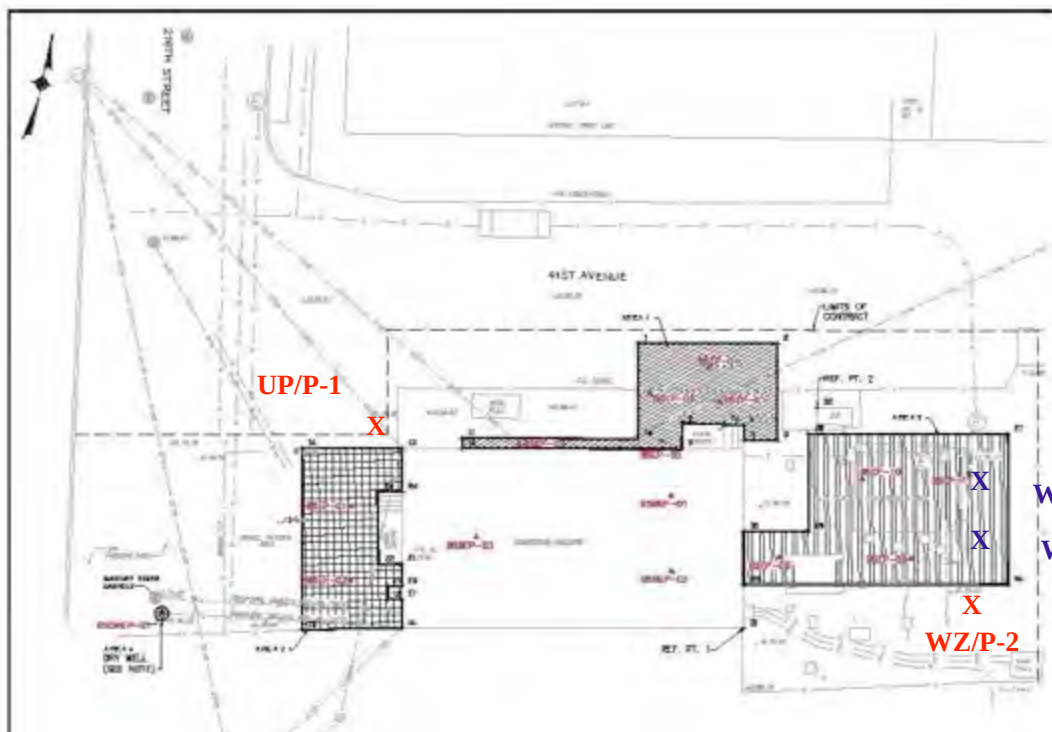


Aarco compacting backfill.



Soil Mechanics performing compaction testing.

Monitoring Locations



X
DW/P-3

LIRR Group D Substations

Bayside Substation

Upwind

December 1, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
9:43:00 AM		0.0	0.000
9:44:00 AM		0.013	0.000
9:45:00 AM		0.013	0.000
9:46:00 AM		0.012	0.000
9:47:00 AM		0.012	0.000
9:48:00 AM		0.012	0.000
9:49:00 AM		0.012	0.000
9:50:00 AM		0.012	0.000
9:51:00 AM		0.012	0.000
9:52:00 AM		0.013	0.000
9:53:00 AM		0.012	0.000
9:54:00 AM		0.011	0.000
9:55:00 AM		0.011	0.000
9:56:00 AM		0.011	0.000
9:57:00 AM		0.012	0.000
9:58:00 AM		0.011	0.000
9:59:00 AM		0.012	0.000
10:00:00 AM		0.012	0.000
10:01:00 AM		0.011	0.000
10:02:00 AM		0.011	0.000
10:03:00 AM		0.012	0.000
10:04:00 AM		0.012	0.000
10:05:00 AM		0.012	0.000
10:06:00 AM		0.012	0.000
10:07:00 AM		0.012	0.000
10:08:00 AM		0.012	0.000
10:09:00 AM		0.012	0.000
10:10:00 AM		0.012	0.000
10:11:00 AM		0.012	0.000
10:12:00 AM		0.013	0.000
10:13:00 AM		0.013	0.000
10:14:00 AM		0.013	0.000
10:15:00 AM		0.014	0.000
10:16:00 AM		0.014	0.000
10:17:00 AM		0.013	0.000
10:18:00 AM		0.013	0.000
10:19:00 AM		0.012	0.000
10:20:00 AM		0.012	0.000
10:21:00 AM		0.010	0.000
10:22:00 AM		0.009	0.000
10:23:00 AM		0.008	0.000
10:24:00 AM		0.008	0.000
10:25:00 AM		0.008	0.000
10:26:00 AM		0.007	0.000
10:27:00 AM		0.008	0.000
10:28:00 AM		0.008	0.000
10:29:00 AM		0.008	0.000
10:30:00 AM		0.008	0.000
10:31:00 AM		0.009	0.000
10:32:00 AM		0.008	0.000
10:33:00 AM		0.009	0.000
10:34:00 AM		0.008	0.000

LIRR Group D Substations

Bayside Substation

Upwind

December 1, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:35:00 AM		0.009	0.000
10:36:00 AM		0.008	0.000
10:37:00 AM		0.006	0.000
10:38:00 AM		0.007	0.000
10:39:00 AM		0.007	0.000
10:40:00 AM		0.008	0.000
10:41:00 AM		0.008	0.000
10:42:00 AM		0.009	0.000
10:43:00 AM	0.1	0.008	0.000
10:44:00 AM	0.1	0.008	0.000
10:45:00 AM	0.1	0.007	0.000
10:46:00 AM	0.1	0.007	0.000
10:47:00 AM	0.1	0.007	0.000
10:48:00 AM	0.1	0.007	0.000
10:49:00 AM	0.1	0.006	0.000
10:50:00 AM	0.1	0.006	0.000
10:51:00 AM	0.1	0.008	0.000
10:52:00 AM	0.1	0.006	0.000
10:53:00 AM	0.1	0.006	0.000
10:54:00 AM	0.1	0.006	0.000
10:55:00 AM	0.1	0.006	0.000
10:56:00 AM	0.1	0.006	0.000
10:57:00 AM	0.1	0.006	0.000
10:58:00 AM	0.1	0.006	0.000
10:59:00 AM	0.1	0.006	0.000
11:00:00 AM	0.1	0.006	0.000
11:01:00 AM	0.1	0.007	0.000
11:02:00 AM	0.1	0.006	0.000
11:03:00 AM	0.1	0.006	0.000
11:04:00 AM	0.1	0.006	0.000
11:05:00 AM	0.1	0.006	0.000
11:06:00 AM	0.1	0.007	0.000
11:07:00 AM	0.1	0.006	0.000
11:08:00 AM	0.1	0.007	0.000
11:09:00 AM	0.1	0.006	0.000
11:10:00 AM	0.1	0.006	0.000
11:11:00 AM	0.1	0.006	0.000
11:12:00 AM	0.1	0.006	0.000
11:13:00 AM	0.1	0.006	0.000
11:14:00 AM	0.1	0.006	0.000
11:15:00 AM	0.1	0.006	0.000
11:16:00 AM	0.1	0.006	0.000
11:17:00 AM	0.1	0.006	0.000
11:18:00 AM	0.1	0.006	0.000
11:19:00 AM	0.1	0.006	0.000
11:20:00 AM	0.1	0.006	0.000
11:21:00 AM	0.1	0.005	0.000
11:22:00 AM	0.1	0.006	0.000
11:23:00 AM	0.1	0.006	0.000
11:24:00 AM	0.1	0.006	0.000
11:25:00 AM	0.1	0.005	0.000
11:26:00 AM	0.1	0.006	0.000
11:27:00 AM	0.1	0.007	0.000

LIRR Group D Substations

Bayside Substation

Upwind

December 1, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:28:00 AM	0.1	0.006	0.000
11:29:00 AM	0.1	0.005	0.000
11:30:00 AM	0.1	0.005	0.000
11:31:00 AM	0.1	0.005	0.000
11:32:00 AM	0.1	0.005	0.000
11:33:00 AM	0.1	0.006	0.000
11:34:00 AM	0.1	0.006	0.000
11:35:00 AM	0.1	0.007	0.000
11:36:00 AM	0.1	0.006	0.000
11:37:00 AM	0.1	0.005	0.000
11:38:00 AM	0.1	0.006	0.000
11:39:00 AM	0.1	0.006	0.000
11:40:00 AM	0.1	0.006	0.000
11:41:00 AM	0.1	0.006	0.000
11:42:00 AM	0.1	0.005	0.000
11:43:00 AM	0.1	0.005	0.000
11:44:00 AM	0.2	0.005	0.000
11:45:00 AM	0.1	0.005	0.000
11:46:00 AM	0.1	0.005	0.000
11:47:00 AM	0.1	0.005	0.000
11:48:00 AM	0.1	0.005	0.000
11:49:00 AM	0.1	0.005	0.000
11:50:00 AM	0.1	0.005	0.000
11:51:00 AM	0.1	0.006	0.000
11:52:00 AM	0.1	0.005	0.000
11:53:00 AM	0.1	0.006	0.000
11:54:00 AM	0.1	0.006	0.000
11:55:00 AM	0.1	0.006	0.000
11:56:00 AM	0.1	0.005	0.000
11:57:00 AM	0.1	0.005	0.000
11:58:00 AM	0.1	0.005	0.000
11:59:00 AM	0.1	0.005	0.000
12:00:00 PM	0.1	0.005	0.000
12:01:00 PM	0.1	0.005	0.000
12:02:00 PM	0.1	0.006	0.000
12:03:00 PM	0.1	0.006	0.000
12:04:00 PM	0.1	0.007	0.000
12:05:00 PM	0.1	0.006	0.000
12:06:00 PM	0.1	0.005	0.000
12:07:00 PM	0.1	0.005	0.000
12:08:00 PM	0.1	0.005	0.000
12:09:00 PM	0.1	0.004	0.000
12:10:00 PM	0.1	0.005	0.000
12:11:00 PM	0.1	0.006	0.000
12:12:00 PM	0.1	0.005	0.000
12:13:00 PM	0.1	0.005	0.000
12:14:00 PM	0.1	0.006	0.000
12:15:00 PM	0.1	0.005	0.000
12:16:00 PM	0.1	0.005	0.000
12:17:00 PM	0.1	0.007	0.000
12:18:00 PM	0.1	0.006	0.000
12:19:00 PM	0.1	0.005	0.000
12:20:00 PM	0.1	0.008	0.000

LIRR Group D Substations

Bayside Substation

Upwind

December 1, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:21:00 PM	0.1	0.006	0.000
12:22:00 PM	0.1	0.006	0.000
12:23:00 PM	0.1	0.007	0.000
12:24:00 PM	0.1	0.006	0.000
12:25:00 PM	0.1	0.006	0.000
12:26:00 PM	0.1	0.006	0.000
12:27:00 PM	0.1	0.005	0.000
12:28:00 PM	0.1	0.005	0.000
12:29:00 PM	0.1	0.005	0.000
12:30:00 PM	0.1	0.006	0.000
12:31:00 PM	0.1	0.006	0.000
12:32:00 PM	0.1	0.005	0.000
12:33:00 PM	0.1	0.006	0.000
12:34:00 PM	0.1	0.006	0.000
12:35:00 PM	0.1	0.006	0.000
12:36:00 PM	0.1	0.006	0.000
12:37:00 PM	0.2	0.005	0.000
12:38:00 PM	0.1	0.006	0.000
12:39:00 PM	0.1	0.006	0.000
12:40:00 PM	0.1	0.005	0.000
12:41:00 PM	0.1	0.006	0.000
12:42:00 PM	0.1	0.006	0.000
12:43:00 PM	0.1	0.006	0.000
12:44:00 PM	0.1	0.005	0.000
12:45:00 PM	0.1	0.005	0.000
12:46:00 PM	0.1	0.006	0.000
12:47:00 PM	0.1	0.005	0.000
12:48:00 PM	0.1	0.005	0.000
12:49:00 PM	0.1	0.005	0.000
12:50:00 PM	0.1	0.005	0.000
12:51:00 PM	0.1	0.005	0.000
12:52:00 PM	0.1	0.006	0.000
12:53:00 PM	0.1	0.005	0.000
12:54:00 PM	0.1	0.006	0.000
12:55:00 PM	0.1	0.005	0.000
12:56:00 PM	0.1	0.005	0.000
12:57:00 PM	0.1	0.005	0.000
12:58:00 PM	0.1	0.005	0.000
12:59:00 PM	0.1	0.005	0.000
1:00:00 PM	0.1	0.005	0.000
1:01:00 PM	0.1	0.006	0.000
1:02:00 PM	0.1	0.006	0.000
1:03:00 PM	0.1	0.005	0.000
1:04:00 PM	0.1	0.006	0.000
1:05:00 PM	0.1	0.006	0.000
1:06:00 PM	0.1	0.007	0.000
1:07:00 PM	0.1	0.006	0.000
1:08:00 PM	0.1	0.006	0.000
1:09:00 PM	0.1	0.005	0.000
1:10:00 PM	0.1	0.006	0.000
1:11:00 PM	0.1	0.006	0.000
1:12:00 PM	0.1	0.006	0.000
1:13:00 PM	0.1	0.006	0.000

LIRR Group D Substations

Bayside Substation

Upwind

December 1, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:14:00 PM	0.2	0.006	0.000
1:15:00 PM	0.2	0.006	0.000
1:16:00 PM	0.1	0.005	0.000
1:17:00 PM	0.2	0.005	0.000
1:18:00 PM	0.2	0.006	0.000
1:19:00 PM	0.2	0.006	0.000
1:20:00 PM	0.1	0.006	0.000
1:21:00 PM	0.1	0.006	0.000
1:22:00 PM	0.1	0.006	0.000
1:23:00 PM	0.1	0.006	0.000
1:24:00 PM	0.1	0.006	0.000
1:25:00 PM	0.1	0.005	0.000
1:26:00 PM	0.2	0.006	0.000
1:27:00 PM	0.2	0.006	0.000
1:28:00 PM	0.2	0.006	0.000
1:29:00 PM	0.2	0.006	0.000
1:30:00 PM	0.2	0.007	0.000
1:31:00 PM	0.1	0.007	0.000
1:32:00 PM	0.1	0.006	0.000
1:33:00 PM	0.2	0.006	0.000
1:34:00 PM	0.2	0.006	0.000
1:35:00 PM	0.2	0.006	0.000
1:36:00 PM	0.2	0.006	0.000
1:37:00 PM	0.2	0.006	0.000
1:38:00 PM	0.2	0.006	0.000
1:39:00 PM	0.2	0.007	0.000
1:40:00 PM	0.2	0.008	0.000
1:41:00 PM	0.2	0.007	0.000
1:42:00 PM	0.2	0.006	0.000
1:43:00 PM	0.2	0.006	0.000
1:44:00 PM	0.2	0.006	0.000
1:45:00 PM	0.2	0.006	0.000
1:46:00 PM	0.2	0.006	0.000
1:47:00 PM	0.2	0.006	0.000
1:48:00 PM	0.2	0.006	0.000
1:49:00 PM	0.2	0.006	0.000
1:50:00 PM	0.2	0.007	0.000
1:51:00 PM	0.2	0.006	0.000
1:52:00 PM	0.2	0.007	0.000
1:53:00 PM	0.2	0.007	0.000
1:54:00 PM	0.2	0.007	0.000
1:55:00 PM	0.2	0.007	0.000
1:56:00 PM	0.2	0.007	0.000
1:57:00 PM	0.2	0.007	0.000
1:58:00 PM	0.2	0.007	0.000
1:59:00 PM	0.2	0.007	0.000
2:00:00 PM	0.2	0.007	0.000
2:01:00 PM	0.2	0.007	0.000
2:02:00 PM	0.2	0.008	0.000
2:03:00 PM	0.2	0.008	0.000
2:04:00 PM	0.2	0.008	0.000
2:05:00 PM	0.2	0.008	0.000
2:06:00 PM	0.2	0.009	0.000

LIRR Group D Substations
Bayside Substation
Upwind
December 1, 2020

[illegible]

LIRR Group D Substations

Bayside Substation

Work Zone

December 1, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:21:00 AM	0.0	0.029	0.000
10:22:00 AM	0.0	0.011	0.000
10:23:00 AM	0.0	0.009	0.000
10:24:00 AM	0.0	0.009	0.000
10:25:00 AM	0.0	0.008	0.000
10:26:00 AM	0.0	0.008	0.000
10:27:00 AM	0.0	0.008	0.000
10:28:00 AM	0.0	0.008	0.000
10:29:00 AM	0.0	0.009	0.000
10:30:00 AM	0.0	0.009	0.000
10:31:00 AM	0.0	0.008	0.000
10:32:00 AM	0.0	0.009	0.000
10:33:00 AM	0.0	0.009	0.000
10:34:00 AM	0.0	0.010	0.000
10:35:00 AM	0.0	0.010	0.000
10:36:00 AM	0.0	0.010	0.000
10:37:00 AM	0.0	0.008	0.000
10:38:00 AM	0.0	0.008	0.000
10:39:00 AM	0.0	0.008	0.000
10:40:00 AM	0.0	0.008	0.000
10:41:00 AM	0.0	0.008	0.000
10:42:00 AM	0.0	0.008	0.000
10:43:00 AM	0.0	0.008	0.000
10:45:00 AM	0.0		0.000
10:47:00 AM	0.0	0.008	0.000
10:48:00 AM	0.0	0.008	0.000
10:49:00 AM	0.0	0.008	0.000
10:50:00 AM	0.0	0.008	0.000
10:51:00 AM	0.0	0.008	0.000
10:52:00 AM	0.0	0.007	0.000
10:53:00 AM	0.0	0.007	0.000
10:54:00 AM	0.0	0.007	0.000
10:55:00 AM	0.0	0.006	0.000
10:56:00 AM	0.0	0.006	0.000
10:57:00 AM	0.0	0.006	0.000
10:58:00 AM	0.0	0.006	0.000
10:59:00 AM	0.0	0.007	0.000
11:00:00 AM	0.0	0.007	0.000
11:01:00 AM	0.0	0.007	0.000
11:02:00 AM	0.0	0.007	0.000
11:03:00 AM	0.0	0.007	0.000
11:04:00 AM	0.0	0.007	0.000
11:05:00 AM	0.0	0.007	0.000
11:06:00 AM	0.0	0.006	0.000
11:07:00 AM	0.0	0.007	0.000
11:08:00 AM	0.0	0.006	0.000
11:09:00 AM	0.0	0.006	0.000
11:10:00 AM	0.0	0.006	0.000
11:11:00 AM	0.0	0.006	0.000
11:12:00 AM	0.0	0.006	0.000
11:13:00 AM	0.0	0.006	0.000
11:14:00 AM	0.0	0.006	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

December 1, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:15:00 AM	0.0	0.006	0.000
11:16:00 AM	0.0	0.006	0.000
11:17:00 AM	0.0	0.006	0.000
11:18:00 AM	0.0	0.006	0.000
11:19:00 AM	0.0	0.006	0.000
11:20:00 AM	0.0	0.006	0.000
11:21:00 AM	0.0	0.006	0.000
11:22:00 AM	0.0	0.006	0.000
11:23:00 AM	0.0	0.006	0.000
11:24:00 AM	0.0	0.006	0.000
11:25:00 AM	0.0	0.006	0.000
11:26:00 AM	0.0	0.007	0.000
11:27:00 AM	0.0	0.007	0.000
11:28:00 AM	0.0	0.006	0.000
11:29:00 AM	0.0	0.005	0.000
11:30:00 AM	0.0	0.005	0.000
11:31:00 AM	0.0	0.005	0.000
11:32:00 AM	0.0	0.006	0.000
11:33:00 AM	0.0	0.006	0.000
11:34:00 AM	0.0	0.006	0.000
11:35:00 AM	0.0	0.006	0.000
11:36:00 AM	0.0	0.006	0.000
11:37:00 AM	0.0	0.006	0.000
11:38:00 AM	0.0	0.005	0.000
11:39:00 AM	0.0	0.006	0.000
11:40:00 AM	0.0	0.006	0.000
11:41:00 AM	0.0	0.006	0.000
11:42:00 AM	0.0	0.006	0.000
11:43:00 AM	0.0	0.005	0.000
11:44:00 AM	0.0	0.026	0.000
11:45:00 AM	0.0	0.016	0.000
11:46:00 AM	0.0	0.005	0.000
11:47:00 AM	0.0	0.006	0.000
11:48:00 AM	0.0	0.005	0.000
11:49:00 AM	0.0	0.006	0.000
11:50:00 AM	0.0	0.006	0.000
11:51:00 AM	0.0	0.006	0.000
11:52:00 AM	0.0	0.005	0.000
11:53:00 AM	0.0	0.005	0.000
11:54:00 AM	0.0	0.006	0.000
11:55:00 AM	0.0	0.006	0.000
11:56:00 AM	0.0	0.006	0.000
11:57:00 AM	0.0	0.005	0.000
11:58:00 AM	0.0	0.005	0.000
11:59:00 AM	0.0	0.005	0.000
12:00:00 PM	0.0	0.005	0.000
12:01:00 PM	0.0	0.006	0.000
12:02:00 PM	0.0	0.005	0.000
12:03:00 PM	0.0	0.006	0.000
12:04:00 PM	0.0	0.005	0.000
12:05:00 PM	0.0	0.005	0.000
12:06:00 PM	0.0	0.004	0.000
12:07:00 PM	0.0	0.005	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

December 1, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:08:00 PM	0.0	0.004	0.000
12:09:00 PM	0.0	0.004	0.000
12:10:00 PM	0.0	0.004	0.000
12:11:00 PM	0.0	0.005	0.000
12:12:00 PM	0.0	0.005	0.000
12:13:00 PM	0.0	0.006	0.000
12:14:00 PM	0.0	0.004	0.000
12:15:00 PM	0.0	0.004	0.000
12:16:00 PM	0.0	0.004	0.000
12:17:00 PM	0.0	0.004	0.000
12:18:00 PM	0.0	0.005	0.000
12:19:00 PM	0.0	0.005	0.000
12:20:00 PM	0.0	0.006	0.000
12:21:00 PM	0.0	0.005	0.000
12:22:00 PM	0.0	0.005	0.000
12:23:00 PM	0.0	0.006	0.000
12:24:00 PM	0.0	0.005	0.000
12:25:00 PM	0.0	0.005	0.000
12:26:00 PM	0.0	0.005	0.000
12:27:00 PM	0.0	0.005	0.000
12:28:00 PM	0.0	0.005	0.000
12:29:00 PM	0.0	0.005	0.000
12:30:00 PM	0.0	0.005	0.000
12:31:00 PM	0.0	0.005	0.000
12:32:00 PM	0.0	0.005	0.000
12:33:00 PM	0.0	0.005	0.000
12:34:00 PM	0.0	0.005	0.000
12:35:00 PM	0.0	0.005	0.000
12:36:00 PM	0.0	0.005	0.000
12:37:00 PM	0.0	0.005	0.000
12:38:00 PM	0.0	0.005	0.000
12:39:00 PM	0.0	0.005	0.000
12:40:00 PM	0.0	0.006	0.000
12:41:00 PM	0.0	0.006	0.000
12:42:00 PM	0.0	0.005	0.000
12:43:00 PM	0.0	0.005	0.000
12:44:00 PM	0.0	0.005	0.000
12:45:00 PM	0.0	0.005	0.000
12:46:00 PM	0.0	0.005	0.000
12:47:00 PM	0.0	0.005	0.000
12:48:00 PM	0.0	0.005	0.000
12:49:00 PM	0.0	0.005	0.000
12:50:00 PM	0.0	0.004	0.000
12:51:00 PM	0.0	0.004	0.000
12:52:00 PM	0.0	0.005	0.000
12:53:00 PM	0.0	0.005	0.000
12:54:00 PM	0.0	0.004	0.000
12:55:00 PM	0.0	0.004	0.000
12:56:00 PM	0.0	0.004	0.000
12:57:00 PM	0.0	0.004	0.000
12:58:00 PM	0.0	0.004	0.000
12:59:00 PM	0.0	0.005	0.000
1:00:00 PM	0.0	0.005	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

December 1, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:01:00 PM	0.0	0.006	0.000
1:02:00 PM	0.0	0.005	0.000
1:03:00 PM	0.0	0.005	0.000
1:04:00 PM	0.0	0.005	0.000
1:05:00 PM	0.0	0.005	0.000
1:06:00 PM	0.0	0.006	0.000
1:07:00 PM	0.0	0.006	0.000
1:08:00 PM	0.0	0.006	0.000
1:09:00 PM	0.0	0.005	0.000
1:10:00 PM	0.0	0.006	0.000
1:11:00 PM	0.0	0.006	0.000
1:12:00 PM	0.0	0.006	0.000
1:13:00 PM	0.0	0.005	0.000
1:14:00 PM	0.0	0.005	0.000
1:15:00 PM	0.0	0.005	0.000
1:16:00 PM	0.0	0.005	0.000
1:17:00 PM	0.0	0.006	0.000
1:18:00 PM	0.0	0.005	0.000
1:19:00 PM	0.0	0.006	0.000
1:20:00 PM	0.0	0.006	0.000
1:21:00 PM	0.0	0.006	0.000
1:22:00 PM	0.0	0.006	0.000
1:23:00 PM	0.0	0.007	0.000
1:24:00 PM	0.0	0.005	0.000
1:25:00 PM	0.0	0.005	0.000
1:26:00 PM	0.0	0.005	0.000
1:27:00 PM	0.0	0.005	0.000
1:28:00 PM	0.0	0.005	0.000
1:29:00 PM	0.0	0.006	0.000
1:30:00 PM	0.0	0.005	0.000
1:31:00 PM	0.0	0.006	0.000
1:32:00 PM	0.0	0.005	0.000
1:33:00 PM	0.0	0.005	0.000
1:34:00 PM	0.0	0.005	0.000
1:35:00 PM	0.0	0.005	0.000
1:36:00 PM	0.0	0.006	0.000
1:37:00 PM	0.0	0.005	0.000
1:38:00 PM	0.0	0.005	0.000
1:39:00 PM	0.0	0.007	0.000
1:40:00 PM	0.0	0.008	0.000
1:41:00 PM	0.0	0.008	0.000
1:42:00 PM	0.0	0.006	0.000
1:43:00 PM	0.0	0.007	0.000
1:44:00 PM	0.0	0.006	0.000
1:45:00 PM	0.0	0.006	0.000
1:46:00 PM	0.0	0.006	0.000
1:47:00 PM	0.0	0.006	0.000
1:48:00 PM	0.0	0.006	0.000
1:49:00 PM	0.0	0.006	0.000
1:50:00 PM	0.0	0.006	0.000
1:51:00 PM	0.0	0.006	0.000
1:52:00 PM	0.0	0.006	0.000
1:53:00 PM	0.0	0.007	0.000

LIRR Group D Substations
Bayside Substation
Work Zone
December 1, 2020

[illegible]

LIRR Group D Substations

Bayside Substation

Downwind

December 1, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:12:00 AM	0.0	0.033	0.000
10:13:00 AM	0.0	0.021	0.000
10:14:00 AM	0.0	0.019	0.000
10:15:00 AM	0.0	0.022	0.000
10:16:00 AM	0.0	0.019	0.000
10:17:00 AM	0.0	0.017	0.000
10:18:00 AM	0.0	0.048	0.000
10:19:00 AM	0.0	0.019	0.000
10:20:00 AM	0.0	0.017	0.000
10:21:00 AM	0.0	0.015	0.000
10:22:00 AM	0.0	0.011	0.000
10:23:00 AM	0.0	0.012	0.000
10:24:00 AM	0.0	0.014	0.000
10:25:00 AM	0.0	0.012	0.000
10:26:00 AM	0.0	0.013	0.000
10:27:00 AM	0.0	0.012	0.000
10:28:00 AM	0.0	0.010	0.000
10:29:00 AM	0.0	0.013	0.000
10:30:00 AM	0.0	0.019	0.000
10:31:00 AM	0.0	0.012	0.000
10:32:00 AM	0.0	0.022	0.000
10:33:00 AM	0.0	0.011	0.000
10:34:00 AM	0.0	0.013	0.000
10:35:00 AM	0.0	0.013	0.000
10:36:00 AM	0.0	0.019	0.000
10:37:00 AM	0.0	0.010	0.000
10:38:00 AM	0.0	0.015	0.000
10:39:00 AM	0.0	0.019	0.000
10:40:00 AM	0.0	0.008	0.000
10:41:00 AM	0.0	0.017	0.000
10:42:00 AM	0.0	0.011	0.000
10:43:00 AM	0.0	0.017	0.000
10:44:00 AM	0.0	0.012	0.000
10:45:00 AM	0.0	0.014	0.000
10:46:00 AM	0.0	0.012	0.000
10:47:00 AM	0.0	0.011	0.000
10:48:00 AM	0.0	0.010	0.000
10:49:00 AM	0.0	0.022	0.000
10:50:00 AM	0.0	0.018	0.000
10:51:00 AM	0.0	0.012	0.000
10:52:00 AM	0.0	0.017	0.000
10:53:00 AM	0.0	0.014	0.000
10:54:00 AM	0.0	0.011	0.000
10:55:00 AM	0.0	0.009	0.000
10:56:00 AM	0.0	0.006	0.000
10:57:00 AM	0.0	0.008	0.000
10:58:00 AM	0.0	0.008	0.000
10:59:00 AM	0.0	0.011	0.000
11:00:00 AM	0.0	0.008	0.000
11:01:00 AM	0.0	0.007	0.000
11:02:00 AM	0.0	0.006	0.000
11:03:00 AM	0.0	0.006	0.000

LIRR Group D Substations

Bayside Substation

Downwind

December 1, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:04:00 AM	0.1	0.006	0.000
11:05:00 AM	0.0	0.007	0.000
11:06:00 AM	0.0	0.005	0.000
11:07:00 AM	0.4	0.005	0.000
11:08:00 AM	0.4	0.005	0.000
11:09:00 AM	0.0	0.005	0.000
11:10:00 AM	0.0	0.005	0.000
11:11:00 AM	0.0	0.005	0.000
11:12:00 AM	0.0	0.005	0.000
11:13:00 AM	0.0	0.005	0.000
11:14:00 AM	0.0	0.005	0.000
11:15:00 AM	0.1	0.005	0.000
11:16:00 AM	0.1	0.005	0.000
11:17:00 AM	0.1	0.005	0.000
11:18:00 AM	0.1	0.006	0.000
11:19:00 AM	0.1	0.006	0.000
11:20:00 AM	0.1	0.006	0.000
11:21:00 AM	3.9	0.005	0.000
11:22:00 AM	0.2	0.006	0.000
11:23:00 AM	0.2	0.005	0.000
11:24:00 AM	0.2	0.005	0.000
11:25:00 AM	0.2	0.005	0.000
11:26:00 AM	0.2	0.007	0.000
11:27:00 AM	0.2	0.007	0.000
11:28:00 AM	0.2	0.006	0.000
11:29:00 AM	0.2	0.006	0.000
11:30:00 AM	0.2	0.005	0.000
11:31:00 AM	0.2	0.006	0.000
11:32:00 AM	0.2	0.005	0.000
11:33:00 AM	0.2	0.006	0.000
11:34:00 AM	0.3	0.006	0.000
11:35:00 AM	0.2	0.006	0.000
11:36:00 AM	0.3	0.006	0.000
11:37:00 AM	0.3	0.006	0.000
11:38:00 AM	0.3	0.005	0.000
11:39:00 AM	0.3	0.006	0.000
11:40:00 AM	0.2	0.005	0.000
11:41:00 AM	0.2	0.005	0.000
11:42:00 AM	0.3	0.005	0.000
11:43:00 AM	0.3	0.004	0.000
11:44:00 AM	0.3	0.005	0.000
11:45:00 AM	0.3	0.005	0.000
11:46:00 AM	0.4	0.005	0.000
11:47:00 AM	0.3	0.005	0.000
11:48:00 AM	0.3	0.005	0.000
11:49:00 AM	0.3	0.005	0.000
11:50:00 AM	0.4	0.005	0.000
11:51:00 AM	0.4	0.006	0.000
11:52:00 AM	0.4	0.004	0.000
11:53:00 AM	0.4	0.004	0.000
11:54:00 AM	0.4	0.005	0.000
11:55:00 AM	0.4	0.004	0.000
11:56:00 AM	0.4	0.005	0.000

LIRR Group D Substations

Bayside Substation

Downwind

December 1, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:57:00 AM	0.4	0.004	0.000
11:58:00 AM	0.4	0.004	0.000
11:59:00 AM	0.4	0.004	0.000
12:00:00 PM	0.4	0.003	0.000
12:01:00 PM	0.8	0.007	0.000
12:02:00 PM	0.6	0.006	0.000
12:03:00 PM	0.5	0.005	0.000
12:04:00 PM	0.4	0.004	0.000
12:05:00 PM	0.4	0.004	0.000
12:06:00 PM	0.5	0.003	0.000
12:07:00 PM	0.5	0.003	0.000
12:08:00 PM	0.5	0.003	0.000
12:09:00 PM	0.5	0.003	0.000
12:10:00 PM	0.5	0.004	0.000
12:11:00 PM	0.6	0.006	0.000
12:12:00 PM	0.5	0.005	0.000
12:13:00 PM	0.5	0.005	0.000
12:14:00 PM	0.5	0.004	0.000
12:15:00 PM	0.5	0.004	0.000
12:16:00 PM	0.5	0.003	0.000
12:17:00 PM	0.6	0.003	0.000
12:18:00 PM	0.6	0.004	0.000
12:19:00 PM	0.6	0.004	0.000
12:20:00 PM	0.6	0.005	0.000
12:21:00 PM	0.6	0.004	0.000
12:22:00 PM	0.6	0.004	0.000
12:23:00 PM	0.6	0.004	0.000
12:24:00 PM	0.7	0.004	0.000
12:25:00 PM	0.6	0.005	0.000
12:26:00 PM	0.6	0.004	0.000
12:27:00 PM	0.6	0.004	0.000
12:28:00 PM	0.6	0.004	0.000
12:29:00 PM	0.7	0.004	0.000
12:30:00 PM	0.6	0.005	0.000
12:31:00 PM	0.8	0.004	0.000
12:32:00 PM	0.7	0.004	0.000
12:33:00 PM	0.7	0.004	0.000
12:34:00 PM	0.6	0.004	0.000
12:35:00 PM	0.7	0.004	0.000
12:36:00 PM	0.7	0.004	0.000
12:37:00 PM	0.7	0.004	0.000
12:38:00 PM	0.7	0.005	0.000
12:39:00 PM	0.8	0.005	0.000
12:40:00 PM	0.7	0.005	0.000
12:41:00 PM	0.8	0.005	0.000
12:42:00 PM	0.7	0.005	0.000
12:43:00 PM	0.7	0.004	0.000
12:44:00 PM	0.8	0.004	0.000
12:45:00 PM	0.7	0.005	0.000
12:46:00 PM	0.8	0.004	0.000
12:47:00 PM	0.7	0.005	0.000
12:48:00 PM	0.7	0.004	0.000
12:49:00 PM	0.8	0.004	0.000

LIRR Group D Substations

Bayside Substation

Downwind

December 1, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:50:00 PM	0.7	0.004	0.000
12:51:00 PM	0.8	0.004	0.000
12:52:00 PM	0.8	0.004	0.000
12:53:00 PM	0.8	0.004	0.000
12:54:00 PM	0.8	0.004	0.000
12:55:00 PM	0.8	0.004	0.000
12:56:00 PM	0.8	0.004	0.000
12:57:00 PM	0.8	0.003	0.000
12:58:00 PM	0.8	0.003	0.000
12:59:00 PM	0.8	0.004	0.000
1:00:00 PM	0.8	0.008	0.000
1:01:00 PM	0.8	0.004	0.000
1:02:00 PM	0.8	0.004	0.000
1:03:00 PM	0.8	0.004	0.000
1:04:00 PM	0.8	0.005	0.000
1:05:00 PM	0.8	0.005	0.000
1:06:00 PM	0.8	0.006	0.000
1:07:00 PM	0.8	0.006	0.000
1:08:00 PM	0.8	0.005	0.000
1:09:00 PM	0.8	0.005	0.000
1:10:00 PM	0.8	0.006	0.000
1:11:00 PM	0.8	0.006	0.000
1:12:00 PM	0.8	0.005	0.000
1:13:00 PM	0.9	0.005	0.000
1:14:00 PM	0.9	0.006	0.000
1:15:00 PM	0.8	0.006	0.000
1:16:00 PM	0.8	0.005	0.000
1:17:00 PM	0.8	0.006	0.000
1:18:00 PM	0.9	0.005	0.000
1:19:00 PM	0.8	0.006	0.000
1:20:00 PM	0.8	0.005	0.000
1:21:00 PM	0.9	0.006	0.000
1:22:00 PM	0.8	0.005	0.000
1:23:00 PM	0.9	0.006	0.000
1:24:00 PM	0.9	0.005	0.000
1:25:00 PM	0.9	0.005	0.000
1:26:00 PM	0.9	0.005	0.000
1:27:00 PM	0.9	0.005	0.000
1:28:00 PM	0.9	0.005	0.000
1:29:00 PM	0.9	0.005	0.000
1:30:00 PM	0.9	0.005	0.000
1:31:00 PM	0.9	0.006	0.000
1:32:00 PM	0.9	0.005	0.000
1:33:00 PM	0.9	0.005	0.000
1:34:00 PM	0.9	0.005	0.000
1:35:00 PM	0.9	0.005	0.000
1:36:00 PM	0.9	0.006	0.000
1:37:00 PM	0.8	0.006	0.000
1:38:00 PM	1.0	0.006	0.000
1:39:00 PM	0.9	0.007	0.000
1:40:00 PM	0.9	0.009	0.000
1:41:00 PM	0.9	0.007	0.000
1:42:00 PM	0.9	0.006	0.000

LIRR Group D Substations

Bayside Substation

Downwind

December 1, 2020

[illegible]

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From SW ~ 12 mph	Date:	12/2/20
Project Name:	LIRR Group D Substation Remediation-Bayside Site-V00388-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. Aarco loading out the last two truck loads of soils from area #3 for transport to Clean Earth Carteret. Aarco performed a confined space entry to clean out soils within the area #4 manhole within the end of 216th street. All soils were excavated utilizing the soil guzzler truck and the storm drainpipe coming from the substation was bulk headed. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site were sampled but not submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/ m ³)	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/m ³)
UP Wind	0.1	0.009	0.000	0.3	0.012	0.000
Down Wind	0.6	0.010	0.000	1.1	0.014	0.000
Work Zone	0.9	0.009	0.000	1.1	0.011	0.000

Exceedances (Since Last Report): None

Problems Encountered: PID on upwind monitor not recording data due to equipment error until 10:38.

Planned Activities for the Next Day/ Week:

- Backfilling excavation with $\frac{3}{4}$ stone, coring locations in substation.



Loading out soils for disposal.



Aarco cleaning out soils from area #4.

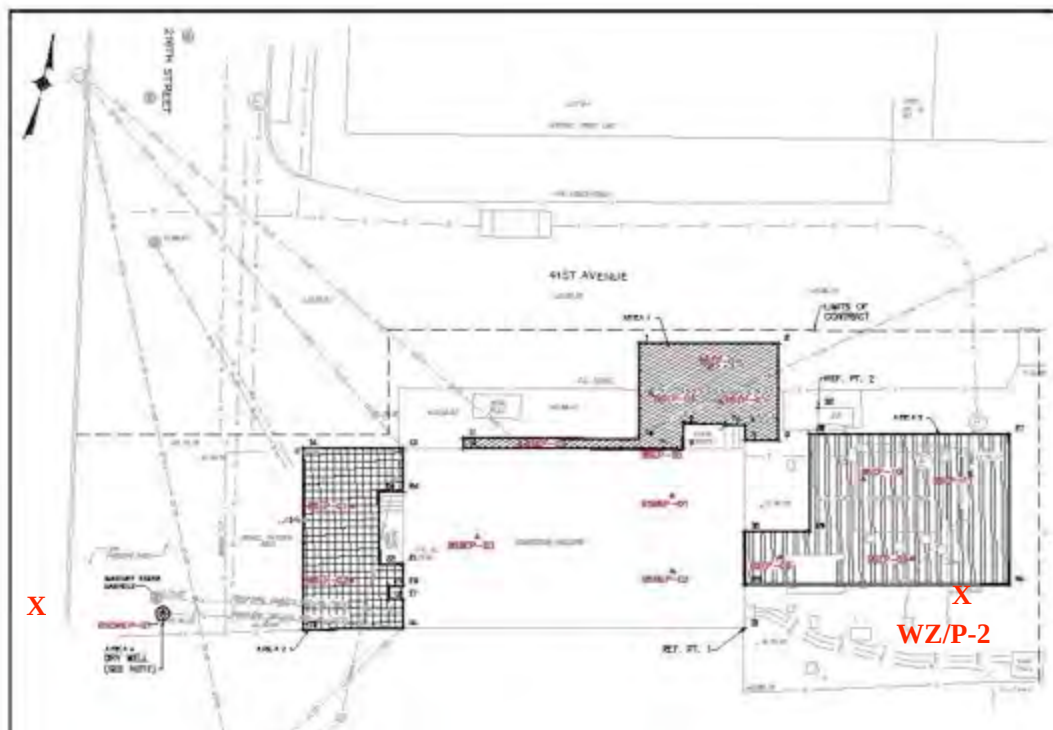


Bulk heading storm sewer pipe in area #4.



Scrapping the former stockpile area to ensure all soils are transported offsite.

Monitoring Locations



UP/P-1

X

WZ/P-2

X
DW/P-3

LIRR Group D Substations

Bayside Substation

Upwind

December 2, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12/2/20 9:33	0.0	0.0	0.000
9:34:00 AM	0.0	0.011	0.000
9:35:00 AM	0.0	0.010	0.000
9:36:00 AM	0.0	0.011	0.000
9:37:00 AM	0.0	0.011	0.000
9:38:00 AM	0.0	0.011	0.000
9:39:00 AM	0.0	0.011	0.000
9:40:00 AM	0.0	0.011	0.000
9:41:00 AM	0.0	0.011	0.000
9:42:00 AM	0.0	0.011	0.000
9:43:00 AM	0.0	0.011	0.000
9:44:00 AM	0.0	0.011	0.000
9:45:00 AM	0.0	0.011	0.000
9:46:00 AM	0.0	0.010	0.000
9:47:00 AM	0.0	0.010	0.000
9:48:00 AM	0.0	0.010	0.000
9:49:00 AM	0.0	0.013	0.000
9:50:00 AM	0.0	0.011	0.000
9:51:00 AM	0.0	0.011	0.000
9:52:00 AM	0.0	0.011	0.000
9:53:00 AM	0.0	0.011	0.000
9:54:00 AM	0.0	0.011	0.000
9:55:00 AM	0.0	0.011	0.000
9:56:00 AM	0.0	0.011	0.000
9:57:00 AM	0.0	0.011	0.000
9:58:00 AM	0.0	0.011	0.000
9:59:00 AM	0.0	0.011	0.000
10:00:00 AM	0.0	0.011	0.000
10:01:00 AM	0.0	0.011	0.000
10:02:00 AM	0.0	0.011	0.000
10:03:00 AM	0.0	0.012	0.000
10:04:00 AM	0.0	0.011	0.000
10:05:00 AM	0.0	0.011	0.000
10:06:00 AM	0.0	0.011	0.000
10:07:00 AM	0.0	0.011	0.000
10:08:00 AM	0.0	0.011	0.000
10:09:00 AM	0.0	0.011	0.000
10:10:00 AM	0.0	0.012	0.000
10:11:00 AM	0.0	0.011	0.000
10:12:00 AM	0.0	0.011	0.000
10:13:00 AM	0.0	0.011	0.000
10:14:00 AM	0.0	0.011	0.000
10:15:00 AM	0.0	0.011	0.000
10:16:00 AM	0.0	0.011	0.000
10:17:00 AM	0.0	0.011	0.000
10:18:00 AM	0.0	0.011	0.000
10:19:00 AM	0.0	0.011	0.000
10:20:00 AM	0.0	0.011	0.000
10:21:00 AM	0.0	0.011	0.000
10:22:00 AM	0.0	0.011	0.000
10:23:00 AM	0.0	0.011	0.000
10:24:00 AM	0.0	0.011	0.000

LIRR Group D Substations

Bayside Substation

Upwind

December 2, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:25:00 AM	0.0	0.011	0.000
10:26:00 AM	0.0	0.012	0.000
10:27:00 AM	0.0	0.011	0.000
10:28:00 AM	0.0	0.011	0.000
10:29:00 AM	0.0	0.011	0.000
10:30:00 AM	0.0	0.011	0.000
10:31:00 AM	0.0	0.011	0.000
10:32:00 AM	0.0	0.011	0.000
10:33:00 AM	0.0	0.012	0.000
10:34:00 AM	0.0	0.011	0.000
10:35:00 AM	0.0	0.011	0.000
10:36:00 AM	0.0	0.013	0.000
10:37:00 AM	0.0	0.013	0.000
10:38:00 AM	0.0	0.013	0.000
10:39:00 AM	0.0	0.013	0.000
10:40:00 AM	0.0	0.013	0.000
10:41:00 AM	0.0	0.011	0.000
10:42:00 AM	0.0	0.013	0.000
10:43:00 AM	0.0	0.010	0.000
10:44:00 AM	0.0	0.011	0.000
10:45:00 AM	0.0	0.009	0.000
10:46:00 AM	0.0	0.009	0.000
10:47:00 AM	0.0	0.010	0.000
10:48:00 AM	0.0	0.010	0.000
10:49:00 AM	0.0	0.010	0.000
10:50:00 AM	0.0	0.010	0.000
10:51:00 AM	0.0	0.009	0.000
10:52:00 AM	0.0	0.009	0.000
10:53:00 AM	0.0	0.010	0.000
10:54:00 AM	0.0	0.009	0.000
10:55:00 AM	0.0	0.009	0.000
10:56:00 AM	0.0	0.009	0.000
10:57:00 AM	0.0	0.009	0.000
10:58:00 AM	0.0	0.009	0.000
10:59:00 AM	0.0	0.009	0.000
11:00:00 AM	0.0	0.010	0.000
11:01:00 AM	0.0	0.008	0.000
11:02:00 AM	0.0	0.009	0.000
11:03:00 AM	0.0	0.009	0.000
11:04:00 AM	0.0	0.009	0.000
11:05:00 AM	0.0	0.010	0.000
11:06:00 AM	0.0	0.012	0.000
11:07:00 AM	0.0	0.010	0.000
11:08:00 AM	0.0	0.009	0.000
11:09:00 AM	0.0	0.010	0.000
11:10:00 AM	0.0	0.011	0.000
11:11:00 AM	0.0	0.010	0.000
11:12:00 AM	0.0	0.009	0.000
11:13:00 AM	0.0	0.009	0.000
11:14:00 AM	0.0	0.009	0.000
11:15:00 AM	0.0	0.009	0.000
11:16:00 AM	0.0	0.009	0.000
11:17:00 AM	0.0	0.010	0.000

LIRR Group D Substations

Bayside Substation

Upwind

December 2, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:18:00 AM	0.0	0.010	0.000
11:19:00 AM	0.0	0.010	0.000
11:20:00 AM	0.0	0.009	0.000
11:21:00 AM	0.0	0.009	0.000
11:22:00 AM	0.0	0.008	0.000
11:23:00 AM	0.0	0.009	0.000
11:24:00 AM	0.0	0.008	0.000
11:25:00 AM	0.0	0.008	0.000
11:26:00 AM	0.0	0.007	0.000
11:27:00 AM	0.0	0.007	0.000
11:28:00 AM	0.0	0.007	0.000
11:29:00 AM	0.0	0.006	0.000
11:30:00 AM	0.0	0.006	0.000
11:31:00 AM	0.0	0.006	0.000
11:32:00 AM	0.0	0.007	0.000
11:33:00 AM	0.0	0.007	0.000
11:34:00 AM	0.0	0.006	0.000
11:35:00 AM	0.0	0.006	0.000
11:36:00 AM	0.0	0.006	0.000
11:37:00 AM	0.0	0.007	0.000
11:38:00 AM	0.0	0.007	0.000
11:39:00 AM	0.0	0.006	0.000
11:40:00 AM	0.0	0.006	0.000
11:41:00 AM	0.0	0.006	0.000
11:42:00 AM	0.0	0.006	0.000
11:43:00 AM	0.0	0.006	0.000
11:44:00 AM	0.0	0.006	0.000
11:45:00 AM	0.0	0.007	0.000
11:46:00 AM	0.0	0.006	0.000
11:47:00 AM	0.0	0.006	0.000
11:48:00 AM	0.1	0.006	0.000
11:49:00 AM	0.0	0.006	0.000
11:50:00 AM	0.0	0.006	0.000
11:51:00 AM	0.0	0.006	0.000
11:52:00 AM	0.0	0.007	0.000
11:53:00 AM	0.1	0.007	0.000
11:54:00 AM	0.0	0.007	0.000
11:55:00 AM	0.0	0.006	0.000
11:56:00 AM	0.0	0.006	0.000
11:57:00 AM	0.0	0.007	0.000
11:58:00 AM	0.0	0.006	0.000
11:59:00 AM	0.0	0.006	0.000
12:00:00 PM	0.0	0.006	0.000
12:01:00 PM	0.1	0.006	0.000
12:02:00 PM	0.1	0.006	0.000
12:03:00 PM	0.1	0.007	0.000
12:04:00 PM	0.0	0.008	0.000
12:05:00 PM	0.0	0.007	0.000
12:06:00 PM	0.0	0.009	0.000
12:07:00 PM	0.0	0.008	0.000
12:08:00 PM	0.0	0.012	0.000
12:09:00 PM	0.0	0.009	0.000
12:10:00 PM	0.0	0.008	0.000

LIRR Group D Substations

Bayside Substation

Upwind

December 2, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:11:00 PM	0.0	0.008	0.000
12:12:00 PM	0.1	0.007	0.000
12:13:00 PM	0.0	0.007	0.000
12:14:00 PM	0.0	0.006	0.000
12:15:00 PM	0.1	0.006	0.000
12:16:00 PM	0.1	0.007	0.000
12:17:00 PM	0.0	0.009	0.000
12:18:00 PM	0.1	0.008	0.000
12:19:00 PM	0.1	0.009	0.000
12:20:00 PM	0.0	0.008	0.000
12:21:00 PM	0.0	0.008	0.000
12:22:00 PM	0.1	0.007	0.000
12:23:00 PM	0.0	0.007	0.000
12:24:00 PM	0.1	0.007	0.000
12:25:00 PM	0.0	0.008	0.000
12:26:00 PM	0.1	0.007	0.000
12:27:00 PM	0.1	0.007	0.000
12:28:00 PM	0.1	0.007	0.000
12:29:00 PM	0.1	0.008	0.000
12:30:00 PM	0.1	0.008	0.000
12:31:00 PM	0.1	0.008	0.000
12:32:00 PM	0.1	0.008	0.000
12:33:00 PM	0.1	0.008	0.000
12:34:00 PM	0.1	0.008	0.000
12:35:00 PM	0.1	0.009	0.000
12:36:00 PM	0.1	0.009	0.000
12:37:00 PM	0.1	0.008	0.000
12:38:00 PM	0.2	0.008	0.000
12:39:00 PM	0.1	0.008	0.000
12:40:00 PM	0.1	0.008	0.000
12:41:00 PM	0.1	0.008	0.000
12:42:00 PM	0.1	0.009	0.000
12:43:00 PM	0.1	0.008	0.000
12:44:00 PM	0.1	0.009	0.000
12:45:00 PM	0.1	0.009	0.000
12:46:00 PM	0.1	0.009	0.000
12:47:00 PM	0.1	0.009	0.000
12:48:00 PM	0.1	0.010	0.000
12:49:00 PM	0.1	0.010	0.000
12:50:00 PM	0.1	0.010	0.000
12:51:00 PM	0.2	0.010	0.000
12:52:00 PM	0.1	0.009	0.000
12:53:00 PM	0.2	0.009	0.000
12:54:00 PM	0.2	0.009	0.000
12:55:00 PM	0.2	0.009	0.000
12:56:00 PM	0.2	0.009	0.000
12:57:00 PM	0.1	0.009	0.000
12:58:00 PM	0.1	0.010	0.000
12:59:00 PM	0.1	0.010	0.000
1:00:00 PM	0.2	0.011	0.000
1:01:00 PM	0.2	0.010	0.000
1:02:00 PM	0.2	0.009	0.000
1:03:00 PM	0.2	0.009	0.000

LIRR Group D Substations

Bayside Substation

Upwind

December 2, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:04:00 PM	0.1	0.009	0.000
1:05:00 PM	0.2	0.009	0.000
1:06:00 PM	0.2	0.009	0.000
1:07:00 PM	0.2	0.009	0.000
1:08:00 PM	0.2	0.009	0.000
1:09:00 PM	0.2	0.009	0.000
1:10:00 PM	0.2	0.010	0.000
1:11:00 PM	0.2	0.010	0.000
1:12:00 PM	0.2	0.009	0.000
1:13:00 PM	0.2	0.009	0.000
1:14:00 PM	0.2	0.009	0.000
1:15:00 PM	0.1	0.008	0.000
1:16:00 PM	0.2	0.008	0.000
1:17:00 PM	0.2	0.008	0.000
1:18:00 PM	0.2	0.008	0.000
1:19:00 PM	0.2	0.008	0.000
1:20:00 PM	0.2	0.008	0.000
1:21:00 PM	0.2	0.008	0.000
1:22:00 PM	0.3	0.009	0.000
1:23:00 PM	0.2	0.009	0.000
1:24:00 PM	0.2	0.009	0.000
1:25:00 PM	0.3	0.009	0.000
1:26:00 PM	0.3	0.009	0.000
1:27:00 PM	0.3	0.010	0.000
1:28:00 PM	0.2	0.009	0.000
1:29:00 PM	0.2	0.009	0.000
1:30:00 PM	0.2	0.009	0.000
1:31:00 PM	0.2	0.011	0.000
1:32:00 PM	0.2	0.011	0.000
1:33:00 PM	0.2	0.011	0.000
1:34:00 PM	0.2	0.012	0.000
1:35:00 PM	0.2	0.011	0.000
1:36:00 PM	0.2	0.010	0.000
1:37:00 PM	0.2	0.009	0.000
1:38:00 PM	0.2	0.009	0.000
1:39:00 PM	0.3	0.008	0.000
1:40:00 PM	0.2	0.008	0.000
1:41:00 PM	0.2	0.008	0.000
1:42:00 PM	0.3	0.009	0.000
1:43:00 PM	0.2	0.009	0.000
1:44:00 PM	0.2	0.009	0.000
1:45:00 PM	0.2	0.009	0.000
1:46:00 PM	0.3	0.009	0.000
1:47:00 PM	0.3	0.009	0.000
1:48:00 PM	0.3	0.010	0.000
1:49:00 PM	0.3	0.010	0.000
1:50:00 PM	0.3	0.010	0.000
1:51:00 PM	0.3	0.010	0.000
1:52:00 PM	0.3	0.009	0.000
1:53:00 PM	0.2	0.009	0.000
1:54:00 PM	0.2	0.008	0.000
1:55:00 PM	0.2	0.008	0.000
1:56:00 PM	0.2	0.009	0.000

December 2, 2020

[illegible]

LIRR Group D Substations

Bayside Substation

Upwind

December 2, 2020

[illegible]

LIRR Group D Substations

Bayside Substation

Work Zone

December 2, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
9:56:00 AM	0.0		0.000
9:57:00 AM	0.0	0.091	0.000
9:58:00 AM	0.0	0.012	0.000
9:59:00 AM	0.0	0.012	0.000
10:00:00 AM	0.0	0.011	0.000
10:01:00 AM	0.0	0.011	0.000
10:02:00 AM	0.1	0.012	0.000
10:03:00 AM	0.1	0.012	0.000
10:04:00 AM	0.1	0.012	0.000
10:05:00 AM	0.1	0.012	0.000
10:06:00 AM	0.2	0.011	0.000
10:07:00 AM	0.2	0.011	0.000
10:08:00 AM	0.2	0.011	0.000
10:09:00 AM	0.3	0.011	0.000
10:10:00 AM	0.2	0.011	0.000
10:11:00 AM	0.3	0.011	0.000
10:12:00 AM	0.3	0.011	0.000
10:13:00 AM	0.4	0.011	0.000
10:14:00 AM	0.4	0.011	0.000
10:15:00 AM	0.4	0.011	0.000
10:16:00 AM	0.5	0.011	0.000
10:17:00 AM	0.5	0.011	0.000
10:18:00 AM	0.5	0.010	0.000
10:19:00 AM	0.5	0.010	0.000
10:20:00 AM	0.6	0.010	0.000
10:21:00 AM	0.6	0.011	0.000
10:22:00 AM	0.6	0.011	0.000
10:23:00 AM	0.6	0.011	0.000
10:24:00 AM	0.7	0.011	0.000
10:25:00 AM	0.7	0.011	0.000
10:26:00 AM	0.7	0.011	0.000
10:27:00 AM	0.7	0.011	0.000
10:28:00 AM	0.7	0.011	0.000
10:29:00 AM	0.8	0.011	0.000
10:30:00 AM	0.8	0.011	0.000
10:31:00 AM	0.8	0.011	0.000
10:32:00 AM	0.8	0.011	0.000
10:33:00 AM	0.9	0.011	0.000
10:34:00 AM	0.9	0.011	0.000
10:35:00 AM	0.9	0.011	0.000
10:36:00 AM	1.0	0.012	0.000
10:37:00 AM	0.9	0.011	0.000
10:38:00 AM	1.0	0.011	0.000
10:39:00 AM	1.0	0.012	0.000
10:40:00 AM	1.0	0.011	0.000
10:41:00 AM	1.0	0.011	0.000
10:42:00 AM	1.0	0.010	0.000
10:43:00 AM	1.0	0.010	0.000
10:44:00 AM	1.0	0.010	0.000
10:45:00 AM	1.0	0.009	0.000
10:46:00 AM	1.1	0.009	0.000
10:47:00 AM	1.0	0.009	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

December 2, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:48:00 AM	1.1	0.009	0.000
10:49:00 AM	1.1	0.009	0.000
10:50:00 AM	1.1	0.009	0.000
10:51:00 AM	1.1	0.009	0.000
10:52:00 AM	1.1	0.009	0.000
10:53:00 AM	1.1	0.009	0.000
10:54:00 AM	1.1	0.009	0.000
10:55:00 AM	1.1	0.008	0.000
10:56:00 AM	1.1	0.008	0.000
10:57:00 AM	1.1	0.008	0.000
10:58:00 AM	1.1	0.008	0.000
10:59:00 AM	1.1	0.009	0.000
11:00:00 AM	1.1	0.009	0.000
11:01:00 AM	1.1	0.009	0.000
11:02:00 AM	1.1	0.008	0.000
11:03:00 AM	1.1	0.008	0.000
11:04:00 AM	1.2	0.009	0.000
11:05:00 AM	1.2	0.009	0.000
11:06:00 AM	1.1	0.009	0.000
11:07:00 AM	1.1	0.009	0.000
11:08:00 AM	1.1	0.009	0.000
11:09:00 AM	1.1	0.009	0.000
11:10:00 AM	1.1	0.010	0.000
11:11:00 AM	1.1	0.009	0.000
11:12:00 AM	1.1	0.009	0.000
11:13:00 AM	1.1	0.009	0.000
11:14:00 AM	1.1	0.009	0.000
11:15:00 AM	1.1	0.009	0.000
11:16:00 AM	1.1	0.009	0.000
11:17:00 AM	1.1	0.008	0.000
11:18:00 AM	1.0	0.008	0.000
11:19:00 AM	1.1	0.008	0.000
11:20:00 AM	1.1	0.009	0.000
11:21:00 AM	1.1	0.009	0.000
11:22:00 AM	1.1	0.008	0.000
11:23:00 AM	1.1	0.008	0.000
11:24:00 AM	1.1	0.008	0.000
11:25:00 AM	1.1	0.007	0.000
11:26:00 AM	1.1	0.007	0.000
11:27:00 AM	1.1	0.007	0.000
11:28:00 AM	1.1	0.007	0.000
11:29:00 AM	1.1	0.006	0.000
11:30:00 AM	1.1	0.006	0.000
11:31:00 AM	1.1	0.006	0.000
11:32:00 AM	1.1	0.006	0.000
11:33:00 AM	1.1	0.006	0.000
11:34:00 AM	1.1	0.006	0.000
11:35:00 AM	1.1	0.007	0.000
11:36:00 AM	1.1	0.006	0.000
11:37:00 AM	1.1	0.006	0.000
11:38:00 AM	1.1	0.006	0.000
11:39:00 AM	1.1	0.007	0.000
11:40:00 AM	1.1	0.006	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

December 2, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:41:00 AM	1.1	0.006	0.000
11:42:00 AM	1.1	0.006	0.000
11:43:00 AM	1.1	0.007	0.000
11:44:00 AM	1.1	0.007	0.000
11:45:00 AM	1.1	0.006	0.000
11:46:00 AM	1.1	0.007	0.000
11:47:00 AM	1.1	0.006	0.000
11:48:00 AM	1.1	0.006	0.000
11:49:00 AM	1.1	0.006	0.000
11:50:00 AM	1.1	0.007	0.000
11:51:00 AM	1.1	0.007	0.000
11:52:00 AM	1.1	0.008	0.000
11:53:00 AM	1.1	0.008	0.000
11:54:00 AM	1.1	0.008	0.000
11:55:00 AM	1.1	0.006	0.000
11:56:00 AM	1.0	0.007	0.000
11:57:00 AM	1.1	0.007	0.000
11:58:00 AM	1.1	0.007	0.000
11:59:00 AM	1.1	0.006	0.000
12:00:00 PM	1.1	0.006	0.000
12:01:00 PM	1.1	0.006	0.000
12:02:00 PM	1.0	0.006	0.000
12:03:00 PM	1.1	0.007	0.000
12:04:00 PM	1.1	0.007	0.000
12:05:00 PM	1.1	0.007	0.000
12:06:00 PM	1.1	0.007	0.000
12:07:00 PM	1.1	0.008	0.000
12:08:00 PM	1.1	0.008	0.000
12:09:00 PM	1.1	0.009	0.000
12:10:00 PM	1.0	0.008	0.000
12:11:00 PM	1.0	0.008	0.000
12:12:00 PM	1.0	0.007	0.000
12:13:00 PM	1.0	0.007	0.000
12:14:00 PM	1.0	0.007	0.000
12:15:00 PM	1.0	0.007	0.000
12:16:00 PM	1.0	0.007	0.000
12:17:00 PM	1.0	0.008	0.000
12:18:00 PM	1.0	0.008	0.000
12:19:00 PM	1.0	0.009	0.000
12:20:00 PM	1.0	0.009	0.000
12:21:00 PM	1.0	0.008	0.000
12:22:00 PM	1.0	0.008	0.000
12:23:00 PM	1.0	0.008	0.000
12:24:00 PM	1.0	0.008	0.000
12:25:00 PM	1.1	0.008	0.000
12:26:00 PM	1.0	0.008	0.000
12:27:00 PM	1.0	0.008	0.000
12:28:00 PM	1.0	0.008	0.000
12:29:00 PM	1.0	0.008	0.000
12:30:00 PM	1.0	0.008	0.000
12:31:00 PM	1.0	0.008	0.000
12:32:00 PM	1.0	0.008	0.000
12:33:00 PM	1.0	0.008	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

December 2, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:34:00 PM	1.0	0.008	0.000
12:35:00 PM	1.0	0.010	0.000
12:36:00 PM	1.0	0.010	0.000
12:37:00 PM	1.1	0.009	0.000
12:38:00 PM	1.0	0.008	0.000
12:39:00 PM	1.0	0.008	0.000
12:40:00 PM	1.0	0.008	0.000
12:41:00 PM	1.0	0.008	0.000
12:42:00 PM	1.0	0.008	0.000
12:43:00 PM	0.9	0.008	0.000
12:44:00 PM	1.0	0.008	0.000
12:45:00 PM	1.0	0.008	0.000
12:46:00 PM	1.0	0.009	0.000
12:47:00 PM	1.0	0.009	0.000
12:48:00 PM	1.0	0.010	0.000
12:49:00 PM	1.0	0.010	0.000
12:50:00 PM	1.0	0.010	0.000
12:51:00 PM	1.0	0.010	0.000
12:52:00 PM	1.0	0.009	0.000
12:53:00 PM	1.0	0.009	0.000
12:54:00 PM	1.0	0.009	0.000
12:55:00 PM	1.0	0.009	0.000
12:56:00 PM	1.0	0.009	0.000
12:57:00 PM	1.0	0.009	0.000
12:58:00 PM	1.0	0.009	0.000
12:59:00 PM	0.9	0.010	0.000
1:00:00 PM	1.0	0.011	0.000
1:01:00 PM	1.0	0.010	0.000
1:02:00 PM	1.0	0.009	0.000
1:03:00 PM	1.0	0.009	0.000
1:04:00 PM	0.9	0.009	0.000
1:05:00 PM	1.0	0.009	0.000
1:06:00 PM	1.0	0.008	0.000
1:07:00 PM	1.0	0.008	0.000
1:08:00 PM	1.1	0.009	0.000
1:09:00 PM	1.0	0.008	0.000
1:10:00 PM	1.0	0.012	0.000
1:11:00 PM	1.0	0.011	0.000
1:12:00 PM	1.0	0.010	0.000
1:13:00 PM	1.0	0.009	0.000
1:14:00 PM	0.9	0.009	0.000
1:15:00 PM	0.9	0.008	0.000
1:16:00 PM	0.9	0.008	0.000
1:17:00 PM	0.9	0.008	0.000
1:18:00 PM	1.0	0.008	0.000
1:19:00 PM	0.9	0.008	0.000
1:20:00 PM	0.9	0.008	0.000
1:21:00 PM	1.0	0.008	0.000
1:22:00 PM	1.0	0.008	0.000
1:23:00 PM	1.0	0.009	0.000
1:24:00 PM	1.0	0.009	0.000
1:25:00 PM	1.1	0.009	0.000
1:26:00 PM	1.1	0.010	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

December 2, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:27:00 PM	1.1	0.009	0.000
1:28:00 PM	1.1	0.009	0.000
1:29:00 PM	1.0	0.009	0.000
1:30:00 PM	1.0	0.009	0.000
1:31:00 PM	1.0	0.010	0.000
1:32:00 PM	1.0	0.011	0.000
1:33:00 PM	1.0	0.010	0.000
1:34:00 PM	1.0	0.012	0.000
1:35:00 PM	1.0	0.011	0.000
1:36:00 PM	1.1	0.010	0.000
1:37:00 PM	1.0	0.010	0.000
1:38:00 PM	1.0	0.009	0.000
1:39:00 PM	1.0	0.008	0.000
1:40:00 PM	1.0	0.009	0.000
1:41:00 PM	1.0	0.009	0.000
1:42:00 PM	1.1	0.009	0.000
1:43:00 PM	1.1	0.009	0.000
1:44:00 PM	1.0	0.008	0.000
1:45:00 PM	1.0	0.009	0.000
1:46:00 PM	1.0	0.009	0.000
1:47:00 PM	1.0	0.009	0.000
1:48:00 PM	1.0	0.009	0.000
1:49:00 PM	1.0	0.010	0.000
1:50:00 PM	1.1	0.010	0.000
1:51:00 PM	1.0	0.010	0.000
1:52:00 PM	1.0	0.010	0.000
1:53:00 PM	1.0	0.009	0.000
1:54:00 PM	1.0	0.009	0.000
1:55:00 PM	1.0	0.008	0.000
1:56:00 PM	1.0	0.008	0.000
1:57:00 PM	1.0	0.009	0.000
1:58:00 PM	1.0	0.009	0.000
1:59:00 PM	1.0	0.009	0.000
2:00:00 PM	1.0	0.009	0.000
2:01:00 PM	1.0	0.010	0.000
2:02:00 PM	1.0	0.010	0.000
2:03:00 PM	1.0	0.008	0.000
2:04:00 PM	1.0	0.007	0.000
2:05:00 PM	1.0	0.008	0.000
2:06:00 PM	0.9	0.008	0.000
2:07:00 PM	0.9	0.010	0.000
2:08:00 PM	0.9	0.008	0.000
2:09:00 PM	0.9	0.008	0.000
2:10:00 PM	0.9	0.007	0.000
2:11:00 PM	0.9	0.007	0.000
2:12:00 PM	0.9	0.007	0.000
2:13:00 PM	0.9	0.007	0.000
2:14:00 PM	1.0	0.007	0.000
2:15:00 PM	0.9	0.013	0.000
2:16:00 PM	1.0	0.008	0.000
2:17:00 PM	0.9	0.008	0.000
2:18:00 PM	0.9	0.009	0.000
2:19:00 PM	0.9	0.010	0.000

LIRR Group D Substations

Bayside Substation

Downwind

December 2, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
9:49:00 AM	0.0	0.201	0.000
9:50:00 AM	0.0	0.018	0.000
9:51:00 AM	0.0	0.015	0.000
9:52:00 AM	0.0	0.013	0.000
9:53:00 AM	0.0	0.014	0.000
9:54:00 AM	0.0	0.014	0.000
9:55:00 AM	0.0	0.014	0.000
9:56:00 AM	0.0	0.014	0.000
9:57:00 AM	0.0	0.014	0.000
9:58:00 AM	0.0	0.014	0.000
9:59:00 AM	0.0	0.014	0.000
10:00:00 AM	0.0	0.014	0.000
10:01:00 AM	0.0	0.014	0.000
10:02:00 AM	0.0	0.013	0.000
10:03:00 AM	0.0	0.014	0.000
10:04:00 AM	0.0	0.013	0.000
10:05:00 AM	0.0	0.013	0.000
10:06:00 AM	0.0	0.013	0.000
10:07:00 AM	0.0	0.013	0.000
10:08:00 AM	0.0	0.013	0.000
10:09:00 AM	0.0	0.014	0.000
10:10:00 AM	0.0	0.014	0.000
10:11:00 AM	0.0	0.013	0.000
10:12:00 AM	0.0	0.012	0.000
10:13:00 AM	0.0	0.012	0.000
10:14:00 AM	0.0	0.012	0.000
10:15:00 AM	0.0	0.012	0.000
10:16:00 AM	0.0	0.012	0.000
10:17:00 AM	0.1	0.013	0.000
10:18:00 AM	0.1	0.013	0.000
10:19:00 AM	0.1	0.013	0.000
10:20:00 AM	0.1	0.013	0.000
10:21:00 AM	0.1	0.013	0.000
10:22:00 AM	0.1	0.013	0.000
10:23:00 AM	0.1	0.012	0.000
10:24:00 AM	0.1	0.012	0.000
10:25:00 AM	0.1	0.012	0.000
10:26:00 AM	0.1	0.012	0.000
10:27:00 AM	0.1	0.012	0.000
10:28:00 AM	0.2	0.012	0.000
10:29:00 AM	0.2	0.013	0.000
10:30:00 AM	0.2	0.013	0.000
10:31:00 AM	0.2	0.013	0.000
10:32:00 AM	0.3	0.014	0.000
10:33:00 AM	0.3	0.015	0.000
10:34:00 AM	0.2	0.014	0.000
10:35:00 AM	0.2	0.013	0.000
10:36:00 AM	0.3	0.014	0.000
10:37:00 AM	0.3	0.013	0.000
10:38:00 AM	0.3	0.014	0.000
10:39:00 AM	0.3	0.013	0.000
10:40:00 AM	0.3	0.013	0.000

LIRR Group D Substations

Bayside Substation

Downwind

December 2, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:41:00 AM	0.3	0.012	0.000
10:42:00 AM	0.3	0.012	0.000
10:43:00 AM	0.3	0.011	0.000
10:44:00 AM	0.3	0.012	0.000
10:45:00 AM	0.3	0.012	0.000
10:46:00 AM	0.3	0.011	0.000
10:47:00 AM	0.3	0.011	0.000
10:48:00 AM	0.3	0.011	0.000
10:49:00 AM	0.3	0.011	0.000
10:50:00 AM	0.3	0.011	0.000
10:51:00 AM	0.3	0.010	0.000
10:52:00 AM	0.3	0.010	0.000
10:53:00 AM	0.3	0.010	0.000
10:54:00 AM	0.3	0.009	0.000
10:55:00 AM	0.3	0.009	0.000
10:56:00 AM	0.3	0.009	0.000
10:57:00 AM	0.3	0.009	0.000
10:58:00 AM	0.3	0.009	0.000
10:59:00 AM	0.4	0.009	0.000
11:00:00 AM	0.4	0.010	0.000
11:01:00 AM	0.4	0.010	0.000
11:02:00 AM	0.4	0.009	0.000
11:03:00 AM	0.4	0.009	0.000
11:04:00 AM	0.4	0.010	0.000
11:05:00 AM	0.4	0.010	0.000
11:06:00 AM	0.4	0.011	0.000
11:07:00 AM	0.4	0.010	0.000
11:08:00 AM	0.4	0.010	0.000
11:09:00 AM	0.4	0.011	0.000
11:10:00 AM	0.4	0.012	0.000
11:11:00 AM	0.4	0.011	0.000
11:12:00 AM	0.4	0.010	0.000
11:13:00 AM	0.4	0.011	0.000
11:14:00 AM	1.2	0.010	0.000
11:15:00 AM	0.8	0.010	0.000
11:16:00 AM	2.9	0.009	0.000
11:17:00 AM	0.9	0.009	0.000
11:18:00 AM	0.6	0.009	0.000
11:19:00 AM	0.9	0.009	0.000
11:20:00 AM	0.6	0.009	0.000
11:21:00 AM	0.7	0.009	0.000
11:22:00 AM	0.5	0.009	0.000
11:23:00 AM	0.5	0.009	0.000
11:24:00 AM	0.5	0.008	0.000
11:25:00 AM	0.5	0.008	0.000
11:26:00 AM	0.5	0.008	0.000
11:27:00 AM	0.5	0.010	0.000
11:28:00 AM	0.5	0.008	0.000
11:29:00 AM	0.5	0.007	0.000
11:30:00 AM	0.5	0.006	0.000
11:31:00 AM	0.5	0.006	0.000
11:32:00 AM	0.5	0.006	0.000
11:33:00 AM	0.6	0.006	0.000

LIRR Group D Substations

Bayside Substation

Downwind

December 2, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:34:00 AM	1.4	0.006	0.000
11:35:00 AM	0.7	0.006	0.000
11:36:00 AM	0.6	0.006	0.000
11:37:00 AM	0.6	0.007	0.000
11:38:00 AM	0.7	0.006	0.000
11:39:00 AM	0.6	0.006	0.000
11:40:00 AM	0.5	0.006	0.000
11:41:00 AM	0.6	0.006	0.000
11:42:00 AM	0.6	0.006	0.000
11:43:00 AM	0.5	0.006	0.000
11:44:00 AM	0.6	0.006	0.000
11:45:00 AM	0.7	0.006	0.000
11:46:00 AM	0.5	0.006	0.000
11:47:00 AM	0.5	0.006	0.000
11:48:00 AM	0.5	0.007	0.000
11:49:00 AM	0.6	0.006	0.000
11:50:00 AM	0.6	0.007	0.000
11:51:00 AM	0.6	0.008	0.000
11:52:00 AM	0.6	0.007	0.000
11:53:00 AM	0.6	0.008	0.000
11:54:00 AM	0.5	0.007	0.000
11:55:00 AM	0.6	0.006	0.000
11:56:00 AM	0.6	0.007	0.000
11:57:00 AM	0.6	0.007	0.000
11:58:00 AM	0.6	0.007	0.000
11:59:00 AM	0.6	0.007	0.000
12:00:00 PM	0.9	0.009	0.000
12:01:00 PM	0.7	0.010	0.000
12:02:00 PM	0.7	0.008	0.000
12:03:00 PM	0.7	0.010	0.000
12:04:00 PM	0.6	0.013	0.000
12:05:00 PM	0.6	0.009	0.000
12:06:00 PM	0.9	0.009	0.000
12:07:00 PM	0.6	0.010	0.000
12:08:00 PM	0.6	0.010	0.000
12:09:00 PM	0.6	0.010	0.000
12:10:00 PM	0.6	0.009	0.000
12:11:00 PM	0.7	0.010	0.000
12:12:00 PM	0.6	0.009	0.000
12:13:00 PM	0.6	0.009	0.000
12:14:00 PM	0.6	0.008	0.000
12:15:00 PM	0.7	0.008	0.000
12:16:00 PM	0.6	0.008	0.000
12:17:00 PM	0.7	0.008	0.000
12:18:00 PM	0.7	0.009	0.000
12:19:00 PM	0.7	0.010	0.000
12:20:00 PM	0.6	0.011	0.000
12:21:00 PM	0.6	0.009	0.000
12:22:00 PM	0.7	0.013	0.000
12:23:00 PM	0.7	0.010	0.000
12:24:00 PM	0.7	0.010	0.000
12:25:00 PM	0.7	0.010	0.000
12:26:00 PM	0.7	0.009	0.000

LIRR Group D Substations

Bayside Substation

Downwind

December 2, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:27:00 PM	0.7	0.010	0.000
12:28:00 PM	0.7	0.009	0.000
12:29:00 PM	0.7	0.010	0.000
12:30:00 PM	0.7	0.009	0.000
12:31:00 PM	0.7	0.009	0.000
12:32:00 PM	0.7	0.009	0.000
12:33:00 PM	0.7	0.009	0.000
12:34:00 PM	0.7	0.009	0.000
12:35:00 PM	0.7	0.011	0.000
12:36:00 PM	0.7	0.011	0.000
12:37:00 PM	0.7	0.009	0.000
12:38:00 PM	0.7	0.009	0.000
12:39:00 PM	0.7	0.011	0.000
12:40:00 PM	0.7	0.010	0.000
12:41:00 PM	0.7	0.009	0.000
12:42:00 PM	0.7	0.009	0.000
12:43:00 PM	0.7	0.009	0.000
12:44:00 PM	0.8	0.009	0.000
12:45:00 PM	0.9	0.009	0.000
12:46:00 PM	0.8	0.010	0.000
12:47:00 PM	0.8	0.010	0.000
12:48:00 PM	0.8	0.010	0.000
12:49:00 PM	0.8	0.010	0.000
12:50:00 PM	0.8	0.011	0.000
12:51:00 PM	0.8	0.011	0.000
12:52:00 PM	0.8	0.010	0.000
12:53:00 PM	0.8	0.010	0.000
12:54:00 PM	0.8	0.010	0.000
12:55:00 PM	0.8	0.010	0.000
12:56:00 PM	0.9	0.010	0.000
12:57:00 PM	0.7	0.010	0.000
12:58:00 PM	0.8	0.010	0.000
12:59:00 PM	0.8	0.011	0.000
1:00:00 PM	0.8	0.011	0.000
1:01:00 PM	0.8	0.011	0.000
1:02:00 PM	0.8	0.009	0.000
1:03:00 PM	0.8	0.009	0.000
1:04:00 PM	0.8	0.009	0.000
1:05:00 PM	0.7	0.010	0.000
1:06:00 PM	0.8	0.009	0.000
1:07:00 PM	0.8	0.009	0.000
1:08:00 PM	0.8	0.009	0.000
1:09:00 PM	0.8	0.009	0.000
1:10:00 PM	0.8	0.012	0.000
1:11:00 PM	0.8	0.011	0.000
1:12:00 PM	0.8	0.011	0.000
1:13:00 PM	0.8	0.009	0.000
1:14:00 PM	0.8	0.010	0.000
1:15:00 PM	0.8	0.010	0.000
1:16:00 PM	0.8	0.009	0.000
1:17:00 PM	0.8	0.008	0.000
1:18:00 PM	0.8	0.008	0.000
1:19:00 PM	0.8	0.008	0.000

LIRR Group D Substations

Bayside Substation

Downwind

December 2, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:20:00 PM	0.8	0.009	0.000
1:21:00 PM	0.8	0.009	0.000
1:22:00 PM	0.8	0.010	0.000
1:23:00 PM	0.8	0.011	0.000
1:24:00 PM	1.3	0.010	0.000
1:25:00 PM	3.9	0.010	0.000
1:26:00 PM	1.0	0.010	0.000
1:27:00 PM	1.0	0.012	0.000
1:28:00 PM	0.9	0.010	0.000
1:29:00 PM	1.0	0.011	0.000
1:30:00 PM	0.9	0.014	0.000
1:31:00 PM	0.9	0.011	0.000
1:32:00 PM	0.9	0.012	0.000
1:33:00 PM	0.9	0.013	0.000
1:34:00 PM	0.9	0.012	0.000
1:35:00 PM	0.9	0.012	0.000
1:36:00 PM	0.9	0.012	0.000
1:37:00 PM	0.9	0.011	0.000
1:38:00 PM	0.9	0.006	0.000
1:39:00 PM	0.9	0.010	0.000
1:40:00 PM	0.9	0.006	0.000
1:41:00 PM	0.9	0.005	0.000
1:42:00 PM	1.1	0.017	0.000
1:43:00 PM	1.3	0.007	0.000
1:44:00 PM	0.9	0.018	0.000
1:45:00 PM	0.9	0.005	0.000
1:46:00 PM	0.9	0.023	0.000
1:47:00 PM	1.0	0.004	0.000
1:48:00 PM	0.9	0.005	0.000
1:49:00 PM	0.9	0.016	0.000
1:50:00 PM	0.9	0.006	0.000
1:51:00 PM	1.0	0.005	0.000
1:52:00 PM	0.9	0.005	0.000
1:53:00 PM	0.9	0.005	0.000
1:54:00 PM	0.9	0.005	0.000
1:55:00 PM	0.9	0.005	0.000
1:56:00 PM	1.0	0.005	0.000
1:57:00 PM	0.9	0.005	0.000
1:58:00 PM	0.9	0.005	0.000
1:59:00 PM	0.9	0.005	0.000
2:00:00 PM	0.9	0.005	0.000
2:01:00 PM	0.9	0.005	0.000
2:02:00 PM	1.0	0.005	0.000
2:03:00 PM	0.9	0.005	0.000
2:04:00 PM	0.9	0.005	0.000
2:05:00 PM	0.9	0.005	0.000
2:06:00 PM	0.9	0.005	0.000
2:07:00 PM	0.9	0.005	0.000
2:08:00 PM	0.9	0.005	0.000
2:09:00 PM	0.9	0.005	0.000
2:10:00 PM	1.0	0.005	0.000
2:11:00 PM	1.0	0.005	0.000
2:12:00 PM	0.9	0.005	0.000

December 2, 2020

[illegible]

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From W ~ 10 mph	Date:	12/3/20
Project Name:	LIRR Group D Substation Remediation-Bayside Site-V00388-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. Aarco is backfilling area #3 and stockpile area with $\frac{3}{4}$ stone and compacting the same. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site as well as two high risk workers were sampled and submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/ m ³)	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/m ³)
UP Wind	0.1	0.022	0.000	0.3	0.029	0.000
Down Wind	0.2	0.034	0.000	0.5	0.040	0.000
Work Zone	0.2	0.029	0.000	0.2	0.036	0.000

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- Will collect samples from below the substation slab, area #3 and associated endpoint samples will be surveyed.



View of work zone camp monitor.



Aarco filling in low spots and compacting sand.

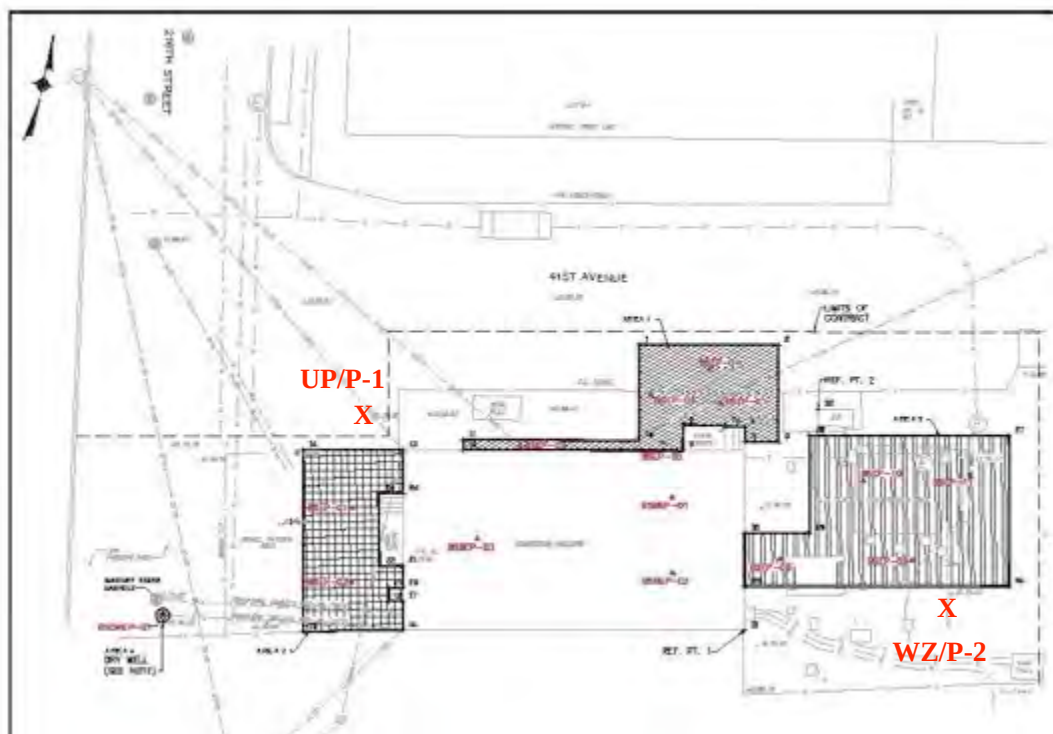


Aarco backfilling with 3/4 inch stone.



Aarco compacting stone.

Monitoring Locations



X
DW/P-3

X
WZ/P-2

LIRR Group D Substations

Bayside Substation

Upwind

December 3, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
9:35:00 AM	0.0	0.0	0.000
9:36:00 AM	0.0	0.020	0.000
9:37:00 AM	0.0	0.023	0.000
9:38:00 AM	0.0	0.024	0.000
9:39:00 AM	0.0	0.026	0.000
9:40:00 AM	0.0	0.027	0.000
9:41:00 AM	0.0	0.027	0.000
9:42:00 AM	0.0	0.028	0.000
9:43:00 AM	0.0	0.024	0.000
9:44:00 AM	0.0	0.027	0.000
9:45:00 AM	0.0	0.027	0.000
9:46:00 AM	0.0	0.026	0.000
9:47:00 AM	0.0	0.024	0.000
9:48:00 AM	0.0	0.026	0.000
9:49:00 AM	0.0	0.028	0.000
9:50:00 AM	0.0	0.026	0.000
9:51:00 AM	0.0	0.028	0.000
9:52:00 AM	0.0	0.025	0.000
9:53:00 AM	0.0	0.027	0.000
9:54:00 AM	0.0	0.027	0.000
9:55:00 AM	0.0	0.026	0.000
9:56:00 AM	0.0	0.024	0.000
9:57:00 AM	0.0	0.026	0.000
9:58:00 AM	0.0	0.027	0.000
9:59:00 AM	0.0	0.029	0.000
10:00:00 AM	0.0	0.027	0.000
10:01:00 AM	0.0	0.026	0.000
10:02:00 AM	0.0	0.028	0.000
10:03:00 AM	0.0	0.025	0.000
10:04:00 AM	0.0	0.023	0.000
10:05:00 AM	0.0	0.024	0.000
10:06:00 AM	0.0	0.025	0.000
10:07:00 AM	0.0	0.026	0.000
10:08:00 AM	0.0	0.025	0.000
10:09:00 AM	0.0	0.028	0.000
10:10:00 AM	0.0	0.026	0.000
10:11:00 AM	0.0	0.023	0.000
10:12:00 AM	0.0	0.025	0.000
10:13:00 AM	0.0	0.025	0.000
10:14:00 AM	0.0	0.024	0.000
10:15:00 AM	0.0	0.027	0.000
10:16:00 AM	0.0	0.027	0.000
10:17:00 AM	0.0	0.026	0.000
10:18:00 AM	0.0	0.026	0.000
10:19:00 AM	0.0	0.023	0.000
10:20:00 AM	0.0	0.024	0.000
10:21:00 AM	0.0	0.027	0.000
10:22:00 AM	0.0	0.023	0.000
10:23:00 AM	0.0	0.023	0.000
10:24:00 AM	0.0	0.027	0.000
10:25:00 AM	0.0	0.024	0.000
10:26:00 AM	0.2	0.024	0.000

LIRR Group D Substations

Bayside Substation

Upwind

December 3, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:27:00 AM	0.1	0.024	0.000
10:28:00 AM	0.0	0.027	0.000
10:29:00 AM	0.0	0.029	0.000
10:30:00 AM	0.0	0.027	0.000
10:31:00 AM	0.0	0.027	0.000
10:32:00 AM	0.2	0.027	0.000
10:33:00 AM	0.0	0.030	0.000
10:34:00 AM	0.0	0.027	0.000
10:35:00 AM	0.0	0.026	0.000
10:36:00 AM	0.0	0.025	0.000
10:37:00 AM	0.0	0.026	0.000
10:38:00 AM	0.0	0.024	0.000
10:39:00 AM	0.0	0.025	0.000
10:40:00 AM	0.0	0.023	0.000
10:41:00 AM	0.0	0.022	0.000
10:42:00 AM	0.0	0.021	0.000
10:43:00 AM	0.0	0.026	0.000
10:44:00 AM	0.0	0.023	0.000
10:45:00 AM	0.0	0.022	0.000
10:46:00 AM	0.0	0.022	0.000
10:47:00 AM	0.0	0.041	0.000
10:48:00 AM	0.0	0.052	0.000
10:49:00 AM	0.0	0.028	0.000
10:50:00 AM	0.0	0.031	0.000
10:51:00 AM	0.0	0.039	0.000
10:52:00 AM	0.0	0.029	0.000
10:53:00 AM	0.0	0.025	0.000
10:54:00 AM	0.0	0.024	0.000
10:55:00 AM	0.0	0.024	0.000
10:56:00 AM	0.0	0.024	0.000
10:57:00 AM	0.0	0.026	0.000
10:58:00 AM	0.0	0.025	0.000
10:59:00 AM	0.0	0.025	0.000
11:00:00 AM	0.0	0.021	0.000
11:01:00 AM	0.0	0.022	0.000
11:02:00 AM	0.0	0.022	0.000
11:03:00 AM	0.0	0.022	0.000
11:04:00 AM	0.0	0.021	0.000
11:05:00 AM	0.0	0.021	0.000
11:06:00 AM	0.0	0.026	0.000
11:07:00 AM	0.1	0.020	0.000
11:08:00 AM	0.0	0.021	0.000
11:09:00 AM	0.0	0.021	0.000
11:10:00 AM	0.0	0.022	0.000
11:11:00 AM	0.0	0.025	0.000
11:12:00 AM	0.0	0.022	0.000
11:13:00 AM	0.0	0.021	0.000
11:14:00 AM	0.0	0.020	0.000
11:15:00 AM	0.0	0.020	0.000
11:16:00 AM	0.1	0.021	0.000
11:17:00 AM	0.1	0.026	0.000
11:18:00 AM	0.1	0.022	0.000
11:19:00 AM	0.1	0.021	0.000

LIRR Group D Substations

Bayside Substation

Upwind

December 3, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:20:00 AM	0.1	0.026	0.000
11:21:00 AM	0.1	0.023	0.000
11:22:00 AM	0.1	0.021	0.000
11:23:00 AM	0.1	0.024	0.000
11:24:00 AM	0.1	0.027	0.000
11:25:00 AM	0.1	0.023	0.000
11:26:00 AM	0.1	0.024	0.000
11:27:00 AM	0.1	0.025	0.000
11:28:00 AM	0.1	0.024	0.000
11:29:00 AM	0.1	0.022	0.000
11:30:00 AM	0.2	0.024	0.000
11:31:00 AM	0.2	0.022	0.000
11:32:00 AM	0.1	0.024	0.000
11:33:00 AM	0.2	0.023	0.000
11:34:00 AM	0.1	0.027	0.000
11:35:00 AM	0.2	0.025	0.000
11:36:00 AM	0.1	0.024	0.000
11:37:00 AM	0.1	0.022	0.000
11:38:00 AM	0.2	0.019	0.000
11:39:00 AM	0.1	0.023	0.000
11:40:00 AM	0.1	0.022	0.000
11:41:00 AM	0.1	0.021	0.000
11:42:00 AM	0.1	0.021	0.000
11:43:00 AM	0.2	0.021	0.000
11:44:00 AM	0.2	0.024	0.000
11:45:00 AM	0.2	0.025	0.000
11:46:00 AM	0.2	0.022	0.000
11:47:00 AM	0.2	0.022	0.000
11:48:00 AM	0.2	0.022	0.000
11:49:00 AM	0.2	0.025	0.000
11:50:00 AM	0.2	0.024	0.000
11:51:00 AM	0.2	0.021	0.000
11:52:00 AM	0.2	0.019	0.000
11:53:00 AM	0.2	0.019	0.000
11:54:00 AM	0.2	0.022	0.000
11:55:00 AM	0.2	0.020	0.000
11:56:00 AM	0.2	0.020	0.000
11:57:00 AM	0.4	0.020	0.000
11:58:00 AM	0.3	0.019	0.000
11:59:00 AM	0.3	0.017	0.000
12:00:00 PM	0.3	0.020	0.000
12:01:00 PM	0.3	0.019	0.000
12:02:00 PM	0.3	0.021	0.000
12:03:00 PM	0.2	0.020	0.000
12:04:00 PM	0.2	0.019	0.000
12:05:00 PM	0.2	0.018	0.000
12:06:00 PM	0.2	0.017	0.000
12:07:00 PM	0.2	0.018	0.000
12:08:00 PM	0.3	0.018	0.000
12:09:00 PM	0.2	0.019	0.000
12:10:00 PM	0.2	0.019	0.000
12:11:00 PM	0.3	0.018	0.000
12:12:00 PM	0.3	0.023	0.000

LIRR Group D Substations

Bayside Substation

Upwind

December 3, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:13:00 PM	0.2	0.022	0.000
12:14:00 PM	0.3	0.022	0.000
12:15:00 PM	0.3	0.021	0.000
12:16:00 PM	0.2	0.019	0.000
12:17:00 PM	0.2	0.019	0.000
12:18:00 PM	0.2	0.020	0.000
12:19:00 PM	0.2	0.021	0.000
12:20:00 PM	0.2	0.023	0.000
12:21:00 PM	0.2	0.023	0.000
12:22:00 PM	0.2	0.020	0.000
12:23:00 PM	0.3	0.019	0.000
12:24:00 PM	0.3	0.020	0.000
12:25:00 PM	0.2	0.023	0.000
12:26:00 PM	0.2	0.021	0.000
12:27:00 PM	0.3	0.021	0.000
12:28:00 PM	0.3	0.020	0.000
12:29:00 PM	0.2	0.021	0.000
12:30:00 PM	0.2	0.022	0.000
12:31:00 PM	0.2	0.020	0.000
12:32:00 PM	0.2	0.022	0.000
12:33:00 PM	0.2	0.022	0.000
12:34:00 PM	0.2	0.021	0.000
12:35:00 PM	0.2	0.019	0.000
12:36:00 PM	0.2	0.023	0.000
12:37:00 PM	0.2	0.023	0.000
12:38:00 PM	0.3	0.022	0.000
12:39:00 PM	0.3	0.020	0.000
12:40:00 PM	0.3	0.017	0.000
12:41:00 PM	0.3	0.017	0.000
12:42:00 PM	0.3	0.017	0.000
12:43:00 PM	0.3	0.016	0.000
12:44:00 PM	0.3	0.017	0.000
12:45:00 PM	0.3	0.015	0.000
12:46:00 PM	0.3	0.020	0.000
12:47:00 PM	0.3	0.021	0.000
12:48:00 PM	0.3	0.017	0.000
12:49:00 PM	0.3	0.021	0.000
12:50:00 PM	0.3	0.019	0.000
12:51:00 PM	0.3	0.016	0.000
12:52:00 PM	0.3	0.015	0.000
12:53:00 PM	0.3	0.015	0.000
12:54:00 PM	0.2	0.018	0.000
12:55:00 PM	0.2	0.019	0.000
12:56:00 PM	0.3	0.019	0.000
12:57:00 PM	0.3	0.019	0.000
12:58:00 PM	0.3	0.017	0.000
12:59:00 PM	0.3	0.018	0.000
1:00:00 PM	0.3	0.019	0.000
1:01:00 PM	0.3	0.018	0.000
1:02:00 PM	0.3	0.018	0.000
1:03:00 PM	0.3	0.020	0.000
1:04:00 PM	0.3	0.018	0.000
1:05:00 PM	0.3	0.018	0.000

LIRR Group D Substations

Bayside Substation

Upwind

December 3, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:06:00 PM	0.3	0.018	0.000
1:07:00 PM	0.3	0.019	0.000
1:08:00 PM	0.3	0.017	0.000
1:09:00 PM	0.3	0.017	0.000
1:10:00 PM	0.3	0.016	0.000
1:11:00 PM	0.3	0.018	0.000
1:12:00 PM	0.3	0.017	0.000
1:13:00 PM	0.2	0.016	0.000
1:14:00 PM	0.3	0.016	0.000
1:15:00 PM	0.3	0.016	0.000
1:16:00 PM	0.3	0.018	0.000
1:17:00 PM	0.3	0.018	0.000
1:18:00 PM	0.3	0.016	0.000
1:19:00 PM	0.3	0.018	0.000
1:20:00 PM	0.2	0.018	0.000
1:21:00 PM	0.2	0.018	0.000
1:22:00 PM	0.2	0.017	0.000
1:23:00 PM	0.2	0.018	0.000
1:24:00 PM	0.3	0.017	0.000
1:25:00 PM	0.2	0.018	0.000
1:26:00 PM	0.3	0.016	0.000
1:27:00 PM	0.3	0.015	0.000
1:28:00 PM	0.2	0.015	0.000
1:29:00 PM	0.2	0.014	0.000
1:30:00 PM	0.2	0.017	0.000
1:31:00 PM	0.3	0.014	0.000
1:32:00 PM	0.3	0.014	0.000
1:33:00 PM	0.2	0.016	0.000
1:34:00 PM	0.3	0.016	0.000
1:35:00 PM	0.3	0.018	0.000
1:36:00 PM	0.3	0.015	0.000
1:37:00 PM	0.2	0.014	0.000
1:38:00 PM	0.2	0.017	0.000
1:39:00 PM	0.3	0.017	0.000
1:40:00 PM	0.3	0.014	0.000
1:41:00 PM	0.3	0.013	0.000
1:42:00 PM	0.3	0.014	0.000
1:43:00 PM	0.3	0.015	0.000
1:44:00 PM	0.3	0.015	0.000
1:45:00 PM	0.2	0.012	0.000
1:46:00 PM	0.2	0.015	0.000
1:47:00 PM	0.3	0.015	0.000
1:48:00 PM	0.3	0.014	0.000
1:49:00 PM	0.2	0.013	0.000
1:50:00 PM	0.2	0.011	0.000
1:51:00 PM	0.2	0.013	0.000
1:52:00 PM	0.2	0.013	0.000
1:53:00 PM	0.3	0.013	0.000
1:54:00 PM	0.2	0.016	0.000
1:55:00 PM	0.3	0.014	0.000
1:56:00 PM	0.3	0.013	0.000
1:57:00 PM	0.3	0.016	0.000
1:58:00 PM	0.2	0.015	0.000

LIRR Group D Substations
Bayside Substation
Upwind
December 3, 2020

[illegible]

LIRR Group D Substations

Bayside Substation

Work Zone

December 3, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
9:51:00 AM	0.0		0.000
9:52:00 AM	0.0		0.000
9:53:00 AM	0.0		0.000
9:54:00 AM	0.0	0.068	0.000
9:55:00 AM	0.0	0.035	0.000
9:56:00 AM	0.0	0.036	0.000
9:57:00 AM	0.0	0.035	0.000
9:58:00 AM	0.0	0.035	0.000
9:59:00 AM	0.0	0.035	0.000
10:00:00 AM	0.0	0.034	0.000
10:01:00 AM	0.0	0.034	0.000
10:02:00 AM	0.0	0.033	0.000
10:03:00 AM	0.0	0.033	0.000
10:04:00 AM	0.0	0.033	0.000
10:05:00 AM	0.1	0.033	0.000
10:06:00 AM	0.1	0.032	0.000
10:07:00 AM	0.1	0.033	0.000
10:08:00 AM	0.2	0.033	0.000
10:09:00 AM	0.2	0.033	0.000
10:10:00 AM	0.3	0.033	0.000
10:11:00 AM	0.3	0.032	0.000
10:12:00 AM	0.3	0.033	0.000
10:13:00 AM	0.4	0.033	0.000
10:14:00 AM	0.4	0.033	0.000
10:15:00 AM	0.5	0.032	0.000
10:16:00 AM	0.5	0.032	0.000
10:17:00 AM	0.5	0.033	0.000
10:18:00 AM	0.5	0.032	0.000
10:19:00 AM	0.5	0.032	0.000
10:20:00 AM	0.6	0.032	0.000
10:21:00 AM	0.6	0.032	0.000
10:22:00 AM	0.6	0.032	0.000
10:23:00 AM	0.7	0.032	0.000
10:24:00 AM	0.6	0.032	0.000
10:25:00 AM	0.7	0.032	0.000
10:26:00 AM	0.9	0.032	0.000
10:27:00 AM	0.9	0.033	0.000
10:28:00 AM	0.9	0.034	0.000
10:29:00 AM	0.9	0.037	0.000
10:30:00 AM	0.9	0.037	0.000
10:31:00 AM	1.0	0.035	0.000
10:32:00 AM	1.0	0.035	0.000
10:33:00 AM	1.0	0.035	0.000
10:34:00 AM	1.0	0.034	0.000
10:35:00 AM	0.9	0.034	0.000
10:36:00 AM	0.8	0.034	0.000
10:37:00 AM	0.8	0.034	0.000
10:38:00 AM	0.9	0.034	0.000
10:39:00 AM	0.8	0.033	0.000
10:40:00 AM	0.9	0.033	0.000
10:41:00 AM	0.9	0.033	0.000
10:42:00 AM	0.9	0.033	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

December 3, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:43:00 AM	0.9	0.032	0.000
10:44:00 AM	0.9	0.032	0.000
10:45:00 AM	1.1	0.032	0.000
10:46:00 AM	1.6	0.034	0.000
10:47:00 AM	1.0	0.035	0.000
10:48:00 AM	1.0	0.038	0.000
10:49:00 AM	1.4	0.040	0.000
10:50:00 AM	1.0	0.037	0.000
10:51:00 AM	1.0	0.039	0.000
10:52:00 AM	1.0	0.036	0.000
10:53:00 AM	1.0	0.040	0.000
10:54:00 AM	1.0	0.036	0.000
10:55:00 AM	1.0	0.033	0.000
10:56:00 AM	1.0	0.033	0.000
10:57:00 AM	1.0	0.031	0.000
10:58:00 AM		0.034	0.000
10:59:00 AM		0.034	0.000
11:00:00 AM	0.1	0.035	0.000
11:01:00 AM	0.0	0.036	0.000
11:02:00 AM	0.0	0.036	0.000
11:03:00 AM	0.0	0.033	0.000
11:04:00 AM	0.2	0.038	0.000
11:05:00 AM	0.0	0.045	0.000
11:06:00 AM	0.0	0.032	0.000
11:07:00 AM	0.0	0.031	0.000
11:08:00 AM	0.0	0.031	0.000
11:09:00 AM	0.0	0.031	0.000
11:10:00 AM	0.0	0.031	0.000
11:11:00 AM	0.0	0.031	0.000
11:12:00 AM	0.0	0.031	0.000
11:13:00 AM	0.0	0.031	0.000
11:14:00 AM	0.0	0.031	0.000
11:15:00 AM	0.0	0.031	0.000
11:16:00 AM	0.0	0.031	0.000
11:17:00 AM	0.0	0.032	0.000
11:18:00 AM	0.0	0.031	0.000
11:19:00 AM	0.0	0.032	0.000
11:20:00 AM	0.0	0.032	0.000
11:21:00 AM	0.0	0.032	0.000
11:22:00 AM	0.0	0.032	0.000
11:23:00 AM	0.0	0.032	0.000
11:24:00 AM	0.0	0.032	0.000
11:25:00 AM	0.0	0.032	0.000
11:26:00 AM	0.0	0.032	0.000
11:27:00 AM	0.0	0.032	0.000
11:28:00 AM	0.0	0.033	0.000
11:29:00 AM	0.0	0.034	0.000
11:30:00 AM	0.1	0.034	0.000
11:31:00 AM	0.1	0.034	0.000
11:32:00 AM	0.0	0.034	0.000
11:33:00 AM	0.0	0.032	0.000
11:34:00 AM	0.0	0.033	0.000
11:35:00 AM	0.0	0.033	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

December 3, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:36:00 AM	0.0	0.033	0.000
11:37:00 AM	0.0	0.033	0.000
11:38:00 AM	0.1	0.033	0.000
11:39:00 AM	0.0	0.034	0.000
11:40:00 AM	0.0	0.033	0.000
11:41:00 AM	0.0	0.033	0.000
11:42:00 AM	0.0	0.033	0.000
11:43:00 AM	0.0	0.033	0.000
11:44:00 AM	0.0	0.032	0.000
11:45:00 AM	0.0	0.034	0.000
11:46:00 AM	0.0	0.033	0.000
11:47:00 AM	0.0	0.033	0.000
11:48:00 AM	0.0	0.033	0.000
11:49:00 AM	0.0	0.033	0.000
11:50:00 AM	0.0	0.032	0.000
11:51:00 AM	0.0	0.034	0.000
11:52:00 AM	0.0	0.033	0.000
11:53:00 AM	0.0	0.032	0.000
11:54:00 AM	0.0	0.031	0.000
11:55:00 AM	0.0	0.031	0.000
11:56:00 AM	0.0	0.032	0.000
11:57:00 AM	0.0	0.032	0.000
11:58:00 AM	0.0	0.031	0.000
11:59:00 AM	0.1	0.031	0.000
12:00:00 PM	0.0	0.030	0.000
12:01:00 PM	0.0	0.032	0.000
12:02:00 PM	0.0	0.031	0.000
12:03:00 PM	0.0	0.031	0.000
12:04:00 PM	0.0	0.031	0.000
12:05:00 PM	0.0	0.031	0.000
12:06:00 PM	0.0	0.031	0.000
12:07:00 PM	0.0	0.031	0.000
12:08:00 PM	0.0	0.029	0.000
12:09:00 PM	0.0	0.030	0.000
12:10:00 PM	0.0	0.030	0.000
12:11:00 PM	0.0	0.030	0.000
12:12:00 PM	0.0	0.030	0.000
12:13:00 PM	0.0	0.032	0.000
12:14:00 PM	0.0	0.030	0.000
12:15:00 PM	0.0	0.030	0.000
12:16:00 PM	0.0	0.030	0.000
12:17:00 PM	0.0	0.030	0.000
12:18:00 PM	0.0	0.029	0.000
12:19:00 PM	0.0	0.029	0.000
12:20:00 PM	0.0	0.030	0.000
12:21:00 PM	0.0	0.029	0.000
12:22:00 PM	0.0	0.029	0.000
12:23:00 PM	0.0	0.029	0.000
12:24:00 PM	0.0	0.029	0.000
12:25:00 PM	0.0	0.031	0.000
12:26:00 PM	0.0	0.030	0.000
12:27:00 PM	0.0	0.029	0.000
12:28:00 PM	0.0	0.028	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

December 3, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:29:00 PM	0.0	0.028	0.000
12:30:00 PM	0.0	0.027	0.000
12:31:00 PM	0.0	0.028	0.000
12:32:00 PM	0.0	0.028	0.000
12:33:00 PM	0.0	0.027	0.000
12:34:00 PM	0.0	0.027	0.000
12:35:00 PM	0.0	0.026	0.000
12:36:00 PM	0.0	0.026	0.000
12:37:00 PM	0.0	0.026	0.000
12:38:00 PM	0.0	0.026	0.000
12:39:00 PM	0.0	0.026	0.000
12:40:00 PM	0.0	0.026	0.000
12:41:00 PM	0.0	0.026	0.000
12:42:00 PM	0.0	0.026	0.000
12:43:00 PM	0.0	0.025	0.000
12:44:00 PM	0.0	0.025	0.000
12:45:00 PM	0.0	0.025	0.000
12:46:00 PM	0.0	0.025	0.000
12:47:00 PM	0.0	0.025	0.000
12:48:00 PM	0.0	0.025	0.000
12:49:00 PM	0.0	0.025	0.000
12:50:00 PM	0.0	0.026	0.000
12:51:00 PM	0.0	0.026	0.000
12:52:00 PM	0.0	0.026	0.000
12:53:00 PM	0.0	0.025	0.000
12:54:00 PM	0.0	0.025	0.000
12:55:00 PM	0.0	0.024	0.000
12:56:00 PM	0.0	0.023	0.000
12:57:00 PM	0.0	0.023	0.000
12:58:00 PM	0.0	0.023	0.000
12:59:00 PM	0.0	0.023	0.000
1:00:00 PM	0.0	0.024	0.000
1:01:00 PM	0.0	0.023	0.000
1:02:00 PM	0.0	0.023	0.000
1:03:00 PM	0.0	0.022	0.000
1:04:00 PM	0.0	0.023	0.000
1:05:00 PM	0.0	0.023	0.000
1:06:00 PM	0.0	0.023	0.000
1:07:00 PM	0.0	0.022	0.000
1:08:00 PM	0.0	0.023	0.000
1:09:00 PM	0.0	0.022	0.000
1:10:00 PM	2.7	0.024	0.000
1:11:00 PM	0.0	0.023	0.000
1:12:00 PM	0.0	0.022	0.000
1:13:00 PM	0.0	0.022	0.000
1:14:00 PM	0.0	0.024	0.000
1:15:00 PM	0.0	0.023	0.000
1:16:00 PM	0.0	0.024	0.000
1:17:00 PM	0.0	0.025	0.000
1:18:00 PM	0.0	0.026	0.000
1:19:00 PM	0.0	0.024	0.000
1:20:00 PM	0.0	0.023	0.000
1:21:00 PM	0.0	0.023	0.000

LIRR Group D Substations

Bayside Substation

Work Zone

December 3, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:22:00 PM	0.0	0.022	0.000
1:23:00 PM	0.0	0.022	0.000
1:24:00 PM	0.0	0.022	0.000
1:25:00 PM	0.0	0.022	0.000
1:26:00 PM	0.0	0.021	0.000
1:27:00 PM	0.0	0.022	0.000
1:28:00 PM	0.0	0.022	0.000
1:29:00 PM	0.0	0.023	0.000
1:30:00 PM	0.0	0.026	0.000
1:31:00 PM	0.0	0.023	0.000
1:32:00 PM	0.0	0.023	0.000
1:33:00 PM	0.0	0.024	0.000
1:34:00 PM	0.0	0.022	0.000
1:35:00 PM	0.0	0.022	0.000
1:36:00 PM	0.0	0.022	0.000
1:37:00 PM	0.0	0.022	0.000
1:38:00 PM	0.0	0.022	0.000
1:39:00 PM	0.0	0.022	0.000
1:40:00 PM	0.0	0.024	0.000
1:41:00 PM	0.0	0.023	0.000
1:42:00 PM	0.0	0.025	0.000
1:43:00 PM	0.0	0.028	0.000
1:44:00 PM	0.0	0.029	0.000
1:45:00 PM	0.0	0.028	0.000
1:46:00 PM	0.0	0.025	0.000
1:47:00 PM	0.0	0.024	0.000
1:48:00 PM	0.0	0.024	0.000
1:49:00 PM	0.0	0.023	0.000
1:50:00 PM	0.0	0.023	0.000
1:51:00 PM	0.0	0.023	0.000
1:52:00 PM	0.0	0.023	0.000
1:53:00 PM	0.0	0.024	0.000
1:54:00 PM	0.0	0.023	0.000
1:55:00 PM	0.0	0.023	0.000
1:56:00 PM	0.0	0.023	0.000
1:57:00 PM	0.0	0.023	0.000
1:58:00 PM	0.0	0.023	0.000
1:59:00 PM	0.0	0.022	0.000
2:00:00 PM	0.0	0.023	0.000
2:01:00 PM	0.0	0.022	0.000
2:02:00 PM	0.0	0.023	0.000
2:03:00 PM	0.0	0.022	0.000
2:04:00 PM	0.0	0.024	0.000
2:05:00 PM	0.0	0.023	0.000
2:06:00 PM	0.0	0.023	0.000
2:07:00 PM	0.0	0.023	0.000
2:08:00 PM	0.0	0.023	0.000
2:09:00 PM	0.0	0.023	0.000

LIRR Group D Substations

Bayside Substation

Downwind

December 3, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
9:44:00 AM	0.0		0.000
9:45:00 AM	0.0		0.000
9:46:00 AM	0.0		0.000
9:47:00 AM	0.0	0.050	0.000
9:48:00 AM	0.0	0.038	0.000
9:49:00 AM	0.0	0.038	0.000
9:50:00 AM	0.0	0.038	0.000
9:51:00 AM	0.0	0.038	0.000
9:52:00 AM	0.0	0.039	0.000
9:53:00 AM	0.0	0.039	0.000
9:54:00 AM	0.0	0.039	0.000
9:55:00 AM	0.0	0.039	0.000
9:56:00 AM	0.0	0.039	0.000
9:57:00 AM	0.0	0.038	0.000
9:58:00 AM	0.0	0.038	0.000
9:59:00 AM	0.0	0.039	0.000
10:00:00 AM	0.0	0.039	0.000
10:01:00 AM	0.0	0.039	0.000
10:02:00 AM	0.0	0.038	0.000
10:03:00 AM	0.0	0.039	0.000
10:04:00 AM	0.0	0.038	0.000
10:05:00 AM	0.0	0.039	0.000
10:06:00 AM	0.1	0.038	0.000
10:07:00 AM	0.1	0.039	0.000
10:08:00 AM	0.1	0.038	0.000
10:09:00 AM	0.1	0.039	0.000
10:10:00 AM	0.1	0.038	0.000
10:11:00 AM	0.1	0.038	0.000
10:12:00 AM	0.1	0.038	0.000
10:13:00 AM	0.2	0.038	0.000
10:14:00 AM	0.2	0.038	0.000
10:15:00 AM	0.2	0.038	0.000
10:16:00 AM	0.2	0.038	0.000
10:17:00 AM	0.2	0.037	0.000
10:18:00 AM	0.2	0.037	0.000
10:19:00 AM	0.2	0.037	0.000
10:20:00 AM	0.2	0.038	0.000
10:21:00 AM	0.2	0.038	0.000
10:22:00 AM	0.2	0.038	0.000
10:23:00 AM	0.2	0.037	0.000
10:24:00 AM	0.3	0.037	0.000
10:25:00 AM	0.2	0.037	0.000
10:26:00 AM	0.4	0.038	0.000
10:27:00 AM	0.5	0.038	0.000
10:28:00 AM	1.2	0.042	0.000
10:29:00 AM	0.4	0.045	0.000
10:30:00 AM	0.4	0.042	0.000
10:31:00 AM	0.4	0.039	0.000
10:32:00 AM	0.4	0.039	0.000
10:33:00 AM	0.4	0.041	0.000
10:34:00 AM	0.5	0.045	0.000
10:35:00 AM	0.3	0.040	0.000

LIRR Group D Substations

Bayside Substation

Downwind

December 3, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
10:36:00 AM	0.3	0.038	0.000
10:37:00 AM	0.4	0.038	0.000
10:38:00 AM	0.4	0.039	0.000
10:39:00 AM	0.4	0.038	0.000
10:40:00 AM	0.4	0.039	0.000
10:41:00 AM	0.4	0.039	0.000
10:42:00 AM	0.4	0.038	0.000
10:43:00 AM	0.4	0.038	0.000
10:44:00 AM	0.4	0.038	0.000
10:45:00 AM	0.4	0.038	0.000
10:46:00 AM	0.4	0.038	0.000
10:47:00 AM	0.4	0.038	0.000
10:48:00 AM	0.4	0.044	0.000
10:49:00 AM	0.5	0.042	0.000
10:50:00 AM	0.4	0.042	0.000
10:51:00 AM	0.5	0.044	0.000
10:52:00 AM	0.5	0.039	0.000
10:53:00 AM	0.4	0.038	0.000
10:54:00 AM	0.4	0.038	0.000
10:55:00 AM	0.5	0.038	0.000
10:56:00 AM	0.4	0.038	0.000
10:57:00 AM	0.4	0.037	0.000
10:58:00 AM	0.4	0.036	0.000
10:59:00 AM	0.4	0.036	0.000
11:00:00 AM	0.4	0.036	0.000
11:01:00 AM	0.5	0.037	0.000
11:02:00 AM		0.038	0.000
11:03:00 AM		0.037	0.000
11:04:00 AM	0.0	0.037	0.000
11:05:00 AM	0.0	0.038	0.000
11:06:00 AM	0.1	0.037	0.000
11:07:00 AM	0.0	0.036	0.000
11:08:00 AM	0.0	0.036	0.000
11:09:00 AM	0.0	0.035	0.000
11:10:00 AM	0.0	0.035	0.000
11:11:00 AM	0.0	0.035	0.000
11:12:00 AM	0.0	0.036	0.000
11:13:00 AM	0.0	0.035	0.000
11:14:00 AM	0.0	0.035	0.000
11:15:00 AM	0.0	0.035	0.000
11:16:00 AM	0.0	0.036	0.000
11:17:00 AM	0.0	0.035	0.000
11:18:00 AM	0.0	0.036	0.000
11:19:00 AM	0.0	0.035	0.000
11:20:00 AM	0.0	0.036	0.000
11:21:00 AM	0.0	0.036	0.000
11:22:00 AM	0.0	0.036	0.000
11:23:00 AM	0.0	0.037	0.000
11:24:00 AM	0.0	0.037	0.000
11:25:00 AM	0.0	0.036	0.000
11:26:00 AM	0.0	0.037	0.000
11:27:00 AM	0.1	0.036	0.000
11:28:00 AM	0.0	0.037	0.000

LIRR Group D Substations

Bayside Substation

Downwind

December 3, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
11:29:00 AM	0.1	0.042	0.000
11:30:00 AM	0.1	0.040	0.000
11:31:00 AM	0.1	0.040	0.000
11:32:00 AM	0.1	0.040	0.000
11:33:00 AM	0.1	0.037	0.000
11:34:00 AM	0.1	0.037	0.000
11:35:00 AM	0.1	0.044	0.000
11:36:00 AM	0.1	0.039	0.000
11:37:00 AM	0.1	0.041	0.000
11:38:00 AM	0.1	0.038	0.000
11:39:00 AM	0.3	0.042	0.000
11:40:00 AM	0.3	0.041	0.000
11:41:00 AM	0.0	0.038	0.000
11:42:00 AM	0.1	0.037	0.000
11:43:00 AM	0.1	0.037	0.000
11:44:00 AM	0.1	0.038	0.000
11:45:00 AM	0.0	0.038	0.000
11:46:00 AM	0.1	0.038	0.000
11:47:00 AM	0.1	0.037	0.000
11:48:00 AM	0.1	0.037	0.000
11:49:00 AM	0.1	0.036	0.000
11:50:00 AM	0.1	0.037	0.000
11:51:00 AM	0.2	0.036	0.000
11:52:00 AM	0.1	0.038	0.000
11:53:00 AM	0.1	0.039	0.000
11:54:00 AM	0.1	0.038	0.000
11:55:00 AM	0.1	0.037	0.000
11:56:00 AM	0.1	0.036	0.000
11:57:00 AM	0.1	0.039	0.000
11:58:00 AM	0.1	0.035	0.000
11:59:00 AM	0.1	0.035	0.000
12:00:00 PM	0.1	0.034	0.000
12:01:00 PM	0.1	0.037	0.000
12:02:00 PM	0.1	0.036	0.000
12:03:00 PM	0.2	0.035	0.000
12:04:00 PM	0.2	0.035	0.000
12:05:00 PM	0.2	0.035	0.000
12:06:00 PM	0.1	0.035	0.000
12:07:00 PM	0.2	0.035	0.000
12:08:00 PM	0.2	0.034	0.000
12:09:00 PM	0.1	0.034	0.000
12:10:00 PM	0.2	0.042	0.000
12:11:00 PM	0.2	0.041	0.000
12:12:00 PM	0.1	0.036	0.000
12:13:00 PM	0.2	0.040	0.000
12:14:00 PM	0.1	0.048	0.000
12:15:00 PM	0.2	0.036	0.000
12:16:00 PM	0.2	0.035	0.000
12:17:00 PM	0.2	0.034	0.000
12:18:00 PM	0.4	0.036	0.000
12:19:00 PM	0.2	0.035	0.000
12:20:00 PM	0.2	0.034	0.000
12:21:00 PM	0.1	0.035	0.000

LIRR Group D Substations

Bayside Substation

Downwind

December 3, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
12:22:00 PM	0.2	0.034	0.000
12:23:00 PM	0.2	0.037	0.000
12:24:00 PM	0.2	0.046	0.000
12:25:00 PM	0.2	0.038	0.000
12:26:00 PM	0.2	0.036	0.000
12:27:00 PM	0.2	0.035	0.000
12:28:00 PM	0.2	0.035	0.000
12:29:00 PM	0.2	0.032	0.000
12:30:00 PM	0.2	0.031	0.000
12:31:00 PM	0.2	0.033	0.000
12:32:00 PM	0.2	0.031	0.000
12:33:00 PM	0.2	0.032	0.000
12:34:00 PM	0.2	0.031	0.000
12:35:00 PM	0.1	0.030	0.000
12:36:00 PM	0.2	0.030	0.000
12:37:00 PM	0.1	0.029	0.000
12:38:00 PM	0.2	0.029	0.000
12:39:00 PM	0.2	0.029	0.000
12:40:00 PM	0.2	0.029	0.000
12:41:00 PM	0.2	0.030	0.000
12:42:00 PM	0.2	0.029	0.000
12:43:00 PM	0.2	0.029	0.000
12:44:00 PM	0.2	0.028	0.000
12:45:00 PM	0.2	0.028	0.000
12:46:00 PM	0.2	0.028	0.000
12:47:00 PM	0.2	0.028	0.000
12:48:00 PM	0.2	0.028	0.000
12:49:00 PM	0.2	0.028	0.000
12:50:00 PM	0.2	0.028	0.000
12:51:00 PM	0.2	0.028	0.000
12:52:00 PM	0.2	0.028	0.000
12:53:00 PM	0.2	0.028	0.000
12:54:00 PM	0.2	0.028	0.000
12:55:00 PM	0.2	0.026	0.000
12:56:00 PM	0.2	0.026	0.000
12:57:00 PM	0.2	0.026	0.000
12:58:00 PM	0.2	0.027	0.000
12:59:00 PM	0.2	0.027	0.000
1:00:00 PM	0.2	0.027	0.000
1:01:00 PM	0.2	0.025	0.000
1:02:00 PM	0.2	0.026	0.000
1:03:00 PM	0.2	0.026	0.000
1:04:00 PM	0.2	0.026	0.000
1:05:00 PM	0.2	0.026	0.000
1:06:00 PM	0.2	0.033	0.000
1:07:00 PM	0.2	0.053	0.000
1:08:00 PM	0.2	0.035	0.000
1:09:00 PM	0.3	0.027	0.000
1:10:00 PM	0.2	0.026	0.000
1:11:00 PM	0.3	0.031	0.000
1:12:00 PM	0.3	0.027	0.000
1:13:00 PM	0.2	0.025	0.000
1:14:00 PM	0.2	0.026	0.000

LIRR Group D Substations

Bayside Substation

Downwind

December 3, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m]
1:15:00 PM	0.2	0.027	0.000
1:16:00 PM	0.2	0.027	0.000
1:17:00 PM	0.2	0.029	0.000
1:18:00 PM	0.2	0.031	0.000
1:19:00 PM	0.2	0.028	0.000
1:20:00 PM	0.2	0.026	0.000
1:21:00 PM	0.2	0.026	0.000
1:22:00 PM	0.2	0.028	0.000
1:23:00 PM	0.2	0.025	0.000
1:24:00 PM	0.2	0.025	0.000
1:25:00 PM	0.2	0.025	0.000
1:26:00 PM	0.2	0.025	0.000
1:27:00 PM	0.2	0.024	0.000
1:28:00 PM	0.2	0.025	0.000
1:29:00 PM	0.2	0.026	0.000
1:30:00 PM	0.2	0.028	0.000
1:31:00 PM	0.2	0.027	0.000
1:32:00 PM	0.2	0.026	0.000
1:33:00 PM	0.2	0.026	0.000
1:34:00 PM	0.2	0.025	0.000
1:35:00 PM	0.2	0.025	0.000
1:36:00 PM	0.2	0.025	0.000
1:37:00 PM	0.2	0.024	0.000
1:38:00 PM	0.2	0.025	0.000
1:39:00 PM	0.2	0.026	0.000
1:40:00 PM	0.2	0.027	0.000
1:41:00 PM	0.2	0.028	0.000
1:42:00 PM	0.2	0.032	0.000
1:43:00 PM	0.2	0.039	0.000
1:44:00 PM	0.2	0.034	0.000
1:45:00 PM	0.2	0.032	0.000
1:46:00 PM	0.2	0.027	0.000
1:47:00 PM	0.2	0.026	0.000
1:48:00 PM	0.2	0.029	0.000
1:49:00 PM	0.2	0.027	0.000
1:50:00 PM	0.2	0.027	0.000
1:51:00 PM	0.2	0.027	0.000
1:52:00 PM	0.2	0.025	0.000
1:53:00 PM	0.2	0.026	0.000
1:54:00 PM	0.2	0.025	0.000
1:55:00 PM	0.2	0.025	0.000
1:56:00 PM	0.2	0.027	0.000
1:57:00 PM	0.2	0.026	0.000
1:58:00 PM	0.2	0.025	0.000
1:59:00 PM	0.2	0.027	0.000
2:00:00 PM	0.2	0.025	0.000
2:01:00 PM	0.2	0.026	0.000
2:02:00 PM	0.2	0.026	0.000
2:03:00 PM	0.2	0.026	0.000
2:04:00 PM	0.2	0.025	0.000
2:05:00 PM	0.2	0.025	0.000
2:06:00 PM	0.2	0.025	0.000
2:07:00 PM	0.2	0.025	0.000

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain	X	Overcast		Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From SW ~10 mph	Date:	12/4/20
Project Name:	LIRR Group D Substation Remediation-Bayside Site-V00388-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. Aarco continues to backfill area #3 with $\frac{3}{4}$ inch blue stone, compacting the same over area #3 and the stockpile area. Aarco enters the confined space below the eastern end of the substation to core through the concrete slab to collect endpoint samples BSBEP-1 and BSBEP-2. Aarco drills through the concrete slab on the eastern end of the substation to collect BSBEP-3. All holes within the concrete slab are sealed with concrete after the samples are collected. Aarco took down plywood protections around transformers within area #3. Preferred did not conduct CAMP monitoring or documentation monitoring due to rain and no intrusive excavation work being conducted.

Air Monitoring

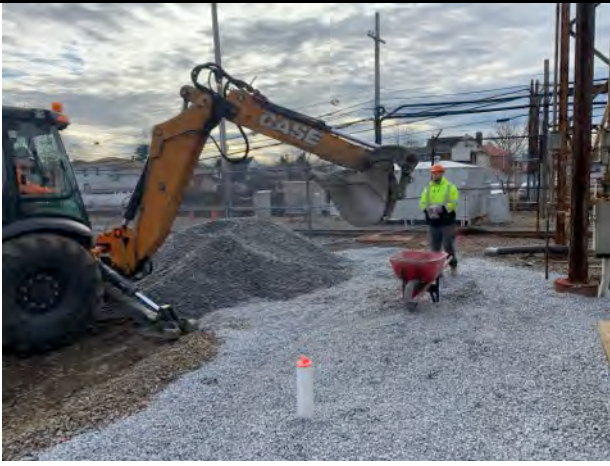
	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/ m ³)	VOC's (ppm)	PM-10 (mg/m ³)	Mercury (mg/m ³)
UP Wind	No Camp Due to Rain/Non-Intrusive Work					
Down Wind						
Work Zone						

Exceedances (Since Last Report): None

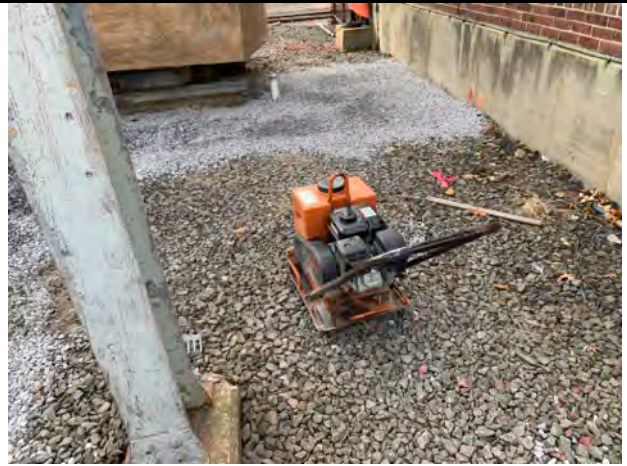
Problems Encountered: None

Planned Activities for the Next Day/ Week:

- Demob the site moving equipment to Cedar Manor substation.



Aarco backfilling ¾ inch blue stone over area #3 and stockpile area.



Aarco compacted all backfill with gas compactor.



Aarco core drilling substation slab to collect BSBEP-2.



Aarco core drilling BSBEP-3.

Monitoring Locations

APPENDIX D

Imported Materials Documentation

From: [Makowski, Jeffrey M](#)
To: [Roger Terlaga \(rterlaga@aarcoenvironmental.com\)](mailto:rterlaga@aarcoenvironmental.com); [Steve Plofker \(splofker@aarcoenvironmental.com\)](mailto:splofker@aarcoenvironmental.com)
Cc: [Albano, Albert](#); [Hunt, Claire](#)
Subject: FW: LIRR Group D Substations (Bayside and Cedar Manor) Clean Fill Analysis
Date: Thursday, January 30, 2020 11:24:38 AM

Roger / Steve,

Please see the below approval from the NYSDEC for the proposed clean fill from 110 Sand and Gravel.

Thanks,
Jeff

Jeff Makowski
Resident Engineer
LIRR – Department of Program Management
Office: (718) 558-4937
Cell: (347) 804-7400

From: Post, Charles H (DEC) [mailto:charles.post@dec.ny.gov]
Sent: Thursday, January 30, 2020 10:10 AM
To: Makowski, Jeffrey M <jmakows@lirr.org>
Cc: Albano, Albert <aalbano@lirr.org>
Subject: RE: LIRR Group D Substations (Bayside and Cedar Manor) Clean Fill Analysis

Good Morning –
I have reviewed your submission and didn't see anything out of the ordinary. The use of this material is approved.
Best Regards,
Charlie

Charles Post
Project Manager, Division of Environmental Remediation

New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233-1706
P: 518-402-9793 | Charles.Post@dec.ny.gov

www.dec.ny.gov |  | 

From: Makowski, Jeffrey M <jmakows@lirr.org>
Sent: Wednesday, January 29, 2020 10:42 AM
To: Post, Charles H (DEC) <charles.post@dec.ny.gov>
Cc: Albano, Albert <aalbano@lirr.org>

Subject: FW: LIRR Group D Substations (Bayside and Cedar Manor) Clean Fill Analysis

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Charlie,

Good morning; Al and I just wanted to follow-up on this submission as we have not yet heard back. Can you please provide an update on the status of review/approval so we may let our remediation contractor know?

Thanks,
Jeff (and Al)

Jeff Makowski
Resident Engineer
LIRR – Department of Program Management
Office: (718) 558-4937
Cell: (347) 804-7400

From: Makowski, Jeffrey M
Sent: Thursday, January 9, 2020 3:16 PM
To: Post, Charles H (DEC) (charles.post@dec.ny.gov) <charles.post@dec.ny.gov>
Cc: Albano, Albert <aalbano@lirr.org>
Subject: LIRR Group D Substations (Bayside and Cedar Manor) Clean Fill Analysis

Charlie,

As we have discussed, for your review and approval, please find the attached clean fill sampling and analysis package prepared by our selected remediation contractor (AARCO Environmental) for the use of clean fill from 110 Sand and Gravel for the LIRR Group D Substations (Bayside and Cedar Manor) remediation project consisting of the following:

- Completed NYSDEC Request to Import/Reuse Fill or Soil Form
- York Analytical Data Package dated 12/10/2019
- York EDD for Analytical Data Package dated 12/10/2019
- York EDD for Lab Data Comparison to NYSDEC SCOs
- York Analytical Data Package for Emerging Contaminants dated 12/30/2019
- York EDD for Analytical Data Package for Emerging Contaminants dated 12/30/2019
- 110 Sand and Gravel NYSDEC Sand Mining Permit documentation

As indicated in the attached, 110 Sand and Gravel is a NYSDEC-permitted sand quarry and the proposed fill material is from a clean, virgin source. The soil sampling analytical results indicate that all concentrations were reported as non-detect and/or below the Unrestricted Use Soil Cleanup Objectives (SCOs). Additionally, all sampling results for Emerging Contaminants (PFAS and 1,4-Dioxane) were reported as non-detect.

If you have any questions, please do not hesitate to contact myself and/or Al Albano, LIRR Senior Project Manager.

Regards,
Jeff

Jeff Makowski
Resident Engineer
LIRR – Department of Program Management
Office: (718) 558-4937
Cell: (347) 804-7400

110 Sand Company, 136 Spagnoli Road, Melville, NY 11747
Concrete Sand

Ticket	Date	Quantity (tons)
635692	10/19/2020	21.3
635725	10/19/2020	19.71
635854	10/20/2020	20.3
638539	11/11/2020	20.31
639319	11/17/2020	19.5
639819	11/19/2020	21.41
640954	11/30/2020	23.15
641382	12/3/2020	8.81
Total		154.49

Tilcon New York Inc., 162 Old Mill Road, West Nyack, NY 10994
Stone ASTM 57/67 Clinton Point

Ticket	Date	Quantity (tons)
21320036	10/27/2020	20.2
21320059	10/27/2020	20.1
21322015	12/3/2020	20.15
21322081	12/4/2020	15.15
21322027	12/3/2020	20.3
Total		95.9

110 Sand Company136 Spagnoli Road
Melville, NY 11747**Business Office:**
170 Cabot Street
West Babylon NY, 11704Ticket #: 635692
Date: 10/19/2020 7:52 AM
Phone: (631) 249-4108
Fax: (631) 249-4126Customer: 999120
AARCO ENVIRONMENTAL SVC. CORP
50 GEAR AVENUE
LINDENHURST NY, 11757Manifest #:
PO #:
Job #Order Number: 18
CONCRETE SAND - LIRR
Tons: 21.300
Loads: 19462 - AARCO#D689 - 21Y - 19462MH
MTF - Michael Fritz License#602339
110 Sand Co - Suffolk**Payment Information**

Type	Amount	Check Number
Credit Card	\$681.60	31019

Remarks:

Material	Location Address	Quantity	Price	Misc \$	Tax \$	Line Total \$
110 CONC. SAND (A)-10-34F		21.3 tn	\$32.00	\$0.00	\$0.00	\$681.60

Gross	Tare	Net	Time IN	Time OUT
35.95 Tn	14.65 Tn	21.30 Tn	7:42 AM	7:51 AM
71,900 Lb	29,300 lb	42,600 Lb		

Driver

INSPECTION**110 Sand Company**136 Spagnoli Road
Melville, NY 11747**Business Office:**
170 Cabot Street
West Babylon NY, 11704Ticket #: 635725
Date: 10/19/2020 10:16 AM
Phone: (631) 249-4108
Fax: (631) 249-4126Customer: 999120
AARCO ENVIRONMENTAL SVC. CORP
50 GEAR AVENUE
LINDENHURST NY, 11757Manifest #:
PO #:
Job #Order Number: 18
CONCRETE SAND - LIRR
Tons: 41.010
Loads: 29462 - AARCO#D689 - 21Y - 19462MH
MTF - Michael Fritz License#602339
110 Sand Co - Suffolk**Payment Information**

Type	Amount	Check Number
Credit Card	\$630.72	31019

Remarks:

Material	Location Address	Quantity	Price	Misc \$	Tax \$	Line Total \$
110 CONC. SAND (A)-10-34F		19.71 tn	\$32.00	\$0.00	\$0.00	\$630.72

Gross	Tare	Net	Time IN	Time OUT
34.36 Tn	14.65 Tn	19.71 Tn	10:09 AM	10:16 AM
68,720 Lb	29,300 lb	39,420 Lb		

110 Sand Company136 Spagnoli Road
Melville, NY 11747**Business Office:**
170 Cabot Street
West Babylon NY, 11704

Ticket #: 635854

Date: 10/20/2020 7:57 AM

Phone: (631) 249-4108

Fax: (631) 249-4126

Customer: 999120

AARCO ENVIRONMENTAL SVC. CORP
50 GEAR AVENUE
LINDENHURST NY, 11757

Manifest #:

PO #:

Job #

Order Number: 18

CONCRETE SAND - LIRR

Tons: 61.310

Loads: 3

19462 - AARCO#689 - 19462MH

MTF - Michael Fritz License#602339

110 Sand Co - Suffolk

Remarks:

Payment Information

Type	Amount	Check Number
Credit Card	\$649.60	31019

Material	Location Address	Quantity	Price	Misc \$	Tax \$	Line Total \$
110 CONC. SAND (A)-10-34F		20.3 tn	\$32.00	\$0.00	\$0.00	\$649.60

Gross	Tare	Net	Time IN	Time OUT
35.05 Tn	14.75 Tn	20.30 Tn	7:52 AM	7:56 AM
70,100 Lb	29,500 lb	40,600 Lb		

Driver

INSPECTION

110 Sand Company136 Spagnoli Road
Melville, NY 11747**Business Office:**
170 Cabot Street
West Babylon NY, 11704

Ticket #: 638539

Date: 11/11/2020 8:17 AM

Phone: (631) 249-4108

Fax: (631) 249-4126

Customer: 999120

AARCO ENVIRONMENTAL SVC. CORP
50 GEAR AVENUE
LINDENHURST NY, 11757

Mani. #:

PO #:

Job #

Order Number: 18

CONCRETE SAND - LIRR

Tons: 81.620

Loads: 4

9462 - AARCO#D689 - 21Y - 19462MH

MTF - Michael Fritz License#602339

110 Sand Co - Suffolk

Remarks:

Payment Information

Type	Amount	Check Number
Credit Card	\$649.92	31019

Material	Location Address	Quantity	Price	Misc \$	Tax \$	Line Total \$
110 CONC. SAND (A)-10-34F		20.31 tn	\$32.00	\$0.00	\$0.00	\$649.92

Gross	Tare	Net	Time IN	Time OUT
34.96 Tn	14.65 Tn	20.31 Tn	8:04 AM	8:16 AM
69,920 Lb	29,300 lb	40,620 Lb		

110 Sand Company136 Spagnoli Road
Melville, NY 11747**Business Office:**
170 Cabot Street
West Babylon NY, 11704Ticket #: 639319
Date: 11/17/2020 7:59 AM
Phone: (631) 249-4108
Fax: (631) 249-4126Customer: 999120
AARCO ENVIRONMENTAL SVC. CORP
50 GEAR AVENUE
LINDENHURST NY, 11757Manifest #:
PO #:
Job #Order Number: 18
CONCRETE SAND - LIRR
Tons: 101.120
Loads: 519462 - AARCO#689 - 19462MH
MTF - Michael Fritz License#602339
110 Sand Co - Suffolk**Payment Information**

Type	Amount	Check Number
Credit Card	\$624.00	31019

Remarks:

Material	Location Address	Quantity	Price	Misc \$	Tax \$	Line Total \$
110 CONC. SAND (A)-10-34F		19.5 tn	\$32.00	\$0.00	\$0.00	\$624.00

Gross	Tare	Net	Time IN	Time OUT
34.22 Tn	14.72 Tn	19.50 Tn	7:54 AM	7:58 AM
68,440 Lb	29,440 lb	39,000 Lb		

Driver

INSPECTION

110 Sand Company136 Spagnoli Road
Melville, NY 11747**Business Office:**
170 Cabot Street
West Babylon NY, 11704Ticket #: 639819
Date: 11/19/2020 7:56 AM
Phone: (631) 249-4108
Fax: (631) 249-4126Customer: 999120
AARCO ENVIRONMENTAL SVC. CORP
50 GEAR AVENUE
LINDENHURST NY, 11757Manifest #:
PO #:
Job #Order Number: 18
CONCRETE SAND - LIRR
Tons: 122.530
Loads: 619462 - AARCO#689 - 19462MH
BCW - Bryan Winter Lic.#604948
110 Sand Co - Suffolk**Payment Information**

Type	Amount	Check Number
Credit Card	\$685.12	31019

Remarks:

Material	Location Address	Quantity	Price	Misc \$	Tax \$	Line Total \$
110 CONC. SAND (A)-10-34F		21.41 tn	\$32.00	\$0.00	\$0.00	\$685.12

Gross	Tare	Net	Time IN	Time OUT
39.68 Tn	18.27 Tn	21.41 Tn	7:42 AM	7:55 AM
79,360 Lb	36,540 lb	42,820 Lb		

110 Sand Company136 Spagnoli Road
Melville, NY 11747**Business Office:**
170 Cabot Street
West Babylon NY, 11704Ticket #: 640954
Date: 11/30/2020 6:39 AM
Phone: (631) 249-4108
Fax: (631) 249-4126Customer: 999120
AARCO ENVIRONMENTAL SVC. CORP
50 GEAR AVENUE
LINDENHURST NY, 11757Manifest #:
PO #:
Job #Order Number: 18
CONCRETE SAND - LIRR
Tons: 145.680
Loads: 7

9462 - AARCO#D689 - 21Y - 19462MH

MTF - Michael Fritz License#602339

110 Sand Co - Suffolk

Remarks:

Payment Information

Type	Amount	Check Number
Credit Card	\$740.80	31019

Material	Location Address	Quantity	Price	Misc \$	Tax \$	Line Total \$
110 CONC. SAND (A)-10-34F		23.15 tn	\$32.00	\$0.00	\$0.00	\$740.80

Gross	Tare	Net	Time IN	Time OUT
38 Tn	15 Tn	23.00 Tn	6:30 AM	6:39 AM
75,600 Lb	29,300 lb	46,300 Lb		

Driver

110 Sand Company136 Spagnoli Road
Melville, NY 11747**Business Office:**
170 Cabot Street
West Babylon NY, 11704Ticket #: 641382
Date: 12/3/2020 7:47 AM
Phone: (631) 249-4108
Fax: (631) 249-4126Customer: 999120
AARCO ENVIRONMENTAL SVC. CORP
50 GEAR AVENUE
LINDENHURST NY, 11757Manifest #:
PO #:
Job #Order Number: 18
CONCRETE SAND - LIRR
Tons: 154.490
Loads: 8

9462 - AARCO#D689 - 21Y - 19462MH

MTF - Michael Fritz License#602339

110 Sand Co - Suffolk

Remarks:

Payment Information

Type	Amount	Check Number
Credit Card	\$281.92	31019

Material	Location Address	Quantity	Price	Misc \$	Tax \$	Line Total \$
110 CONC. SAND (A)-10-34F		8.81 tn	\$32.00	\$0.00	\$0.00	\$281.92

Gross	Tare	Net	Time IN	Time OUT
23 Tn	15 Tn	9.00 Tn	7:43 AM	7:47 AM
46,920 Lb	29,300 lb	17,620 Lb		



A CRH COMPANY

TILCON NEW YORK INC.

162 OLD MILL ROAD
WEST NYACK, NY 10994
New York Orders : (800) 872-7762
New Jersey Orders : (800) 789-7625

Ticket #: 21320036



Ticket #	Date	Time	Dispatch	Plant #	Plant Description	Source	Facility ID
21320036	10/27/2020	09:24		00213	Flushing Agg		
Sold To: Cash Sales- Flushing Job Description:				Customer #	Order #	Purchase Order	
				99114			
				Zone	Truck #	Hauler	
					19462MH	888888 FOB Vendor	
Product #	Product Description				DOT Mix ID	Delivery Method	
1014035	ASTM 57/67 CLINTON POINT					Pickup	

BAYSIDE YARD

Loads: 1 **Accum Amount:** 20.20 Tons 18.33 Metric Tonnes

GROSS: 65,400 L
TARE: 25,000 L
NET: 40,400 L

UNIT PRICE: 36.96
SUBTOTAL: 746.59
FREIGHT: 0.00
TAX: 66.26
TOTAL: 812.85

This Load: 20.20 Tons 18.33 Metric Tonnes

Weighmaster Chris Pellicci

TILCON NEW YORK, INC. ISSUES THIS RECEIPT SOLELY FOR THE PURPOSE OF ESTABLISHING WEIGHT. OPERATION OF THIS VEHICLE IN EXCESS OF ALLOWABLE LEGAL PERMITS MAY RESULT IN DELAY OF THE VEHICLE AND/OR ARREST OF ITS OPERATOR. WE ARE NOT RESPONSIBLE FOR DAMAGE WHEN DELIVERY IS ORDERED OFF PUBLIC ROADS ANY DAMAGE WILL BE CHARGED TO THE CUSTOMER

Received By: _____

Driver Name: _____



A CRH COMPANY

TILCON NEW YORK INC..

162 OLD MILL ROAD
WEST NYACK, NY 10994
New York Orders : (800) 872-7762
New Jersey Orders : (800) 789-7625

Ticket #: 21320059



Ticket #	Date	Time	Dispatch	Plant #	Plant Description	Source	Facility ID
21320059	10/27/2020	11:26		00213	Flushing Agg		
Sold To: Cash Sales- Flushing Job Description:				Customer #	Order #	Purchase Order	
				99114			
				Zone	Truck #	Hauler	
					19462MH	888888 FOB Vendor	
Product #	Product Description				DOT Mix ID	Delivery Method	
1014035	ASTM 57/67 CLINTON POINT					Pickup	

BAYSIDE YARD

Loads: 2 Accum Amount: 40.30 Tons 36.56 Metric Tonnes

GROSS: 65,200 L
TARE: 25,000 L
NET: 40,200 L

UNIT PRICE: 36.96
SUBTOTAL: 742.90
FREIGHT: 0.00
TAX: 65.93
TOTAL: 808.83

This Load: 20.10 Tons 18.23 Metric Tonnes

Weighmaster Chris Pellicci

TILCON NEW YORK, INC. ISSUES THIS RECEIPT SOLELY FOR THE PURPOSE OF ESTABLISHING WEIGHT OPERATION OF THIS VEHICLE IN EXCESS OF ALLOWABLE LEGAL PERMITS MAY RESULT IN DELAY OF THE VEHICLE AND/OR ARREST OF ITS OPERATOR. WE ARE NOT RESPONSIBLE FOR DAMAGE WHEN DELIVERY IS ORDERED OFF PUBLIC ROADS ANY DAMAGE WILL BE CHARGED TO THE CUSTOMER

Received By: _____

Driver Name: _____

TILCON NEW YORK INC.

162 OLD MILL ROAD
 WEST NYACK, NY 10994
 New York Orders : (800) 872-7762
 New Jersey Orders : (800) 789-7625

Ticket #: 21322015

12/03/2020 10:59:58
 3466 COLLEGE POINT BLVD
 FLUSHING, NY 113542717

CREDIT CARD

AMEX SALE

Card # XXXXXXXXXXXX2205
 Chip Card: AMERICAN EXPRESS
 AID: A000000025010801
 ATC: 006B
 TC: 19DD2BECD0127708
 SEQ #: 5
 Batch #: 666
 INVOICE 5
 Approval Code: 845426
 Entry Method: Chip Read
 Mode: Issuer

Time	Dispatch	Plant #	Plant Description	Source	Facility ID
10:59		00213	Flushing Agg		
		Customer #	Order #	Purchase Order	
		99114			
		Zone	Truck #	Hauler	
			19462MH	888888 FOB Vendor	
duct Description			DOT Mix ID		Delivery Method
TON POINT					Pickup

SALE AMOUNT \$810.84

CUSTOMER COPY

Loads: 1 **Accum Amount:** 20.15 Tons 18.28 Metric Tonnes

GROSS: 65,300 L
 TARE: 25,000 L
 NET: 40,300 L

UNIT PRICE: 36.96
 SUBTOTAL: 744.74
 FREIGHT: 0.00
 TAX: 66.10
 TOTAL: 810.84

This Load: 20.15 Tons 18.28 Metric Tonnes

Weighmaster Chris Pellicci

TILCON NEW YORK, INC. ISSUES THIS RECEIPT SOLELY FOR THE PURPOSE OF ESTABLISHING WEIGHT. OPERATION OF THIS VEHICLE IN EXCESS OF ALLOWABLE LEGAL PERMITS MAY RESULT IN DELAY OF THE VEHICLE AND/OR ARREST OF ITS OPERATOR. WE ARE NOT RESPONSIBLE FOR DAMAGE WHEN DELIVERY IS ORDERED OFF PUBLIC ROADS ANY DAMAGE WILL BE CHARGED TO THE CUSTOMER

Received By: _____

Driver Name: _____

TILCON NEW YORK INC.

162 OLD MILL ROAD
WEST NYACK, NY 10994
New York Orders : (800) 872-7762
New Jersey Orders : (800) 789-7625

Ticket #: 21322081

TNY-213 FLUSHING
3466 COLLEGE POINT BLVD
FLUSHING, NY 113542717

12/04/2020

08:40:06

CREDIT CARD
AMEX SALE

Card # XXXXXXXXXXXX2205
Chip Card: AMERICAN EXPRESS
AID: A000000025010801
ATC: 006D
TC: 4249274F7B2EE7BB
SEQ #: 3
Batch #: 667
INVOICE 3
Approval Code: 825972
Entry Method: Chip Read
Mode: Issuer

Time	Dispatch	Plant #	Plant Description	Source	Facility ID
08:39		00213	Flushing Agg		
		Customer #	Order #	Purchase Order	
		99114			
		Zone	Truck #	Hauler	
			19462MH	888888 FOB Vendor	
Product Description			DOT Mix ID		Delivery Method
INTON POINT					Pickup

SALE AMOUNT \$609.63

CUSTOMER COPY

Loads: 1 **Accum Amount:** 15.15 Tons 13.74 Metric Tonnes

GROSS: 55,300 L
TARE: 25,000 L
NET: 30,300 L

UNIT PRICE: 36.96
SUBTOTAL: 559.94
FREIGHT: 0.00
TAX: 49.69
TOTAL: 609.63

This Load: 15.15 Tons 13.74 Metric Tonnes

Weighmaster Chris Pellicci

TILCON NEW YORK, INC. ISSUES THIS RECEIPT SOLELY FOR THE PURPOSE OF ESTABLISHING WEIGHT. OPERATION OF THIS VEHICLE IN EXCESS OF ALLOWABLE LEGAL PERMITS MAY RESULT IN DELAY OF THE VEHICLE AND/OR ARREST OF ITS OPERATOR. WE ARE NOT RESPONSIBLE FOR DAMAGE WHEN DELIVERY IS ORDERED OFF PUBLIC ROADS ANY DAMAGE WILL BE CHARGED TO THE CUSTOMER

Received By: _____

Driver Name: _____

TNY 213 FLUSHING
3466 COLLEGE POINT BLVD
FLUSHING, NY 113542717

12/03/2020

12:34:15

CREDIT CARD

AMEX SALE

Card # XXXXXXXXXXXX2205
Chip Card: AMERICAN EXPRESS
AID: A000000025010801
ATC: 006C
TC: 152CE5FB8FD6F092
SEQ #: 7
Batch #: 666
INVOICE 7
Approval Code: 882105
Entry Method: Chip Read
Mode: Issuer

SALE AMOUNT \$816.88

CUSTOMER COPY

TILCON NEW YORK INC.

162 OLD MILL ROAD
WEST NYACK, NY 10994
New York Orders : (800) 872-7762
New Jersey Orders : (800) 789-7625

Ticket #: 21322027



Time	Dispatch	Plant #	Plant Description	Source	Facility ID
12:33		00213	Flushing Agg		
		Customer #	Order #	Purchase Order	
		99114			
		Zone	Truck #	Hauler	
			19462MH	888888 FOB Vendor	
Product Description			DOT Mix ID		Delivery Method
INTON POINT					Pickup

Loads: 2

Accum Amount:

40.45 Tons

36.70 Metric Tonnes

GROSS: 65,600 L

TARE: 25,000 L

NET: 40,600 L

UNIT PRICE: 36.96

SUBTOTAL: 750.29

FREIGHT: 0.00

TAX: 66.59

TOTAL: 816.88

This Load: 20.30 Tons 18.42 Metric Tonnes

Weighmaster Chris Pellicci

TILCON NEW YORK, INC. ISSUES THIS RECEIPT SOLELY FOR THE PURPOSE OF ESTABLISHING WEIGHT. OPERATION OF THIS VEHICLE IN EXCESS OF ALLOWABLE LEGAL PERMITS MAY RESULT IN DELAY OF THE VEHICLE AND/OR ARREST OF ITS OPERATOR. WE ARE NOT RESPONSIBLE FOR DAMAGE WHEN DELIVERY IS ORDERED OFF PUBLIC ROADS ANY DAMAGE WILL BE CHARGED TO THE CUSTOMER

Received By: _____

Driver Name: _____

APPENDIX E

Waste Documentation

Waste Hauler Permit Certificates



PART 364
WASTE TRANSPORTER PERMIT NO. NJ-777

Pursuant to Article 27, Titles 3 and 15 of the Environmental Conservation Law and 6 NYCRR 364

PERMIT ISSUED TO:

MUNOZ TRUCKING, CORP.
40-48 PORETE AVENUE
NORTH ARLINGTON, NJ 07031

CONTACT NAME: MANUEL MUNOZ
COUNTY: OUT OF STATE
TELEPHONE NO: (201)997-8885

PERMIT TYPE:

☐ NEW
☒ RENEWAL
☐ MODIFICATION

EFFECTIVE DATE: 09/29/2019
EXPIRATION DATE: 09/28/2020
US EPA ID NUMBER: NJR986652006

AUTHORIZED WASTE TYPES BY DESTINATION FACILITY:

The Permittee is Authorized to Transport the Following Waste Type(s) to the Destination Facility listed :

Destination Facility	Location	Waste Type(s)	Note
110 Sand Company Clean Fill Disposal Site	Melville , NY	Non-Hazardous Industrial/Commercial	
380 DEVELOPMENT LLC (Various BUDs)	STATEN ISLAND , NY	Non-Hazardous Industrial/Commercial	
All Island Mason Supply Inc	Kings Park , NY	Non-Hazardous Industrial/Commercial	
BAYSHORE RECYCLING	WOODBIDGE , NJ	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
BAYSHORE SOIL MANAGEMENT, LLC	KEASBEY , NJ	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
BELMAWR WATERFRONT DEVELOPMENT	BELMAWR , NJ	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
BETHLEHEM EARTH, LP	BETHLEHEM , PA	Non-Hazardous Industrial/Commercial	
BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX	FLORENCE , NJ	Non-Hazardous Industrial/Commercial	
CASIE ECOLOGY OIL SALVAGE INC	VINELAND , NJ	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil Grease Trap Waste Hazardous Industrial/Commercial	
CHEMICAL WASTE MANAGEMENT	EMELLE , AL	Hazardous Industrial/Commercial	
CLEAN EARTH OF CARTERET	CARTERET , NJ	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
CLEAN EARTH OF MARYLAND	HAGERSTOWN , MD	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	

*** AUTHORIZED WASTE TYPES BY DESTINATION FACILITY LISTING (continued on next page) ***

NOTE: By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the Environmental Conservation Law, all applicable regulations, and the General Conditions printed on the back of this page.

ADDRESS:

New York State Department of Environmental Conservation
Division of Materials Management - Waste Transporter Program
625 Broadway, 9th Floor
Albany, NY 12233-7251

AUTHORIZED SIGNATURE: _____

Date: 9/16/19

NOTICE

This renewed permit is not valid until
the effective date listed on the permit.

WASTE TRANSPORTER PERMIT

GENERAL CONDITIONS

The permittee must:

1. Carry a copy of this waste transporter permit in each vehicle to transport waste. Failure to produce a copy of the permit upon request is a violation of the permit.
2. Display the full name of the transporter on both sides of each vehicle and display the waste transporter permit number on both sides and rear of each vehicle containing waste. The displayed name and permit number must be in characters at least three inches high and of a color that contrasts sharply with the background.
3. Transport waste only in authorized vehicles. An authorized vehicle is one that is listed on this permit.
4. Submit to the Department a modification application for additions/deletions to the authorized fleet of vehicles. The permittee must wait for a modified permit before operating the vehicles identified in the modification application.
5. Submit to the Department a modification application to add a new waste category or a new destination facility, or to change the current waste or destination facility category. The permittee must wait for a modified permit before transporting new waste types or transporting to new destination facilities.
6. Submit to the Department a modification application for change of address or company name.
7. Comply with requirements for placarding and packaging as set forth in New York State Transportation Law as well as any applicable federal rules and regulations.
8. Contain all wastes in the vehicle so there is no leaking, blowing, or other discharge of waste.
9. Use vehicles to transport only materials not intended for human or animal consumption unless the vehicle is properly cleaned.
10. Comply with requirements for manifesting hazardous waste, regulated medical waste, or low-level radioactive waste as set forth in the New York State Environmental Conservation Law and the implementing regulations. Transporters who provide a pre-printed manifest to a generator/shipper/offeror of regulated waste shall ensure that all information is correct and clearly legible on all copies of the manifest.
11. Deliver waste only to transfer, storage, treatment and disposal facilities authorized to accept such waste. Permittee must demonstrate that facilities are so authorized if requested to do so.
12. Maintain liability insurance as required by New York State Environmental Conservation Law.
13. Maintain records of the amount of each waste type transported to each destination facility on a calendar-year basis. The transporter is obligated to provide a report of this information to the Department at the time of permit renewal, or to any law enforcement officer, if requested to do so.
14. Pay regulatory fees on an annual basis. Non-payment may be cause for revocation or suspension of permit.
15. This permit is not transferrable. A change of ownership will invalidate this permit.
16. This permit does not relieve the permittee from the obligation to obtain any other approvals or permits, or from complying with any other applicable federal, state, or local requirement.
17. **Renewal applications must be submitted no less than 30 days prior to the expiration date of the permit to:**

**New York State Department of Environmental Conservation
Division of Materials Management, Waste Transporter Program
625 Broadway, 9th Floor
Albany, NY 12233-7251**

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF MATERIALS MANAGEMENT

PART 364

WASTE TRANSPORTER PERMIT NO. NJ-777

Pursuant to Article 27, Titles 3 and 15 of the Environmental Conservation Law and 6 NYCRR 364

PERMIT ISSUED TO:

MUNOZ TRUCKING, CORP.
40-48 PORETE AVENUE
NORTH ARLINGTON, NJ 07031

PERMIT TYPE:

☐ NEW
☒ RENEWAL
☐ MODIFICATION

CONTACT NAME: MANUEL MUNOZ
COUNTY: OUT OF STATE
TELEPHONE NO: (201)997-8885

EFFECTIVE DATE: 09/29/2019
EXPIRATION DATE: 09/28/2020
US EPA ID NUMBER: NJR986652006

AUTHORIZED WASTE TYPES BY DESTINATION FACILITY: (Continued)

The Permittee is Authorized to Transport the Following Waste Type(s) to the Destination Facility listed :

Destination Facility	Location	Waste Type(s)	Note
CLEAN EARTH OF NEW CASTLE, INC.	NEW CASTLE , DE	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
CLEAN EARTH OF NORTH JERSEY	KEARNY , NJ	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil Hazardous Industrial/Commercial	
CLEAN EARTH OF PHILADELPHIA	PHILADELPHIA , PA	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
CLEAN EARTH OF SOUTHEAST PENNSYLVANIA	MORRISVILLE , PA	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
CONESTOGA LANDFILL	MORGANTOWN , PA	Non-Hazardous Industrial/Commercial	
COPLAY AGGREGATES	WHITEHALL , PA	Petroleum Contaminated Soil	
CUMBERLAND COUNTY IMPROVEMENT AUTHORITY	MILLVILLE , NJ	Non-Hazardous Industrial/Commercial	
CUMBERLAND COUNTY LF-NEWBURG	NEWBURG , PA	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
DOREMUS AVENUE REDEVELOPMENT PROJECT	NEWARK , NJ	Non-Hazardous Industrial/Commercial	
DUPONT GRASSELLI SITE	LINDEN CITY , NJ	Non-Hazardous Industrial/Commercial	
DURABLE RECYCLING	BAYONNE , NJ	Non-Hazardous Industrial/Commercial	
EARTH EFFICIENT BTL	POCONO SUMMIT , PA	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
EXPERT RECYCLING SERVICE LLC	OLD BRIDGE , NJ	Non-Hazardous Industrial/Commercial	
Faztec Industries	Staten Island , NY	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
FENIMORE SANITARY LANDFILL	ROXBURY , NJ	Non-Hazardous Industrial/Commercial	
FORMER NUODEX, INC. (AKA EPEC POLYMERS INC.)	KEASBY , NJ	Non-Hazardous Industrial/Commercial	
FREEMANSBURG RESTORATION FACILITY	FREEMANSBURG , PA	Non-Hazardous Industrial/Commercial	
GREENVIEW	STROUDSBURG , PA	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
GRIFFIN PIPE PRODUCTION CO.	FLORENCE , NJ	Non-Hazardous Industrial/Commercial	
GRINNELL RECYCLING INC	SPARTA , NJ	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
GROWS LANDFILL NORTH (PA DEP 101680)	MORRISVILLE , PA	Non-Hazardous Industrial/Commercial Asbestos	

*** AUTHORIZED WASTE TYPES BY DESTINATION FACILITY LISTING (continued on next page) ***

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF MATERIALS MANAGEMENT

PART 364
WASTE TRANSPORTER PERMIT NO. NJ-777

Pursuant to Article 27, Titles 3 and 15 of the Environmental Conservation Law and 6 NYCRR 364

PERMIT ISSUED TO:

MUNOZ TRUCKING, CORP.
40-48 PORETE AVENUE
NORTH ARLINGTON, NJ 07031

CONTACT NAME: MANUEL MUNOZ
COUNTY: OUT OF STATE
TELEPHONE NO: (201)997-8885

PERMIT TYPE:

- ☐ NEW
☒ RENEWAL
☐ MODIFICATION

EFFECTIVE DATE: 09/29/2019
EXPIRATION DATE: 09/28/2020
US EPA ID NUMBER: NJR986652006

AUTHORIZED WASTE TYPES BY DESTINATION FACILITY: (Continued)

The Permittee is Authorized to Transport the Following Waste Type(s) to the Destination Facility listed :

Destination Facility	Location	Waste Type(s)	Note
HAZLETON CREEK PROPERTIES, LLC	HAZLETON , PA	Non-Hazardous Industrial/Commercial	
HENRY HARRIS SLF (ALHERN, INC.)	MULLICA HILL , NJ	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
HOFFMAN GRIFFETT MINE RECLAMATION BELVIDERE , NJ FACILITY		Non-Hazardous Industrial/Commercial	
I.S.P.	LINDEN , NJ	Non-Hazardous Industrial/Commercial	
IMPACT RECOVERY AND REUSE CENTER LYNDHURST , NJ		Non-Hazardous Industrial/Commercial	
JERC PARTNERS VII/LLC	EDISON , NJ	Non-Hazardous Industrial/Commercial	
KEARNY POINT INDUSTRIAL PARK (KPIP)	SOUTH KEARNY , NJ	Non-Hazardous Industrial/Commercial	
KINGSLAND LANDFILL CLOSURE PROJECT	LYNDHURST , NJ	Non-Hazardous Industrial/Commercial	
LINCOLN PARK WEST LANDFILL	JERSEY CITY , NJ	Non-Hazardous Industrial/Commercial	
LINDEN DEVELOPMENT LLC	LINDEN , NJ	Non-Hazardous Industrial/Commercial	
MALANKA (MALL) LANDFILL	SECAUCUS , NJ	Non-Hazardous Industrial/Commercial	
MIDDLESEX COUNTY UTILITIES AUTHORITY-EDGEBO RO LANDFILL	EAST BRUNSWICK , NJ	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
MORRIS BLANCHARD REDEVELOPMENT	NEWARK , NJ	Non-Hazardous Industrial/Commercial	
NORTH BERGEN RECYCLING	NORTH BERGEN , NJ	Non-Hazardous Industrial/Commercial	
OVERPECK PARK LANDFILL AREA IV	PALISADES PARK , NJ	Non-Hazardous Industrial/Commercial	
P PARK NORTH LLC	PROSPECT PARK , NJ	Non-Hazardous Industrial/Commercial	
Pebble Lane Associates LLC	Maspeth , NY	Non-Hazardous Industrial/Commercial	
PHASE III ENVIRONMENTAL	PALMERTON , PA	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
PURE SOIL @ PERTH AMBOY	PERTH AMBOY , NJ	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
PURE SOIL TECHNOLOGIES	JACKSON , NJ	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
REPUBLIC ENVIRONMENTAL SYSTEMS (PA) INC.	HATFIELD , PA	Non-Hazardous Industrial/Commercial Hazardous Industrial/Commercial	
RIVER TERMINAL DEVELOPMENT	SOUTH KEARNY , NJ	Non-Hazardous Industrial/Commercial	
RODOTA FILL SITE	BELVIDERE , NJ	Non-Hazardous Industrial/Commercial	
SAXTON FALLS SAND AND GRAVEL CO.	STANHOPE , NJ	Petroleum Contaminated Soil	
SKYMARK DEVELOPMENT CO.	RIDGEFIELD PARK , NJ	Non-Hazardous Industrial/Commercial	
SLRD COMPANY MULLICA HILL, LLC	MULLICA HILL , NJ	Non-Hazardous Industrial/Commercial	

*** AUTHORIZED WASTE TYPES BY DESTINATION FACILITY LISTING (continued on next page) ***

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF MATERIALS MANAGEMENT

PART 364
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AUTHORIZED WASTE TYPES BY DESTINATION FACILITY: (Continued)

The Permittee is Authorized to Transport the Following Waste Type(s) to the Destination Facility listed :

Destination Facility	Location	Waste Type(s)	Note
SLRD COMPANY MULLICA HILL, LLC	MULLICA HILL , NJ	Petroleum Contaminated Soil	
SOIL SAFE, INC.	LOGAN TOWNSHIP , NJ	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
SOIL SAFE-METRO 12	CARTERET , NJ	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
TETERBORO LANDING	TETERBORO , NJ	Non-Hazardous Industrial/Commercial	
TM Maintenance Inc	Staten Island , NY	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
TOTAL RECYCLING CORPORATION/FULLERTON SLAG BANK	ALLENTOWN , PA	Non-Hazardous Industrial/Commercial	
TRC WALNUT CUT-LOT 2	DANIELSVILLE , PA	Non-Hazardous Industrial/Commercial	
TREMLEY POINT FLY ASH DISPOSAL SITE	LINDEN , NJ	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
TULLYTOWN RESOURCE RECOVERY FACILITY (PA DEP 101494)	TULLYTOWN , PA	Non-Hazardous Industrial/Commercial	
VALLEY INDUSTRIAL PROPERTIES	EAST BANGOR , PA	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
Vanbro Corporation	Staten Island , NY	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
WESTERN BERKS LANDFILL	BIRDSBORO , PA	Non-Hazardous Industrial/Commercial	
WESTSIDE TRANSLOAD LLC	NORTH BERGEN , NJ	Non-Hazardous Industrial/Commercial	

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF MATERIALS MANAGEMENT

PART 364
WASTE TRANSPORTER PERMIT NO. NJ-777

Pursuant to Article 27, Titles 3 and 15 of the Environmental Conservation Law and 6 NYCRR 364

PERMIT ISSUED TO:

MUNOZ TRUCKING, CORP.
40-48 PORETE AVENUE
NORTH ARLINGTON, NJ 07031

PERMIT TYPE:

- ☐ NEW
☒ RENEWAL
☐ MODIFICATION

CONTACT NAME: MANUEL MUNOZ
COUNTY: OUT OF STATE
TELEPHONE NO: (201)997-8885

EFFECTIVE DATE: 09/29/2019
EXPIRATION DATE: 09/28/2020
US EPA ID NUMBER: NJR986652006

AUTHORIZED VEHICLES:

The Permittee is Authorized to Operate the Following Vehicles to Transport Waste:

(Vehicles enclosed in <>'s are authorized to haul Residential Raw Sewage and/or Septage only)

75 (Seventy Five) Permitted Vehicle(s)

NJ AP776R	NJ AT871R
NJ AR166G	NJ AT872R
NJ AR167G	NJ AT873R
NJ AR558H	NJ AT874R
NJ AS137K	NJ AT875R
NJ AS194V	NJ AU159D
NJ AS197V	NJ AU160D
NJ AS198V	NJ AU208M
NJ AS199V	NJ AU307U
NJ AS200V	NJ AU308U
NJ AS244U	NJ AU313B
NJ AS245U	NJ AU314B
NJ AS246U	NJ AU391H
NJ AS247U	NJ AU471C
NJ AS248U	NJ AW708D
NJ AS249U	NJ AW709D
NJ AS932W	NJ AW710D
NJ AS933W	NJ AW711D
NJ AS934W	NJ AW712D
NJ AS935W	NJ AW713D
NJ AS936W	NJ AW834B
NJ AS937W	NJ AW835B
NJ AT378J	NJ AW836B
NJ AT379J	NJ AW837B
NJ AT380J	NJ AW838B
NJ AT381J	NJ AW839B
NJ AT382J	NJ AW840B
NJ AT383J	NJ AW841B
NJ AT384J	NJ AW842B
NJ AT385J	NJ AW843B
NJ AT386J	End of List
NJ AT387J	
NJ AT388J	
NJ AT389J	
NJ AT390J	
NJ AT390V	
NJ AT391J	
NJ AT391V	
NJ AT392J	
NJ AT808U	
NJ AT809U	
NJ AT810U	
NJ AT811U	
NJ AT812U	
NJ AT813U	

Disposal Facility Approval Letter

December 5, 2019

Albert Albano
MTA-Long Island Rail Road
144-419 94th Avenue
Jamaica, NY 11435

Global #: 156015

RE: MTA-LIRR | Bayside Substation
Dead End, 216th St and 41st Ave Bayside-Queens, NY 11361

Dear Mr. Albano,

Clean Earth of Carteret, Inc. (CEC) is pleased to provide you with this acceptance letter for the soil material being generated from the site referenced above. We reviewed the analytical results performed by York Analytical Laboratories Inc. (Lab ID: 19J0828) for the above referenced site. Based upon the review of the data and profile provided, CEC can accept non-hazardous contaminated soil material being generated from the site.

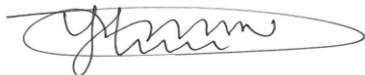
This letter serves as approval of ~ 250 tons of non-hazardous soil material represented by composite sample IDs: 'BS-CS-1', and all related grab samples to be generated from construction activities at the site.

Currently CEC has enough analysis on hand to cover estimated quantity of material. In the event the volume exceeds approved tonnages, the facility is permitted to analyze missing parameters by collecting soil samples from incoming loads. Please note that TPH analysis (every 600 Tons) will be required to comply with CEC's Class B permit. In the essence of saving time, CEC will collect the additional TPH samples as required upon arrival at the facility to meet the CEC analytical requirements.

Please provide the approval number when scheduling and include the approval number and grid location id on all manifests when shipping soils generated from this site. CEC can only accept non-Hazardous petroleum impacted soils. Any soils with free petroleum product or liquids, sludge's, or hazardous waste cannot be accepted. The generator will be notified of any non-conforming material. Processing of the soil will be performed under NJDEP Recycling Center Permit No. CBG170002.

If you should have any questions or require any additional information, please call me at (732) 541-8909 Ext 1966.

Sincerely,



Lawrenzo Yengwia
Clean Earth of Carteret

Cc: Tejas R. Shah



September 10, 2019

Mr. Roger Terlaga
AARCO Environmental Services Corp.
50 Gear Avenue
Lindenhurst, NY 11757

Re: MTA/LIRR Remediation of Group "D" Substations
Contract #6302

Dear Mr. Terlaga,

Please allow this letter to serve as confirmation that Clean Earth will be partnering with AARCO Environmental on disposal services for material generated from the above referenced site. Said material will be disposed of at either our Clean Earth of Carteret or Clean Earth of North Jersey facilities. We have reviewed the initial data provided and have the ability to accept these materials per our facility acceptance criteria.

Feel free to contact me with any questions or concerns.

Sincerely,

Richard Crawford

Richard Crawford
Vice President Sales – Soil Division



Facility Permit Certificates



State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF SOLID & HAZARDOUS WASTE

BUREAU OF RECYCLING AND HAZARDOUS WASTE MANAGEMENT

MAIL CODE: 401-02C

P.O. BOX 420 401 EAST STATE STREET

TRENTON, NEW JERSEY 08625-0420

Telephone: (609) 984-3438

Telecopier: (609) 777-1951

<http://www.state.nj.us/dep/dshw>

CHRIS CHRISTIE
Governor

BOB MARTIN
Commissioner

KIM GUADAGNO
Lt. Governor

MAY 05 2014

CERTIFIED MAIL RETURN RECEIPT NO.: 7011 2970 0003 7283 1515

Robert P. Fixter, Vice President
Clean Earth of North Jersey, Inc
105 Jacobus Avenue
South Kearny, NJ 07032

Re: Final Permit for the Hazardous Waste Facility Permit Renewal for:
CLEAN EARTH OF NORTH JERSEY INC
Kearny Town, Hudson County
EPA ID No.: NJD991291105
Permit No.: HWP040002

Dear Mr. Fixter:

The New Jersey Department of Environmental Protection's Bureau of Recycling and Hazardous Waste Management (Bureau) has evaluated the public comments received on the draft hazardous waste facility permit renewal for Clean Earth of North Jersey Inc during the public comment period, which ended December 15, 2011.

The Bureau has reached a final determination to issue the hazardous waste facility permit. Copies of the final permit and Report of Public Comment are enclosed for your information.

Should you wish to contest any of the conditions of the enclosed permit, you must file a request for an adjudicatory hearing with the Department's Office of Legal Affairs within twenty (20) days of the date you receive this decision notice. A copy of the request must also be mailed to this Bureau. The adjudicatory hearing shall be conducted in accordance with the Administrative Procedures Act, N.J.S.A. 52:14B1 et seq. and the Uniform Administrative Procedures Rules, N.J.A.C. 1:1.

Very truly yours,

A handwritten signature in cursive script that reads "Guy Watson".

Guy Watson, Chief
Bureau of Recycling and Hazardous Waste Management

Enclosures: Final permit/Report of Public Comment
Document: Facility Final Permit



State of New Jersey

CHRIS CHRISTIE
Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF SOLID & HAZARDOUS WASTE
BUREAU OF RECYCLING AND HAZARDOUS WASTE MANAGEMENT
MAIL CODE: 401-02C
P.O. BOX 420 401 EAST STATE STREET
TRENTON, NEW JERSEY 08625-0420
Telephone: (609) 984-3438 Telecopier: (609) 777-1951
<http://www.state.nj.us/dep/dshw>

BOB MARTIN
Commissioner

KIM GUADAGNO
Lt. Governor

Hazardous Waste Facility Permit

Under the provisions of N.J.S.A. 13:1E-1 et seq. known as the Solid Waste Management Act, this permit is hereby issued to:

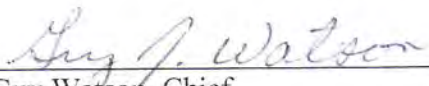
CLEAN EARTH OF NORTH JERSEY INC
105 Jacobus Ave
Kearny, New Jersey 07032

For the Purpose of Operating a:	Hazardous Waste Treatment, Storage and Transfer Facility
Lot & Block :	Lots 14 and 14A; Block: 289
In the Municipality of:	Kearny Town
County:	Hudson
Under Facility Permit No.:	HWP040002
EPA ID No.:	NJD991291105

This permit is subject to compliance with all conditions specified herein and all regulations promulgated by the Department of Environmental Protection.

This permit shall not prejudice any claim the State may have to riparian land, nor does it allow the permittee to fill or alter or allow to be filled or altered in any way, lands that are deemed to be riparian, wetlands, stream encroachment areas or flood plains, or that are within the Coastal Area Facility Review Act (CAFRA) zone or are subject to the Pinelands Protection Act of 1979, nor shall it allow the discharge of pollutants to waters of this State without prior acquisition of the necessary grants, permits, or approvals from the Department of Environmental Protection or the U.S. Environmental Protection Agency.

May 5, 2014
Issuance Date


Guy Watson, Chief
Bureau of Recycling and Hazardous Waste Management

June 4, 2014
Effective Date

June 4, 2024
Expiration Date

Referenced Permit Application Documents

The permittee shall operate the facility, and construct or install associated appurtenances thereto, in accordance with the regulations contained in 40 C.F.R. Parts 260 through 270, the conditions of this permit, and the following permit application documents:

- (1) Clean Earth of North Jersey, Inc, Part A permit application for a hazardous waste facility signed by Robert Fixter, August 10, 2009 and revised June 2011.
- (2) Clean Earth of North Jersey, Inc, Part B permit application for a hazardous waste facility signed by Robert Fixter, August 10, 2009, subsequently revised October 2010; March 23, 2011; May 23, 2011, June 7, 2011, June 29, 2011, July 18, 2011, September 13, 2011, and October 7, 2011 signed by Michael Logan, Vice President, Compliance Plus Services and the following drawings:

- (3) Drawing signed and sealed by Arthur A. Swallow, PLS:

<u>Drawing Title</u>	<u>Revision</u>	<u>Number</u>
Site Survey Plan	1	CENJ-01

- (4) Drawings signed and sealed by Thomas G. Pullar, PE:

<u>Drawing Title</u>	<u>Revision</u>	<u>Number</u>
Site Features Plan	4	CENJ-02
Traffic Plan	1	CENJ-03
Site Location Plan	1	CENJ-04

- (5) Drawing by United States Housing and Urban Development

<u>Drawing Title</u>	<u>Revision</u>	<u>Number</u>
Flood Insurance Rate Map		CENJ-05

- (6) Drawings signed and sealed by Robert Busch, PE:

<u>Drawing Title</u>	<u>Revision</u>	<u>Number</u>
New Containment Area		

Foundation Plan Sections & Details	0	CENJ-06
SP1 -New Containment Building Site Plan	13	CENJ-07
SP2 - New Containment Building – Various Areas, Plans, Sections & Details	5	CENJ-08
SP3 – New Containment Building – Various Areas, Plans, Sections & Details	5	CENJ-09
A1-New Containment Building Plans and Details	6	CENJ-10
A2- New Containment Building Elevations	4	CENJ-11
A3- New Containment Building Screening Operations Plan	5	CENJ-12
A4- New Containment Building Sections	2	CENJ-13
S1- New Containment Building Foundation Plan Sections Details	7	CENJ-14
S2- New Containment Building Sections & Details	3	CENJ-15
S3- New Containment Building Roof Framing Plans Section Details	4	CENJ-16
R1- New Containment Building Rail Car Position Layout	1	CENJ-17
R2- New Containment Building Rail Car Position Layout	1	CENJ-18
T1- New Containment Building Traffic Plan	2	CENJ-19

- (7) Drawing signed by Jon Fellgraft, AIA:

<u>Drawing Title</u>	<u>Revision</u>	<u>Number</u>
Proposed Temporary Shed for S&W Waste Shed Roof Framing Plan	1	CENJ-20

- (8) Drawing signed and sealed by Lahbib Chibani, PE:

<u>Drawing Title</u>	<u>Revision</u>	<u>Number</u>
Modification to Existing Tank Farm	2	CENJ-21

- (9) Drawing signed and sealed by Ahmed Hamidi, PE

<u>Drawing Title</u>	<u>Revision</u>	<u>Number</u>
QC Dock Modification Plan & Details	1	CENJ-22
Existing & Proposed Loading/Unloading Areas	1	CENJ-23

In case of conflict, the applicable hazardous waste management regulations contained in 40 C.F.R. shall have precedence over the conditions of this permit, and the conditions of this permit shall have precedence over the Part B permit application documents.

One complete set of the permit application documents listed above, this Hazardous Waste Facility Permit, and all records, reports and plans as may be required pursuant to this permit shall be kept on-site and shall be available for inspection by authorized representatives of the Department upon presentation of credentials. The records, reports and plans required pursuant to this permit include the following:

The description of the personnel training program and the records required by this permit and 40 C.F.R. 264.16.

The Contingency Plan required by this permit and 40 C.F.R. Part 264 Subpart D, and specifically the plan prepared by Michael Logan, Vice President, Compliance Plus Services dated August 2009 and subsequent revisions.

The written Operating Record required by this permit and 40 C.F.R. 264.73.

Copies of the financial documents and closure cost estimate required by this permit and 40 C.F.R. Part 264 Subpart H.

The Waste Analysis Plan outlined in this permit and as required by 40 C.F.R. 264.13, and specifically the plan prepared by Michael Logan, Vice President, Compliance Plus Services dated August 2009 and subsequent revisions.

The Inspection Schedule required by 40 C.F.R. 264.15(b) and the records required by this permit.

The Closure Plan required this permit and 40 C.F.R. 264.112 and specifically the plan prepared by Michael Logan, Vice President, Compliance Plus Services dated August 2009 and subsequent revisions.

CLEAN EARTH OF NORTH JERSEY INC
NJ0991291105 HWP040002 Hazardous Waste Facility Permit -Permit Renewal
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1. The permittee must comply with all conditions of this permit, except that the permittee need not comply with the conditions of this permit to the extent and for the duration such noncompliance is authorized in an emergency permit (See 40 C.F.R. 270.61). Any permit noncompliance, except under the terms of an emergency permit, constitutes a violation of the appropriate Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. [40 CFR 270.30(a)]
2. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. [40 CFR 270.30(b)]
3. A complete application for a new permit shall be submitted at least one hundred eighty (180) days prior to the expiration date of this permit. [40 CFR 270.10(h)]
4. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [40 CFR 270.30(c)]
5. In the event of noncompliance with the permit, the permittee shall take all reasonable steps to minimize releases to the environment, and shall carry out such measures as are reasonable to prevent significant adverse impacts on human health or the environment. [40 CFR 270.30(d)]
6. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of the permit. [40 CFR 270.30(e)]
7. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition. [40 CFR 270.30(f)]
8. The permit does not convey any property rights of any sort, or any exclusive privilege. [40 CFR 270.30(g)]
9. The permittee shall furnish to the Department, within a reasonable time, any relevant information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Department, upon request, copies of records required to be kept by this permit. [40 CFR 270.30(h)]
10. The permittee shall allow an authorized representative of the Department, upon the presentation of credentials and other documents as may be required by law, to: (a) enter at reasonable times upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit; (b) have access to and copy any records that must be kept under the conditions of this permit; (c) inspect any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and (d) sample or monitor, for the purposes of assuring permit compliance or as otherwise authorized by RCRA, any substances or parameters at any location. [40 CFR 270.30(i)]

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11. The permittee shall retain records of all sampling and monitoring information for a period of at least three (3) years from the date of the sample, measurement, report, or certification. Such records shall include all calibration and maintenance records for monitoring devices, all original strip chart recordings or other data for continuous monitoring instrumentation, and copies of all reports which include results of analyses or monitoring data. All reports required by this permit, the certification required by 40 C.F.R. 264.73(b)(9), and records of all data used to complete the application for this permit shall also be retained for a period of at least three (3) years. This period may be extended by the Department at any time. The permittee shall maintain records from all ground-water monitoring wells and associated ground-water surface elevations for the active life of the facility; and for disposal facilities throughout the post-closure care period as well. All samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. [40 CFR 270.30(j)(2)]
12. Records for monitoring information shall include the date, exact place, and time of sampling or measurements; the identity of the individual(s) who performed the sampling or measurements; the date(s) analyses were performed; the identity of the individual(s) who performed the analyses; documentation of the analytical techniques or methods used; and the results of such analyses. [40 CFR 270.30(j)(3)]
13. All applications, reports, or information submitted to the Department shall be signed and certified as specified in 40 C.F.R. 270.11. [40 CFR 270.30(k)]
14. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. [40 CFR 270.30(l)(1)]
15. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. [40 CFR 270.30(l)(2)]
16. For a new facility, the permittee may not treat, store, or dispose of hazardous waste, and for a facility being modified the permittee may not treat, store, or dispose of hazardous waste in the modified portion of the facility, except as provided in 40 C.F.R. 270.42, until the permittee has submitted to the Department, by certified mail or hand delivery, a letter signed by the permittee and a licensed/registered professional engineer in the State of New Jersey, stating that the facility has been constructed or modified in compliance with the permit and the Department has inspected the modified or newly constructed facility and finds it is in compliance with the conditions of the permit. If, within fifteen (15) days of the date of submission of the aforementioned letter the permittee has not received notice from the Department of intent to inspect, prior inspection is waived and the permittee may commence treatment, storage, or disposal of hazardous waste. [40 CFR 270.30(l)(2)]
17. This permit is not transferable to any person except after notice to the Department. The Department may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Resource Conservation and Recovery Act (See 40 C.F.R. 270.40). [40 CFR 270.30(l)(3)]
18. Monitoring results shall be reported at the intervals specified elsewhere in this permit. [40 CFR 270.30(l)(4)]
19. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than fourteen (14) days following each schedule date. [40 CFR 270.30(l)(5)]

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20. The permittee shall report any noncompliance which may endanger health or the environment orally within twenty-four (24) hours from the time the permittee becomes aware of the circumstances, including information concerning the release of any hazardous waste that may cause an endangerment to public drinking water supplies and any information of a release or discharge of hazardous waste or of a fire or explosion from the hazardous waste management facility, which could threaten the environment or human health outside the facility. [40 CFR 270.30(l)(6)(i)]
21. The description of any reported occurrences of noncompliance or release and its cause shall include the name, address, and telephone number of the owner or operator; the name, address, and telephone number of the facility; the date, time, and type of incident; the name and quantity of material(s) involved; the extent of injuries, if any; an assessment of actual or potential hazards to the environment and human health outside the facility, where this is applicable; and the estimated quantity and disposition of recovered material that resulted from the incident. [40 CFR 270.30(l)(6)(ii)]
22. A written submission or report of the noncompliance or release shall also be provided within five (5) days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. The Department may waive the five (5) day written notice requirement in favor of a written report within fifteen (15) days. [40 CFR 270.30(l)(6)(iii)]
23. All oral notifications of noncompliance or releases shall be provided to the NJDEP Hotline at 1-877-WARN DEP (1-877-9276-337). Written notification shall be provided to the Bureau of Recycling and Hazardous Waste Management and the Bureau of Hazardous Waste & UST Compliance and Enforcement at the addresses provided in this permit. [40 CFR 270.30(a)]
24. A biennial report must be submitted covering facility activities during odd numbered calendar years (See 40 C.F.R. 264.75). [40 CFR 270.30(l)(9)]
25. The permittee shall report all instances of noncompliance not reported under 40 C.F.R. 270.30(l)(4), (5), and (6) at the time monitoring reports are submitted. The reports shall contain the information listed in 40 C.F.R. 270.30(l)(6). [40 CFR 270.30(l)(10)]
26. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Department, it shall promptly submit such facts or information. [40 CFR 270.30(l)(11)]
27. The issuance of this permit does not authorize any injury to persons or property or invasion of other private rights or any infringement of applicable Federal, State, or local laws or regulations. [40 CFR 270.4(c)]
28. Cause for, and procedures of, modification, or revocation and reissuance of this permit shall be as provided under 40 C.F.R. 270.41. [40 CFR 270.41]
29. Causes for terminating a permit during its term or for denying a permit renewal application include the permittee's noncompliance with any condition of this permit; the permittee's failure in the application or during the permit issuance process to disclose fully all relevant facts, or misrepresentation of any relevant facts at any time; or a determination that the permitted activity endangers human health or the environment and can only be regulated to acceptable levels by permit modification or termination. [40 CFR 270.43(a)]

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30. Facility personnel shall successfully complete a program of classroom instruction or on-the-job training that teaches them to perform their duties in a way that ensures the facility's compliance with the requirements of 40 C.F.R. 264.16, as stated in the facility's Part B permit application documents referenced in this permit. New employees shall be trained within six (6) months of the date of employment. [40 CFR 264.16(a)]
31. The permittee shall maintain the following documents and records at the facility: (a) the job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job; (b) a written job description for each position; (c) a written description of the type and amount of both introductory and continuing training that has been and will be given to each person filling a position; and (d) records that document that the training or job experience required has been given to, and completed by, facility personnel. [40 CFR 264.16(d)]
32. The permittee shall keep the training records on current personnel until closure of the facility; training records on former employees shall be kept for at least three (3) years from the date the employee last worked at the facility. Personnel training records may accompany personnel transferred within the same company. [40 CFR 264.16(e)]
33. The facility shall be designed, constructed, maintained and operated to minimize the possibility of fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to the air, soil, surface water or groundwater that could threaten human health or the environment. [40 CFR 264.31]
34. The facility shall be equipped with emergency equipment, including but not limited to: (a) an internal communications or alarm system capable of providing immediate emergency instruction (voice or signal) to facility personnel; (b) a device, such as a telephone (immediately available at the scene of operations) or a hand-held two-way radio, capable of summoning emergency assistance from local police departments, fire departments, or State or local emergency response teams; (c) portable fire extinguishers, fire control equipment, spill control equipment, and decontamination equipment; and (d) water at adequate volume and pressure to supply water hose streams, or foam producing equipment, or automatic sprinklers, or water spray systems. [40 CFR 264.32]
35. All facility communications or alarm systems, fire protection equipment, spill control equipment, and decontamination equipment, where required, shall be tested and maintained as necessary to assure its proper operation in time of emergency. [40 CFR 264.33]
36. Whenever hazardous waste is being poured, mixed, spread, or otherwise handled, all personnel involved in the operation must have immediate access to an internal alarm or emergency communication device, either directly or through visual or voice contact with another employee, unless the Department has ruled that such a device is not required under 40 C.F.R. 264.32. [40 CFR 264.34(a)]
37. If there is ever just one employee on the premises while the facility is operating, he must have immediate access to a device, such as a telephone (immediately available at the scene of operation) or a hand-held two-way radio, capable of summoning external emergency assistance, unless the Department has ruled that such a device is not required under 40 C.F.R. 264.32. [40 CFR 264.34(b)]

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38. The permittee must attempt to make arrangements with State and local authorities, as appropriate for the type and scale of facility, to familiarize police, fire departments, and emergency response teams with the layout of the facility, properties of hazardous waste handled at the facility and associated hazards, places where facility personnel would normally be working, entrances to and roads inside the facility, and possible evacuation routes. Where State or local authorities decline to enter into such arrangements, the permittee must document the refusal in the operating record and where more than one police and fire department might respond to an emergency, agreements designating primary emergency authority to a specific police and specific fire department, and agreements with any others to provide support to the primary emergency authority must be made. [40 CFR 264.37(a)]
39. The permittee must attempt to make agreements with emergency response teams, emergency response contractors, and equipment suppliers to handle emergencies at the site. [40 CFR 264.37(a)(3)]
40. The permittee must attempt to make arrangements to familiarize local hospitals with the properties of hazardous waste handled at the facility and the types of injuries or illnesses which could result from fires, explosions, or releases. [40 CFR 264.37(a)(4)]
41. The provisions of the Contingency Plan included in the hazardous waste facility permit application plus all amendments, revisions and modifications thereof subsequently submitted for review and accepted by the Department shall be carried out immediately whenever there is a fire, explosion or release of hazardous waste or hazardous waste constituents which could threaten human health or the environment. [40 CFR 264.51(b)]
42. Whenever there is an imminent or actual emergency situation, the emergency coordinator (or his designee when the emergency coordinator is on call) must immediately activate internal facility alarms or communication systems, where applicable, to notify all facility personnel and notify appropriate State or local agencies with designated response roles if their help is needed. [40 CFR 264.56(a)]
43. If the emergency coordinator determines that the facility has had a release, fire, or explosion which could threaten human health, or the environment outside the facility, and his assessment indicates that evacuation of local areas may be advisable, the emergency coordinator must immediately notify appropriate local authorities. The emergency coordinator shall be available to help officials decide if local areas should be evacuated. The telephone numbers are: Fire Department (201) 991-1402 or 911; and Police Department: (201) 998-1313 or 911. [40 CFR 264.56(d)(1)]
44. If the emergency coordinator determines that the facility has had a release, fire, or explosion which could threaten human health or the environment, the emergency coordinator must immediately notify the New Jersey Department of Environmental Protection, Communication Center/Trenton Dispatch, Bureau of Communication and Response Services, at 1-877-WARN DEP (24 Hours). If the release, fire, or explosion could threaten human health and the environment outside the facility, the emergency coordinator shall also contact the government official designated as the on-scene coordinator for the area (in the applicable regional contingency plan under Title 40 Part 1510) or the National Response Center (using their twenty-four (24) hour toll free number) at 1-800-424-8802. [40 CFR 264.56(d)(2)]

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45. When reporting an emergency to the required agencies, the emergency coordinator shall report: (a) name and telephone number of the reporter; (b) name and address of the facility; (c) time and type of incident (e.g. release, fire); (d) name and quantity of material(s) involved, to the extent known; (e) the extent of injuries, if any; and (f) the possible hazards to human health, or the environment, outside the facility. [40 CFR 264.56(d)(2)]
46. The permittee shall note in the operating record the time, date, and details of any incident that requires implementing the contingency plan. Within fifteen (15) days after the incident, the permittee shall submit a written report on the incident to the Department. The report shall include, but not be limited to: (a) name, address, and telephone number of the permittee; (b) name, address, and telephone number of the facility; (c) date, time, and type of incident (e.g. fire, explosion); (d) name and quantity of material(s) involved; (e) the extent of injuries, if any; (f) an assessment of actual or potential hazards to human health or the environment, where this is applicable; and (g) an estimated quantity and disposition of recovered material that resulted from the incident. [40 CFR 264.56(j)]
47. The permittee must comply with the security procedures described in the facility's Part B permit application plus all amendments, revisions and modifications thereof subsequently submitted and referenced in this permit.
48. The permittee shall prevent the unknowing entry, and minimize the possibility for the unauthorized entry, of persons or livestock onto the active portion of the facility. [40 CFR 264.14(a)]
49. A facility shall have a twenty-four (24) hour surveillance system which continuously monitors and controls entry onto the active portion of the facility; or an artificial or natural barrier which completely surrounds the active portion of the facility; and a means to control entry, at all times, through the gates or other entrances to the active portion of the facility. [40 CFR 264.14(b)]
50. The permittee shall post a sign with the legend, "Danger - Unauthorized Personnel Keep Out", at each entrance to the active portion of a facility, and at other locations, in sufficient numbers to be seen from any approach to this active portion. The legend shall be written in English and in any other language prevalent in the area surrounding the facility and must be legible from a distance of at least twenty-five (25) feet. Existing signs with a legend other than "Danger - Unauthorized Personnel Keep Out" may be used if the legend on the sign indicates that only authorized personnel are allowed to enter the active portion, and that entry onto the active portion can be dangerous. [40 CFR 264.14(c)]
51. The permittee shall keep a written operating record at the facility in which the information required under 40 C.F.R. 264.73(b) shall be recorded. The information shall be recorded as it becomes available and maintained in the operating record until closure of the facility. [40 CFR 264.73]
52. The permittee shall have a detailed written cost estimate of closing the facility in accordance with 40 C.F.R. 264.142(a). [40 CFR 264.142(a)]

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53. The permittee shall adjust the closure cost estimate for inflation within sixty (60) days prior to the anniversary date of the establishment of the financial instrument(s) used to comply with 40 C.F.R. 264.143. If the permittee uses the financial test or corporate guarantee, the closure cost estimate shall be updated for inflation within thirty (30) days after the close of the firm's fiscal year and before submission of the updated information to the Department. The adjustment may be made by recalculating the maximum costs of closure in current dollars, or by using an inflation factor derived from the most recent Implicit Price Deflator for Gross National Product published by the U.S. Department of Commerce in its Survey of Current Business. The inflation factor is the result of dividing the latest published annual Deflator by the Deflator for the previous year. The first adjustment is made by multiplying the closure cost estimate by the inflation factor. The result is the adjusted closure cost estimate. Subsequent adjustments are made by multiplying the latest adjusted closure cost estimate by the latest inflation factor. [40 CFR 264.142(b)]
54. During the active life of the facility, the permittee shall revise the closure cost estimate no later than thirty (30) days after the Department has approved the request to modify the closure plan, if the change in the closure plan increases the cost of closure. The revised closure cost estimate must be adjusted for inflation as specified in 40 C.F.R. 264.142(b). [40 CFR 264.142(c)]
55. The permittee shall keep at the facility, during the operating life of the facility, the latest closure cost estimate prepared in accordance with 40 C.F.R. 264.142(a) and (c) and, when this estimate has been adjusted in accordance with 40 C.F.R. 264.142(b), the latest adjusted closure cost estimate. [40 CFR 264.142(d)]
56. The permittee shall establish financial assurance for closure of the facility. The permittee shall use a financial assurance mechanism approved by the Department, from the options specified in paragraphs (a) through (f) of 40 C.F.R. 264.143. [40 CFR 264.143]
57. The wording of all financial documents (except for the insurance policy itself) that are submitted to comply with the requirements for financial assurance for closure must be as per 40 C.F.R. 264.151 with the changes specified at N.J.A.C. 7:26G-8.1(c)10. [40 CFR 264.143]
58. The permittee shall maintain financial responsibility for bodily injury and property damage to third parties caused by sudden accidental occurrences arising from operations of the facility. The permittee shall have and maintain liability coverage for sudden occurrences in the amount of at least \$1 million per occurrence with an annual aggregate of at least \$2 million exclusive of legal defense costs. The permittee shall demonstrate financial responsibility for sudden accidental occurrences according to the mechanisms given in 40 C.F.R. 264.147 paragraphs (a)(1), (2), (3), (4), (5) or (6). [40 CFR 264.147(a)]
59. The wording of all financial documents (except for the insurance policy itself) that are submitted to comply with the liability coverage requirements must be as per 40 C.F.R. 264.151 with the changes specified at N.J.A.C. 7:26G-8.1(c)10. [40 CFR 264.147]
60. The permittee shall comply with all regulations of the Department of Environmental Protection and other State Statutes applicable to the facility. Regulations are effective upon publication in the New Jersey Register or as otherwise indicated in the Notice of Adoption in the New Jersey Register. [40 CFR 270.32(b)(2)]

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61. All documents required to be submitted to the Department by this permit shall be submitted to the following agencies: New Jersey Department of Environmental Protection, Division of Solid and Hazardous Waste, Bureau of Recycling and Hazardous Waste Management, Mail Code: 401-02C, PO Box 420, Trenton, NJ 08625-0420; and New Jersey Department of Environmental Protection, Compliance and Enforcement, Bureau of Hazardous Waste & UST Compliance and Enforcement, Northern Regional Office, 7 Ridgedale Ave, Cedar Knolls, NJ 07927-1120. [40 CFR 270.32(b)(2)]
62. The permittee shall operate the facility, and construct or install associated appurtenances thereto, in accordance with the regulations contained in 40 C.F.R. Parts 260 through 270, the conditions of this permit, and the permit application documents referenced in this permit. In case of conflict, the applicable hazardous waste management regulations contained in 40 C.F.R. shall have precedence over the conditions of this permit, and the conditions of this permit shall have precedence over the Part B permit application documents. [40 CFR 270.32(b)(2)]
63. One complete set of the permit application documents referenced in this permit, this Hazardous Waste Facility Permit, and all records, reports and plans as may be required pursuant to this permit shall be kept on-site and shall be available for inspection by authorized representatives of the Department upon presentation of credentials. [40 CFR 264.74(a)]
64. The permittee shall adhere to the provisions of the Waste Analysis Plan cited in this permit, and any subsequent revisions approved by the Solid and Hazardous Waste Management Program. No changes shall be made to the Waste Analysis Plan without prior written approval from the Solid and Hazardous Waste Management Program. [40 CFR 264.13(b)]
65. Each hazardous waste managed at this location shall be fully identified and classified in accordance with 40 C.F.R. 264.13. At a minimum, the permittee shall gather all of the information which must be known to manage the waste in accordance with the provisions of this permit, as well as to treat or dispose of the waste at an authorized facility. [40 CFR 264.13(a)]
66. Waste sampling and analysis shall be in accordance with the procedures outlined in the Waste Analysis Plan cited in this permit and shall employ equipment and methods as described in the latest edition of USEPA Manual SW-846 or as otherwise approved by the USEPA or the Department. All analyses performed to comply with the conditions of this permit shall be conducted by a laboratory that is certified by the Department to conduct the analysis. [40 CFR 264.13(b)]
67. The permittee shall maintain, in the written Operating Record required by this permit, records and results of all waste analyses performed. Such records and results shall be entered into the written Operating Record as they become available and shall be maintained until closure of the facility. [40 CFR 264.73(b)(3)]
68. All records and results of analyses conducted shall include an identification of the waste sampled, the name of the individual who collected the sample, the date, time, and location of sampling; the date analyses were performed; the name of the individual who performed the analysis; and the results for all test parameters analyzed. [40 CFR 264.73(b)(3)]

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69. The permittee shall perform inspections in accordance with the referenced permit application documents and as follows: Internal communication equipment, the telephone system and site gates and gate locks shall be inspected weekly for proper operation; Protective clothing shall be inspected weekly for proper operation and supply; Site fencing, ladders, platforms, stairways and walkways shall be inspected weekly for corrosion or damage; Warning signs shall be inspected weekly for visibility and damage; Fire extinguishers shall be inspected monthly for adequate pressure and charge; First aid equipment and supplies shall be inspected monthly for adequate supply and operation; Emergency equipment and supplies shall be inspected monthly for adequate supply and proper maintenance; Spill absorbent and overpack drums shall be inspected monthly for adequate supply; Electric motors, fire alarm systems and communications systems shall be inspected monthly for power, wear and wiring deterioration; and Fire hydrants shall be inspected annually for adequate pressure. [40 CFR 264.15(b)]
70. The permittee must record the inspections required by this permit in an inspection log or summary. Records of all the required inspections shall be maintained at the facility for a minimum of three (3) years. At a minimum, this log/summary must include the date and time of each inspection, the name of the inspectors, a notation of the observations made, and the date and nature of any repairs or other remedial actions performed. [40 CFR 264.15(d)]
71. The permittee shall remedy any deterioration or malfunction of equipment or structures revealed by the inspection on a schedule, which ensures that the problem does not lead to an environmental or human health hazard. Where a hazard is imminent or has already occurred, remedial action shall be taken immediately. [40 CFR 264.15(c)]
72. At the time of final closure, the permittee shall close the hazardous waste units authorized by this permit in accordance with 40 C.F.R. 264 Subpart G, the closure plan referenced in this permit, and the conditions of this permit. [40 CFR 264.111(c)]
73. The permittee shall keep a copy of the closure plan and all revisions to the plan at the facility until closure is completed. [40 CFR 264.112(a)]
74. The permittee shall amend the closure plan any time changes in operating plans or facility design affect the closure plan or whenever there is a change in the expected year of closure of the facility. The permittee must comply with the requirement cited at 40 C.F.R. 264.112(c)(3) for amendment of closure plan. [40 CFR 264.112(c)]
75. The permittee shall notify the Department at least forty-five (45) days prior to the date the permittee expects to begin closure, except in cases where the facility's permit is terminated or if the facility is otherwise ordered by judicial decrees or compliance order to close. The date when the owner or operator "expects to begin closure" shall be within thirty (30) days after the date on which the owner or operator expects to receive the final volume of wastes. [40 CFR 264.112(d)]
76. The permittee shall not store or treat hazardous waste at any location at the facility other than those authorized by this permit. The permittee shall obtain prior approval from the Solid and Hazardous Waste Management Program to make any changes or alterations to the authorized activities in this permit. [40 CFR 270.32(b)]

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77. The permittee shall perform the basic mandatory waste acceptance analyses on representative samples collected from incoming shipments of waste in accordance with the Waste Analysis Plan, including Table 5.3 (May 2011) as referenced in this permit. These analyses include, as applicable, the following: paint filter test, flash point, ignitability, BTU/gallon, percent chlorine, chlorine spot test, specific gravity, miscibility, pH, total organic carbon (aqueous waste only), chemical compatibility, and reactivity. Polychlorinated biphenyl (PCB) analysis shall also be performed on ignitable, combustible and organic wastes that are not 100% aqueous waste streams. The permittee shall base the decision to accept or reject the incoming waste shipment on a comparison of information obtained from analysis of the incoming waste shipment samples to the information obtained from the pre-acceptance waste analysis procedures required by this permit. When a waste shipment is found to be non-conforming, the permittee may comply with the requirements for acceptance of non-conforming waste found elsewhere in this permit. In the event that a representative sample of waste yields a PCB analysis greater than 50 ppm, except for non-regulated small capacitors, the permittee shall segregate the waste in the designated TSCA permitted storage areas, contact the generator regarding the discrepancy, and obtain the information required to properly store and dispose of the waste or, if necessary, return the waste to the generator. [40 CFR 264.13, 40 CFR 270.32(b), 40 CFR 264]
78. The permittee shall perform analyses on a representative sample of outgoing waste shipments on an as needed basis to satisfy the requirements of the ultimate storage, transfer, treatment or disposal facility authorized to receive such waste. [40 CFR 264.13]
79. For each outgoing shipment of waste initially accepted from off-site, or mixtures or residues generated by the permittee from the storage, transfer or treatment of waste accepted from off-site, the manifest shall include the identification number(s) assigned by the original off-site generators to the wastes included in the shipment or from which the waste mixture or residue was generated by the permittee, except: where the hazardous waste number assigned by the original generator was a characteristic code and the permittee has treated the waste to no longer exhibit said characteristic, then said characteristic number need not be included on the manifest, but shall instead be identified on a separate sheet attached to the facility copy of the manifest which shall be kept on file at the facility; and where the hazardous waste number(s) assigned by the original off-site generator was incorrect and the permittee has determined the correct number(s) for the waste and has complied with the manifest discrepancy and unmanifested waste report requirements, then the correct hazardous waste number(s) shall be substituted for the incorrect hazardous waste number(s) originally assigned by the off-site generator. [40 CFR 270.32(b)]
80. For the purposes of classifying the waste and determining compliance with land disposal restrictions of 40 C.F.R. Part 268, the permittee shall collect samples from hazardous waste that has been treated by stabilization. All samples collected shall be analyzed for the parameters necessary to classify the waste and to determine compliance with the land disposal restrictions. A representative composite sample of each treatment batch shall be collected in accordance with the procedures detailed in Sections 3.0 through 3.6.4 of the document titled "Batch Sampling Procedures for Treated Hazardous Wastes" revised May 2011 in Appendix 5-6 of permit documents. Section 3.5 Reduced Batch Sampling Frequency Requirements for Continuous Treatment Batches, which outlines reduced composite sampling frequencies for specific waste streams and circumstances, is also approved. [40 CFR 264.13, 40 CFR 270.32(b), 40 CFR 264.17, 40 CFR 264.177]

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81. The permittee shall comply with the following waste analysis procedures for incoming wastes, except for lab packs and containers for transfer. Upon arrival of each waste shipment, the permittee shall perform a visual inspection of the incoming waste shipment and collect representative samples of the waste shipment. Samples shall be taken using a coliwasa or equivalent sampler for liquids or a stainless steel scoop for solids. For bulk shipments at least one sample shall be taken from each transport unit. Bulk shipment samples shall not be composited except for polychlorinated biphenyl (PCB) screening. For containerized shipments the permittee shall collect a separate representative sample for analysis in accordance with the waste analysis requirements of this permit from each container of each generator's waste stream as described on each manifest line item description with the exception of the following: for heterogeneous hazardous waste, composite samples may be collected from up to ten containers per composite sample; and for homogeneous hazardous waste, separate samples may be collected from as few as 20% of the containers or composite samples may be collected from up to 20 containers per composite sample. For multi-phase wastes, the permittee shall perform a separate series of analyses on each phase of waste to be subjected to a different activity. For multiple shipments of waste received during the same day, profiled under the same approval code number, generated from the same process(es) and where the waste constituents do not vary in type or quantity in significant amounts, only the first shipment received shall be sampled and analyzed. Subsequent shipments received on the same day shall be visually inspected and compared to the first shipment and the waste profile sheet to determine conformance with the approved waste stream. If found to be visually non-conforming each non-conforming shipment shall be sampled and analyzed. [40 CFR 264.13]
82. The permittee shall comply with the following pre-acceptance waste analysis procedures for wastes other than lab packs and containers for transfer. Prior to accepting any waste from off-site generators the permittee shall obtain a properly completed generator Waste Profile Sheet (WPS). The WPS shall contain all applicable information identified in the sample WPS form provided in the Waste Analysis Plan referenced in this permit. If the generator fails to provide all of the information requested on the forms listed in this permit that is necessary to safely and properly store, transfer, treat or dispose of the waste, the permittee shall contact the generator and obtain the necessary information to complete the forms. The permittee may make arrangements to accept the waste if a thorough evaluation of the information obtained indicates that the waste is one of the wastes the permittee is authorized by this permit to accept. [40 CFR 264.13]
83. The permittee shall comply with the following procedures for incoming shipments of waste lab packs and containers for transfer. Upon arrival of each waste shipment the permittee perform a visual inspection of the incoming waste shipment. The permittee's decision to accept or reject the incoming waste shipment shall be based on a comparison of the information obtained by inspection versus information obtained from the manifest and the pre-acceptance documentation obtained in accordance with this permit. When a waste is found to be non-conforming, the permittee shall comply with the procedures for acceptance of non-conforming wastes found elsewhere in this permit. [40 CFR 264.13]

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84. Before processing any waste, the permittee shall test a representative sample of the waste to be processed for the parameters listed below: 1) Tank or container storage/treatment - compatibility; 2) Container repacking - pH, reactivity, ignitability and compatibility; 3) Consolidation - ignitability, reactivity and compatibility; 4) Solidification/stabilization - pH, reactivity, ignitability and compatibility; 5) Blending and bulking in containers or tanks - specific gravity, reactivity, ignitability, corrosivity, compatibility, pH, organic chlorine content, BTU content, bottom sediment, water content, type acid or base, and total organic carbon, if applicable; and 6) Filtering/screening - pH, reactivity, ignitability and compatibility. [40 CFR 264.13, 40 CFR 270.32(b), 40 CFR 264.17, 40 CFR 264.177]
85. The permittee is authorized to construct the proposed Rail Turnout for Track 2 in accordance with the requirements of this permit. The proposed Rail Turnout shall be constructed and installed as shown in the engineering drawing entitled "Diagram of Location of Proposed Rail Turnout for Track 2" referenced as Appendix 1-7 in the permit documents. Within thirty (30) days after completion of the construction, the permittee shall submit to the Department, by certified mail or hand delivery, a letter signed by the permittee and a licensed professional engineer registered in the State of New Jersey, stating that the Rail Turnout for Track 2 has been constructed in compliance with the permit, as well as as-built drawings. The Department will inspect the Rail Turnout to determine whether or not it is in compliance with the layout and specification of the design plans set forth in the engineering plans and reports. If within fifteen (15) days of the date of the submission of the permittee's aforementioned letter, the permittee has not received from the Department a notice of intent to inspect, prior inspection is waived and it is understood that the Rail Turnout meets the design requirements. If the Rail Turnout is found not to be in conformance with the approved design, a schedule shall be submitted within thirty (30) days of the date of the Department's inspection, outlining how the Rail Turnout will be brought into conformance. The schedule shall be subject to the Department's approval. The permittee shall not utilize the Rail Turnout for Track 2 for waste transportation until the Department approves the construction. [40 CFR 270.32(b)]
86. For wastes to be accepted for container transfer only, the permittee shall comply with the following pre-acceptance waste analysis procedures. The permittee shall obtain a completed generator Waste Profile Sheet (WPS) and any other supporting documents such as, but not limited to, a chemical waste packing list for lab packs. The permittee shall review the information on the WPS and any supporting documentation. If the waste stream(s) are all wastes which the permittee is authorized to accept then the permittee shall review the acceptability of the waste stream(s) at the potential authorized off-site treatment or disposal facilities. Such review shall include the permittee's knowledge of waste acceptability criteria of the potential ultimate facility and, if necessary, shall involve the submittal of the WPS and any supporting documentation to the potential ultimate facility for confirmation of the acceptability of the waste stream. Waste streams accepted for transfer need not be analyzed unless the permittee has reason to believe they are not as represented on the waste profile sheet, but shall undergo testing to meet acceptability criteria of the ultimate treatment or disposal facility, if necessary. The permittee shall only accept lab packs that are accompanied by a packing list that itemizes the individual containers within the lab pack. The permittee shall only accept lab packs that contain individual containers of laboratory chemicals that have been packed at the generator's site by the permittee's Quality Assurance Technicians and/or companies experienced in the identification, segregation and packing laboratory chemicals. The permittee shall require the generator of lab packs to properly identify or analyze the contents of individual containers within a lab pack that do not have the original manufacturer's label. [40 CFR 264.13]

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87. During implementation of the waste analysis procedures required by this permit, if the permittee finds a waste to be non-conforming, the permittee may accept the waste if it appears to be other than the quantity and waste type described on the manifest provided performance of the pre-acceptance waste analysis procedures required by the permit indicates that the permittee is authorized to accept such waste and thereafter the permittee complies with 40 C.F.R. 264.72. [40 CFR 264.13]
88. The permittee shall adhere to the following regarding rejection of unauthorized waste shipments: 1. the permittee shall accept only waste that the facility is authorized to accept; and 2. the permittee, if offered hazardous waste which the facility is not authorized to handle, shall not accept the waste from the hauler and shall follow the applicable requirements and instructions found at 40 CFR 264.71, 264.72, and Appendix to Part 262 - Uniform Hazardous Waste Manifest and Instructions, as deemed necessary for rejection. [40 CFR 270.32(b)]
89. For lab pack containers to be accepted for processing, the permittee shall comply with the following pre-acceptance waste analysis procedures. The permittee shall obtain a waste profile sheet (WPS), a chemical waste packing list, and any supporting documentaion in accordance with this permit. The packing list for each lab pack shall list the specific names of all laboratory chemical bottles, jars, jugs, etc. in that lab pack container. The permittee shall review the information on the WPS, packing list and any supporting documentation. If the labortory chemicals are all wastes that the permittee is authorized to accept for on-site processing, the permittee may contract with the generator for the shipment of the waste. Lab pack chemicals in their original containers and bearing original labels need not be analyzed unless the permittee has reason to believe that they are not as represented on the waste profile sheet. If the individual bottles, jars, jugs, etc. are to be removed from the lab pack containers, opened, and blended or bulked with other wastes, then the permittee shall confirm the compatibility of the wastes prior to commencing such blending or bulking by performing the compatibility test identified in the Waste Analysis Plan referenced in this permit. [40 CFR 264.13]
90. The permittee shall not exceed a hazardous waste storage volume of 249,500 gallons or its equivalent volume at any one time. [40 CFR 270.32(b)]

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91. PCB waste shall be managed in accordance with all applicable Toxic Substance Control Act (TSCA) regulations at 40 CFR Part 761 and as follows:
1. Non-leaking and non-regulated PCB and/or light ballast may be repackaged into other containers for transportation efficiency;
 2. PCB articles shall remain in the form as received at the facility;
 3. Non-liquid PCB waste in the Containment Building may be transferred or consolidated into another container or rail car;
 4. All other PCB waste shall be stored or transferred in their original containers;
 5. Non-liquid or semi-solid PCB waste (ie. sludges and slurries) that is also hazardous waste may be solidified/stabilize in the CBU for shipment to another authorized facility for treatment or disposal; and
 6. PCB shall only be managed in the following areas: Container storage Area A and C; the QC dock; the East Pad of the QC dock; and the Containment Building. [40 CFR 270.32((b))]

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92. The permittee shall operate the Containment Building in a fashion that ensures that waste will not come in contact with door or window openings. [40 CFR 264.1101(a)(2)(ii)]
93. Solidification/stabilization shall take place as provided herein. For stabilization in cells: the permittee shall empty the waste to be solidified/stabilized from containers into any of the four cells in the Containment Building. The permittee shall introduce approved reagent listed in Table 4-3 into the waste to be solidified/stabilized by the use of equipment authorized by the Department, as described in the application documents and engineering designs referenced in this permit. The permittee shall mix the waste and approved reagent listed in Table 4-3 with a backhoe, front end loader or other equipment authorized by the Department. The permittee shall place the solidified/stabilized waste in appropriate DOT shipping containers, including: roll-offs, dump trailers, gondolas, or intermodal containers, in any area authorized by this permit for storage or transfer pending shipment to off-site authorized facilities. For solidification/stabilization in containers, the process shall be performed in containers of up to 110 gallons or roll-off containers up to 40 cubic yard capacity. An approved solidification/stabilization agent listed on Table 4-3 shall be added to the top of the container with a hand scoop or other similar equipment to absorb any free liquids, if necessary. Filled containers shall be resealed, labeled, and stored in any area authorized by this permit for storage or transfer pending shipment to off-site authorized facilities. If the solidified/stabilized waste is destined for incineration or thermal treatment, the untreated waste can be transferred, prior to solidification/stabilization, to an incinerable container that meets the specification of the off-site destination facility. [40 CFR 270.32(b)]

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94. The permittee shall take measures to prevent the tracking of waste out of the Containment Building by personnel or equipment used in handling the waste. An area must be designated to decontaminate equipment and any rinsate must be collected and properly managed. The permittee is authorized to treat the rinsate through solidification in the Containment Building as detailed in permit application documents referenced in this permit. [40 CFR 264.1101(c)(1)(iii)]
95. Within 90 days after receiving the final volume of waste at the Containment Building, the permittee must remove all waste from the Containment Building and ship the waste to an authorized facility. [40 CFR 264.113(a)]
96. The permittee is authorized to use the Containment Building to manage solid, sludges or slurry wastes identified with the following hazardous waste numbers: D002, D004 through D043, all "P" and "U" hazardous wastes listed at 40 C.F.R. 261.33, F001 through F012, F019 through F024, F025, F026 through F028, F032, F034, F035, F037, F038, F039, K001 through K011, K013 through K052, K060 through K069, K071, K073, K079, K081, K083 through K088, K090, K091, K093 through K118, K123 through K126, K131, K132, K136, K156 through K161, K169, K170, K171, and K172. The permittee is prohibited from managing D003 that is not reactive sulfide wastes and D001 waste in the Containment Building. The permittee may manage ID 27, ID 27A, and ID 72 wastes in the Containment Building pursuant to the permittee's Solid Waste Permit and provided the decontamination procedures, outlined in section 4.3.2.5 of the approved application documents, are followed. [40 CFR 270.32(b)]
97. The permittee shall inspect and record in the facility's operating record, at least once every seven (7) days, data gathered from monitoring equipment and leak detection equipment, as well as the Containment Building and area immediately surrounding the Containment Building, to detect signs of releases of waste. The permittee shall conduct inspections of the following activity/equipment as outlined below: Lighting for proper operation; Primary and Secondary Inspection Sumps for accumulated liquids; Process Floor (visible areas), Joints (visible areas), Secondary Containment and Push Walls, Building Walls, Columns and Supports for significant cracks, gaps, corrosion or other deterioration that could cause waste to be released; Air Pollution Control and Ventilation System for proper operation; General Exterior for signs of release of hazardous waste; and Doors, Windows, Vents and Cracks for visible emissions in accordance with 40 C.F.R. Part 60, Appendix A, Method 22. [40 CFR 264.1101(c)(4), 40 CFR 270.32(b), 40 CFR 264.73]
98. The permittee shall take measures to control fugitive dust emissions such that any openings (doors, windows, vents, cracks, etc.) exhibit no visible emissions (see 40 C.F.R. Part 60, Appendix A, Method 22 - Visual Determination of Fugitive Emissions from Material Sources and Smoke Emissions from Flares). In addition, all associated particulate collection devices shall be operated and maintained with sound air pollution control practices (see 40 C.F.R. Part 60 Subpart 292). This state of no visible emissions must be maintained effectively at all times during routine operating and maintenance conditions, including when vehicles and personnel are entering and exiting the Containment Building. [40 CFR 264.1101(c)(1)(iv)]
99. The permittee is prohibited from storing, treating or transferring uncontainerized liquid or semi-liquid waste in the Containment Building or in the truck loading/unloading bay of the Containment Building. [40 CFR 270.32(b)]
100. The permittee shall use controls and practices to ensure containment of the waste within the Containment Building. [40 CFR 264.1101(c)(1)]

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101. The permittee is authorized to utilize the Containment Building to treat, store and transfer hazardous wastes authorized by this permit, with the exception of D001 waste and D003 waste that are not reactive sulfide wastes. Authorized activities include repackaging of non-lab pack waste; solidification/stabilization with approved reagents listed in Table 4-3, filtration, consolidation, decanting, and blending & bulking of waste. The permittee shall operate and maintain the Containment Building in accordance with the application documents and engineering designs referenced in this permit. The maximum hazardous waste capacities of the storage/treatment areas in the Containment Building shall be as follows: Cell 1 - 402 cubic yards; Cells 2, 3 and 4 - 195 cubic yards (each); and the Process Floor - 453 cubic yards. Non-liquid PCB waste may be transferred or consolidate into another container or rail car in this area, while all PCB waste shall be managed as outlined by this permit. [40 CFR 270.32(b)]
102. The permittee shall maintain the primary barrier to be free of significant cracks, gaps, corrosion, or other deterioration that could cause waste to be released from the primary barrier. [40 CFR 264.1101(c)(1)(i)]
103. The permittee shall submit to the Department, either prior to or with the closure report, the results of the decontamination verification procedures. The permittee shall retain the equipment and structures that required decontamination on-site until the permittee has received a written determination from the Department that the decontamination levels specified in the closure plan have been achieved and the analytical results are acceptable to the Department, unless the permittee decides to dispose of the equipment and structures as hazardous waste. [40 CFR 264.115]
104. Within 180 day after receiving the final volume of waste at the Containment Building, if decontamination has been performed, the permittee must complete decontamination verification procedures for the area. Decontamination shall consist of collecting final wash water and wash water blank samples and testing them for the parameters listed in Table 9-1: Decontamination Verification Samples; Locations, Number and Type included in the referenced permit application documents. Decontamination methods shall be repeated until the concentrations of the rinse water test parameters are equal to the amount present in the wash water blank. [40 CFR 264.1102(a)]
105. The permittee is authorized to store, treat, or transfer sludges and slurries only in the areas of the Containment Building which meet the requirements of 40 CFR 264.1101(b). [40 CFR 270.32(b)]
106. Within 60 days of completion of closure of the Containment Building, the permittee shall submit to the Department by registered mail a report of closure activities. The report shall include a certification that the Containment Building has been closed in accordance with the the specifications in the approved closure plan and the requirments of this permit. The certification must be signed by the permittee and signed and sealed by an independent professional engineer registered in the State of New Jersey. The report shall also include supporting documentation. The Department will review the report, including the decontamination verification and soil sampling data, and conduct an inspection of the Containment Building. If the Department determines that the Containment Building was clean closed, the Department will accept the closure certification and closure will be deemed complete. [40 CFR 264.115]
107. The permittee shall maintain the stored/treated waste within the containment walls of the Containment Building by ensuring that the peak of the pile shall not exceed the height of any containment wall intended to contain it. [40 CFR 264.1101(c)(1)(ii)]

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108. If the permittee detects a condition that could lead to or has caused a release of waste, the permittee must repair the condition promptly, in accordance with the following procedures. Upon detection of a condition that has lead to the release of waste, the permittee shall: enter a record of the discovery in the facility operating record; immediately remove the portion of the Containment Building affected by the condition from service; determine what steps must be taken to repair the Containment Building; remove any leakage from the secondary collection system and establish a schedule for accomplishing the cleanup and repairs; within seven (7) working days after the discovery of the condition, notify the Department of the condition; and within fourteen (14) working days, provide a written notice to the Department with a description of the steps taken to repair the Containment Building, and the schedule for accomplishing the work. The Department will review the information submitted, make a determination regarding whether the Containment Building must be removed from service completely or partially until repairs and cleanup are complete, and notify the permittee of the determination and underlying rationale in writing. Upon completing all repairs and cleanup, the permittee must notify the Department in writing and provide a verification, signed by a qualified professional engineer registered in the State of New Jersey, that the repairs and cleanup have been completed according to the written plan. [40 CFR 264.1101(c)(3)]
109. Within 180 days after receiving the final volume of waste at the Containment Building, the permittee shall conduct soil sampling around the Containment Building in accordance with the approved closure plan. Soil sampling shall not be conducted prior to the removal of all waste from the unit. The permittee shall notify the Department in writing at least forty two (42) calendar days prior to initiation of soil sampling so that an auditor from the Department can be present during the sampling episode. Soil sampling analytical results shall be submitted to the Department either prior to or with the closure report. [40 CFR 264.1102(a)]
110. Within 180 days after receiving the final volume of waste at the Containment Building, the permittee must remove or decontaminate all waste residues, contaminated system components (liner, etc.), contaminated subsoils, and structures and equipment contaminated with waste and leachate, and manage them as hazardous waste unless 40 C.F.R. 261.3(d) applies. Decontamination shall take the form of washing with detergent and water at high pressure. [40 CFR 264.1102(a)]
111. The permittee shall not place incompatible hazardous waste or treatment reagents into the Containment Building or its secondary containment system if they could cause the unit or secondary containment system to leak, corrode, or otherwise fail. [40 CFR 264.1101(a)(3)]
112. The permittee shall take measures to prevent the release of liquids or wet materials into areas without secondary containment. [40 CFR 264.1101(d)(2)]
113. The permittee is authorized to utilize the following equipment for the solidification/stabilization of wastes: back hoe; fork lift; drum grappeler; front end loader; leak proof roll-offs; leak proof dump trailers; leak proof intermodal containers; concrete cells 1, 2, 3 and 4; approve reagent listed in Table 4-3; and screening equipment. The permittee may add or delete equipment from the above list provided the permittee has given the Department, at the address listed in this permit, written notification of such addition(s) or deletions(s) and the permittee has received written approval from the Department. [40 CFR 270.32(b)]

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114. The permittee is authorized to consolidate compatible waste from containers into roll offs, rail cars (including gondolas), dump trucks, or dump trailers; place in storage cells; or place in the processing area of the building. Only bulk wastes that are not D001 or D003 waste shall be consolidated in roll offs. Before consolidating waste, the permittee shall test a representative sample of the waste in accordance with the Waste Analysis Plan. [40 CFR 270.32((b))]
115. If, after removing or decontaminating all residues and making all reasonable efforts to effect removal or decontamination of contaminated components, subsoils, structures, and equipment, the permittee finds that not all contaminated subsoils can be practicably removed or remediated in accordance with requirement 104, the permittee must close the Containment Building and perform post-closure care in accordance with the closure and post-closure requirements that apply to landfills (40 C.F.R. 264.310). In addition, for the purposes of closure, post-closure, and financial responsibility, the Containment Building will then be considered to be a landfill, and the permittee must meet all of the requirements for landfills specified in 40 C.F.R. Part 264 Subparts G and H. [40 CFR 264.1102(b)]
116. All surfaces of the Containment Building to be in contact with waste shall be chemically compatible with those wastes. [40 CFR 264.1101(a)(2)]
117. Within 180 days after receiving the final volume of waste at the Containment Building, if decontamination has been performed, the permittee shall collect all residues generated during decontamination of the Containment Building and its components and ship these residues off-site to a facility authorized to manage such waste. [40 CFR 264.114]
118. Upon closure of the CBU, soil contamination shall be addressed in accordance with the Department's Technical Requirements for Site Remediation, N.J.A.C. 7:26E, including the requirements for remediation of historic fill as defined in those rules. Contamination resulting from the permittee's operation, if any, shall be addressed and remediated by the permittee as part of the closure of the CBU. [40 CFR 270.32(b)]

Subject Item: HWSG785088 - Hazardous Waste Storage Tanks ST-4 and ST-5

119. The permittee is authorized to store and/or treat hazardous waste authorized by this permit in tank systems ST-4 and ST-5. Treatment shall be limited to blending, bulking, filtration, and decanting. Each tank shall have a maximum capacity of 7,500 gallons. Both tanks are 10 feet in diameter, 20 feet high, vertical, aboveground, and constructed of carbon steel. Both tanks are located in the Tank Farm. [40 CFR 270.32(b)(1), 40 CFR 264.13, 40 CFR 264.197]
120. The permittee shall design, construct, operate, and maintain each tank system in accordance with the application documents referenced in this permit. [40 CFR 270.32(b)(1)]
121. Each secondary containment system must be designed, installed, and operated to prevent migration of waste or accumulated liquid out of the system to the soil, ground water, or surface water at any time during use of the tank system. [40 CFR 264.193(b)(1)]
122. Spilled or leaked waste and accumulated precipitation must be removed from the secondary containment system within 24 hours, or in as timely a manner as is possible to prevent harm to human health and the environment, if the permittee can demonstrate to the Department that removal of the released waste or accumulated precipitation cannot be accomplished within 24 hours. [40 CFR 264.193(c)(4)]

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123. Each secondary containment system must be maintained free of cracks and gaps. [40 CFR 264.193(e)(1)(iii)]
124. The permittee must not place hazardous wastes or treatment reagents in a tank system if they could cause the tank, its ancillary equipment, or the secondary containment system to rupture, leak, corrode, or otherwise fail. [40 CFR 264.194(a)]
125. The permittee must comply with the requirements of 40 C.F.R. 264.196 if a leak or spill occurs in a tank system. [40 CFR 264.194(c)]
126. The permittee must not place ignitable or reactive waste in a tank system unless the permittee complies with 40 C.F.R. 264.198. [40 CFR 264.198]
127. The permittee must not place incompatible wastes, or incompatible wastes and other materials, in the same tank system, unless the permittee complies with 40 C.F.R. 264.17(b). [40 CFR 264.199(a)]
128. The permittee must not place hazardous waste in a tank system that has not been decontaminated if the tank system previously held an incompatible waste or material, unless the permittee complies with 40 C.F.R. 264.17(b). [40 CFR 264.199(b)]
129. The permittee shall manage all hazardous waste placed in a tank system in accordance with the applicable requirements of Subparts AA, BB, and CC of 40 C.F.R. Part 264. [40 CFR 264.200]
130. The permittee shall inspect the following items at least once each operating day: Tank Shells for corrosion, wet seams, bulges, rivets or welds; Tank Supports for corrosion and deterioration; Overfill Prevention Controls for deterioration, damage, and function; Spill Prevention Controls for deterioration, leaks, damage, and function; Tank Ancillary Equipment for deterioration, leaks, damage, and function; Containment System for erosion, wet spots, cracks, gaps, uneven settlement, spalling, spills, and precipitation; Tank Labels and Warning Signs for visibility; and Emergency Equipment for function and unobstructed availability. The permittee shall inspect the following items at least once each month: Tank High Level Alarms for proper operation and maintenance; Tank High Level Automatic Fee Cut-Off Devices for proper operation and maintenance; and Tank Guages for proper operation and maintenance. [40 CFR 264.195]
131. Within ninety (90) days after receiving the final volume of hazardous waste at a hazardous waste tank system, the permittee shall remove all hazardous waste from the tanks and manifest such waste to an off-site authorized facility. [40 CFR 264.113(a)]
132. Within 180 days after receiving the final volume of hazardous waste at a hazardous waste tank system, the permittee shall complete decontamination of the tanks, their ancillary equipment, and their secondary containment systems. Decontamination procedures shall include power washing with detergent/water. [40 CFR 264.197(a)]
133. Within one hundred eighty (180) days after receiving the final volume of hazardous waste at the tank system, the permittee shall collect all residues generated from the decontamination of the tank system components and ship the material off-site to a facility authorized to manage such waste. [40 CFR 264.197(a)]

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134. Within 180 days after receiving the final volume of hazardous waste at a hazardous waste tank system, the permittee shall complete decontamination verification procedures for the tanks, their ancillary equipment and secondary containment systems. Decontamination verification shall consist of collecting samples of the final wash water from the decontamination of the secondary containment units, the tanks, and all tank appurtenances and a wash water blank and analyzing the samples for the parameters listed in Table 5.1 of the Facility Closure Decontamination Sampling Plan referenced in this permit. Decontamination methods shall be repeated until the concentrations of the final waste water test parameters are equal to the amount present in a wash water blank. [40 CFR 264.197(a)]
135. The permittee shall submit to the Department, either prior to or with the closure report, the results of the decontamination verification procedures. The Department will review the results and notify the facility if additional decontamination procedures are required. The permittee shall not remove any equipment or structures requiring decontamination from the site until the Department has made a determination that decontamination was adequate. [40 CFR 264.115]
136. Within sixty (60) days of completion of closure of a hazardous waste tank system, the permittee shall submit to the Department, by registered mail, a report of closure activities. The report shall include a certification that the tank system has been closed in accordance with the specifications of the approved closure plan and this permit and supporting documentation. The certification must be signed by the facility and by an independent registered professional engineer licensed by the State of New Jersey. The Department will review the report and perform an inspection of the facility. Based on the review of the report and the results of the inspection, the Department will notify the facility of the acceptability of the closure certification and of any additional activities which may be required. [40 CFR 264.115]
137. Every day the facility is in operation the permittee shall record in an inspection log or summary the volume of any tank used for the storage of hazardous waste. The permittee shall place the inspection log or summary record of the tank storage volume into the operating record of the facility. [40 CFR 264, 40 CFR 270.32(b), 40 CFR 264.73]
138. Within one year of the issuance of this permit, the permittee shall construct the containment area for the replacement/relocation of Tanks ST4 and ST-5, in accordance with the design and location in drawing CENJ-06 entitled "New Containment Area Foundation Plan Sections and Details." [40 CFR 270.32(b)]
139. The permittee shall operate and maintain the tank decanting process in accordance with the permit application documents and the engineering designs referenced in this permit. Before decanting any waste, the permittee shall test a representative sample of the waste to be decanted in accordance with the Waste Analysis and Quality Assurance requirements of this permit. The permittee shall decant liquid waste from tanks authorized by this permit by pumping, vacuuming, gravity or other equivalent methods; and the permittee shall perform the decanting of liquid waste and subsequent transfer of such waste within the storage, transfer, and treatment areas authorized by this permit. [40 CFR 270.32(b)]

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140. The permittee is authorized to use ST-4 and ST-5 to conduct blending, bulking, decanting, filtration, and storage of organic solvent/aqueous wastes identified with the following hazardous waste numbers: D001, D002, D004 through D043, F001 through F012, F019, F024, F025, F032, F034, F035, F037, F038, F039, K001 through K011, K013, K014, K015 through K030, K035, K036, K042, K044, K046, K048 through K052, K060, K061, K062, K079, K081, K083 through K088, K093 through K096, K100 through K105, K156 through K161, P001, P006, P022, P028, P029, P030, P050, P053, P055, P064, P074, P098, P105, P106, P120, P127, P128, P185, P188 through P192, P194, P196 through P199, P201 through P205, U001 through U012, U014 through U027, U028 through U031, U034 through U039, U041 through U053, U055 through U064, U066 through U099, U101, U102, U103, U105 through U134, U136, U137, U139, U140 through U159, U161 through U174, U177, U179 through U189, U190 through U194, U197, U200 through U228, U230 through U235, U237, U239, U240, U242, U243, U244, U246, U247, U248, U249, U271, U272, U277 through U280, U328, U353, U359, U364 through U367, U372, U373, U375 through U379, U381, U382 through U387, U389 through U396, U400 through U404, U407, U409, U410, and U411. The permittee is authorized to manage ID 72 waste in ST-4 and ST-5 pursuant to the permittee's Solid Waste Permit and provided the decontamination procedures, outlined in section 3.1 of the approved application document, are followed. [40 CFR 270.32(b)]
141. The permittee shall operate and maintain the blending and bulking treatment process in accordance with the permit application documents and engineering designs referenced in this permit and as follows. Before treating any waste, the permittee shall test a representative sample of the waste to be treated in accordance with the Waste Analysis and Quality Assurance requirements of this permit. Waste derived fuels and other wastes resulting from the treatment process shall be managed in accordance with the requirements of this permit until shipped off-site to facilities authorized to receive these wastes. The permittee is authorized to utilize the following equipment in the blending and bulking treatment process: Tanks ST-4 and ST-5; a set of filter screens; liquid transfer pumps with explosion proof motors; assorted transfer hoses; grounding lines; one 12' x 4' x 4' screen filter box; one 5.83' x 4' x 3' screen filter box; and one in-line dispersing grinder with explosion proof motor. The permittee may add or delete equipment from the above list provided the permittee has given the Department written notification of such addition(s) or deletions(s), and the permittee has received written approval from the Department. [40 CFR 270.32(b)]
142. Within 180 days after receiving the final volume of hazardous waste at a tank system, the permittee shall conduct soil sampling around the tank in accordance with the approved closure plan. Soil sampling shall not be conducted prior to the removal of all hazardous waste from the unit. The permittee shall notify the Department in writing at least forty-two (42) calendar days prior to initiation of soil sampling so that an auditor from the Department can be present during the sampling episode. Soil sampling analytical results shall be submitted to the Department either prior to or with the closure report. [40 CFR 264.1102(a)]
143. The permittee is authorized to use ST-4 and ST-5 to conduct blending, bulking, decanting, filtration, and storage of aqueous wastes identified with the following hazardous waste numbers: D001, D002, D004 through D043, all "P" and "U" hazardous wastes listed at 40 C.F.R. 261.33, F001 through F012, F019 through F024, F025, F026 through F028, F032, F034, F035, F037, F038, F039, K001 through K011, K013 through K052, K060 Through K069, K071, K073, K079, K081, K083 through K088, K090, K091, K093 through K118, K123 through K126, K131, K132, K136, and K156 through K161. [40 CFR 270.32(b)]

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144. The permittee is authorized to replace/relocate tanks ST-4 and ST-5 for installation in the new containment area. Replacement tanks shall be of equivalent capacity.

For replacement of ST-4 and ST-5, the permittee shall submit, within 1 year of issuance of this permit, design plans for 2 new hazardous waste tanks. Within 1 year of approval of the new hazardous waste tank design, the permittee shall complete the installation. Within 30 days of completion of the installation, the permittee shall submit to the Department by certified mail or hand delivery, a letter signed by the permittee and a licensed professional engineer registered in the State of New Jersey, stating that the tanks and containment area have been installed in compliance with the approved design drawings and permit.

For relocation of ST-4 and ST-5, the permittee must submit to the Department, within 30 days after completion of the installation and by certified mail or hand delivery, a letter signed by the permittee and a licensed professional engineer registered in the State of New Jersey, stating that the tanks and containment area have been installed in accordance with the permit.

Upon receiving the letter regarding the tank replacement/relocation, the Department will inspect the tanks for compliance with the layout and specification of the design plans set forth in the engineering plans and reports. If within 15 days of the date of the submission of the permittee's letter, the permittee has not received from the Department a notice of intent to inspect, prior inspection is waived, and it is understood that the tanks meet the design requirements. If the tanks are not in conformance, a schedule for Department approval will be submitted within 30 days of the Department's inspection, outlining how the tanks will be brought into conformance. The tanks shall not be used for hazardous waste management until the Department approves the installation. [40 CFR 270.32((b))]

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145. The permittee is authorized to store, treat and/or transfer wastes authorized by this permit in the following existing container storage areas with the following maximum capacity:

Container Storage Area	Maximum Capacity
A	48,000 gallons
B	21,560 gallons
C	17,600 gallons
D	10,560 gallons
E	19,500 gallons
F	20,625 gallons
G	48,000 gallons
Main Processing Pad & Loading/Unloading Dock	80,000 gallons
East Pad of the QC Dock	20,000 gallons
West Pad of the QC Dock	60,000 gallons
QC Dock	11,500 gallons
Tank Farm Loading/Unloading Pad	30,879 gallons
Hockmeyer Area	24,640 gallons

The total maximum capacity for these 13 container storage areas is 412,864 gallons. [40 CFR 270.32(b)]

146. The permittee shall design, construct, operate and maintain each container storage area in accordance with the application documents referenced in this permit. [40 CFR 264]
147. If a container holding hazardous waste is not in good condition (e.g., severe rusting, apparent structural defects, etc.) or if it begins to leak, the permittee must transfer the hazardous waste from this container to a container that is in good condition. [40 CFR 264.171]
148. The permittee must use a container made of or lined with materials, which will not react with and are otherwise compatible with the hazardous waste to be stored, so that the ability of the container to contain the waste is not impaired. [40 CFR 264.172]
149. A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. [40 CFR 264.173(a)]
150. A container holding hazardous waste must not be opened, handled, or stored in a manner that may rupture the container or cause it to leak. [40 CFR 264.173(b)]
151. Each containment system must have a base underlying the containers that is free of cracks or gaps and is sufficiently impervious to contain leaks, spills, and accumulated precipitation until the collected material is detected and removed. [40 CFR 264.175(b)(1)]
152. The permittee must remove spilled or leaked waste and accumulated precipitation from each containment system in as timely a manner as is necessary to prevent overflow of the collection system. [40 CFR 264.175(b)(5)]
153. The permittee must not place incompatible wastes, or incompatible wastes and other materials, in the same container, unless the permittee complies with 40 C.F.R. 264.17(b). [40 CFR 264.177(a)]
154. The permittee must not place waste in an unwashed container that previously held an incompatible waste or material. [40 CFR 264.177(b)]

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155. A storage container holding waste that is incompatible with any waste or other material stored nearby must be separated from the other materials or protected from them by means of a dike, berm, wall, or other device. [40 CFR 264.177(c)(1)]
156. The permittee shall manage all hazardous waste placed in a container in accordance with the applicable requirements of Subparts AA, BB, and CC of 40 C.F.R. Part 264. [40 CFR 264.179]
157. The permittee shall inspect each container storage/treatment area on a weekly basis for the following: all containers securely closed; any leaking containers; any containers swollen or bulged; any containers concaved due to internal vacuum build up; any containers with corrosion; all containers properly labeled and identified; all containers compatible with the waste stored in them; adequate aisle space; and all containers supported above any standing liquids. Containers shall be properly labeled as follows: containers in-transit shall be labeled and marked in accordance with the applicable US Department of Transportation regulations at 49 CFR part 172; containers of hazardous waste generated on-site by Clean Earth shall be clearly marked with the words "Hazardous Waste" and the date upon which the accumulation period begins in accordance with 40 CFR 262.34(a); and all other containers shall be clearly marked to identify its contents and the date upon which the accumulation period begins. [40 CFR 264.174]
158. Within 90 days after receiving the final volume of waste at a hazardous waste container storage area(s), the permittee must remove all waste from the area(s) and ship the waste to an authorized facility. [40 CFR 264.113(a)]
159. Within one hundred eighty (180) days after receiving the final volume of waste at a hazardous waste container storage area, the permittee must complete decontamination of the area. Decontamination procedures shall include washing the containment system with water and detergent at high pressure. [40 CFR 264.178]
160. Within one hundred eighty (180) days after receiving the final volume of waste at the container storage area, the permittee shall collect all residues generated from the decontamination of the container storage area and ship the material off-site to a facility authorized to manage such waste. [40 CFR 264.178]
161. Within one hundred eighty (180) days after receiving the final volume of waste at a hazardous waste container storage area, the permittee must complete decontamination verification procedures for the area. Decontamination verification shall consist of sampling and testing the final rinse water from the hazardous waste container storage area and a wash water blank for the parameters listed in Table 9.1 "Decontamination Verification Samples; Location, Number and Type" as referenced in this permit. Decontamination methods shall be repeated until the concentrations of the rinse water test parameters are equal to the amount present in a wash water blank. [40 CFR 264.178]
162. The permittee shall submit to the Department, either prior to or with the closure report, the results of the decontamination verification procedures. The Department will review the results and notify the facility if additional decontamination procedures are required. The permittee shall not remove any equipment or structures requiring decontamination from the site until the Department has made a determination that decontamination was adequate. [40 CFR 264.115]
163. The permittee shall maintain a minimum aisle space of 18 inches between double rows of containers. Containers smaller than 110 gallons shall be stacked no higher than the equivalent of two 110 gallon containers, while 110 gallon containers shall be stacked no greater than two high. Containers greater than 110 gallons shall not be stacked. [40 CFR 264.35]

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164. The permittee shall not locate containers holding ignitable or reactive waste within 50 feet of the facility's property boundary. [40 CFR 264.176]
165. Within 180 days of receiving the final volume of waste at a container storage area, the permittee shall perform closure soil sampling around the area in accordance with the Revised Soil Sampling and Analytical Closure Plan referenced in this permit. Soil sampling shall not be conducted prior to the removal of all hazardous waste from the units. The permittee shall notify in writing the Department at the address listed in this permit at least forty two (42) calendar days prior to initiation of soil sampling so that an auditor from the Department can be present during the soil sampling episode. Soil sampling analytical results shall be submitted for the Department's review either prior to or with the closure report. [40 CFR 270.32(b)]
166. The permittee is authorized to operate as a transfer station for containerized waste authorized by this permit. Containers accepted for transfer shall not be opened by the permittee except for inspection, sampling or analysis in accordance with the waste analysis requirements of this permit, repackaging of the contents of the container as authorized by this permit, or repackaging of a damaged container. [40 CFR 270.32(b)]
167. The permittee is authorized to conduct consolidation, storage, decanting, staging, transfer, loading/unloading, screening and vehicle staging for solid, sludges or slurry wastes identified with the following waste numbers: D001, D002, D004 through D043, all "P" and "U" hazardous wastes listed at 40 C.F.R. 261.33, F001 through F012, F019 through F024, F025, F026 through F028, F032, F034, F035, F037, F038, F039, K001 through K011, K013 through K052, K060 through K069, K071, K073, K079, K081, K083 through K088, K090, K091, K093 through K118, K123 through K126, K131, K132, K136, K156 through K161, K169, K170, K171 and K172. [40 CFR 270.32(b)]
168. The permittee is authorized to operate a process for the repackaging of containers of solid and semi-solid wastes authorized by this permit in accordance with the permit application documents and engineering designs referenced in this permit. Repackaging of waste from one container to another new or replacement container may occur at any of the hazardous waste storage areas. Repackaging of waste from a single container to more than one container shall only occur at: the Main Processing Pad & Loading/Unloading Dock Area; Tank Farm Loading/Unloading Pad; the CBU; Storage Areas C and F. Before repackaging a waste, the permittee shall test a representative sample of the waste in accordance with the waste analysis requirements of this permit. Once repackaged, the containers shall be placed in an authorized container storage area pending shipment to an authorized off-site facility. [40 CFR 270.32(b)]
169. The permittee is authorized to operate a treatment process for the consolidation of the compatible contents of containers of waste authorized by this permit. The permittee shall consolidate waste only at Main Processing Pad & Loading/Unloading Dock; Tank Farm Loading/Unloading Pad; Container Storage Area B; Container Storage Area C; and covered area of Container Storage Area F. Before consolidating any waste, the permittee shall test a representative sample of the waste in accordance with the waste analysis requirements of this permit. The permittee shall consolidate waste from containers into rolloffs for transfer to the Containment Building or for bulk shipment to an authorized off-site facility. The permittee is authorized to consolidate bulk wastes into rolloffs wastes authorized by this permit, with the exception of D001 and D003 waste as defined at 40 C.F.R. 261.21 and 261.23. [40 CFR 270.32(b)]

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170. The permittee is authorized to conduct blending, bulking, decanting, storage, staging, transfer, filtration, loading/unloading and vehicle staging for organic solvent/aqueous wastes identified with the following waste numbers: D001, D002, D004 through D043, F001 through F009, F010, F011, F012, F019, F024, F025, F032, F034, F035, F037, F038, F039, K001 through K011, K013, K014, K015 through K030, K035, K036, K042, K044, K046, K048 through K052, K060, K061, K062, K079, K081, K083 through K088, K093 through K096, K100 through K105, K156 through K161, K169, K170, K171 and K172, P001, P006, P022, P028, P029, P030, P050, P053, P055, P064, P074, P098, P105, P106, P120, P127, P128, P185, P188 through P192, P194, P196 through P199, P201 through P205, U001 through U012, U014 through U027, U028 through U031, U034 through U039, U041 through U053, U055 through U064, U066 through U099, U101, U102, U103, U105 through U134, U136, U137, U139, U140 through U159, U161 through U174, U177, U179 through U189, U190 through U194, U197, U200 through U228, U230 through U235, U237, U239, U240, U242, U243, U244, U246, U247, U248, U249, U271, U272, U277 through U280, U328, U353, U359, U364 through U367, U372, U373, U375 through U379, U381, U382 through U387, U389 through U396, U400 through U404, U407, U409, U410, and U411. [40 CFR 270.32(b)]
171. At the East Pad of the QC dock, the permittee is authorized to treat, store, and transfer waste authorized by this permit, including D001, D003, and PCB waste (including waste containing PCBs at 50 ppm or greater). The waste capacity of this area shall be limited to a maximum of 20,000 gallons. Individual tanker containers shall not be larger than 7,000 gallons. Rolloff containers shall not be larger than 40 cubic yards. Non-rolloff containers shall not be larger than 300 gallons. Blending & bulking and decanting of waste and repackaging of non-lab pack (one container to a new or replacement container only) waste is authorized in this area. [40 CFR 270.32(b)]
172. The permittee is authorized to stage vehicles containing waste for parking or loading/unloading in the existing hazardous waste management areas listed below. The permittee shall place all incoming shipments into a treatment or storage area authorized by this permit by the same time of day that the waste shipment originally entered the facility property on the next operating day of the facility. The permittee shall remove from the facility property or place into a storage or treatment area authorized by this permit all outgoing waste shipments within 24 hours (or next operating day following a weekend or holiday) of the time the waste shipment was originally removed from a storage or treatment area authorized by this permit and placed into a vehicle staging or loading/unloading area authorized by this permit. Waste staged for the purpose of parking or loading/unloading shall not count toward the permitted waste container storage capacities authorized by this permit until the time limits specified above have been exceeded. The permittee shall operate and maintain the vehicle staging and loading/unloading areas in accordance with the application documents referenced in this permit. Vehicles containing hazardous wastes shall only be staged at the following locations as identified on the application documents: Tank Farm Loading/Unloading Pad; West Pad of the QC Dock; East Pad of the QC Dock; Main Processing Pad & Loading/Unloading Dock; and the Containment Building. [40 CFR 270.32(b)]

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173. The permittee is authorized to conduct solidification/stabilization with approved reagents listed on Table 4-3, staging, transfer, storage, decanting, consolidation, screening, loading/unloading and vehicle staging for solid, sludge or slurry wastes identified with the following waste numbers: All "D" hazardous waste listed at 40 C.F.R. 261.21 through 261.24, all "P" and "U" hazardous wastes listed at 40 C.F.R. 261.33, F001 through F012, F019 through F024, F025, F026 through F028, F032, F034, F035, F037, F038, F039, K001 through K011, K013 through K052, K060 through K069, K071, K073, K079, K081, K083 through K088, K090, K091, K093 through K118, K123 through K126, K131, K132, K136, K156 through K161, K169, K170, K171, and K172. [40 CFR 270.32(b)]
174. At the West Pad of the QC dock, the permittee is authorized to treat, store, and transfer waste authorized by this permit, with the exception of PCB waste. The waste capacity of this area shall be limited to a maximum of 60,000 gallons. Individual Tankers shall not be larger than 6,000 gallons; all other container types shall not be larger than 30 cubic yards. Blending & bulking and decanting of waste and repackaging of non-lab pack waste (one container to a new or replacement container only) is authorized in this area. [40 CFR 270.32(b)]
175. The permittee shall record, in an inspection log or summary, the internal tracking of containers of hazardous waste that have been rejected by the ultimate treatment, storage or disposal facility and subsequently returned to the permittee. The permittee shall place this inspection log or summary into the operating record of the facility. [40 CFR 264, 40 CFR 270.32(b), 40 CFR 264.73]
176. The permittee shall take precautions to prevent accidental ignition or reaction of ignitable or reactive waste. [40 CFR 270.32(b)]
177. In Container Storage Area F, the permittee is authorized to treat, store, and transfer waste authorized by this permit, with the exception of D001, D003 and PCB waste. The waste capacity of Container Storage Area F shall be limited to a maximum of 20,625 gallons. Individual containers shall not be larger than 300 gallons. The storage and processing of lab packs, the consolidation of containerized waste, and solidification/stabilization of waste in containers shall only be conducted in the covered portion of Container Storage Area F. Blending & bulking and decanting of waste is authorized in all portions of this area. [40 CFR 270.32(b)]
178. In Container Storage Area A, the permittee is authorized to treat, store, and transfer waste authorized by this permit, including D001, D003, and PCB waste (including waste containing PCBs at 50 ppm or greater). The waste capacity of Area A shall be limited to a maximum of 48,000 gallons. Non-rolloff containers shall not be larger than 300 gallons. Rolloff containers shall not be larger than 40 cubic yards. Cargo tanks shall not be larger than 8,000 gallons. Blending & bulking and decanting of waste and the repackaging of non-lab pack waste (one container to a new or replacement container only) is authorized in this area. [40 CFR 270.32(a)]
179. At the Tank Farm Loading/Unloading Pad, the permittee is authorized to treat, store, and transfer waste authorized by this permit, with the exception of PBC waste. The waste capacity at the Tank Farm Loading/Unloading Pad shall be limited to a maximum of 30,879 gallons. Individual tankers shall not be larger than 7,000 gallons. Consolidation, blending & bulking, decanting, and filtration of waste, and repackaging of non-lab pack waste is authorized in this area. [40 CFR 270.32(b)]
180. At the Quality Control (QC) dock the permittee is authorized to treat, store, and transfer waste authorized by this permit, including D001, D003, and PCB waste (including waste containing PCBs at 50 ppm or greater). The waste capacity of this area shall be limited to a maximum of 11,500 gallons. Individual containers shall not be larger than 300 gallons. [40 CFR 270.32(b)]

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Subject Item: HWSG787685 - Hazardous Waste Container Storage/Treatment Areas

181. In Container Storage Area C, the permittee is authorized to treat, store, and transfer waste authorized by this permit, including D001, D003, and PCB waste (including waste containing PCBs at 50 ppm or greater). The waste capacity of Area C shall be limited to a maximum of 17,600 gallons. Individual containers shall not be larger than 300 gallons. The storage and processing (including repackaging) of lab packs is permitted in this area. Consolidation, blending and bulking, solidification/stabilization in containers, and repackaging of non-lab pack waste is authorized in this area. [40 CFR 270.32(b)]
182. In Container Storage Area B, the permittee is authorized to treat, store, and transfer waste authorized by this permit, with the exception of PCB waste. The waste capacity of Area B shall be limited to a maximum of 21,560 gallons. Individual containers shall not be larger than 300 gallons. Consolidation, blending & bulking, and decanting of waste and repackaging of non-lab pack waste (one container to a new or replacement container only) is authorized in this area. [40 CFR 270.32(b)]
183. The permittee is authorized to conduct blending, bulking, decanting, storage, staging, transfer, filtration, loading/unloading and vehicle staging for aqueous wastes identified with the following waste numbers: D001, D002, D004 through D043, all "P" and "U" hazardous wastes listed at 40 C.F.R. 261.33, F001 through F012, F019 through F024, F025, F026 through F028, F032, F034, F035, F037, F038, F039, K001 through K011, K013 through K052, K060 through K069, K071, K073, K079, K081, K083 through K088, K090, K091, K093 through K118, K123 through K126, K131, K132, K136, K156 through K161, K169, K170, K171 and K172. [40 CFR 270.32(b)]
184. The permittee shall use the QC Dock or any treatment, storage, transfer, loading/unloading, or staging area authorized by this permit for receiving all incoming waste shipments. [40 CFR 270.32(b)]
185. The permittee is authorized to conduct repackaging, decanting, storage, transfer, staging, filtering, loading/unloading and vehicle staging for waste identified with the following waste numbers : D001, D002, D004 through D043, F001 through F012, F019, F024, F025, F028, F032, F034, F035, F037, F038, F039, K001 through K062, K064, K065, K066, K069, K071, K073, K083 through K088, K090, K091, K093 through K118, K123 through K126, K131, K132, K136, K141, K147, K148, K156 through K161, K169, K170, K171 and K172, P001 through P018, P020 through P024, P026 through P031, P033, P034, P036 through P051, P054, P056 through P060, P062 through P078, P081, P082, P084, P085, P087, P088, P089, P092 through P099, P101 through P116, P118 through P123, P127, P128, P185, P188 through P192, P194, P196, P199, P201 through P205, U001 through U009, U014 through U039, U041 through U053, U055 through U099, U101 through U174, U176 through U194, U196, U197, U200 through U211, U213 through U223, U225 through U228, U234 through U240, U243, U244, U246 through U249, U271, U272, U277 through U280, U328, U353 through U359, U364 through U367, U372, U373, U375 through U379, U381, U382 through U387, U389 through U396, U400 through U404, U407, U409, U410, and U411. [40 CFR 270.32(b)]

CLEAN EARTH OF NORTH JERSEY INC
NJD991291105 HWP040002 Hazardous Waste Facility Permit -Permit Renewal
Requirements Report

Subject Item: HWSG787685 - Hazardous Waste Container Storage/Treatment Areas

186. The permittee is authorized to operate a treatment process for the blending and bulking of organic solvent waste or aqueous waste in any of the authorized storage, transfer or treatment areas authorized by this permit. The permittee shall operate and maintain the treatment process in accordance with the application documents and engineering designs referenced in this permit. Before treating any waste, the permittee shall test a representative sample of the waste in accordance with the waste analysis requirements of this permit. If necessary, the permittee shall decant liquid waste from containers utilized in the treatment process in accordance with the decanting requirements of this permit. Waste derived fuels, waste solvents and aqueous wastes produced by the treatment process shall be managed in accordance with the requirements of this permit pending shipment to off-site authorized facilities. The permittee is authorized to utilize the following equipment in the blending and bulking treatment process: two 5,000 gallon mobile tankers; one 4,000 gallon mobile tanker; a set of filter screens; liquid transfer pumps with explosion proof motors; assorted transfer hoses; two container homogenizing mixers; grounding lines; one 12'x4'x4' screen filter box; one 5.83'x4'x3' screen filter box; and one in-line dispersing grinder with explosion proof motor. The permittee may add or delete equipment from this list provided the permittee has given the Department written notification of such addition(s) or deletion(s) and the permittee has received written approval from the Department. [40 CFR 270.32(b)]
187. At the Hockmeyer Area, the applicant is authorized to treat, store, and transfer waste authorized by the permit, with the exception of D001, D003, and PCB waste. The waste capacity of this area shall be limited to a maximum of 24,640 gals. Individual containers shall not be larger than 119 gallons. Blending & bulking and decanting of waste and repackaging of non-lab pack waste (one container to a new or replacement container only) is authorized in this area. [40 CFR 270.32(b), 40 CFR 264]
188. The permittee is authorized to operate a treatment process for decanting liquid containerized waste authorized by this permit in accordance with the application documents and engineering designs referenced in this permit. The permittee may conduct the decanting process within any of the existing storage, transfer and treatment areas authorized by this permit. Before decanting any waste, the permittee shall test a representative sample of the waste in accordance with the waste analysis requirements of this permit. The permittee shall decant the waste from containers by aspirating, pouring, pumping or siphoning. [40 CFR 270.32(b)]
189. Every day the facility is in operation, the permittee shall record in an inspection log or summary the number and volume of containers in each storage area. [40 CFR 261.7, 40 CFR 264, 40 CFR 270.32(b)]

CLEAN EARTH OF NORTH JERSEY INC
NJD991291105 HWP040002 Hazardous Waste Facility Permit -Permit Renewal
Requirements Report

Subject Item: HWSG787685 - Hazardous Waste Container Storage/Treatment Areas

190. The permittee is authorized to stage incoming compatible, containerized waste in the existing locations listed below in accordance with the permit application documents and engineering designs referenced in this permit. The permittee shall place all incoming waste shipments into a treatment or storage area authorized by this permit by the same time of day that the waste shipment originally entered the facility property on the next operating day of the facility. The permittee shall remove from the facility property or place into a storage or treatment area authorized by this permit all outgoing waste shipments by the same time of day that the waste shipment was originally removed from a storage or treatment area authorized by this permit and placed into a container staging or loading/unloading area authorized by this permit on the next operating day of the facility. Staged containerized waste shall not count toward the permitted waste container storage capacities authorized by this permit until the time limits specified above have been exceeded. Containers of hazardous waste may be staged at the following locations: Tank Farm Loading/Unloading Pad; QC Dock; Main Processing Pad & Loading/Unloading Dock; West Pad of the QC Dock; East Pad of the QC Dock; Container Storage Areas A, C, D, E, and G; and the Containment Building. [40 CFR 270.32(b)]
191. The permittee shall render empty, in accordance with 40 CFR 261.7, any container that has held hazardous waste before on-site crushing of such container in the permittee's drum crusher. [40 CFR 270.32(b)]
192. The permittee is authorized to operate a treatment process to filter wastes authorized by this permit in any container storage area authorized by this permit. The permittee shall operate and maintain the treatment process in accordance with the application documents and engineering designs referenced in this permit. Liquid or semi-liquid waste may be pumped through portable filtration devices to remove suspended solids prior to transferring such waste to any storage, transfer or treatment activity authorized by this permit. The permittee is authorized to utilize the following equipment for the filtration process: one 12'x4'x4' screen filter box; one 5.83'x4'x3' screen filter box; assorted transfer hoses; grounding lines; portable filtration devices; a set of filter screens; pumps with explosion proof motors; and in-line dispersing grinders with explosion proof motors. The permittee may add or delete equipment from this list provided the permittee has given the Department written notification of such addition(s) or deletion(s) and the permittee has received written approval from the Department. [40 CFR 270.32(b)]
193. For the lab pack repackaging process, the permittee shall bulk compatible waste to be processed in containers. The processed container shall be assigned a container number and the contents of the container shall be recorded on a consolidation sheet which shall be on file with the Quality Assurance Supervisor. Before bulking a waste, the permittee shall test a representative sample of the waste in accordance with the procedures outlined in Appendix 5-4 "Compatibility Procedures for "Processing Lab Pack Containers" in the documents referenced in this permit. The emptied bottles, jars, jugs, etc. shall be crushed and accumulated in a container authorized for hazardous waste solids which shall be manifested off-site to an authorized facility. The soiled packing media shall also be accumulated in a container authorized for hazardous waste solids which shall be manifested off-site to an authorized facility. Unsoiled packing media may be reused. [40 CFR 270.32(b)]

CLEAN EARTH OF NORTH JERSEY INC
NJD991291105 HWP040002 Hazardous Waste Facility Permit -Permit Renewal
Requirements Report

Subject Item: HWSG787685 - Hazardous Waste Container Storage/Treatment Areas

194. The permittee is authorized to operate a treatment process for the solidification/stabilization of hazardous waste in containers utilizing approved reagents listed in Table 4-3 in accordance with the application documents and engineering designs referenced in this permit. The process shall be performed only within Container Storage Area C, the concrete containment pad surrounding the Main Processing Pad & Loading/Unloading Dock, and the Containment Building. Before treating any hazardous waste, the permittee shall test a representative sample of the waste in accordance with the waste analysis requirements of this permit. The process shall be performed in non-bulk containers up to 119 gallons or bulk containers up to 40 cubic yard capacity (limited to DOT authorized metal containers/bins, such as roll-offs, or non-metal containers, such as cardboard or fiber boxes, when required to facilitate off-site treatment or disposal, such as incineration). Partially filled containers shall be consolidated until a full container is obtained, if necessary. An approved solidification/stabilization reagent listed in Table 4-3 shall be added to the top of the container with a hand scoop or other similar equipment to absorb any free liquids, if necessary. Filled containers shall be resealed and labeled pending shipment to an authorized off-site facility. In the case where the treated waste will be sent off-site for thermal incineration or treatment, the untreated waste shall be transferred, prior to solidification/stabilization, to an incinerable container that meets the specification of the off-site destination facility. [40 CFR 270.32(b)]
195. At the Main Processing Pad & Loading/Unloading Dock, the permittee is authorized to treat, store, and transfer waste authorized by this permit, with the exception of PCB waste. The waste capacity of this area shall be limited to a maximum of 80,000 gallons. Individual containers shall not be larger than 8,000 gallons. D001 waste shall only be managed in portions of this area that are at least 50 feet from the property line. Consolidation, blending & bulking, decanting, and repackaging of non-lab pack waste is authorized in this area. Solidification/stabilization in containers is authorized within the secondary containment system of this area. [40 CFR 270.32(b)]
196. In Container Storage Area G, the permittee is authorized to treat, store, and transfer waste authorized by this permit, with the exception of D001, D003 and PCB waste. The waste capacity of Area G shall be limited to a maximum of 48,000 gallons. Individual containers shall not be larger than 300 gallons, and roll off containers shall not be larger than 40 cubic yards (8,000 gallons). Blending & bulking and decanting of waste and the repacking of non-lab pack waste (one container to a new or replacement container only) is authorized in this area. [40 CFR 270.32(b)]
197. In Container Storage Area E, the permittee is authorized to treat, store, and transfer waste authorized by this permit, with the exception of D001, D003 and PCB waste. The waste capacity of Area E shall be limited to a maximum of 19,500 gallons. Individual containers shall not be larger than 300 gallons, while rolloff container shall not be larger than 30 cubic yards. Blending & bulking and decanting of waste and repackaging of non-lab pack waste (one container to a new or replacement container only) is authorized in this area. [40 CFR 270.32(b)]

CLEAN EARTH OF NORTH JERSEY INC
NJD991291105 HWP040002 Hazardous Waste Facility Permit -Permit Renewal
Requirements Report

Subject Item: HWSG787685 - Hazardous Waste Container Storage/Treatment Areas

198. The permittee is authorized to conduct repackaging, staging, transfer, storage, decanting, consolidation, filtration, loading/unloading and vehicle staging of solid, semi-solid and liquid wastes identified with the following waste numbers: All "D" hazardous waste listed at 40 C.F.R. 261.21 through 261.24, all "P" and "U" hazardous wastes listed at 40 C.F.R. 261.33, F001 through F012, F019 through F024, F025, F026 through F028, F032, F034, F035, F037, F038, F039, K001 through K011, K013 through K052, K060 through K069, K071, K073, K079, K081, K083 through K088, K090, K091, K093 through K118, K123 through K126, K131, K132, K136, K141, K147, K148, K156 through K161, K169, K170, K171 and K172. The permittee shall manage PCB waste in Container Storage Areas A and C; QC dock; East Pad of QC Dock; and the CBU only. [40 CFR 270.32(b)]
199. The permittee is authorized to operate a repackaging process for lab packs in accordance with the application documents referenced in this permit. The repacking of lab packs shall be performed within Container Storage Area C and the covered portion of Container Storage Area F authorized by this permit. The permittee shall only accept sealed lab packs of up to 110 gallon capacity. The permittee shall only open 20 lab packs for repackaging at any one time. From the information on the packing list, the permittee's Quality Assurance Technician shall recommend the proposed disposition of each individual container within the lab pack by writing on the packing list either the letter "P" for on-site processing or "T" for transfer to an authorized off-site facility. The packing list with the recommended dispositions shall be filed with the Quality Assurance Supervisor for approval. A copy of this packing list with the recommended disposition(s) shall be affixed to the top of the lab pack container. Upon approval by the Quality Assurance Supervisor, the individual containers in the lab pack shall be removed and placed into other containers designated for specific approved disposition or left in the original container. For repacked lab packs for transfer, the lab pack shall be properly labeled and shall contain the new packing list. For every new addition to a lab pack, the packing list shall be amended. The packing list shall be placed on top of the container and a duplicate copy shall be filed with the Quality Assurance Supervisor with the additions to the lab pack listed. The permittee shall segregate individual bottles, jars, jugs, etc. in repacked lab pack containers in accordance with DOT regulations. When the new lab pack is filled, it shall be moved to any container storage or transfer area authorized by this permit pending shipment to an off-site authorized facility. [40 CFR 270.32(b)]
200. In Container Storage Area D, the permittee is authorized to treat, store, and transfer waste authorized by this permit, with the exception of D001, D003, and PCB waste. The waste capacity of Area D shall be limited to a maximum of 10,560 gallons. Individual containers shall not be larger than 300 gallons. Blending & bulking and decanting of waste and repackaging of non-lab pack waste (one container to a new or replacement container only) is authorized in this area. [40 CFR 270.32(b), 40 CFR 261.23, 40 CFR 261.22, 40 CFR 261.21, 40 CFR 264]

Tabulated Load Summaries

Generator's Site:

Bayside Substation Dead End of 215th St. and 41st Ave., Bayside, NY 11361

Designated Facility:

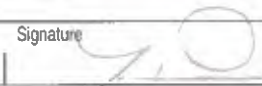
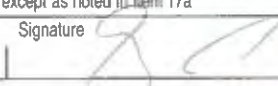
Clean Earth of Carteret, 24-Middlesex Ave., Carteret, NJ 07008

Non-regulated Solids (Soils)

Approval #203071328

Manifest:	Ticket	Date	Quantity (tons)
30728-120220-02	2383968	12/2/2020	32.38
30728-120220-01	2382763	12/2/2020	28.79
30728-112020-2	2377484	11/20/2020	27.41
30728-112020-1	2375822	11/20/2020	26.47
30728-111220-1	2368548	11/12/2020	25.56
30728-111220-2	2370692	11/12/2020	25.82
30728-101420-1	2349224	10/14/2020	24.37
30728-101620-1	2351267	10/16/2020	23.84
Total			214.64

Waste Manifests

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number		2. Page 1 of 1		3. Emergency Response Phone 831-386-3900		4. Waste Tracking Number NHWM10015A8 58-2	
		5. Generator's Name and Mailing Address ATTN: ALBERT ALBANO, DEPT. OF PROGRAM MANAGEMENT LONG ISLAND RAILROAD 93-59 183 RD STREET, 3 RD FLOOR JIS, NY 11423 Generator's Phone: 718-334-6123		Generator's Site Address (if different than mailing address) BAYSIDE SUBSTATION DEAD END OF 216 TH STREET & 41 ST AVENUE BAYSIDE, NY 11361					
6. Transporter 1 Company Name Munoz Trucking corp #113-AU314B NJ-		U.S. EPA ID Number 1777		7. Transporter 2 Company Name		U.S. EPA ID Number			
8. Designated Facility Name and Site Address CLEAN EARTH OF CARTERET 24 MIDDLESEX AVE., CARTERET, NJ 07008 Facility's Phone: 732-541-8909		U.S. EPA ID Number N/A							
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity		12. Unit Wt./Vol.			
		No. Type							
1. NON REGULATED SOLIDS (SOIL)									
2.									
3.									
4.									
13. Special Handling Instructions and Additional Information 1. APPROVAL # 203071328 JOB NO. 10015; TRUCK NO. 113									
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.									
Generator's/Owner's Printed/Typed Name Albert S. Albano		Signature 		Month 12		Day 2		Year 20	
15. International Shipments ☐ Import to U.S. ☐ Export from U.S.		Port of entry/exit:		Date leaving U.S.:					
Transporter Signature (for exports only):									
16. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name Jose Antonio Araya		Signature 		Month 12		Day 2		Year 20	
Transporter 2 Printed/Typed Name Jose Antonio Araya		Signature 		Month 12		Day 2		Year 20	
17. Discrepancy									
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection		Manifest Reference Number:							
17b. Alternate Facility (or Generator)		U.S. EPA ID Number							
Facility's Phone:									
17c. Signature of Alternate Facility (or Generator)				Month 12		Day 2		Year 20	
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a									
Printed/Typed Name B G		Signature 		Month 12		Day 2		Year 20	

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

Clean Earth of Carteret
24 Middlesex Ave

Carteret, NJ 07008

Ph: Fax:

Manifest: 30728-120220-02
Vehicle: 07MUN113
Decal:

Customer: ARCO ENV. SERVICES CORP
Generator: MTA-LIRR
Address: 144-41 94th Avenue
Jamaica, NY 10001

Material: Recyclable soil/rock/material

Driver:
Comment:

Ticket: 2383968
Date

In: 12/02/2020 16:25:09 CEC

Out: 12/02/2020 16:25:09 CEC

Lbs. Tn
Gross: 93960.00 46.98
Tare: 29200.00 14.6
Net: 64760.00 32.38

Carrier:
Profile #:

203071328

Job: Bayside Substation

Address: 216th St & 41st Ave-Dead End
Bayside, NY 11361

Facility: Clean Earth of Carteret
Barry Gibson

Dump AT

4:35 PM.

slow dumping

CLEAN EARTH INTERNAL

50128-120220-01

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 631-586-5900	4. Waste Tracking Number NHWM10015A7 SB-7
5. Generator's Name and Mailing Address ATTN: ALBERT ALBANO, DEPT. OF PROGRAM MANAGEMENT LONG ISLAND RAILROAD 93-59 183 RD STREET, 3 RD FLOOR JAMAICA, NY 11423			Generator's Site Address (if different than mailing address) BAYSIDE SUBSTATION DEAD END OF 216 TH STREET & 41 ST AVENUE BAYSIDE, NY 11361		
6. Transporter 1 Company Name Munoz Trucking corp #113-AU314BN3			U.S. EPA ID Number 1777		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address CLEAN EARTH OF CARTERET 24 MIDDLESEX AVE., CARTERET, NJ 07008 732-541-8909			U.S. EPA ID Number N/A		
Facility's Phone:					
9. Waste Shipping Name and Description			10. Containers		11. Total Quantity
			No. Type		12. Unit Wt./Vol.
1. NON REGULATED SOLIDS (SOIL)					
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information 1. APPROVAL # 203071328 JOB NO. 10015; TRUCK NO. 113					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Generator's Printed/Typed Name Albert S. Albano			Signature 		Month Day Year 12 2 20
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Jose Antonio Araya			Signature 		Month Day Year 12 2 20
Transporter 2 Printed/Typed Name			Signature		Month Day Year
17. Discrepancy					
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
Manifest Reference Number:					
17b. Alternate Facility (or Generator) U.S. EPA ID Number					
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator) Month Day Year					
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name B. G.			Signature 		Month Day Year 12 2 20

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

Clean Earth of Carteret
24 Middlesex Ave

Carteret, NJ 07008

Ph: Fax:

Ticket: 2382763

Date Time Scale

In: 12/02/2020 11:47:36 CEC

Out: 12/02/2020 11:47:36 CEC

Manifest: 30728-120220-01

Vehicle: 07MUN113

Decal:

Lbs

Tn

Gross: 86780.00

43.39

Tare: 29200.00

14.6

Net: 57580.00

28.79

Customer: AARCO ENV. SERVICES CORP
Generator: MTA-LIRR

Address: 144-41 94th Avenue
Jamaica, NY 10001

Carrier:

Profile #: 203071328

Job: Bayside Substation

Address: Baythd St, NY 4136 Ave-Dead End

Material: Recyclable soil/rock/material

Driver:

Comment:

Facility: Clean Earth of Carteret
Barry Gibson

CLEAN EARTH INTERNAL

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 631-586-5900	4. Waste Tracking Number NHWM10015A6 SB-6	
5. Generator's Name and Mailing Address ATTN: ALBERT ALBANO, DEPT. OF PROGRAM MANAGEMENT LONG ISLAND RAILROAD 93-59 183 RD STREET, 3 RD FLOOR JULIUS, NY 11423			Generator's Site Address (if different than mailing address) BAYSIDE SUBSTATION DEAD END OF 216 TH STREET & 41 ST AVENUE BAYSIDE, NY 11361			
6. Transporter 1 Company Name MUNOZ T A+3875 #91			U.S. EPA ID Number 777			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address CLEAN EARTH OF CARTERET 24 MIDDLESEX AVE., CARTERET, NJ 07008 732-541-8909			U.S. EPA ID Number N/A			
Facility's Phone:						
9. Waste Shipping Name and Description			10. Containers		11. Total Quantity	
			No.	Type	12. Unit Wt./Vol.	
1. NON REGULATED SOLIDS (SOIL)						
2.						
3.						
4.						
13. Special Handling Instructions and Additional Information 1 APPROVAL # 203071328 91 JOB NO 10015; TRUCK NO.						
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.						
Generator's/Officer's Printed/Typed Name Albert S. Albano			Signature		Month Day Year 11 20 20	
15. International Shipments ☐ Import to U.S. ☐ Export from U.S.			Port of entry/exit: Date leaving U.S.:			
16. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Ed Molina			Signature		Month Day Year 11 20 20	
Transporter 2 Printed/Typed Name Ed Molina			Signature		Month Day Year 11 20 20	
17. Discrepancy						
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
17b. Alternate Facility (or Generator)			Manifest Reference Number: U.S. EPA ID Number			
Facility's Phone:						
17c. Signature of Alternate Facility (or Generator)			Month Day Year			
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a						
Printed/Typed Name B G			Signature		Month Day Year 11 20 20	

Clean Earth of Carteret
24 Middlesex Ave

Carteret, NJ 07008

Ph: Fax:

Manifest: 30728-112020-2
Vehicle: 07MUN91
Decal:

Customer: AARCO ENV. SERVICES CORP
Generator: MTA-LIRR
Address: 144-41 94th Avenue
Jamaica, NY 10001

Material: Recyclable soil/rock/material

Driver:
Comment:

Ticket: 2377484
Date

In: 11/20/2020 15:55:43

Out: 11/20/2020 15:55:43

	Lbs	Tn
Gross:	84920.00	42.46
Tare:	30100.00	15.05
Net:	54820.00	27.41

Carrier:

Profile #: 203071328

Job: Bayside Substation

Address: 216th St & 41st Ave-Dead End
Bayside, NY 11361

Facility: Clean Earth of Carteret
Barry Gibson

Time

Scale

CEC

CEC

TRANSPORTER

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 631-586-5900	4. Waste Tracking Number NHWM10015A5 SB-5
5. Generator Name and Mailing Address			Generator's Site Address (if different than mailing address)		
Generator's Phone: 18 NY 12					
6. Transporter 1 Company Name Munoz			AT 3875 # 91		U.S. EPA ID Number 777
7. Transporter 2 Company Name					U.S. EPA ID Number
8. Designated Facility Name and Site Address CLEAN EARTH OF CARTERET 24 MIDDLESEX AVE., CARTERET, NJ 07008 732-541-8909			U.S. EPA ID Number N/A		
Facility's Phone:					
9. Waste Shipping Name and Description			10. Containers		11. Total Quantity
			No.	Type	
1. NON REGULATED SOLIDS (SOIL)					
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Generator's/Officer's Printed/Typed Name Albert S. Albano			Signature		Month Day Year 11 20 20
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name S. N.			Signature		Month Day Year 11 20 20
Transporter 2 Printed/Typed Name X Sol Molina			Signature		Month Day Year 11 20 20
17. Discrepancy					
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
Manifest Reference Number:					
17b. Alternate Facility (or Generator)			U.S. EPA ID Number		
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator)			Month Day Year		
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name BG			Signature		Month Day Year 11 20 20

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

Clean Earth of Carteret
24 Middlesex Ave

Carteret, NJ 07008

Fax:

Manifest: 3Q728-112020-1
Vehicle: 07MUN91
Decal:

Customer: AHRCO ENV. SERVICES CORP
Generator: MTA-LIRR
Address: 144-41 94th Avenue
Jamaica, NY 10001

Material: Recyclable soil/rock/material

Driver:
Comment:

Ticket: 2375822

Date

Time

Scale

In: 11/20/2020 12:16:09 CEC

Out: 11/20/2020 12:16:09 CEC

Gross: 83040.00
Tare: 32940.00
Net: 50100.00
Lbs
Tn
41.52
23.47

Carrier: 203071320
Profile #: 203071320
Job: Bayside Substation
Address: 216th St & 41st Ave-Dead End
Bayside, NY 11361

Facility: Clean Earth of Carteret
Barry Gibson

TRANSPORTER

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone

631-386-5900

4. Waste Tracking Number

NHWM10015A3

B50-3

5. Generator's Name and Mailing Address

10015 ALBERT ALBANO DEPT OF PROGRAMS
LONG ISLAND RAILROAD
93-34 183RD STREET, FLOOR

Generator's Site Address (if different than mailing address)

BAYSIDE SUBSTATION
DEAD END OF 216TH STREET & 41ST AVENUE
BAYSIDE, NY 11361

Generator's Phone: 315 NY 11023

6. Transporter 1 Company Name

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

CLEAN EXHAUSTION OF
24 MIDDLESEX AVE, CA JERET, NJ 07008
732-41-8909

U.S. EPA ID Number

N/A

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

No. Type

11. Total

Quantity

12. Unit

Wt./Vol.

1. NON REGULATED SOLIDS (SOIL)

2.

3.

4.

13. Special Handling Instructions and Additional Information

1. APPROVAL # 203071328

JOB NO. 10015; TRUCK NO. _____

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Owner's Printed/Typed Name

Signature

Month Day Year

Albert S. Albano

[Signature]

11 12 20

15. International Shipments ☐ Import to U.S. ☐ Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Albert S. Albano

[Signature]

11 12 20

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

☐ Quantity

☐ Type

☐ Residue

☐ Partial Rejection

☐ Full Rejection

Jermaine Budy

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

Jermaine Budy

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

Clean Earth of Carteret
24 Middlesex Ave

Carteret, NJ 07008

Ph: Fax: ,

Manifest: 30728-111220-1
Vehicle: 07MUN122
Decal:

Customer: AARCO ENV. SERVICES CORP
Generator: MTA-LIRR
Address: 144-41 94th Avenue
Jamaica, NY 10001

Material:
Driver:
Comment:

Recyclable soil/rock/material
Facility: Clean Earth of Carteret
Barry Gibson

Ticket: 2368548
Date

Time

Scale

In: 11/12/2020 11:28:04 CEC

Out: 11/12/2020 11:28:04 CEC

	Lbs	Tn
Gross:	81060.00	40.53
Tare:	29940.00	14.97
Net:	51120.00	25.56

Carrier:
Profile #: 203071328

Job: Bayside Substation
Address: 216th St & 41st Ave-Dead End
Bayside, NY 11361

CLEAN EARTH INTERNAL

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number 10015	2. Page 1 of 1	3. Emergency Response Phone 631-586-5900	4. Waste Tracking Number JB-4 NHWM10015A4
5. Generator's Name and Mailing Address ATTN: ALBERT ALBANO, DEPT. OF PROGRAM MANAGEMENT LONG ISLAND RAILROAD 93-39 189TH STREET, 3RD FLOOR JOLIIS, NY 11423			Generator's Site Address (if different than mailing address) BAYSIDE SUBSTATION DEAD END OF 216TH STREET & 41ST AVENUE BAYSIDE, NY 11261		
6. Transporter 1 Company Name			U.S. EPA ID Number		
7. Transporter 2 Company Name MUNDO # 122			U.S. EPA ID Number AW83613		
8. Designated Facility Name and Site Address CLEAN EARTH OF CARTERET 24 MIDDLESEX AVE., CARTERET, NJ 07008 732-541-8909			U.S. EPA ID Number N/A		
Facility's Phone:					
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. NON REGULATED SOLIDS (SOIL)					
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information 1. APPROVAL # 203071328 JOB NO. 10015; TRUCK NO. 122					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Generator's/Officer's Printed/Typed Name Albert S. Albano			Signature 		Month Day Year 11 12 20
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Christ. Mator			Signature 		Month Day Year 11 12 20
Transporter 2 Printed/Typed Name			Signature		Month Day Year
17. Discrepancy					
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
Manifest Reference Number: _____					
17b. Alternate Facility (or Generator)			U.S. EPA ID Number		
Facility's Phone: _____					
17c. Signature of Alternate Facility (or Generator) 					Month Day Year 11 12 20
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name			Signature		Month Day Year

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

Clean Earth of Car
Cigarettes, 07/02/08

In: Page/2020 15:00:08

二、X
F

Out: 11/12/2020 15:20:08 CEC

Gross:	81580.00	Tn	40.79
Tare:	29940.00		14.97
Net:	51640.00		25.82

1991

Job: Bayside Substation

Address: 216th St & 41st Ave--Dead End

Facility: Clean Earth of Carteret
Barry Gibson

Driver:
Comment:

CLEAN EARTH INTERNAL

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number		2. Page 1 of 1		3. Emergency Response Phone 631-586-5900		4. Waste Tracking Number NHWM10015B12 513-1	
5. Generator's Name and Mailing Address MTA- LONG ISLAND RAIL ROAD 93-59 183 rd St. 3 rd Floor HOLLS N.Y. 11423 Generator's Phone: 347-494-6117						Generator's Site Address (if different than mailing address) BAYSIDE SUBSTATION DEAD END OF 216 TH STREET & 41 ST AVENUE BAYSIDE, NY 11361			
6. Transporter 1 Company Name MUNOZ T						U.S. EPA ID Number AT 3875 # 114-777			
7. Transporter 2 Company Name						U.S. EPA ID Number # 91			
8. Designated Facility Name and Site Address CLEAN EARTH OF CARTERET 24 MIDDLESEX AVE., CARTERET, NJ 07008 Facility's Phone: 732-541-8909						U.S. EPA ID Number N/A			
9. Waste Shipping Name and Description						10. Containers		11. Total Quantity	12. Unit Wt./Vol.
						No.	Type		
1. NON REGULATED SOLIDS(SOIL)									
2.									
3.									
4.									
13. Special Handling Instructions and Additional Information 1. GLOBAL NO. 156015 JOB NO. 10015; TRUCK NO. 91 APPROX #203371									
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.									
Generator's/Owner's Printed/Typed Name Albert S. Albano						Signature 		Month Day Year 10 14 20	
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:									
16. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name Ed Molina						Signature 		Month Day Year 10 14 20	
Transporter 2 Printed/Typed Name						Signature		Month Day Year	
17. Discrepancy									
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection									
17b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number									
Facility's Phone:									
17c. Signature of Alternate Facility (or Generator) Month Day Year									
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a									
Printed/Typed Name B G						Signature 		Month Day Year 10 14 20	

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

Clean Earth of Carteret
24 Middlesex Ave

Carteret, NJ 07008

Ph: Fax:

Manifest: 30720-101420-1

Vehicle: 07MUN91

Decal:

Customer: AARCO ENV. SERVICES CORP

Generator: MTA-LIRR

Address: 144-41 94th Avenue
Jamaica, NY 10001

Material: Recyclable soil/rock/material

Driver:
Comment:

Facility: Clean Earth of Carteret
Barry Gibson

Ticket: 2349224

Date

Time

Scale

In: 10/14/2020 12:01:01 CEC

Out: 10/14/2020 12:01:01 CEC

Lbs
Gross: 78840.00 In 39.42
Tare: 30100.00 15.05
Net: 48740.00 24.37

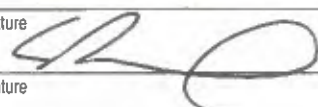
Carrier:

Profile #: 203071328

Job: Bayside Substation

Address: 216th St & 41st Ave-Dead End
Bayside, NY 11361

CLEAN EARTH INTERNAL

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number XXXXXXXXXXXX	2. Page 1 of 1	3. Emergency Response Phone 631-586-5900	4. Waste Tracking Number NHWM10015A2 SB-2	
5. Generator's Name and Mailing Address ATTN: ALBERT ALBANO, DEPT. OF PROGRAM MANAGEMENT LONG ISLAND RAILROAD 93-59 183RD STREET, 3RD FLOOR HOLLYS, NY 11423			Generator's Site Address (if different than mailing address) BAYSIDE SUBSTATION DEAD END OF 216TH STREET & 41ST AVENUE BAYSIDE, NY 11361			
6. Transporter 1 Company Name MUNOZ T			U.S. EPA ID Number A+3875 #91		U.S. EPA ID Number NH777	
7. Transporter 2 Company Name			U.S. EPA ID Number		U.S. EPA ID Number	
8. Designated Facility Name and Site Address CLEAN EARTH OF CARTERET 24 MIDDLESEX AVE., CARTERET, NJ 07008 732-541-8909			U.S. EPA ID Number N/A			
Facility's Phone:						
9. Waste Shipping Name and Description			10. Containers		11. Total	12. Unit
			No.	Type	Quantity	Wt/Vol.
1. NON REGULATED SOLIDS (SOIL)						
2.						
3.						
4.						
13. Special Handling Instructions and Additional Information 1. APPROVAL # 203071328 JOB NO. 10015; TRUCK NO. 91						
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulation for pending proper disposal of Hazardous Waste.						
Generator's/Officer's Printed/Typed Name Albert S. Albano			Signature 		Month 10	Day 16
15. International Shipments ☐ Import to U.S. ☐ Export from U.S.			Port of entry/exit: Date leaving U.S.:		Year 20	
Transporter Signature (for exports only):						
16. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name ED Molina			Signature 		Month 10	Day 16
Transporter 2 Printed/Typed Name			Signature		Year 20	
17. Discrepancy						
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection			Manifest Reference Number:			
17b. Alternate Facility (or Generator)			U.S. EPA ID Number			
Facility's Phone:						
17c. Signature of Alternate Facility (or Generator)					Month	Day
					Year	
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a						
Printed/Typed Name			Signature		Month	Day
					Year	

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

Clean Earth of Carteret
24 Middlesex Ave

Carteret, NJ 07008

Ph: Fax:

Manifest: 30728-101620-1
Vehicle: 07MUN91
Decal:

Customer: ARCO ENV. SERVICES CORP
Generator: MTA-LIRR
Address: 144-41 94th Avenue
Jamaica, NY 10001

Material: Recyclable soil/rock/material

Driver:
Comment:

Ticket: 2351267

Date

Time

Scale

In: 10/16/2020 13:02:26

CEC

Out: 10/16/2020 13:02:26

CEC

Lbs

Gross: 77780.00

Tare: 30100.00

Net: 47680.00

Carrier:

Profile #: 203071328

Job: Bayside Substation

Address: 216th St & 41st Ave-Dead End
Bayside, NY 11361

Facility: Clean Earth of Carteret
Barry Gibson

CLEAN EARTH INTERNAL

APPENDIX F

Raw Analytical Laboratory Data



Technical Report

prepared for:

Preferred Env. Services

323 Merrick Ave

North Merrick NY, 11566

Attention: Bill Schlageter

Report Date: 10/08/2020

Client Project ID: AARC-19-018 LIRR Group D Substations Bayside

York Project (SDG) No.: 20J0374

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
www.YORKLAB.com

STRATFORD, CT 06615
(203) 325-1371



132-02 89th AVENUE
FAX (203) 357-0166

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 10/08/2020
Client Project ID: AARC-19-018 LIRR Group D Substations Bayside
York Project (SDG) No.: 20J0374

Preferred Env. Services

323 Merrick Ave
North Merrick NY, 11566
Attention: Bill Schlageter

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on October 07, 2020 and listed below. The project was identified as your project: **AARC-19-018 LIRR Group D Substations Bayside.**

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
20J0374-01	BS-EP-03-B(1')	Soil	10/07/2020	10/07/2020
20J0374-02	BS-EP-03-B(1')-DUP	Soil	10/07/2020	10/07/2020
20J0374-03	BS-EP-05-B(1')	Soil	10/07/2020	10/07/2020
20J0374-04	BS-EP-06-B(1')	Soil	10/07/2020	10/07/2020
20J0374-05	BS-EP-07-B(1')	Soil	10/07/2020	10/07/2020

General Notes for York Project (SDG) No.: 20J0374

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 10/08/2020





Sample Information

Client Sample ID: BS-EP-03-B(1')

York Sample ID: 20J0374-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20J0374

AARC-19-018 LIRR Group D Substations Bayside

Soil

October 7, 2020 1:25 pm

10/07/2020

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.194		mg/kg dry	0.0349	1	EPA 7473	10/08/2020 13:49	10/08/2020 14:27	SY
							Certifications:	CTDOH,NJDEP,NELAC-NY10854,PADEP		

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	86.1		%	0.100	1	SM 2540G	10/08/2020 08:32	10/08/2020 14:03	OT
							Certifications:	CTDOH		

Sample Information

Client Sample ID: BS-EP-03-B(1')-DUP

York Sample ID: 20J0374-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20J0374

AARC-19-018 LIRR Group D Substations Bayside

Soil

October 7, 2020 1:25 pm

10/07/2020

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.200		mg/kg dry	0.0351	1	EPA 7473	10/08/2020 13:49	10/08/2020 14:53	SY
							Certifications:	CTDOH,NJDEP,NELAC-NY10854,PADEP		

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	85.4		%	0.100	1	SM 2540G	10/08/2020 08:32	10/08/2020 14:03	OT
							Certifications:	CTDOH		

Sample Information

Client Sample ID: BS-EP-05-B(1')

York Sample ID: 20J0374-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20J0374

AARC-19-018 LIRR Group D Substations Bayside

Soil

October 7, 2020 1:29 pm

10/07/2020



Sample Information

Client Sample ID: BS-EP-05-B(1')

York Sample ID: 20J0374-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20J0374

AARC-19-018 LIRR Group D Substations Bayside

Soil

October 7, 2020 1:29 pm

10/07/2020

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.148		mg/kg dry	0.0338	1	EPA 7473	10/08/2020 13:49	10/08/2020 15:01	SY
							Certifications:	CTDOH,NJDEP,NELAC-NY10854,PADEP		

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	88.8		%	0.100	1	SM 2540G	10/08/2020 08:32	10/08/2020 14:03	OT
							Certifications:	CTDOH		

Sample Information

Client Sample ID: BS-EP-06-B(1')

York Sample ID: 20J0374-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20J0374

AARC-19-018 LIRR Group D Substations Bayside

Soil

October 7, 2020 1:31 pm

10/07/2020

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.140		mg/kg dry	0.0355	1	EPA 7473	10/08/2020 13:49	10/08/2020 15:10	SY
							Certifications:	CTDOH,NJDEP,NELAC-NY10854,PADEP		

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	84.6		%	0.100	1	SM 2540G	10/08/2020 08:32	10/08/2020 14:03	OT
							Certifications:	CTDOH		

Sample Information

Client Sample ID: BS-EP-07-B(1')

York Sample ID: 20J0374-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20J0374

AARC-19-018 LIRR Group D Substations Bayside

Soil

October 7, 2020 1:33 pm

10/07/2020



Sample Information

Client Sample ID: BS-EP-07-B(1')

York Sample ID: 20J0374-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20J0374

AARC-19-018 LIRR Group D Substations Bayside

Soil

October 7, 2020 1:33 pm

10/07/2020

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.217		mg/kg dry	0.0367	1	EPA 7473	10/08/2020 13:49	10/08/2020 15:19	SY
							Certifications:	CTDOH,NJDEP,NELAC-NY10854,PADEP		

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	81.8		%	0.100	1	SM 2540G	10/08/2020 08:32	10/08/2020 14:03	OT
							Certifications:	CTDOH		



Analytical Batch Summary

Batch ID: BJ00431 **Preparation Method:** % Solids Prep **Prepared By:** OT

YORK Sample ID	Client Sample ID	Preparation Date
20J0374-01	BS-EP-03-B(1')	10/08/20
20J0374-02	BS-EP-03-B(1')-DUP	10/08/20
20J0374-03	BS-EP-05-B(1')	10/08/20
20J0374-04	BS-EP-06-B(1')	10/08/20
20J0374-05	BS-EP-07-B(1')	10/08/20
BJ00431-DUP1	Duplicate	10/08/20

Batch ID: BJ00458 **Preparation Method:** EPA 7473 soil **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
20J0374-01	BS-EP-03-B(1')	10/08/20
20J0374-02	BS-EP-03-B(1')-DUP	10/08/20
20J0374-03	BS-EP-05-B(1')	10/08/20
20J0374-04	BS-EP-06-B(1')	10/08/20
20J0374-05	BS-EP-07-B(1')	10/08/20
BJ00458-BLK1	Blank	10/08/20
BJ00458-DUP1	Duplicate	10/08/20
BJ00458-MS1	Matrix Spike	10/08/20
BJ00458-SRM1	Reference	10/08/20



Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ00458 - EPA 7473 soil											
Blank (BJ00458-BLK1)											
								Prepared & Analyzed: 10/08/2020			
Mercury	ND	0.0300	mg/kg wet								
Duplicate (BJ00458-DUP1)											
*Source sample: 20J0374-01 (BS-EP-03-B(1'))								Prepared & Analyzed: 10/08/2020			
Mercury	0.210	0.0349	mg/kg dry		0.194				7.83	35	
Matrix Spike (BJ00458-MS1)											
*Source sample: 20J0374-01 (BS-EP-03-B(1'))								Prepared & Analyzed: 10/08/2020			
Mercury	0.703		mg/kg	0.500	0.167	107	75-125				
Reference (BJ00458-SRM1)											
								Prepared & Analyzed: 10/08/2020			
Mercury	3.0507		mg/kg	3.71		82.2	65-135				



Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag

Batch BJ00431 - % Solids Prep

Duplicate (BJ00431-DUP1)		*Source sample: 20J0374-01 (BS-EP-03-B(1'))						Prepared & Analyzed: 10/08/2020			
% Solids	84.7	0.100	%		86.1				1.55	20	



Sample and Data Qualifiers Relating to This Work Order

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



Technical Report

prepared for:

Preferred Env. Services

323 Merrick Ave

North Merrick NY, 11566

Attention: Bill Schlageter

Report Date: 10/14/2020

Client Project ID: AARC-19-018 LIRR Group D Substation Bayside

York Project (SDG) No.: 20J0602

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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(203) 325-1371



132-02 89th AVENUE
FAX (203) 357-0166

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 10/14/2020
Client Project ID: AARC-19-018 LIRR Group D Substation Bayside
York Project (SDG) No.: 20J0602

Preferred Env. Services

323 Merrick Ave
North Merrick NY, 11566
Attention: Bill Schlageter

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on October 13, 2020 and listed below. The project was identified as your project: **AARC-19-018 LIRR Group D Substation Bayside.**

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
20J0602-01	BS-EP-04-B(1')	Soil	10/13/2020	10/13/2020

General Notes for York Project (SDG) No.: 20J0602

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 10/14/2020





Sample Information

Client Sample ID: BS-EP-04-B(1')

York Sample ID: 20J0602-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20J0602

AARC-19-018 LIRR Group D Substation Bayside

Soil

October 13, 2020 1:25 pm

10/13/2020

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.100		mg/kg wet	0.0300	1	EPA 7473	10/13/2020 17:11	10/13/2020 22:44	MAO
							Certifications:	CTDOH,NJDEP,NELAC-NY10854,PADEP		

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	87.9		%	0.100	1	SM 2540G	10/14/2020 08:36	10/14/2020 14:09	AD
							Certifications:	CTDOH		



Analytical Batch Summary

Batch ID: BJ00750 **Preparation Method:** EPA 7473 soil **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
20J0602-01	BS-EP-04-B(1')	10/13/20
BJ00750-BLK1	Blank	10/13/20
BJ00750-SRM1	Reference	10/13/20

Batch ID: BJ00768 **Preparation Method:** % Solids Prep **Prepared By:** OT

YORK Sample ID	Client Sample ID	Preparation Date
20J0602-01	BS-EP-04-B(1')	10/14/20
BJ00768-DUP1	Duplicate	10/14/20



Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag

Batch BJ00750 - EPA 7473 soil

Blank (BJ00750-BLK1)

Prepared & Analyzed: 10/13/2020

Mercury ND 0.0300 mg/kg wet

Reference (BJ00750-SRM1)

Prepared & Analyzed: 10/13/2020

Mercury 2.8179 mg/kg 3.71 76.0 65-135



Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC Limits	Flag	RPD Limit	Flag

Batch BJ00768 - % Solids Prep

Duplicate (BJ00768-DUP1)		*Source sample: 20J0602-01 (BS-EP-04-B(1'))					Prepared & Analyzed: 10/14/2020				
% Solids	88.0	0.100	%		87.9			0.114	20		



Sample and Data Qualifiers Relating to This Work Order

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record

YORK Project No.

20J002

Page 1 of 1

Page 1 of 1

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

[illegible]



Technical Report

prepared for:

Preferred Env. Services

323 Merrick Ave

North Merrick NY, 11566

Attention: Bill Schlageter

Report Date: 10/19/2020

Client Project ID: AARC-19-018 LIRR Group D Substation Bayside

York Project (SDG) No.: 20J0753

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 10/19/2020
Client Project ID: AARC-19-018 LIRR Group D Substation Bayside
York Project (SDG) No.: 20J0753

Preferred Env. Services

323 Merrick Ave
North Merrick NY, 11566
Attention: Bill Schlageter

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on October 15, 2020 with a temperature of 2.7 C. The project was identified as your project: **AARC-19-018 LIRR Group D Substation Bayside**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
20J0753-01	BS-EP-01-B(2')	Soil	10/15/2020	10/15/2020
20J0753-02	BS-EP-02-B(2')	Soil	10/15/2020	10/15/2020

General Notes for York Project (SDG) No.: 20J0753

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 10/19/2020





Sample Information

Client Sample ID: BS-EP-01-B(2')

York Sample ID: 20J0753-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20J0753

AARC-19-018 LIRR Group D Substation Bayside

Soil

October 15, 2020 2:48 pm

10/15/2020

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0344	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	10/16/2020 12:26	10/16/2020 12:46	SY

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	87.3		%	0.100	1	SM 2540G Certifications: CTDOH	10/16/2020 08:38	10/16/2020 14:57	OT

Sample Information

Client Sample ID: BS-EP-02-B(2')

York Sample ID: 20J0753-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20J0753

AARC-19-018 LIRR Group D Substation Bayside

Soil

October 15, 2020 2:45 pm

10/15/2020

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0342	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	10/16/2020 12:26	10/16/2020 12:55	SY

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	87.7		%	0.100	1	SM 2540G Certifications: CTDOH	10/16/2020 08:41	10/16/2020 15:10	OT



Sample and Data Qualifiers Relating to This Work Order

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record

YORK Project No.

20. TD 753

Page of

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below.

Your signature binds you to YORK's Standard Terms & Conditions.

YOUR Information

Company: O	Company: C

Address: 700 N. 1st St.	Address:

11-12-2008

Phone: 000 000 0000	Phone:

Contact: 0	Contact:

E-mail: <u>Benjamin@Benjamin.com</u>	E-mail: <u>Benjamin@Benjamin.com</u>

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below)

Sample Identification

$$\overline{\beta\gamma - \gamma\beta} = \beta(2')$$

BC-EP-02-BC(2)

Comments:

Preservation: (check all that apply)

Field Filtered

Samples Relinquished by / Company

Samples Received by / Company

Date/Time

1000

Samples Relinquished by / Company

Date/Time



Technical Report

prepared for:

Preferred Env. Services

323 Merrick Ave

North Merrick NY, 11566

Attention: Bill Schlageter

Report Date: 11/10/2020

Client Project ID: AARC-19-018 LIRR group D Substations Bayside

York Project (SDG) No.: 20K0395

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 11/10/2020
Client Project ID: AARC-19-018 LIRR group D Substations Bayside
York Project (SDG) No.: 20K0395

Preferred Env. Services

323 Merrick Ave
North Merrick NY, 11566
Attention: Bill Schlageter

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on November 09, 2020 and listed below. The project was identified as your project: **AARC-19-018 LIRR group D Substations Bayside.**

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
20K0395-01	BS-EP-08-B(4)	Soil	11/09/2020	11/09/2020

General Notes for York Project (SDG) No.: 20K0395

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 11/10/2020





Sample Information

Client Sample ID: BS-EP-08-B(4)

York Sample ID: 20K0395-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20K0395

AARC-19-018 LIRR group D Substations Bayside

Soil

November 9, 2020 2:43 pm

11/09/2020

Arsenic by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/kg dry	1.80	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/10/2020 09:07	11/10/2020 14:18	WJM

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	83.1		%	0.100	1	SM 2540G Certifications: CTDOH	11/10/2020 08:39	11/10/2020 14:00	SK



Analytical Batch Summary

Batch ID: BK00510 **Preparation Method:** % Solids Prep **Prepared By:** SK

YORK Sample ID	Client Sample ID	Preparation Date
20K0395-01	BS-EP-08-B(4)	11/10/20
BK00510-DUP1	Duplicate	11/10/20

Batch ID: BK00517 **Preparation Method:** EPA 3050B **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
20K0395-01	BS-EP-08-B(4)	11/10/20
BK00517-BLK1	Blank	11/10/20
BK00517-SRM1	Reference	11/10/20



Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK00517 - EPA 3050B											
Blank (BK00517-BLK1)											
								Prepared & Analyzed: 11/10/2020			
Arsenic	ND	1.50	mg/kg wet								
Reference (BK00517-SRM1)											
								Prepared & Analyzed: 11/10/2020			
Arsenic	85.5	1.50	mg/kg wet	95.5		89.6	70.1-129.8				



Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag

Batch BK00510 - % Solids Prep

Duplicate (BK00510-DUP1)		*Source sample: 20K0395-01 (BS-EP-08-B(4))						Prepared & Analyzed: 11/10/2020			
% Solids	83.7	0.100	%		83.1				0.664	20	





Sample and Data Qualifiers Relating to This Work Order

M-CRL The RL check for this element recovered outside of control limits.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



Technical Report

prepared for:

Preferred Env. Services

323 Merrick Ave

North Merrick NY, 11566

Attention: Bill Schlageter

Report Date: 11/11/2020

Client Project ID: AARC-19-018 LIRR group D Substations Bayside

York Project (SDG) No.: 20K0449

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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132-02 89th AVENUE
FAX (203) 357-0166

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 11/11/2020
Client Project ID: AARC-19-018 LIRR group D Substations Bayside
York Project (SDG) No.: 20K0449

Preferred Env. Services

323 Merrick Ave
North Merrick NY, 11566
Attention: Bill Schlageter

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on November 10, 2020 and listed below. The project was identified as your project: **AARC-19-018 LIRR group D Substations Bayside.**

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
20K0449-01	BS-EP-10-B (4 ft)	Soil	11/10/2020	11/10/2020

General Notes for York Project (SDG) No.: 20K0449

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 11/11/2020





Sample Information

Client Sample ID: BS-EP-10-B (4 ft)

York Sample ID: 20K0449-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20K0449

AARC-19-018 LIRR group D Substations Bayside

Soil

November 10, 2020 2:15 pm

11/10/2020

Arsenic by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/kg dry	1.88	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/11/2020 09:12	11/11/2020 15:28	WJM

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	79.6		%	0.100	1	SM 2540G Certifications: CTDOH	11/11/2020 08:43	11/11/2020 15:47	SK



Analytical Batch Summary

Batch ID: BK00587 **Preparation Method:** % Solids Prep **Prepared By:** SK

YORK Sample ID	Client Sample ID	Preparation Date
20K0449-01	BS-EP-10-B (4 ft)	11/11/20

Batch ID: BK00598 **Preparation Method:** EPA 3050B **Prepared By:** OT

YORK Sample ID	Client Sample ID	Preparation Date
20K0449-01	BS-EP-10-B (4 ft)	11/11/20
BK00598-BLK1	Blank	11/11/20
BK00598-SRM1	Reference	11/11/20



Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK00598 - EPA 3050B											
Blank (BK00598-BLK1)											
								Prepared & Analyzed: 11/11/2020			
Arsenic	ND	1.50	mg/kg wet								
Reference (BK00598-SRM1)											
								Prepared & Analyzed: 11/11/2020			
Arsenic	88.2	1.50	mg/kg wet	95.5		92.3	70.1-129.8				





Sample and Data Qualifiers Relating to This Work Order

M-CRL The RL check for this element recovered outside of control limits.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record

YORK Project No.

20K0449

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

Page 1 of 1[illegible]



Technical Report

prepared for:

Preferred Env. Services

323 Merrick Ave

North Merrick NY, 11566

Attention: Bill Schlageter

Report Date: 11/19/2020

Client Project ID: AARC-19-018 LIRR group D Substations Bayside

York Project (SDG) No.: 20K0836

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 11/19/2020
Client Project ID: AARC-19-018 LIRR group D Substations Bayside
York Project (SDG) No.: 20K0836

Preferred Env. Services

323 Merrick Ave
North Merrick NY, 11566
Attention: Bill Schlageter

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on November 18, 2020 and listed below. The project was identified as your project: **AARC-19-018 LIRR group D Substations Bayside.**

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
20K0836-01	BS-EP-09-B(4')	Soil	11/18/2020	11/18/2020

General Notes for York Project (SDG) No.: 20K0836

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 11/19/2020





Sample Information

Client Sample ID: BS-EP-09-B(4')

York Sample ID: 20K0836-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20K0836

AARC-19-018 LIRR group D Substations Bayside

Soil

November 18, 2020 1:45 pm

11/18/2020

Arsenic by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	2.84		mg/kg dry	1.89	1	EPA 6010D	11/19/2020 08:56	11/19/2020 16:37	WJM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	79.2		%	0.100	1	SM 2540G	11/19/2020 08:42	11/19/2020 15:01	SK
							Certifications:	CTDOH		



Analytical Batch Summary

Batch ID: BK01035 **Preparation Method:** % Solids Prep **Prepared By:** SK

YORK Sample ID	Client Sample ID	Preparation Date
20K0836-01	BS-EP-09-B(4')	11/19/20
BK01035-DUP1	Duplicate	11/19/20

Batch ID: BK01042 **Preparation Method:** EPA 3050B **Prepared By:** OT

YORK Sample ID	Client Sample ID	Preparation Date
20K0836-01	BS-EP-09-B(4')	11/19/20
BK01042-BLK1	Blank	11/19/20
BK01042-DUP1	Duplicate	11/19/20
BK01042-MS1	Matrix Spike	11/19/20
BK01042-PS1	Post Spike	11/19/20
BK01042-SRM1	Reference	11/19/20



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK01042 - EPA 3050B											
Blank (BK01042-BLK1)						Prepared & Analyzed: 11/19/2020					
Arsenic	ND	1.50	mg/kg wet								
Duplicate (BK01042-DUP1)						*Source sample: 20K0836-01 (BS-EP-09-B(4')) Prepared & Analyzed: 11/19/2020					
Arsenic	2.79	1.89	mg/kg dry		2.84				1.74	35	
Matrix Spike (BK01042-MS1)						*Source sample: 20K0836-01 (BS-EP-09-B(4')) Prepared & Analyzed: 11/19/2020					
Arsenic	249	1.89	mg/kg dry	252	2.84	97.6	75-125				
Post Spike (BK01042-PS1)						*Source sample: 20K0836-01 (BS-EP-09-B(4')) Prepared & Analyzed: 11/19/2020					
Arsenic	2.04		ug/mL	2.00	0.00450	102	75-125				
Reference (BK01042-SRM1)						Prepared & Analyzed: 11/19/2020					
Arsenic	94.3	1.50	mg/kg wet	95.5		98.7	70.1-129.8				



Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag

Batch BK01035 - % Solids Prep

Duplicate (BK01035-DUP1)		*Source sample: 20K0836-01 (BS-EP-09-B(4'))						Prepared & Analyzed: 11/19/2020			
% Solids	80.2	0.100	%		79.2				1.24	20	





Sample and Data Qualifiers Relating to This Work Order

M-CRL The RL check for this element recovered outside of control limits.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



Technical Report

prepared for:

Preferred Env. Services

323 Merrick Ave

North Merrick NY, 11566

Attention: Bill Schlageter

Report Date: 11/24/2020

Client Project ID: AARC-19-018 LIRR group D Substations Bayside

York Project (SDG) No.: 20K1016

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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132-02 89th AVENUE
FAX (203) 357-0166

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 11/24/2020
Client Project ID: AARC-19-018 LIRR group D Substations Bayside
York Project (SDG) No.: 20K1016

Preferred Env. Services

323 Merrick Ave
North Merrick NY, 11566
Attention: Bill Schlageter

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on November 23, 2020 and listed below. The project was identified as your project: **AARC-19-018 LIRR group D Substations Bayside.**

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
20K1016-01	BS-EP-11-BC (4 ft)	Soil	11/23/2020	11/23/2020

General Notes for York Project (SDG) No.: 20K1016

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 11/24/2020





Sample Information

Client Sample ID: BS-EP-11-BC (4 ft)

York Sample ID: 20K1016-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20K1016

AARC-19-018 LIRR group D Substations Bayside

Soil

November 23, 2020 12:00 am

11/23/2020

Arsenic by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/kg dry	1.87	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/24/2020 08:24	11/24/2020 14:52	WJM

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	80.0		%	0.100	1	SM 2540G Certifications: CTDOH	11/24/2020 08:44	11/24/2020 16:06	SK



Analytical Batch Summary

Batch ID: BK01284 **Preparation Method:** EPA 3050B **Prepared By:** OT

YORK Sample ID	Client Sample ID	Preparation Date
20K1016-01	BS-EP-11-BC (4 ft)	11/24/20
BK01284-BLK1	Blank	11/24/20
BK01284-SRM1	Reference	11/24/20

Batch ID: BK01288 **Preparation Method:** % Solids Prep **Prepared By:** SK

YORK Sample ID	Client Sample ID	Preparation Date
20K1016-01	BS-EP-11-BC (4 ft)	11/24/20



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag

Batch BK01284 - EPA 3050B

Blank (BK01284-BLK1)

Prepared & Analyzed: 11/24/2020

Arsenic ND 1.50 mg/kg wet

Reference (BK01284-SRM1)

Prepared & Analyzed: 11/24/2020

Arsenic 103 1.50 mg/kg wet 95.5 108 70.1-129.8



Sample and Data Qualifiers Relating to This Work Order

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record

YORK Project No.

20K1016

Page ____ of ____

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

[illegible]



Technical Report

prepared for:

Preferred Env. Services

323 Merrick Ave

North Merrick NY, 11566

Attention: Bill Schlageter

Report Date: 12/07/2020

Client Project ID: AARC-19-018 LIRR Group D Substations Bayside

York Project (SDG) No.: 20L0283

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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132-02 89th AVENUE
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RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 12/07/2020
Client Project ID: AARC-19-018 LIRR Group D Substations Bayside
York Project (SDG) No.: 20L0283

Preferred Env. Services

323 Merrick Ave
North Merrick NY, 11566
Attention: Bill Schlageter

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on December 04, 2020 and listed below. The project was identified as your project: **AARC-19-018 LIRR Group D Substations Bayside.**

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
20L0283-01	BSBEP-1	Soil	12/04/2020	12/04/2020
20L0283-02	BSBEP-2	Soil	12/04/2020	12/04/2020
20L0283-03	BSBEP-3	Soil	12/04/2020	12/04/2020

General Notes for York Project (SDG) No.: 20L0283

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 12/07/2020





Sample Information

Client Sample ID: BSBEP-1

York Sample ID: 20L0283-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20L0283

AARC-19-018 LIRR Group D Substations Bayside

Soil

December 4, 2020 11:45 am

12/04/2020

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.158		mg/kg dry	0.0353	1	EPA 7473	12/07/2020 10:45	12/07/2020 17:48	BML
							Certifications:	CTDOH,NJDEP,NELAC-NY10854,PADEP		

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	84.9		%	0.100	1	SM 2540G	12/07/2020 09:03	12/07/2020 16:24	SK
							Certifications:	CTDOH		

Sample Information

Client Sample ID: BSBEP-2

York Sample ID: 20L0283-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20L0283

AARC-19-018 LIRR Group D Substations Bayside

Soil

December 4, 2020 12:20 pm

12/04/2020

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.104		mg/kg dry	0.0379	1	EPA 7473	12/07/2020 10:45	12/07/2020 17:57	BML
							Certifications:	CTDOH,NJDEP,NELAC-NY10854,PADEP		

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	79.1		%	0.100	1	SM 2540G	12/07/2020 09:03	12/07/2020 16:24	SK
							Certifications:	CTDOH		

Sample Information

Client Sample ID: BSBEP-3

York Sample ID: 20L0283-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20L0283

AARC-19-018 LIRR Group D Substations Bayside

Soil

December 4, 2020 2:15 pm

12/04/2020



Sample Information

Client Sample ID: BSBEP-3

York Sample ID: 20L0283-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20L0283

AARC-19-018 LIRR Group D Substations Bayside

Soil

December 4, 2020 2:15 pm

12/04/2020

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	3.39		mg/kg dry	0.0318	1	EPA 7473	12/07/2020 10:45	12/07/2020 18:05	BML
							Certifications:	CTDOH,NJDEP,NELAC-NY10854,PADEP		

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	94.4		%	0.100	1	SM 2540G	12/07/2020 09:03	12/07/2020 16:24	SK
							Certifications:	CTDOH		



Analytical Batch Summary

Batch ID: BL00333 **Preparation Method:** % Solids Prep **Prepared By:** SK

YORK Sample ID	Client Sample ID	Preparation Date
20L0283-01	BSBEP-1	12/07/20
20L0283-02	BSBEP-2	12/07/20
20L0283-03	BSBEP-3	12/07/20
BL00333-DUP1	Duplicate	12/07/20

Batch ID: BL00344 **Preparation Method:** EPA 7473 soil **Prepared By:** BML

YORK Sample ID	Client Sample ID	Preparation Date
20L0283-01	BSBEP-1	12/07/20
20L0283-02	BSBEP-2	12/07/20
20L0283-03	BSBEP-3	12/07/20
BL00344-BLK1	Blank	12/07/20
BL00344-SRM1	Reference	12/07/20



Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL00344 - EPA 7473 soil											
Blank (BL00344-BLK1)											
								Prepared & Analyzed: 12/07/2020			
Mercury	ND	0.0300	mg/kg wet								
Reference (BL00344-SRM1)											
								Prepared & Analyzed: 12/07/2020			
Mercury	3.1447		mg/kg	3.71		84.8	65-135				



Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag

Batch BL00333 - % Solids Prep

Duplicate (BL00333-DUP1)		*Source sample: 20L0283-03 (BSBEP-3)						Prepared & Analyzed: 12/07/2020			
% Solids	91.7	0.100	%		94.4				2.92	20	



Sample and Data Qualifiers Relating to This Work Order

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



York Analytical Laboratories, Inc.
120 Research Drive 132-02 89th Ave
Stratford, CT 06615 Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No.

20L0283

Page 1 of 1

Page 1 of 1

[illegible]

APPENDIX G

Deed Restriction



April 24, 2024

MTA
2 BROADWAY
4 FLOOR
NEW YORK, NY 10004

RE: Submitted Transaction Successfully Recorded

Dear MTA:

Document Identification Number 2024041000795001 which was submitted and intaken for Recording on 4/24/2024 2:00:29 PM, was successfully recorded on 4/24/2024 at 3:04 PM.

Below summarizes the status of the document(s).

Recording & Endorsement Cover Page(s) attached

2024041000795001

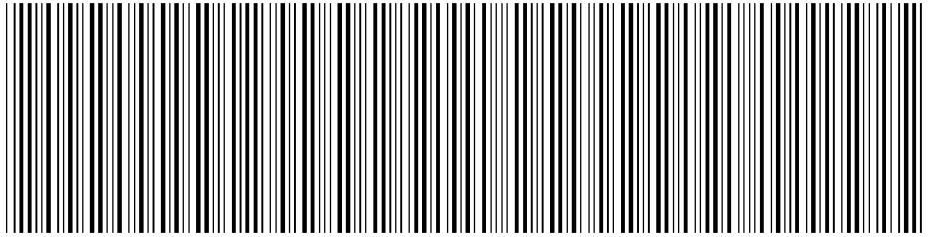
If you have questions or require further information, please send an email to acrishelp@finance.nyc.gov and someone will get back to you.

Thank you.

City Register

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2024041000795001002EDDBA

RECORDING AND ENDORSEMENT COVER PAGE

PAGE 1 OF 11

Document ID: 2024041000795001

Document Date: 10-12-2022

Preparation Date: 04-24-2024

Document Type: DEED WITH RESTRICTIVE COVENANT

Document Page Count: 10

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RETURN TO:

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2 BROADWAY
4 FLOOR
NEW YORK, NY 10004
212-878-1039
KCARBY@MTAHQ.ORG

PROPERTY DATA

Borough	Block	Lot	Unit	Address
QUEENS	6290	9	Entire Lot	N/A BELL BOULEVARD
Property Type: NON-RESIDENTIAL VACANT LAND				

CROSS REFERENCE DATA

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PARTIES

GRANTOR/SELLER:

NY STATE DEPARTMENT OF ENVIRONMENTAL
CONSERVATION
ATTN: KYLE PERO, 625 BROADWAY, 14TH FLOOR
ALBANY, NY 12233-1500

GRANTEE/BUYER:

LONG ISLAND RAIL ROAD
93-02 SUTPHIN BLVD
JAMAICA, NY 11435

FEES AND TAXES

Mortgage :

Mortgage Amount: \$ 0.00

Taxable Mortgage Amount: \$ 0.00

Exemption:

TAXES: County (Basic): \$ 0.00

City (Additional): \$ 0.00

Spec (Additional): \$ 0.00

TASF: \$ 0.00

MTA: \$ 0.00

NYCTA: \$ 0.00

Additional MRT: \$ 0.00

TOTAL: \$ 0.00

Recording Fee: \$ EXEMPT

Affidavit Fee: \$ 0.00

Filing Fee:

\$ 0.00

NYC Real Property Transfer Tax:

\$ 0.00

NYS Real Estate Transfer Tax:

\$ 0.00

RECORDED OR FILED IN THE OFFICE

OF THE CITY REGISTER OF THE

CITY OF NEW YORK

Recorded/Filed 04-24-2024 15:04

City Register File No.(CRFN):

2024000105641



Collette McChia-Jacques

City Register Official Signature

REAL PROPERTY TRANSFER TAX RETURN

(Pursuant to Title 11, Chapter 21, NYC Administrative Code)

▲ DO NOT WRITE IN THIS SPACE ▲
FOR OFFICE USE ONLY

GRANTOR

● Name **NY STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

● Grantor is a(n): ☐ individual ☐ partnership ☐ corporation Telephone Number
☐ single member LLC ☐ multiple member LLC (see instructions) ☒ other GOVERNMENT AGENCY

● Permanent mailing address after transfer (number and street) **625 BROADWAY 14TH FLOOR**

● City and State **ALBANY, NY** Zip Code **12233-1500**

● Single member's name if grantor is a single member LLC

SOCIAL SECURITY NUMBER

OR

EMPLOYER IDENTIFICATION NUMBER

1	4					6	0	1	3	2	0	0

SINGLE MEMBER EIN OR SSN

GRANTEE

● Name **LONG ISLAND RAIL ROAD**

● Grantee is a(n): ☐ individual ☐ partnership ☐ corporation Telephone Number
☐ single member LLC ☐ multiple member LLC (see instructions) ☒ other GOVERNMENT AGENCY

● Permanent mailing address after transfer (number and street) **93-02 SUTPHIN BLVD**

● City and State **JAMAICA, NY** Zip Code **11435-4332**

● Single member's name if grantee is a single member LLC

SOCIAL SECURITY NUMBER

OR

EMPLOYER IDENTIFICATION NUMBER

1	1					6	0	0	2	5	0	2

SINGLE MEMBER EIN OR SSN

PROPERTY LOCATION

LIST EACH LOT SEPARATELY. ATTACH A RIDER IF ADDITIONAL SPACE IS REQUIRED

● Address (number and street)	Apt. No.	Borough	Block	Lot	# of Floors	Square Feet	● Assessed Value of Property
N/A BELL BOULEVARD		QUEENS	6290	9	0	10,900	

● DATE OF TRANSFER TO GRANTEE: **10/12/2022**

● PERCENTAGE OF INTEREST TRANSFERRED: **100** %

CONDITION OF TRANSFER. See Instructions

● Check (✓) all of the conditions that apply and fill out the appropriate schedules of this return. Additionally, Schedules 1 and 2 must be completed for all transfers.

a. ☒ Arms length transfer b. ☐ Transfer in exercise of option to purchase c. ☐ Transfer from cooperative sponsor to cooperative corporation d. ☐ Transfer by referee or receiver (complete Schedule A) e. ☐ Transfer pursuant to marital settlement agreement or divorce decree (complete Schedule I) f. ☐ Deed in lieu of foreclosure (complete Schedule C) g. ☐ Transfer pursuant to liquidation of an entity (complete Schedule D) h. ☐ Transfer from principal to agent, dummy, strawman or conduit or vice-versa (complete Schedule E) i. ☐ Transfer pursuant to trust agreement or will (attach a copy of trust agreement or will) j. ☐ Gift transfer not subject to indebtedness k. ☐ Gift transfer subject to indebtedness l. ☐ Transfer to a business entity in exchange for an interest in the business entity (complete Schedule F) m. ☐ Transfer to a governmental body n. ☐ Correction deed	o. ☐ Transfer by or to a tax exempt organization (complete Schedule G) p. ☐ Transfer of property partly within and partly without NYC q. ☐ Transfer of successful bid pursuant to foreclosure r. ☐ Transfer by borrower solely as security for a debt or a transfer by lender solely to return such security s. ☐ Transfer wholly or partly exempt as a mere change of identity or form of ownership. Complete Schedule M) t. ☐ Transfer to a REIT or to a corporation or partnership controlled by a REIT. (Complete Schedule R) u. ☐ Other transfer in connection with financing (describe): _____ v. ☐ A grant or assignment of a leasehold interest in a tax-free NY area w. ☐ Transfer to an HDFO or an entity controlled by an HDFO. (Complete Schedule L) x. Reserved y. Reserved z. ☒ Other (describe) DECLARATION OF COVENANTS AND RESTRICTIONS

● TYPE OF PROPERTY (✓)	● TYPE OF INTEREST (✓)																				
a. ☐ 1-3 family house b. ☐ Individual residential condominium unit c. ☐ Individual cooperative apartment d. ☐ Commercial condominium unit e. ☐ Commercial cooperative f. ☐ 4 family dwelling g. ☐ Apartment building h. ☐ Office building i. ☐ Industrial building j. ☐ Utility k. ☒ OTHER (describe): <u>NON-RESIDENTIAL VACANT LAND</u>	Check box at LEFT if you intend to record a document related to this transfer. Check box at RIGHT if you do not intend to record a document related to this transfer. <table style="width:100%; border-collapse: collapse;"> <tr> <th style="width:50%; text-align: left;">REC.</th> <th style="width:50%; text-align: left;">NON REC.</th> </tr> <tr> <td>a. ☐ Fee.....</td> <td>☐</td> </tr> <tr> <td>b. ☐ Leasehold Grant</td> <td>☐</td> </tr> <tr> <td>c. ☐ Leasehold Assignment or Surrender</td> <td>☐</td> </tr> <tr> <td>d. ☐ Easement</td> <td>☐</td> </tr> <tr> <td>e. ☐ Subterranean Rights</td> <td>☐</td> </tr> <tr> <td>f. ☐ Development Rights</td> <td>☐</td> </tr> <tr> <td>g. ☐ Stock</td> <td>☐</td> </tr> <tr> <td>h. ☐ Partnership Interest</td> <td>☐</td> </tr> <tr> <td>i. ☒ OTHER. (describe):</td> <td>☐</td> </tr> </table> DEED RESTRICTIONS	REC.	NON REC.	a. ☐ Fee.....	☐	b. ☐ Leasehold Grant	☐	c. ☐ Leasehold Assignment or Surrender	☐	d. ☐ Easement	☐	e. ☐ Subterranean Rights	☐	f. ☐ Development Rights	☐	g. ☐ Stock	☐	h. ☐ Partnership Interest	☐	i. ☒ OTHER. (describe):	☐
REC.	NON REC.																				
a. ☐ Fee.....	☐																				
b. ☐ Leasehold Grant	☐																				
c. ☐ Leasehold Assignment or Surrender	☐																				
d. ☐ Easement	☐																				
e. ☐ Subterranean Rights	☐																				
f. ☐ Development Rights	☐																				
g. ☐ Stock	☐																				
h. ☐ Partnership Interest	☐																				
i. ☒ OTHER. (describe):	☐																				

SCHEDULE 1 - DETAILS OF CONSIDERATION

COMPLETE THIS SCHEDULE FOR ALL TRANSFERS AFTER COMPLETING THE APPROPRIATE SCHEDULES ON PAGES 5 THROUGH 12.
ENTER "ZERO" ON LINE 11 IF THE TRANSFER REPORTED WAS WITHOUT CONSIDERATION.

1. Cash.....	● 1.	0 00
2. Purchase money mortgage.....	● 2.	0 00
3. Unpaid principal of pre-existing mortgage(s).....	● 3.	0 00
4. Accrued interest on pre-existing mortgage(s).....	● 4.	0 00
5. Accrued real estate taxes.....	● 5.	0 00
6. Amounts of other liens on property.....	● 6.	0 00
7. Value of shares of stock or of partnership interest received.....	● 7.	0 00
8. Value of real or personal property received in exchange.....	● 8.	0 00
9. Amount of Real Property Transfer Tax and/or other taxes or expenses of the grantor which are paid by the grantee.....	● 9.	0 00
10. Other (describe):	● 10.	0 00
11. TOTAL CONSIDERATION (add lines 1 through 10 - must equal amount entered on line 1 of Schedule 2) (see instructions).....	● 11.	\$ 0 00

See instructions for special rules relating to transfers of cooperative units, liquidations, marital settlements and transfers of property to a business entity in return for an interest in the entity.

SCHEDULE 2 - COMPUTATION OF TAX

A.	Payment	Pay amount shown on line 15 - See Instructions	Payment Enclosed
1.	Total Consideration (from line 11, above).....	● 1.	0 00
2.	Excludable liens (see instructions).....	● 2.	0 00
3.	Consideration (line 1 less line 2).....	● 3.	0 00
4.	Tax Rate (see instructions).....	● 4.	0 %
5.	HDFC Exemption (see Schedule L, line 15)	● 5.	0 00
6.	Consideration less HDFC Exemption (line 3 less line 5)	● 6.	0 00
7.	Percentage change in beneficial ownership (see instructions)	● 7.	100 %
8.	Taxable consideration (multiply line 6 by line 7).....	● 8.	0 00
9.	Tax (multiply line 8 by line 4).....	● 9.	0 00
10.	Credit (see instructions).....	● 10.	0 00
11.	Transfer tax previously paid (see Schedule L, line 18).....	● 11.	0 00
12.	Tax due (line 9 less line 10 and 11) (if the result is negative, enter zero).....	● 12.	0 00
13.	Interest (see instructions).....	● 13.	0 00
14.	Penalty (see instructions).....	● 14.	0 00
15.	Total Tax Due (add lines 12, 13 and 14).....	● 15.	\$ 0 00

GRANTOR'S ATTORNEY ▼

Name of Attorney KYLE PERO		Telephone Number (518) 402-9495	
Address (number and street) 625 BROADWAY 14TH FLOOR		City and State ALBANY, NY	Zip Code 12233-1500
EMPLOYER IDENTIFICATION NUMBER	-	OR	SOCIAL SECURITY NUMBER
			- -

GRANTEE'S ATTORNEY ▼

Name of Attorney COLLEEN CHANNER		Telephone Number (212) 878-1035	
Address (number and street) OFFICE OF GENERAL COUNSEL 2 BROADWAY		City and State NEW YORK, NY	Zip Code 10004
EMPLOYER IDENTIFICATION NUMBER	-	OR	SOCIAL SECURITY NUMBER
			- -

CERTIFICATION ▼

I swear or affirm that this return, including any accompanying schedules, affidavits and attachments, has been examined by me and is, to the best of my knowledge, a true and complete return made in good faith, pursuant to Title 11, Chapter 21 of the Administrative Code and the regulations issued thereunder.

GRANTOR

Sworn to and subscribed to

before me on this _____ day

of _____, _____.

14-6013200EMPLOYER IDENTIFICATION NUMBER OR
SOCIAL SECURITY NUMBER
**NY STATE DEPARTMENT
OF ENVIRONMENTAL
CONSERVATION**
Name of Grantor

Signature of Notary

Signature of Grantor

Notary's
stamp
or seal**GRANTEE**

Sworn to and subscribed to

before me on this _____ day

of _____, _____.

11-6002502EMPLOYER IDENTIFICATION NUMBER OR
SOCIAL SECURITY NUMBER
**LONG ISLAND RAIL
ROAD**
Name of Grantee

Name of Grantee

Signature of Notary

Signature of Grantee

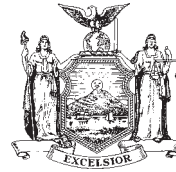
Notary's
stamp
or seal

FOR CITY USE ONLY

C1. County Code C2. Date Deed Recorded / /
 Month Day Year

C3. Book OR C4. Page

C5. CRFN



REAL PROPERTY TRANSFER REPORT

STATE OF NEW YORK
STATE BOARD OF REAL PROPERTY SERVICES

RP - 5217NYC

PROPERTY INFORMATION

1. Property Location N/A BELL BOULEVARD QUEENS 00000
 STREET NUMBER STREET NAME BOROUGH ZIP CODE

2. Buyer Name LONG ISLAND RAIL ROAD
 LAST NAME / COMPANY FIRST NAME

LAST NAME / COMPANY FIRST NAME

3. Tax Billing Address Indicate where future Tax Bills are to be sent if other than buyer address (at bottom of form)
 LAST NAME / COMPANY FIRST NAME

STREET NUMBER AND STREET NAME CITY OR TOWN STATE ZIP CODE

4. Indicate the number of Assessment Roll parcels transferred on the deed 1 # of Parcels OR ☐ Part of a Parcel

4A. Planning Board Approval - N/A for NYC
 4B. Agricultural District Notice - N/A for NYC

5. Deed Property Size FRONT FEET X DEPTH OR ACRES

Check the boxes below as they apply:

6. Ownership Type is Condominium ☐
 7. New Construction on Vacant Land ☐

8. Seller Name NY STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
 LAST NAME / COMPANY FIRST NAME

LAST NAME / COMPANY FIRST NAME

9. Check the box below which most accurately describes the use of the property at the time of sale:

A ☐ One Family Residential C ☐ Residential Vacant Land E ☐ Commercial G ☐ Entertainment / Amusement I ☐ Industrial
 B ☐ 2 or 3 Family Residential D ☒ Non-Residential Vacant Land F ☐ Apartment H ☐ Community Service J ☐ Public Service

SALE INFORMATION

10. Sale Contract Date 10 / 12 / 2022
 Month Day Year

11. Date of Sale / Transfer 10 / 12 / 2022
 Month Day Year

12. Full Sale Price \$ 0

(Full Sale Price is the total amount paid for the property including personal property. This payment may be in the form of cash, other property or goods, or the assumption of mortgages or other obligations.) Please round to the nearest whole dollar amount.

13. Indicate the value of personal property included in the sale

14. Check one or more of these conditions as applicable to transfer:

A ☐ Sale Between Relatives or Former Relatives
 B ☐ Sale Between Related Companies or Partners in Business
 C ☐ One of the Buyers is also a Seller
 D ☐ Buyer or Seller is Government Agency or Lending Institution
 E ☐ Deed Type **not** Warranty or Bargain and Sale (Specify Below)
 F ☐ Sale of Fractional or Less than Fee Interest (Specify Below)
 G ☐ Significant Change in Property Between Taxable Status and Sale Dates
 H ☐ Sale of Business is Included in Sale Price
 I ☐ Other Unusual Factors Affecting Sale Price (Specify Below)
 J ☒ None

ASSESSMENT INFORMATION - Data should reflect the latest Final Assessment Roll and Tax Bill

15. Building Class U, 7 16. Total Assessed Value (of all parcels in transfer) 0

17. Borough, Block and Lot / Roll Identifier(s) (If more than three, attach sheet with additional identifier(s))

QUEENS 6290 9

CERTIFICATION

I certify that all of the items of information entered on this form are true and correct (to the best of my knowledge and belief) and understand that the making of any willful false statement of material fact herein will subject me to the provisions of the penal law relative to the making and filing of false instruments.

BUYER**BUYER'S ATTORNEY**

BUYER SIGNATURE			DATE		LAST NAME		FIRST NAME		
93-02 SUTPHIN BLVD									
STREET NUMBER		STREET NAME (AFTER SALE)			AREA CODE		TELEPHONE NUMBER		
JAMAICA		NY			11435-4332		SELLER		
CITY OR TOWN		STATE		ZIP CODE		SELLER SIGNATURE		DATE	



Combined Real Estate Transfer Tax Return, Credit Line Mortgage Certificate, and Certification of Exemption from the Payment of Estimated Personal Income Tax for the Conveyance of Real Property Located in New York City

See Form TP-584-NYC-I, Instructions for Form TP-584-NYC, before completing this form. Print or type.

Schedule A – Information relating to conveyance

Grantor/Transferor ☐ Individual ☐ Corporation ☐ Partnership ☐ Estate/Trust ☐ Single member LLC ☐ Multi-member LLC ☒ Other	Name (if individual, last, first, middle initial) (☐ mark an X if more than one grantor) NY STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION	Social Security number (SSN)
	Mailing address 625 BROADWAY 14TH FLOOR	SSN
	City State ZIP code ALBANY NY 12233-1500	Employer identification number (EIN) 14 6013200
	Single member's name if grantor is a single member LLC (see instructions)	Single member EIN or SSN
Grantee/Transferee ☐ Individual ☐ Corporation ☐ Partnership ☐ Estate/Trust ☐ Single member LLC ☐ Multi-member LLC ☒ Other	Name (if individual, last, first, middle initial) (☐ mark an X if more than one grantee) LONG ISLAND RAIL ROAD	SSN
	Mailing address 93-02 SUTPHIN BLVD	SSN
	City State ZIP code JAMAICA NY 11435-4332	EIN 11 6002502
	Single member's name if grantee is a single member LLC (see instructions)	Single member EIN or SSN

Location and description of property conveyed

Tax map designation – Section, block & lot (include dots and dashes)	SWIS code (six digits)	Street address	City, town, or village	County
4 - 6290 - 9	650000	N/A BELL BOULEVARD	NEW YORK	QUEENS

Type of property conveyed (mark an X in applicable box)

- 1 ☐ One- to three-family house
 2 ☐ Residential cooperative
 3 ☐ Residential condominium
 4 ☒ Vacant land
 5 ☐ Commercial/Industrial

- 6 ☐ Apartment building
 7 ☐ Office building
 8 ☐ Four-family dwelling
 9 ☐ Other _____

Date of conveyance

10	12	2022
month	day	year

☐ Contract executed on or before
April 1, 2019 (see instructions)

Percentage of real property
conveyed which is residential
real property _____ %
(see instructions)

Condition of conveyance (mark all that apply)

a. ☐ Conveyance of fee interest	f. ☐ Conveyance which consists of a mere change of identity or form of ownership or organization (attach Form TP-584.1, Schedule F)	i. ☐ Option assignment or surrender
b. ☐ Acquisition of a controlling interest (state percentage acquired _____ %)	g. ☐ Conveyance for which credit for tax previously paid will be claimed (attach Form TP-584.1, Schedule G)	m. ☐ Leasehold assignment or surrender
c. ☐ Transfer of a controlling interest (state percentage transferred _____ %)	h. ☐ Conveyance of cooperative apartment(s)	n. ☐ Leasehold grant
d. ☐ Conveyance to cooperative housing corporation	i. ☐ Syndication	o. ☐ Conveyance of an easement
e. ☐ Conveyance pursuant to or in lieu of foreclosure or enforcement of security interest (attach Form TP-584.1, Schedule E)	j. ☐ Conveyance of air rights or development rights	p. ☐ Conveyance for which exemption from transfer tax claimed (complete Schedule B, Part 4)
	k. ☐ Contract assignment	q. ☐ Conveyance of property partly within and partly outside the state
		r. ☐ Conveyance pursuant to divorce or separation
		s. ☒ Other (describe) DEED RESTRICTIONS

For recording officer's use	Amount received	Date received	Transaction number
	Schedule B, Part 1 \$ _____		
	Schedule B, Part 2 \$ _____		
	Schedule B, Part 3 \$ _____		

Schedule B – Real estate transfer tax return (Tax Law, Article 31)**Part 1 – Computation of tax due** *(in addition to the tax on line 4, you must compute the tax on lines 5a and 5b, if applicable)*

1	Enter amount of consideration for the conveyance (if you are claiming a total exemption from tax, mark the exemption claimed box, enter consideration and proceed to Part 4) ☐ Exemption claimed	1.		0 00
2	Continuing lien deduction (see instructions if property is taken subject to mortgage or lien)	2.		0 00
3	Taxable consideration (subtract line 2 from line 1)	3.		0 00
4	Tax: \$2 for each \$500, or fractional part thereof, of consideration on line 3	4.		0 00
5a	Tax: \$1.25 for each \$500, or fractional part thereof, of consideration for the conveyance of residential real property located in New York City if the amount on line 3 is \$3 million or more (see instructions)	5a.		0 00
5b	Tax: \$1.25 for each \$500, or fractional part thereof, of consideration for the conveyance of property located in New York City other than residential real property, if the amount on line 1 is \$2 million or more (see instructions)	5b.		0 00
6	Total before credit(s) claimed (add lines 4, 5a, and 5b)	6.		0 00
7	Amount of credit claimed for tax previously paid (see instructions and attach Form TP-584.1, Schedule G)	7.		0 00
8	Total tax due* (subtract line 7 from line 6)	8.		0 00

Part 2 – Computation of additional tax due on the conveyance of residential real property for \$1 million or more *(see instructions)*

1	Enter amount of consideration for conveyance (from Part 1, line 1)	1.		0 00
2	Taxable consideration (multiply line 1 by the percentage of the premises which is residential real property, as shown in Schedule A)	2.		0 00
3	Total additional transfer tax due* (multiply line 2 by 1% (.01))	3.		0 00

Part 3 – Computation of supplemental tax due on the conveyance of residential real property, or interest therein, located in New York City, for \$2 million or more *(see instructions)*

1	Enter amount of consideration for conveyance (from Part 1, line 1)	1.		0 00
2	Taxable consideration (multiply line 1 by the percentage of the premises which is residential real property, as shown in Schedule A)	2.		0 00
3	Total supplemental transfer tax due* (multiply line 2 by tax rate, see instruction for rates)	3.		0 00

*** The total tax (from Part 1, line 8; Part 2, line 3; and Part 3, line 3 above) is due within 15 days from the date of conveyance.**

Part 4 – Explanation of exemption claimed on Part 1, line 1 *(mark any boxes that apply)*

The conveyance of real property is exempt from the real estate transfer tax for the following reason:

- a. Conveyance is to the United Nations, the United States of America, New York State, or any of their instrumentalities, agencies, or political subdivisions (or any public corporation, including a public corporation created pursuant to agreement or compact with another state or Canada)..... a ☐
- b. Conveyance is to secure a debt or other obligation..... b ☐
- c. Conveyance is without additional consideration to confirm, correct, modify, or supplement a prior conveyance..... c ☐
- d. Conveyance of real property is without consideration and not in connection with a sale, including conveyances conveying realty as bona fide gifts..... d ☐
- e. Conveyance is given in connection with a tax sale..... e ☐
- f. Conveyance is a mere change of identity or form of ownership or organization where there is no change in beneficial ownership. (This exemption cannot be claimed for a conveyance to a cooperative housing corporation of real property comprising the cooperative dwelling or dwellings.) Attach Form TP-584.1, Schedule F..... f ☐
- g. Conveyance consists of deed of partition..... g ☐
- h. Conveyance is given pursuant to the federal Bankruptcy Act..... h ☐
- i. Conveyance consists of the execution of a contract to sell real property, without the use or occupancy of such property, or the granting of an option to purchase real property, without the use or occupancy of such property..... i ☐
- j. Conveyance of an option or contract to purchase real property with the use or occupancy of such property where the consideration is less than \$200,000 and such property was used solely by the grantor as the grantor's personal residence and consists of a one-, two-, or three-family house, an individual residential condominium unit, or the sale of stock in a cooperative housing corporation in connection with the grant or transfer of a proprietary leasehold covering an individual residential cooperative apartment..... j ☐
- k. Conveyance is not a conveyance within the meaning of Tax Law, Article 31, § 1401(e) (attach documents supporting such claim) k ☐

Schedule C – Credit Line Mortgage Certificate (Tax Law, Article 11)**Complete the following only if the interest being transferred is a fee simple interest.**I (we) certify that: *(mark an X in the appropriate box)*

1. ☐ The real property being sold or transferred is not subject to an outstanding credit line mortgage.
2. ☐ The real property being sold or transferred is subject to an outstanding credit line mortgage. However, an exemption from the tax is claimed for the following reason:
- a ☐ The transfer of real property is a transfer of a fee simple interest to a person or persons who held a fee simple interest in the real property (whether as a joint tenant, a tenant in common or otherwise) immediately before the transfer.
- b ☐ The transfer of real property is (A) to a person or persons related by blood, marriage or adoption to the original obligor or to one or more of the original obligors or (B) to a person or entity where 50% or more of the beneficial interest in such real property after the transfer is held by the transferor or such related person or persons (as in the case of a transfer to a trustee for the benefit of a minor or the transfer to a trust for the benefit of the transferor).
- c ☐ The transfer of real property is a transfer to a trustee in bankruptcy, a receiver, assignee, or other officer of a court.
- d ☐ The maximum principal amount secured by the credit line mortgage is \$3,000,000 or more, and the real property being sold or transferred is **not** principally improved nor will it be improved by a one- to six-family owner-occupied residence or dwelling.

Note: for purposes of determining whether the maximum principal amount secured is \$3,000,000 or more as described above, the amounts secured by two or more credit line mortgages may be aggregated under certain circumstances. See TSB-M-96(6)-R for more information regarding these aggregation requirements.

- e ☐ Other *(attach detailed explanation)*.
3. ☐ The real property being transferred is presently subject to an outstanding credit line mortgage. However, no tax is due for the following reason:
- a ☐ A certificate of discharge of the credit line mortgage is being offered at the time of recording the deed.
- b ☐ A check has been drawn payable for transmission to the credit line mortgagee or his agent for the balance due, and a satisfaction of such mortgage will be recorded as soon as it is available.
4. ☐ The real property being transferred is subject to an outstanding credit line mortgage recorded in _____ (insert liber and page or reel or other identification of the mortgage). The maximum principal amount of debt or obligation secured by the mortgage is _____. No exemption from tax is claimed and the tax of _____ is being paid herewith. *(Make check payable to county clerk where deed will be recorded or, if the recording is to take place in New York City but not in Richmond County, make check payable to the NYC Department of Finance.)*

Signature (both the grantor(s) and grantee(s) must sign)

The undersigned certify that the above information contained in schedules A, B, and C, including any return, certification, schedule, or attachment, is to the best of his/her knowledge, true and complete, and authorize the person(s) submitting such form on their behalf to receive a copy for purposes of recording the deed or other instrument effecting the conveyance.

Grantor signature_____
Title_____
Grantee signature_____
Title_____
Grantor signature_____
Title_____
Grantee signature_____
Title

Reminder: Did you complete all of the required information in Schedules A, B, and C? Are you required to complete Schedule D? If you marked e, f, or g in Schedule A, did you complete Form TP-584.1? If the contract was executed prior to April 1, 2019, did you attach the necessary verification? Have you attached your check(s) made payable to the county clerk where recording will take place or, if the recording is in the New York City boroughs of Manhattan, Bronx, Brooklyn, or Queens, to the **NYC Department of Finance**? If no recording is required, send this return and your check(s), made payable to the **NYS Department of Taxation and Finance**, directly to the NYS Tax Department, RETT Return Processing, PO Box 5045, Albany NY 12205-0045. If not using U.S. Mail, see Publication 55, *Designated Private Delivery Services*.

2022110400298301

Signature (both the grantor(s) and grantee(s) must sign)

The undersigned certify that the above information contained in schedules A, B, and C, including any return, certification, schedule, or attachment, is to the best of his/her knowledge, true and complete, and authorize the person(s) submitting such form on their behalf to receive a copy for purposes of recording the deed or other instrument effecting the conveyance.

_____ Grantor signature	_____ Title	_____ Grantee signature	_____ Title
_____ Grantor signature	_____ Title	_____ Grantee signature	_____ Title

Schedule D – Certification of exemption from the payment of estimated personal income tax (Tax Law, Article 22, § 663)

Complete the following only if a fee simple interest or a cooperative unit is being transferred by an individual or estate or trust.

If the property is being conveyed by a referee pursuant to a foreclosure proceeding, proceed to Part 2, mark the second box under *Exemptions for nonresident transferor(s)/seller(s)*, and sign at bottom.

Part 1 – New York State residents

If you are a New York State resident transferor(s)/seller(s) listed in Form TP-584-NYC, Schedule A (or an attachment to Form TP-584-NYC), you must sign the certification below. If one or more transferors/sellers of the real property or cooperative unit is a resident of New York State, **each** resident transferor/seller must sign in the space provided. If more space is needed, photocopy this Schedule D and submit as many schedules as necessary to accommodate all resident transferors/sellers.

Certification of resident transferor(s)/seller(s)

This is to certify that at the time of the sale or transfer of the real property or cooperative unit, the transferor(s)/seller(s) as signed below was a resident of New York State, and therefore is not required to pay estimated personal income tax under Tax Law, § 663(a) upon the sale or transfer of this real property or cooperative unit.

Signature	Print full name	Date
Signature	Print full name	Date
Signature	Print full name	Date
Signature	Print full name	Date

Note: A resident of New York State may still be required to pay estimated tax under Tax Law, § 685(c), but not as a condition of recording a deed.

Part 2 – Nonresidents of New York State

If you are a nonresident of New York State listed as a transferor/seller in Form TP-584-NYC, Schedule A (or an attachment to Form TP-584-NYC) but are not required to pay estimated personal income tax because one of the exemptions below applies under Tax Law, § 663(c), mark the box of the appropriate exemption below. If any one of the exemptions below applies to the transferor(s)/seller(s), that transferor(s)/seller(s) is not required to pay estimated personal income tax to New York State under Tax Law, § 663. **Each** nonresident transferor/seller who qualifies under one of the exemptions below must sign in the space provided. If more space is needed, photocopy this Schedule D and submit as many schedules as necessary to accommodate all nonresident transferors/sellers.

If none of these exemption statements apply, you must complete Form IT-2663, *Nonresident Real Property Estimated Income Tax Payment Form*, or Form IT-2664, *Nonresident Cooperative Unit Estimated Income Tax Payment Form*. For more information, see *Payment of estimated personal income tax*, on Form TP-584-NYC-I, page 1.

Exemption for nonresident transferor(s)/seller(s)

This is to certify that at the time of the sale or transfer of the real property or cooperative unit, the transferor(s)/seller(s) (grantor) of this real property or cooperative unit was a nonresident of New York State, but is not required to pay estimated personal income tax under Tax Law, § 663 due to one of the following exemptions:

- ☐ The real property or cooperative unit being sold or transferred qualifies in total as the transferor's/seller's principal residence (within the meaning of Internal Revenue Code, section 121) from _____ Date to _____ Date (see instructions).
- ☐ The transferor/seller is a mortgagor conveying the mortgaged property to a mortgagee in foreclosure, or in lieu of foreclosure with no additional consideration.
- ☐ The transferor or transferee is an agency or authority of the United States of America, an agency or authority of the state of New York, the Federal National Mortgage Association, the Federal Home Loan Mortgage Corporation, the Government National Mortgage Association, or a private mortgage insurance company.

Signature	Print full name	Date
Signature	Print full name	Date
Signature	Print full name	Date
Signature	Print full name	Date

2022110400298301

Certification of resident transferor(s)/seller(s)

This is to certify that at the time of the sale or transfer of the real property or cooperative unit, the transferor(s)/seller(s) as signed below was a resident of New York State, and therefore is not required to pay estimated personal income tax under Tax Law, section 663(a) upon the sale or transfer of this real property or cooperative unit.

Signature	Print full name	Date
Signature	Print full name	Date
Signature	Print full name	Date
Signature	Print full name	Date

Exemption for nonresident transferor(s)/seller(s)

This is to certify that at the time of the sale or transfer of the real property or cooperative unit, the transferor(s)/seller(s) (grantor) of this real property or cooperative unit was a nonresident of New York State, but is not required to pay estimated personal income tax under Tax Law, section 663 due to one of the following exemptions:

- ☐ The real property or cooperative unit being sold or transferred qualifies in total as the transferor's/seller's principal residence (within the meaning of Internal Revenue Code, section 121) from _____ to _____ (see instructions).

DateDate
- ☐ The transferor/seller is a mortgagor conveying the mortgaged property to a mortgagee in foreclosure, or in lieu of foreclosure with no additional consideration.
- ☐ The transferor or transferee is an agency or authority of the United States of America, an agency or authority of the state of New York, the Federal National Mortgage Association, the Federal Home Loan Mortgage Corporation, the Government National Mortgage Association, or a private mortgage insurance company.

Signature	Print full name	Date
Signature	Print full name	Date
Signature	Print full name	Date
Signature	Print full name	Date

DECLARATION of COVENANTS and RESTRICTIONS

THIS COVENANT is made the 12th day of OCTober 2021 by MTA Long Island Rail Road (LIRR), a subsidiary public benefit corporation of the MTA and has its offices for the transaction of business at 93-02 Sutphin Boulevard, Jamaica, NY 11435.

WHEREAS, Bayside Substation is the subject of a Consent Order, DEC Index No. CO 1-20180613-127, with an effective date of which is July 13, 2018 (together with exhibits, appendices-and any subsequent modifications "the July 2018 Order"). executed by the LIRR as part of the New York State Department of Environmental Conservation's (the "Department's) inactive hazardous waste disposal site remedial programs pursuant to Article 27, Title 13 of the Environmental Conservation Law ("ECL") and Part 375 of Title 6 of the Official Compilation of Codes Rules and Regulations ("6 NYCRR") Program, namely that parcel of real property located on 216th Street and 41st Avenue situated at Bayside in the Third Ward of the Borough of Queens, County of Queens, State of New York, which is part of lands conveyed by Janet Lawrence to Long Island Rail Road Company by deed dated September 29, 1902 and recorded in the Queens County for NYC Deeds in Book 128 and Page 165, and being more particularly described in Appendix "A," attached to this declaration and made a part hereof, and hereinafter referred to as "the Property"; and

WHEREAS, the Department approved a remedy to eliminate or mitigate all significant threats to the environment presented by the contamination disposed at the Property and such remedy requires that the Property be subject to restrictive covenants.

NOW, THEREFORE, MTA Long Island Rail Road, for itself and its successors and/or assigns, covenants that:

First, the Property subject to this Declaration of Covenants and Restrictions is as shown on a map attached to this declaration as Appendix "B" and made a part hereof.

Second, unless prior written approval by the Department or, if the Department shall no longer exist, any New York State agency or agencies subsequently created to protect the environment of the State and the health of the State's citizens, hereinafter referred to as "the Relevant Agency," is first obtained, where contamination remains at the Property subject to the provisions of the Site Management Plan ("SMP"), there shall be no construction, use or occupancy of the Property that results in the disturbance or excavation of the Property which threatens the integrity of the engineering controls or which results in unacceptable human exposure to contaminated soils.

Third, the owner of the Property shall not disturb, remove, or otherwise interfere with the installation, use, operation, and maintenance of engineering controls required for the Remedy, which are described in the SMP, unless in each instance the owner first obtains a written waiver of such prohibition from the Department or Relevant Agency.

Fourth, the owner of the Property shall prohibit the Property from ever being used for purposes other than for railroad and/or transportation purposes without the express written waiver of such prohibition by the Department or Relevant Agency.

Fifth, the owner of the Property shall prohibit the use of the groundwater underlying the Property without treatment to render it safe for drinking water or for industrial purposes, as appropriate, and the user must first notify and obtain written approval to do so from the Department or Relevant Agency.

Sixth, the owner of the Property shall provide a periodic certification, prepared and submitted by a professional engineer or environmental professional acceptable to the Department or Relevant Agency, which will certify that the institutional and engineering controls put in place are unchanged from the previous certification, comply with the SMP, and have not been impaired.

Seventh, the owner of the Property shall continue in full force and effect any institutional and engineering controls required for the Remedy and maintain such controls, unless the owner first obtains permission to discontinue such controls from the Department or Relevant Agency, in compliance with the approved SMP, which is incorporated and made enforceable hereto, subject to modifications as approved by the Department or Relevant Agency.

Eighth, this Declaration is and shall be deemed a covenant that shall run with the land and shall be binding upon all future owners of the Property, and shall provide that the owner and its successors and assigns consent to enforcement by the Department or Relevant Agency of the prohibitions and restrictions that the Consent Order requires to be recorded, and hereby covenant not to contest the authority of the Department or Relevant Agency to seek enforcement.

Ninth, any deed of conveyance of the Property, or any portion thereof, shall recite, unless the Department or Relevant Agency has consented to the termination of such covenants and restrictions, that said conveyance is subject to this Declaration of Covenants and Restrictions.

IN WITNESS WHEREOF, the undersigned has executed this instrument the day written below.

MTA Long Island Rail Road :

By: _____

Print Name: David Florio

Title: Chief Real Estate Transactions and Operations Officer

Date: 10/12/22

STATE OF NEW YORK)
) ss:
COUNTY OF New York)

On the 12th day of October, in the year 2022, before me, the undersigned, personally appeared David Florio, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Pam Geary
Notary Public - State of New York

PAM GEARY
Notary Public, State of New York
No. 01GE6036159
Qualified in Nassau County
Commission Expires February 28, 2026

APPENDIX "A"

104. — Deed With Full Covenants (Act of 1893).

N.Y.L.A.)

John Palherius Printing Company, Printers and M^{rs} Stationers,
107 Fulton St., New York.

165
This Indenture, made the twenty ninth day
of September in the year One thousand nine hundred and two
Between Janet E. M. Lawrence of Bay side Queens
County New York

The Long Island Railroad Company
party

of the second part:

Witnesseth, That the said party of the first part, in consideration of
the sum of Six thousand dollars,
lawful money of the United States,

paid by the party of the second
part, does hereby grant and release unto the said party of the second
part, ~~the same~~ and assigns forever. All that certain triangular
piece or parcel of land situate at Bay side in the Third
ward of the Borough of Queens, City of New York, State
of New York, bounded and described as follows:
Beginning at a point in the Northerly line of land of
The Long Island Railroad Company, where the same is
intersected by the centre line of Tenth Street and run-
ning thence along the centre line of Tenth Street North
5° 37' West two hundred and sixty four and five
tenths (264.5) feet to a point; thence South 86° 29' West
two thousand four hundred and ninety one and
three tenths (2491.3) feet to a point in the Northerly
line of land of The Long Island Railroad Company;
thence along the Northerly line of said land the follo-
ing courses and distances South 87° 54' East one
hundred and two one hundredths (100.02) feet,
South 87° 02' East one hundred (100) feet, South
86° 10' East one hundred and two one hundredths
(100.02) feet, South 87° 02' East one thousand one
hundred (1100) feet, South 88° 45' East one hundred
and four one hundredths (100.04) feet, South
89° 37' East one hundred and one tenth (100.1)
feet, North 89° 32' East one hundred and eighteen
one hundredths (100.18) feet, North 87° 49' East one
hundred and forty one one hundredths (100.41) feet,
North 87° 32' East two hundred and thirty six one hundredths
(200.36) feet, South 87° 37' East one hundred and one tenth
(100.1) feet, South 87° 02' East one hundred (100) feet,

South $34^{\circ}27'$ East one hundred and one tenth
(100.1) feet, South $81^{\circ}53'$ East one hundred and forty
one one hundredths (100.41) feet, South $34^{\circ}27'$ East
one hundred and one tenth (100.1) feet, South $32^{\circ}45'$
East fifteen (15) feet to the point or place of beginning.
Subject to any public or private rights of way in Front Street.

Together with the appurtenances; and all the estate and rights of the said party of the first part, in and to said premises-

To have and to hold the above granted premises unto the said party of the second part its successors heirs and assigns forever-
subject as aforesaid-

And the said James C. Mc. Lawrence, party of the first part does covenant with the said party of the second part as follows:

First.- That the said James C. Mc. Lawrence party of the first part, is seized of the said premises in fee simple, and has good right to convey the same-

Second.- That the party of the second part shall quietly enjoy the said premises-

Third.- That the said premises are free from incumbrances-
except said right of way

Fourth.- That the party of the first part will execute or procure any further necessary assurance of the title to said premises.

Fifth.- That the said James C. Mc. Lawrence will forever warrant the title to said premises

In Witness whereof, the said party of the first part has hereunto set her hand and seal the day and year first above written.

In the presence of

James C. Mc. Lawrence
Effingham Lawrence

State of New York
City & County of New York

ss:

On this 2nd day of September in the year One
thousand nine hundred and two before me personally came Effingham
Lawrence, subscribing witness to the within instru-
ment with which I am personally acquainted
who being by me duly sworn said that he resided
in the City of New York, that he was acquainted
to the person, and known to me to be the individual described in and who executed the foregoing
instrument, and that he acknowledged to me that he executed
the same with Paul C. Tu Lawrence, and knew
her to be the person described in and who
executed the said instrument, and that he saw
her execute and deliver the same, and that
he the said Effingham Lawrence thereupon
subscribed his name as a witness thereto.

STATE OF NEW YORK,)
County of New York,) ss.

On this Twenty ninth day of September, 1902 before me person-

State of New York,
County of New York, ss.

Page 2.

I, THOMAS L. HAMILTON, Clerk of the County of New York, and also Clerk of the Supreme Court for
the said County, the same being a Copy of Record DO HEREBY CERTIFY, that

Laura Bayles
has filed in the Clerk's Office of the County of New York, a certified copy of his appoint-
ment and qualification as Notary Public for the County of Rock
with his autograph signature, and was at the time of taking the proof or acknowledgment
of the annexed instrument, duly authorized to take the same. And further that I am well
acquainted with the handwriting of such Notary, and believe the signature to the said certificate
of proof or acknowledgment to be genuine.

In Testimony Whereof, I have hereunto set my hand and affixed the seal of
the said Court and County, the 30th day of Sept 1902

describ-
knowledg-

Thomas Hamilton Clerk

Oct 1st 1902

James Higgins Clerk

State of New York
City & County of New York ss:

On this 2nd day of September, in the year One
thousand nine hundred and two before me personally came Effingham
Lawrence, subscribing witness to the within instru-
ment, with which I am personally acquainted
who being by me duly sworn, said that he resided
in the City of New York, that he was acquainted
to the person, and known to me to be the individual described in and who executed the foregoing
instrument, and I thereupon acknowledged to me that he executed
the same. With Janet C. Tu Lawrence, and knew
her to be the person described in and who
executed the said instrument, and that he saw
her execute and deliver the same, and that
he the said Effingham Lawrence thereupon
subscribed his name as a witness thereto

STATE OF NEW YORK,)
County of New York.) ss.

On this Twenty ninth day of September, 1902 before me person-
ally came and appeared

JANET C. T. LAWRENCE

to me personally known and known to me to be the individual describ-
ed in and who executed the foregoing instrument, and who acknowledg-
ed to me that she executed the same.

Laura Taylor
Notary Public,
Kings County,
Cert. filed in N. Y. Co.

1287 165
Oct 1st 1902 11 am
James McGinnis Clerk.

~~000000000000~~
D20 #29C

Janet C. W. Lawrence

to

The Long Island Railroad
Company

890

Deed

Dated 190

SECTION	
BLOCK	

000000000000
15104
1727

APPENDIX "B"

